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June 1, 2018

VIA ELECTRONIC FILING

Hon. David Jones, Chairman
c/o Sharla Dillon
Tennessee Public Utilities Commission
502 Deaderick Street, 4th Floor
Nashville, TN 37243

RE: *Petition of Tennessee-American Water Company in Support of the Calculation of the 2018 Capital Recovery Riders Reconciliation, Docket No. 18-00022*

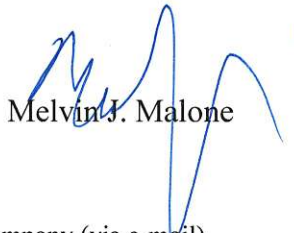
Dear Chairman Jones:

Attached for filing please find *Tennessee-American Water Company's Responses to Third Discovery Requests of the Consumer Protection and Advocate Division* in the above-captioned matter.

As required, an original of this filing, along with four (4) hard copies, will follow. Should you have any questions concerning this filing, or require additional information, please do not hesitate to contact me.

Very truly yours,

BUTLER SNOW LLP


Melvin J. Malone

clw

Attachments

cc: Linda Bridwell, Tennessee-American Water Company (via e-mail)
Daniel Whitaker, Assistant Attorney General, Consumer Protection and Advocate Division (via email)
Karen H. Stachowski, Assistant Attorney General, Consumer Protection and Advocate Division (via email)

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BUTLER SNOW LLP

**BEFORE THE TENNESSEE PUBLIC UTILITY COMMISSION
NASHVILLE, TENNESSEE**

**PETITION OF TENNESSEE-AMERICAN)
WATER COMPANY REGARDING)
CHANGES TO THE QUALIFIED)
INFRASTRUCTURE INVESTMENT)
PROGRAM RIDER, THE ECONOMIC)
DEVELOPMENT INVESTMENT RIDER,)
AND THE SAFETY AND)
ENVIRONMENTAL COMPLIANCE)
RIDER AND IN SUPPORT OF THE)
CALCULATION OF THE 2018 CAPITAL)
RECOVERY RIDERS RECONCILIATION)**

DOCKET NO. 18-00022

**TENNESSEE-AMERICAN WATER COMPANY'S RESPONSE
TO THIRD DISCOVERY REQUESTS OF
THE CONSUMER PROTECTION AND ADVOCATE DIVISION**

Tennessee-American Water Company ("TAWC"), by and through counsel, hereby submits its Response to the Third Discovery Requests propounded by the Consumer Protection and Advocate Division ("CPAD").

GENERAL OBJECTIONS

1. TAWC objects to all requests that seek information protected by the attorney-client privilege, the work-product doctrine and/or any other applicable privilege or restriction on disclosure.

2. TAWC objects to the definitions and instructions accompanying the requests to the extent the definitions and instructions contradict, are inconsistent with, or impose any obligations beyond those required by applicable provisions of the Tennessee Rules of Civil Procedure or the rules, regulations, or orders of the Tennessee Public Utility Commission ("TPUC" or "Authority").

3. The specific responses set forth below are based on information now available to TAWC, and TAWC reserves the right at any time to revise, correct, add to or clarify the objections or responses and supplement the information produced.

4. TAWC objects to each request to the extent that it is unreasonably cumulative or duplicative, or seeks information obtainable from some other source that is more convenient, less burdensome or less expensive.

5. TAWC objects to each request to the extent it seeks information outside TAWC's custody or control.

6. TAWC's decision, now or in the future, to provide information or documents notwithstanding the objectionable nature of any of the definitions or instructions, or the requests themselves, should not be construed as: (a) a stipulation that the material is relevant or admissible, (b) a waiver of TAWC's General Objections or the objections asserted in response to specific discovery requests, or (c) an agreement that requests for similar information will be treated in a similar manner.

7. TAWC objects to those requests that seek the identification of "any" or "all" documents or witnesses (or similar language) related to a particular subject matter on the grounds that they are overbroad and unduly burdensome, and exceed the scope of permissible discovery.

8. TAWC objects to those requests that constitute a "fishing expedition," seeking information that is not relevant or reasonably calculated to lead to the discovery of admissible evidence and is not limited to this matter.

9. TAWC does not waive any previously submitted objections to the CPAD's supplemental discovery requests.

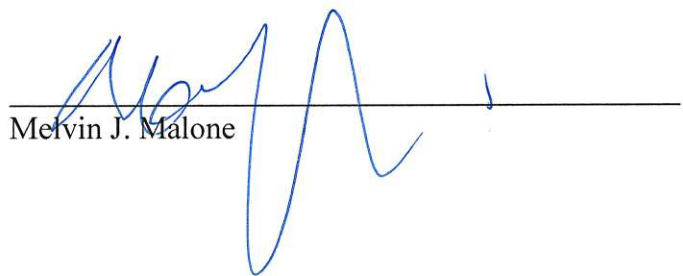
CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of the foregoing was served via U.S. Mail or electronic mail upon:

Daniel Whitaker III, Esq.
Assistant Attorney General
Office of the Tennessee Attorney General
Consumer Protection and Advocate Division
P.O. Box 20207
Nashville, TN 37202-0207
Daniel.Whitaker@ag.tn.gov

Karen H. Stachowski
Assistant Attorney General
Office of the Tennessee Attorney General
Consumer Protection and Advocate Division
P.O. Box 20207
Nashville, TN 37202-0207
Karen.Stachowski@ag.tn.gov

This the 1st day of June, 2018.

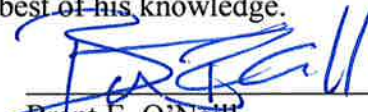


Melvin J. Malone

STATE OF Kentucky)
COUNTY OF Fayette)

BEFORE ME, the undersigned authority, duly commissioned and qualified in and for the State and County aforesaid, personally came and appeared Brent E. O'Neill, being by me first duly sworn deposited and said that:

He is appearing as a witness on behalf of Tennessee-American Water Company before the Tennessee Public Utility Commission, and if present before the Commission and duly sworn, the data requests responses are accurate to the best of his knowledge.


Brent E. O'Neill

Sworn to and subscribed before me
this 1st day of June, 2018.


Notary Public

My Commission Expires: 7/25/2020

STATE OF Kentucky)
COUNTY OF Fayette)

BEFORE ME, the undersigned authority, duly commissioned and qualified in and for the State and County aforesaid, personally came and appeared Linda C. Bridwell, being by me first duly sworn deposed and said that:

She is appearing as a witness on behalf of Tennessee-American Water Company before the Tennessee Public Utility Commission, and if present before the Commission and duly sworn, the data requests responses are accurate to the best of her knowledge.

Linda C. Bridwell
Linda C. Bridwell

Sworn to and subscribed before me
this 1st day of June, 2018.

Sharon Miller
Notary Public

My Commission Expires: 7/25/2020

**TENNESSEE AMERICAN WATER COMPANY
DOCKET NO. 18-00022
THIRD DISCOVERY REQUEST OF THE
CONSUMER ADVOCATE AND PROTECTION DIVISION**

Responsible Witness: **Brent E. O'Neill**

Question:

1. Produce all documents related to TAWC's replacement strategy for infrastructure under the Capital Riders, including but not limited to the prioritization of future projects, cost estimates and other budgetary information for upcoming projects, engineering progress reports, reports and presentations provided to management, and reports concerning the progress of current projects.

Response:

The starting point for a majority of the strategy for infrastructure replacement and improvements is developed from the Comprehensive Planning Study ("CPS") that identifies major improvements needed to ensure safe, dependable and reliable operations of the facilities and allows the facilities to meet the regulatory requirements for the production and distribution of drinking water. The projects identified within the study are prioritized for importance and are placed in the budgets based on the available capital remaining after the determination of the needed capital for the recurring construction needs that are trended from historical and forecasted data. During 2015 and 2016, TAWC updated the Comprehensive Planning Studies for the main service area and the Whitwell and Suck Creek areas and are attached as Attachments 1 and 2 to this response. These documents, along with the project manager's development of the recurring construction needs form the strategy for the management of the infrastructure for TAWC. The project manager's needs are captured through annual budget process and documented through the TN – RP 2017 Budget Spreadsheet that is attached as Attachment 3. The project managers develop these needs through their understanding of trends from historical and forecasted needs along with their knowledge of the process and equipment under their supervision. This information provides the multi-year strategy for infrastructure replacement and improvements that TAWC expects to will ensure safe, dependable and reliable operations of the facilities and address the pressing needs as determined by the business.

TAWC also utilizes a variety of data and trends to determine the prioritization of main replacement in the system. During 2016, TAWC developed a review of the water distribution system to provide it with a strategy for the replacement of mains. The report provided a background for the system and determined that the emphasis on the replacement of galvanized steel main is needed over the next 15 years. This report is provided as Attachment 4. In addition to the emphasis on the replacement of galvanized steel main, TAWC has developed a Main Replacement Priority List that it uses to determine the mains that should be considered for replacement as the capital plan is developed each year. This

list is provided as Attachment 5. This priority list utilizes eight criteria to assist TAWC to determine the mains that should be considered for replacement and then the engineering team and business determines which of these mains should be included in the capital plan based on additional information such as discussions with the City of Chattanooga for upcoming projects that included upcoming repaving activities.

The information provided by the CPS and RP Budget Spreadsheet is the foundation that the Strategic Capital Expenditure Plan (SCEP) is developed and presented to the business at several budget review meetings throughout the second quarter of each year (Exhibit 2017 SCEP – BEO is attached as Attachment 5). During those meetings, the CPS and the RP Budget Spreadsheet are reviewed and the needs indicated by the business are discussed to allow an understanding of the infrastructure improvement strategy during the upcoming five years.

Throughout the year, TAWC continuously ensures the capital expenditure plan meets the strategic intent of the business through the Capital Investment Management Committee (“CIMC”) and the Functional Sign-Off (“FSO”) Committee. These committees meet on a monthly basis and oversee the progress of projects from inception to completion and ensures that the strategy for the replacement and improvement of the infrastructure is carried out prudently. An example of a CIM Program Progress Report for October 2017 is provided as Attachment 6 as an example of the areas reviewed during each meeting.

In addition to the CIMC and FSO meetings, TAWC conducts a quarterly meeting with the City of Chattanooga. During these meeting TAWC shares with the city the progress on the projects (April 2018 Revised Project Report) that were included in the annual budget and ensure that the continue to align with the projects that the City is conducting and to determine if an adjustment in TAWC’s strategy is required.

**TENNESSEE AMERICAN WATER COMPANY
DOCKET NO. 18-00022
THIRD DISCOVERY REQUEST OF THE
CONSUMER ADVOCATE AND PROTECTION DIVISION**

Responsible Witness: **Brent E. O’Neill**

Question:

2. Provide the ratio of TAWC's capital expenditures eligible for its Capital Riders over the 2014 -2017 time frame to the total TAWC capital expenditures incurred during this same period.

Response:

The below table provides the ratio of eligible Capital Rider expenditures during the period of 2014-2017.

	2014	2015	2016	2017
Rider Expenditures	\$ 16,869,725	\$ 17,987,560	\$ 12,940,386	\$ 13,318,829
Non-Rider Expenditures	\$ 2,729,991	\$ 3,908,214	\$ 3,190,824	\$ 4,392,495
Total Expenditures	\$ 19,599,716	\$ 21,895,774	\$ 16,131,211	\$ 17,711,323
Percent Rider Expenditures	86%	82%	80%	75%
Percent Non Rider Expenditures	14%	18%	20%	25%

**TENNESSEE AMERICAN WATER COMPANY
DOCKET NO. 18-00022
THIRD DISCOVERY REQUEST OF THE
CONSUMER ADVOCATE AND PROTECTION DIVISION**

Responsible Witness: **Linda C. Bridwell**

Question:

3. For each response to each discovery request made by the Consumer Advocate, identify the responsible witness who will be available at any hearing in this Docket to answer questions and respond to cross-examination on such response. Further, identify all persons assisting in the answering of each of these requests. Indicate the request(s) on which each such person(s) assisted.

Response:

In addition to its General Objections, TAWC objects to this Request on the grounds that it is overbroad, unduly burdensome, unrestricted in scope, and seeks information that is neither relevant nor reasonably calculated to lead to the discovery of admissible evidence. TAWC reserves the right to supplement this response as information becomes available during the course of discovery, document review and investigation. Subject to and without waiving the foregoing objections, TAWC states as follows:

Please refer to each individual response. Ms. Bridwell and Mr. O'Neill are identified as the responsible persons. Each individual response has the appropriate responsible person identified.

**TENNESSEE AMERICAN WATER COMPANY
DOCKET NO. 18-00022
THIRD DISCOVERY REQUEST OF THE
CONSUMER ADVOCATE AND PROTECTION DIVISION**

Responsible Witness: **Linda C. Bridwell**

Question:

4. Identify each person who you expect to call as an expert witness at the hearing on the merits in this docket, and for each such expert witness:
 - (a) Identify the field in which the witness is to be offered as an expert;
 - (b) Provide complete background information, including the witness's current employer, as well as his or her educational, professional and employment history, and qualifications within the field in which the witness is expected to testify;
 - (c) Identify all publications written or presentations presented in whole or in part by the witness, including either a copy of all such publications and presentations or a reference to where such publications and presentations may be publicly obtained;
 - (d) Provide the grounds for the opinions to which the witness is expected to testify, and provide a summary of the grounds for each such opinion;
 - (e) Identify any matter in which the expert has testified (through deposition or otherwise) by specifying the name, docket number and forum of each case, the dates of the prior testimony and the subject of the prior testimony, and identify the transcripts of any such testimony;
 - (f) Identify the terms of the retention or engagement of each expert including but not limited to the terms of any retention or engagement letters or agreements relating to his/her engagement, testimony, and opinions as well as the compensation to be paid for the testimony and opinions;
 - (g) Identify any exhibits to be used as a summary of or support for the testimony or opinions provided by the expert; and
 - (h) Produce copies of all documents, summaries, charts, trade articles, journals, treatises, publications, workpapers, file notes, chart notes, tests, test results, interview notes, and consultation notes provided to, reviewed by, utilized by, relied upon, created by, or produced by any proposed expert witness in evaluating, reaching conclusions or formulating an opinion in this matter.

Response:

In addition to its General Objections, TAWC objects to this Request on the grounds that it is overbroad, unduly burdensome, unrestricted in time and scope, and seeks information that is neither relevant nor reasonably calculated to lead to the discovery of admissible evidence. TAWC further objects to this Request on the grounds that it seeks the production of information that is protected from disclosure by the attorney-client privilege, the work product immunity, or any other applicable privileges, immunities, and/or doctrines of state law. TAWC reserves the right to supplement this response as information becomes available during the course of discovery, document review and investigation. Subject to and without waiving the foregoing objections, TAWC states as follows:

This Response will be supplemented at a later date, if appropriate, in accordance with the Tennessee Rules of Civil Procedure and any Scheduling Order. However, at this time, TAWC does not expect to call any witnesses at the hearing not already identified and refers the CPAD to the Pre-filed Testimony of Linda C. Bridwell and Brent E. O'Neill, the Petition, and all supporting documentation, including responses to discovery, data requests, and the record in TPUC Docket No. 13-00130. TAWC also refers to and incorporates herein its responses to Request Nos. 6, 7, 8, and 9.

**TENNESSEE AMERICAN WATER COMPANY
DOCKET NO. 18-00022
THIRD DISCOVERY REQUEST OF THE
CONSUMER ADVOCATE AND PROTECTION DIVISION**

Responsible Witness: **Linda C. Bridwell**

Question:

5. Identify all persons having knowledge of discoverable matters in this case.

Response:

In addition to its General Objections, TAWC objects to this Request on the grounds that it is overbroad, unduly burdensome, unrestricted in scope, and seeks information that is neither relevant nor reasonably calculated to lead to the discovery of admissible evidence. TAWC further objects to this Request to the extent that it seeks information that is equally obtainable by the CPAD from public or other sources or through some other means of discovery that is more convenient, less burdensome, or less expensive. TAWC reserves the right to supplement this response as information becomes available during the course of discovery, document review and investigation. Subject to and without waiving the foregoing objections, TAWC states as follows:

The following persons have some knowledge of discoverable matters in this case: Linda C. Bridwell and Brent E. O'Neill. In addition to the Pre-filed Testimony in this matter, TAWC will identify responsible persons for each discovery request in this matter on an ongoing basis, if appropriate.

**TENNESSEE AMERICAN WATER COMPANY
DOCKET NO. 18-00022
THIRD DISCOVERY REQUEST OF THE
CONSUMER ADVOCATE AND PROTECTION DIVISION**

Responsible Witness: **Linda C. Bridwell**

Question:

6. Produce copies of all documents referred to or relied upon in responding to these discovery requests.

Response:

In addition to its General Objections, TAWC objects to this Request on the grounds that it is overbroad, unduly burdensome, and duplicative. TAWC further objects to this Request to the extent that it seeks information that is equally obtainable by the CPAD from public or other sources or through some other means of discovery that is more convenient, less burdensome, or less expensive. Subject to and without waiving the foregoing objections, TAWC states as follows:

Any documents relied upon in responding to these discovery requests have been included as attachments to specific requests. TAWC also refers the CPAD to all documents filed previously in this matter, including the Pre-filed Testimony of Linda C. Bridwell and Brent E. O'Neil, the Petition, and all supporting documentation, responses to discovery and data requests, and the record in TPUC Docket No. 13-00130, Docket No. 14-00121, Docket No. 15-00029, Docket No. 15-00111, Docket No. 16-00022, Docket No. 16-00126, Docket No. 17-00020, and Docket No. 17-00124. TAWC reserves the right to supplement this response as information becomes available during the course of discovery, document review and investigation.

**TENNESSEE AMERICAN WATER COMPANY
DOCKET NO. 18-00022
THIRD DISCOVERY REQUEST OF THE
CONSUMER ADVOCATE AND PROTECTION DIVISION**

Responsible Witness: **Linda C. Bridwell**

Question:

7. Produce copies of all hearing exhibits that you plan to introduce, use, or reference at the hearing on the merits in this docket.

Response:

In addition to its General Objections, TAWC objects to this Request on the grounds that it is overbroad, unduly burdensome, and duplicative. TAWC further objects to this Request to the extent that it seeks information that is equally obtainable by the CPAD from public or other sources or through some other means of discovery that is more convenient, less burdensome, or less expensive. Subject to and without waiving the foregoing objections, TAWC states as follows:

TAWC refers the CPAD to all documents filed previously in this matter, and it anticipates that all documents submitted in this matter will be introduced into evidence. TAWC also refers the CPAD to all documents filed in this matter subsequent to the issuance of these responses, including, but not limited to, future responses to discovery requests and/or TPUC data requests. TAWC reserves the right to supplement this response as information becomes available during the course of discovery, document review and investigation.

**TENNESSEE AMERICAN WATER COMPANY
DOCKET NO. 18-00022
THIRD DISCOVERY REQUEST OF THE
CONSUMER ADVOCATE AND PROTECTION DIVISION**

Responsible Witness: **Linda C. Bridwell**

Question:

8. Produce copies of all documents -- including, without limitation, work papers, spreadsheets, summaries, charts, notes, exhibits, articles, journals, treatises, periodicals, publications, reports, records, statements, Internet web pages, or financial information -- relied upon by any of your witnesses in evaluating, reaching conclusions, or formulating an opinion in this matter.

Response:

In addition to its General Objections, TAWC objects to this Request on the grounds that it is overbroad, unduly burdensome, duplicative, and seeks information that is neither relevant nor reasonably calculated to lead to the discovery of admissible evidence. TAWC further objects to this Request to the extent that it seeks information that is equally obtainable by the CPAD from public or other sources or through some other means of discovery that is more convenient, less burdensome, or less expensive. Subject to and without waiving the foregoing objections, TAWC states as follows:

TAWC refers the CPAD to the following previously filed documents in this matter: TAWC's Petition and supporting documentation, including, but not limited to: the Pre-Filed Testimony of Linda C. Bridwell and Brent E. O'Neill, work papers, spreadsheets and exhibits. TAWC also refers and incorporates herein its objections and responses to Request Nos. 1, 2, 10, 13, 14, 16, 18, 19, 23, 24, and 26 as well as the record in TPUC Docket No. 13-00130, Docket No. 14-00121, Docket No. 15-00029, Docket No. 15-00111, Docket No. 16-00022, Docket No. 16-00126, Docket No. 17-00020 and Docket No. 17-00124. TAWC reserves the right to supplement this response as information becomes available during the course of discovery, document review and investigation.

**TENNESSEE AMERICAN WATER COMPANY
DOCKET NO. 18-00022
THIRD DISCOVERY REQUEST OF THE
CONSUMER ADVOCATE AND PROTECTION DIVISION**

Responsible Witness: **Linda C. Bridwell**

Question:

9. Identify all documents and other information filed in the present docket record, including all responses to discovery of the parties and data request from the TPUC Staff, which TAWC produced in this docket and does not agree to stipulate to the authenticity of such information, documents and things in this proceeding. For each separate piece of information, documents and things which TAWC produced in this docket and TAWC contends is not admissible as evidence describe in specific detail any objection(s) TAWC claims as to admissibility into the evidentiary record in this docket.

Response:

In addition to its General Objections, TAWC objects to this Request on the grounds that it is overbroad, unduly burdensome, vague, confusing, and ambiguous. Subject to and without waiving the foregoing objections, TAWC states as follows:

At this time, only with respect to such information submitted by TAWC, TAWC has no intention of challenging the authenticity or admissibility of such information. TAWC also has no objection to the submission into evidence of such information submitted by TAWC. It is customary for the agency to move all discovery into evidence. TAWC reserves the right to supplement this response as information becomes available during the course of discovery, document review and investigation.

**TENNESSEE AMERICAN WATER COMPANY
DOCKET NO. 18-00022
THIRD DISCOVERY REQUEST OF THE
CONSUMER ADVOCATE AND PROTECTION DIVISION**

Responsible Witness: **Linda C. Bridwell**

Question:

12. Refer to page 11 of Ms. Bridwell's rebuttal testimony in Docket No. 17-00124. Does the Company contend that the existing TAWC Capital Riders tariff precludes the calculation of ADIT and tax depreciation for the Capital Riders in a manner consistent with the methodology used to calculate tax depreciation actually used within the TAWC tax return? If so, provide a complete explanation supporting this conclusion.

Response:

No, the Company does not. Consistent with the approval of the tariffs and methodology proposed in Docket No. 13-00130, however, the TPUC-approved and Company-applied methodology for the calculation of tax depreciation is and remains consistent with calculation and methodology from the original capital rider surcharge percentages approved in Docket No. 13-00130. To be sure, there are possibly a number of modifications that might not be inconsistent with the plain language in the approved tariff.

**TENNESSEE AMERICAN WATER COMPANY
DOCKET NO. 18-00022
THIRD DISCOVERY REQUEST OF THE
CONSUMER ADVOCATE AND PROTECTION DIVISION**

Responsible Witness: **Linda C. Bridwell**

Question:

13. Refer to page 11 of Ms. Bridwell's rebuttal testimony in Docket No. 17-00124. Provide the balance of the TAWC NOL asset included in TAWC's rate base in its most recent base rate filing, and provide the reference, source, and support for this balance.

Response:

The last rate case filed by TAWC was Docket No.12-00049. In that case there was a deferred tax asset of \$1,832,246 related to the NOL carryforward.

Please refer to the attachment for support.

**Tennessee-American Water
Case # 18-00022
Data Request CPAD 3-13**

Rate Base per last case	132,015,472	As shown in the Stipulation and Settlement Agreement for Docket 12-00049, Schedule 3
Deferred Taxes included in Rate Base	26,733,940	As shown in the Stipulation and Settlement Agreement for Docket 12-00049, Schedule 3

NOL CF included in Deferred Taxes above	1,832,246

Support Calculations:

		% of Consolidated Loss	Total of Taxable Inc Co's in Consolidation	Income Allocation	NOL Carried Back to 2007	NOL CF	Consolidated Tax Inc	Total % of Consolidated NOL	Net NOL Utilized	Charitable Contribution CF converted to NOL	Total Federal NOL CF at 12/31/2011
2011							29,079,102	0.44%	(128,201)		
2010	(2,787,041)	1.07%	56,978,941	609,893		2,177,148					
2009	(340,935)	0.10%	92,120,249	93,786		247,149					
2008	(9,233,620)	1.27%	23,839,180	302,493	6,122,570	2,808,557					
2007											
						<u>5,232,855</u>				<u>130,334</u>	
									<u>(128,201)</u>	<u>130,334</u>	<u>5,234,988</u>
										Federal Tax Rate	<u>0.35</u>
										Federal Deferred Tax	<u>1,832,246</u>

**TENNESSEE AMERICAN WATER COMPANY
DOCKET NO. 18-00022
THIRD DISCOVERY REQUEST OF THE
CONSUMER ADVOCATE AND PROTECTION DIVISION**

Responsible Witness: **Linda C. Bridwell**

Question:

14. Refer to page 11 of Ms. Bridwell's rebuttal testimony in Docket No. 17-00124. Provide the balance of the TAWC NOL as of December 31, for each year end, from 2011 through 2017.

Response:

Please refer to the attachement for the NOL carryforward balances for each tax year, from 2011 through 2017.

Tennessee-American Water
Case # 18-00022
Data Request CPAD 3-14

Tax Year	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017 *</u>
NOL CF Gross Balance after filed tax returns *	4,945,421	4,919,432	4,648,513	6,174,119	3,860,510	5,699,269	4,938,170

* Note that 2017's tax return has not been filed as of this data request and therefore is as of the year end provision

**TENNESSEE AMERICAN WATER COMPANY
DOCKET NO. 18-00022
THIRD DISCOVERY REQUEST OF THE
CONSUMER ADVOCATE AND PROTECTION DIVISION**

Responsible Witness: **Linda C. Bridwell**

Question:

15. Refer to page 11 of Ms. Bridwell's rebuttal testimony in Docket No. 17-00124. Provide the account(s) used to record the NOL (Deferred Tax Asset) on the books of TAWC.

Response:

TAWC books its federal deferred taxes to account 25311000 Deferred FIT Liability – Other or 25319000 Deferred FIT Asset – Long Term, which will include the NOL (deferred tax asset) along with other items generating deferred taxes. There is no separate account for the NOL DTA.

**TENNESSEE AMERICAN WATER COMPANY
DOCKET NO. 18-00022
THIRD DISCOVERY REQUEST OF THE
CONSUMER ADVOCATE AND PROTECTION DIVISION**

Responsible Witness: **Linda C. Bridwell**

Question:

16. Refer to page 11 of Ms. Bridwell's rebuttal testimony in Docket No. 17-00124. Provide the calculation of the TAWC taxable income for the periods 2008 through 2014.

Response:

Similar to the attachments 1 & 2 provided in response to Item 2 of the CPAD's First Discovery Request in this Docket, please see confidential attachment for the TAWC federal proforma tax returns from 2009-20014.

For 2008, refer to the confidential attachment which includes the Schedule M-3 for TAWC from the AW consolidated tax return.

**TENNESSEE AMERICAN WATER COMPANY
DOCKET NO. 18-00022
THIRD DISCOVERY REQUEST OF THE
CONSUMER ADVOCATE AND PROTECTION DIVISION**

Responsible Witness: **Linda C. Bridwell**

Question:

17. Refer to the response supplied in response and attachment to CPAD 1-3 in the current docket. Does Ms. Bridwell agree that TAWC has not generated a net NOL carryforward during the period of time the Capital Riders were in effect? If Ms. Bridwell does not agree with this statement, provide a comprehensive explanation supporting this position in light of the response to CPAD 1-2, along with all supporting calculations.

Response:

For the combined period, 2014-2017, with 2017 being an estimate at this time, there is a combined taxable income on the tax returns. There were taxable losses in 2014 and 2015 that are less than the taxable incomes in 2016 and 2017. This information is based on the total TAW company and not what pieces are included in the Capital Recovery Riders.

**TENNESSEE AMERICAN WATER COMPANY
DOCKET NO. 18-00022
THIRD DISCOVERY REQUEST OF THE
CONSUMER ADVOCATE AND PROTECTION DIVISION**

Responsible Witness: **Linda C. Bridwell**

Question:

18. Refer to the attachment provided in the response to CPAD 1-2. Provide the underlying calculation supporting the amount of Repair Allowance shown on excel row 13 of this schedule for each period included in the spreadsheet. This response should include the complete support for factors used within cells F13, 113, N13, S 13 and X13.

Response:

For each year, the Company took its repair deduction on the tax return and divided it by total additions to come up with a percentage to use in the schedule. Please refer to the attachment. Also please note that for 2017, the calculation was done incorrectly in the Item 3 of the CPAD's First Discovery Request in this Docket attachment. That schedule uses 15.82% for 2017 and it should be 30.19%. This is corrected in the attachment and TAWC will file a supplemental correction to the original response to Item 3 of the CPAD's First Discovery Request in this Docket.

Tennessee-American Water
Case # 1800022
CPAD 3-18

	2017			2016			2015			2014		
	Repairs in	2017 Total	2017	Repairs on	2016 Total	2016	Repairs on	2015 Total	2015	Repairs on	2014 Total	2014
	Tax	Additions	Repair %	Tax Return	Additions	Repair %	Tax Return	Additions	Repair %	Tax Return	Additions	Repair %
	Provision											
Per Tax Return/Provision	5,328,737	17,649,408	30.19%	6,375,298	17,738,934	35.94%	5,108,100	28,850,571	17.71%	3,545,498	15,461,501	22.93%

**TENNESSEE AMERICAN WATER COMPANY
DOCKET NO. 18-00022
THIRD DISCOVERY REQUEST OF THE
CONSUMER ADVOCATE AND PROTECTION DIVISION**

Responsible Witness: **Linda C. Bridwell**

Question:

19. Refer to CPAD 1-2 in Docket No. 17-00020. Provide support for the hard-coded amounts contained within the "WKP SAP Revenues" tab within the file "TAW_2017_Capital Rider Reconciliation". If these amounts were derived from the TAWC accounting system, provide the applicable screen shots that support the hard-coded amounts.

Response:

Please refer to the attachment, which is a download from the accounting system named "TAW_R_CPADDR3_NUM019_06012018_Attachment.xlsx".

Tennessee-American Water Company
Response to CPADDR2-019
Revenue Bill Analysis Report

Docket #18-00022

Posting Period Range 01/2017 - 12/2017
Company Code 1026

		Revenue													
	Posting period	1	2	3	4	5	6	7	8	9	10	11	12		
G/L Account	Rate Number	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	Overall Result	\$
AWTR/40111200	TNNRWEDI	0.66	0.79	0.47	1.26	1.33	2.64	4.01	2.69	2.63	2.19	2.04	1.43	22.14	
	TNNRWQIIP	32.17	-6.39	18.61	28.70	29.43	58.23	40.64	59.64	77.18	65.37	61.28	43.13	507.99	
	TNNRWSEC	39.91	3.19	22.17	23.66	23.85	47.15	71.71	48.32	44.76	37.06	34.76	24.46	421.00	
	TNRSWEDI	784.40	1,374.76	2,381.21	4,475.12	6,085.28	6,252.15	5,941.60	6,757.84	5,746.60	5,531.95	4,899.64	4,886.07	55,116.60	
	TNRSWPCOP					1.15								1.15	
	TNRSWQIIP	85,762.68	65,768.31	87,038.22	101,675.25	133,905.41	137,475.25	130,849.89	148,073.48	166,499.70	166,583.79	147,115.92	146,750.12	1,517,498.02	
	TNRSWSEC	95,003.84	82,547.78	98,916.96	84,814.58	108,835.56	111,831.88	106,386.80	120,472.77	98,584.66	94,410.97	83,697.78	83,265.94	1,168,769.52	
AWTR/40121200	TNNRWEDI	533.61	1,107.47	1,742.98	3,521.20	4,580.48	4,606.15	4,287.53	4,993.64	4,255.17	4,151.77	3,767.33	3,745.42	41,292.75	
	TNNRWQIIP	63,628.03	49,823.28	64,770.20	79,201.34	101,669.59	102,054.75	94,955.60	110,608.30	123,935.38	124,469.77	112,413.83	112,154.39	1,139,684.46	
	TNNRWSEC	69,436.67	62,636.29	75,340.00	65,190.38	82,533.78	82,781.20	76,916.58	89,589.97	72,784.78	70,505.96	63,918.27	63,572.38	875,206.26	
	TNRSWEDI	0.23	0.42	0.88	1.26	2.12	5.24	4.75	4.11	3.37	3.55	3.69	1.94	31.56	
	TNRSWQIIP	22.97	18.90	29.08	28.30	47.03	115.67	105.23	90.52	100.94	106.82	112.07	57.01	834.54	
	TNRSWSEC	25.54	23.68	32.02	23.34	38.14	93.69	85.27	73.33	57.76	60.53	63.32	32.76	609.38	
AWTR/40131200	TNNRWEDI	107.97	282.59	425.55	789.19	1,164.24	1,193.51	1,015.72	1,283.43	958.48	1,057.52	886.90	946.36	10,111.46	
	TNNRWQIIP	18,297.21	13,288.19	16,443.54	18,351.48	26,223.75	26,396.67	22,468.15	28,387.95	26,601.42	31,757.85	26,681.79	28,430.00	283,328.00	
	TNNRWSEC	19,441.15	16,563.27	19,387.24	15,636.19	21,758.11	21,377.14	18,196.78	22,991.04	16,570.85	18,017.04	15,105.75	16,121.49	221,166.05	
AWTR/40145200	TNNRFEDI	1,010.92	-60.06	-17.32	1,059.14	-40.06	-11.91	1,065.31	-73.98	-47.67	966.35	2,392.14	-48.18	6,194.68	
	TNNRFQIIP	4,420.71	-262.34	-75.54	4,631.67	-175.16	-52.00	4,690.13	-323.99	-208.25	4,225.86	161,546.52	-467.84	177,949.77	
	TNNRFSEC	619.08	-36.96	-10.68	648.53	-24.48	-7.37	656.65	-45.36	-29.06	591.73	131,947.99	-289.19	134,020.88	
AWTR/40151200	TNNRWEDI	116.60	233.37	390.04	695.96	1,069.37	1,046.04	905.19	1,154.72	909.95	1,048.95	748.48	781.68	9,100.35	
	TNNRWQIIP	13,025.54	10,595.71	14,201.77	15,467.55	23,573.72	23,092.21	20,005.40	25,199.03	26,977.92	31,320.24	22,499.82	23,496.25	249,455.16	
	TNNRWSEC	14,315.64	13,293.62	16,316.44	12,646.07	19,083.70	18,694.90	16,200.96	20,668.86	15,587.30	17,872.57	12,756.78	13,323.33	190,760.17	
	TNRSWEDI	0.00	0.02	0.02	0.08	0.15	0.17	0.14	0.09	0.21	0.29	0.12	0.11	1.40	
	TNRSWQIIP	1.13	0.93	0.93	1.77	3.32	3.73	3.13	2.08	6.26	8.87	3.54	3.27	38.96	
	TNRSWSEC	1.15	1.17	1.17	1.57	2.69	3.02	2.54	1.68	3.65	5.03	2.01	1.86	27.54	
AWTR/40161200	TNNRWEDI	41.88	86.00	93.63	275.03	306.90	217.57	247.91	284.05	438.49	312.09	231.21	207.35	2,742.11	
	TNNRWQIIP	5,860.05	3,921.08	3,314.48	6,099.08	6,787.81	4,812.44	5,483.26	6,282.41	12,055.38	9,375.89	6,945.91	6,229.39	77,167.18	
	TNNRWSEC	6,313.73	4,918.54	3,757.79	4,952.95	5,497.05	3,897.31	4,440.57	5,087.75	7,593.57	5,316.67	3,938.74	3,532.42	59,247.09	
AWTR/40171100	TNNRWEDI	0.44	0.87	1.22	-1.66	2.96	3.13	3.23	3.37	3.13	3.09	2.11	2.81	24.70	
	TNNRWPCOP	-3.80	-2.81	-3.57	30.21	-2.90	-3.32	-3.42	-8.81	-8.94	-8.91	-6.14	-8.08	-30.49	
	TNNRWQIIP	54.72	34.54	47.86	39.47	63.01	69.20	71.28	74.42	92.70	92.93	65.71	84.43	790.27	
	TNNRWSEC	59.52	44.50	56.94	37.08	49.17	56.05	57.73	60.27	53.07	52.69	35.66	47.87	610.55	
Overall Result		398,954.35	326,200.71	404,624.31	420,345.75	543,096.50	546,112.49	515,160.27	591,803.62	579,651.39	587,946.48	801,874.97	506,930.38	6,222,701.22	

															SAP G/L	Variance
40111200	Residential Sales Billed DSIC	\$181,623.66	\$149,688.44	\$188,377.64	\$191,018.57	\$248,882.01	\$255,667.30	\$243,294.65	\$275,414.74	\$270,955.53	\$266,631.33	\$235,811.42	\$234,971.15	\$2,742,336.44	(\$2,742,336.44)	-0.00
40121200	Commercial Sales Billed DSIC	133,647.05	113,610.04	141,915.16	147,965.82	188,871.14	189,656.70	176,354.96	205,359.87	201,137.40	199,298.40	180,278.51	179,563.90	2,057,658.95	(2,057,658.95)	0.00
40131200	Industrial Sales Billed DSIC	37,846.33	30,134.05	36,256.33	34,776.86	49,146.10	48,967.32	41,680.65	52,662.42	44,130.75	50,832.41	42,674.44	45,497.85	514,605.51	(514,605.51)	0.00
40145200	Private Fire Billed DSIC	6,050.71	(359.36)	(103.54)	6,339.34	(239.70)	(71.28)	6,412.09	(443.33)	(284.98)	5,783.94	295,886.65	(805.21)	318,165.33	(318,165.33)	0.00
40151200	Public Authority Billed DSIC	27,460.06	24,124.82	30,910.37	28,813.00	43,732.95	42,840.07	37,117.36	47,026.46	43,485.29	50,255.95	36,010.75	37,606.50	449,383.58	(449,383.58)	0.00
40161200	Sales for Resale Billed DSIC	12,215.66	8,925.62	7,165.90	11,327.06	12,591.76	8,927.32	10,171.74	11,654.21	20,087.44	15,004.65	11,115.86	9,969.16	139,156.38	(139,156.38)	0.00
40171100	Misc Sales Billed Surcharge	110.88	77.10	102.45	105.10	112.24	125.06	128.82	129.25	139.96	139.80	97.34	127.03	1,395.03	(1,395.03)	0.00
Total		398,954.35	326,200.71	404,624.31	420,345.75	543,096.50	546,112.49	515,160.27	591,803.62	579,651.39	587,946.48	801,874.97	506,930.38	6,222,701.22		
Back out PCOP Rate #s		3.80	2.81	3.57	-30.21	1.75	3.32	3.42	8.81	8.94	8.91	6.14	8.08	29.34		
2016 Capital Rider Revenues		\$398,958.15	\$326,203.52	\$404,627.88	\$420,315.54	\$543,098.25	\$546,115.81	\$515,163.69	\$591,812.43	\$579,660.33	\$587,955.39	\$801,881.11	\$506,938.46	\$6,222,730.56		

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065127	50	-46.47		2605	1/11/2017	1/10/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065127	40	10.52		2602	1/11/2017	1/10/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065127	40	7.33		2602	1/11/2017	1/10/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065127	40	1.21		2602	1/11/2017	1/10/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065127	40	5.65		2602	1/11/2017	1/10/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065127	50	-0.63		2602	1/11/2017	1/10/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065127	50	-0.34		2605	1/11/2017	1/10/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065127	50	-0.72		2602	1/11/2017	1/10/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065127	40	2.20		2602	1/11/2017	1/10/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065127	40	4.94		2602	1/11/2017	1/10/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065127	40	13.08		2602	1/11/2017	1/10/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065127	50	-4.77		2602	1/11/2017	1/10/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065127	50	-1,303.86		2602	1/11/2017	1/10/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065127	50	-0.54		2605	1/11/2017	1/10/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065127	50	-65.93		2602	1/11/2017	1/10/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065127	50	-4.89		2605	1/11/2017	1/10/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065127	40	7.81		2602	1/11/2017	1/10/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065127	40	25.67		2602	1/11/2017	1/10/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065127	40	1.62		2602	1/11/2017	1/10/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065127	40	4.38		2602	1/11/2017	1/10/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065127	50	-155.32		2602	1/11/2017	1/10/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065127	50	-9,421.97		2602	1/11/2017	1/10/2017
1026	OL	40111200	1/26/2017	2017	1	ZJ	9200065753	50	-1.13		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/26/2017	2017	1	ZJ	9200065753	50	-1.46		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065754	50	-0.10		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065754	50	-1.60		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065754	50	-3.51		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065754	50	-9.24		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065754	50	-73.60		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065754	50	-8.50		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065754	50	-1.08		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065754	50	-8.12		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065754	50	-4.80		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065754	50	-2.98		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065754	50	-1.53		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065754	50	-1.53		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065754	50	-7.67		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065754	50	-1.49		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065754	50	-12.78		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065754	50	-8.46		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065754	50	-3.03		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065754	50	-10.14		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065754	50	-0.72		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065754	50	-5.61		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065754	50	-3.61		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/13/2017	2017	1	ZJ	9200065310	40	14.96		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/13/2017	2017	1	ZJ	9200065310	40	5.96		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/13/2017	2017	1	ZJ	9200065310	40	49.05		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/13/2017	2017	1	ZJ	9200065310	50	-3.44		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-1.69		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-1.57		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-49.94		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-1.57		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-2.43		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-4.96		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-2.00		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-4.04		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-19.57		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	40	11.56		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-33.11		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-1.34		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-9.86		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-4.54		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-2.87		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-1.52		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	40	15.97		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-2.87		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-2.43		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-2.49		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-2.00		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-0.82		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-4.54		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-1.59		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-2.43		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-2.66		2605	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-4.52		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-10.68		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-5.89		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-1.69		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065311	50	-3.11		2602	1/13/2017	1/13/2017
1026	OL	40111200	1/4/2017	2017	1	ZJ	9200064964	40	3.55		2602	1/4/2017	1/4/2017
1026	OL	40111200	1/4/2017	2017	1	ZJ	9200064964	40	4.63		2605	1/4/2017	1/4/2017
1026	OL	40111200	1/4/2017	2017	1	ZJ	9200064964	40	15.80		2602	1/4/2017	1/4/2017
1026	OL	40111200	1/4/2017	2017	1	ZJ	9200064964	40	57.63		2602	1/4/2017	1/4/2017
1026	OL	40111200	1/4/2017	2017	1	ZJ	9200064964	40	21.66		2602	1/4/2017	1/4/2017
1026	OL	40111200	1/4/2017	2017	1	ZJ	9200064964	40	4.87		2602	1/4/2017	1/4/2017
1026	OL	40111200	1/10/2017	2017	1	ZJ	9200065114	40	11.26		2602	1/10/2017	1/10/2017
1026	OL	40111200	1/10/2017	2017	1	ZJ	9200065114	40	3.32		2602	1/10/2017	1/10/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-2.87		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-1.57		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-1.57		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-1.57		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-4.86		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-4.62		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-4.33		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-4.62		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-1.52		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-1.50		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-1.50		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-2.31		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-1.81		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-0.72		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-1.69		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-34.47		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-0.86		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-0.82		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-8.58		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-10.41		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-12.58		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-1.45		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-15.31		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-9.52		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-2.00		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-0.89		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-21.48		2605	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-3.17		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-8.15		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-1.61		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-5.07		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-9.30		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-1.66		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-8.15		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-2.54		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-0.91		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-11.80		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065056	50	-8.45		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065339	50	-1.57		2602	1/18/2017	1/16/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065339	50	-64.07		2602	1/18/2017	1/16/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065339	40	6.26		2602	1/18/2017	1/16/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065339	50	-1.50		2602	1/18/2017	1/16/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065339	50	-0.17		2602	1/18/2017	1/16/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065339	50	-0.17		2602	1/18/2017	1/16/2017
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1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065339	50	-36.03		2602	1/18/2017	1/16/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065339	50	-19.76		2602	1/18/2017	1/16/2017
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1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065339	50	-2.52		2605	1/18/2017	1/16/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065339	50	-0.84		2602	1/18/2017	1/16/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065339	50	-0.84		2602	1/18/2017	1/16/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065339	50	-0.84		2602	1/18/2017	1/16/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065339	50	-0.84		2602	1/18/2017	1/16/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065339	50	-1.18		2602	1/18/2017	1/16/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065339	50	-0.76		2602	1/18/2017	1/16/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065339	50	-0.85		2602	1/18/2017	1/16/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065339	40	0.09		2602	1/18/2017	1/16/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065339	50	-0.16		2602	1/18/2017	1/16/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065339	50	-0.07		2602	1/18/2017	1/16/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065339	50	-0.16		2602	1/18/2017	1/16/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065339	50	-0.16		2602	1/18/2017	1/16/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065339	50	-0.16		2602	1/18/2017	1/16/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065339	50	-0.87		2602	1/18/2017	1/16/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065339	50	-0.17		2602	1/18/2017	1/16/2017
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1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065339	50	-6.93		2602	1/18/2017	1/16/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065339	50	-0.16		2602	1/18/2017	1/16/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065339	50	-0.16		2602	1/18/2017	1/16/2017
1026	OL	40111200	1/3/2017	2017	1	ZJ	9200065326	40	1.69		2602	1/3/2017	1/16/2017
1026	OL	40111200	1/9/2017	2017	1	ZJ	9200065736	40	3.93		2605	1/9/2017	1/26/2017
1026	OL	40111200	1/13/2017	2017	1	ZJ	9200065737	40	2.07		2602	1/13/2017	1/26/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065738	40	1.57		2602	1/18/2017	1/26/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065738	40	1.64		2602	1/18/2017	1/26/2017
1026	OL	40111200	1/19/2017	2017	1	ZJ	9200065739	40	5.25		2602	1/19/2017	1/26/2017
1026	OL	40111200	1/19/2017	2017	1	ZJ	9200065739	40	0.93		2602	1/19/2017	1/26/2017
1026	OL	40111200	1/19/2017	2017	1	ZJ	9200065739	40	4.72		2605	1/19/2017	1/26/2017
1026	OL	40111200	1/19/2017	2017	1	ZJ	9200065739	40	41.43		2605	1/19/2017	1/26/2017
1026	OL	40111200	1/19/2017	2017	1	ZJ	9200065739	40	3.52		2605	1/19/2017	1/26/2017
1026	OL	40111200	1/19/2017	2017	1	ZJ	9200065739	50	-0.11		2602	1/19/2017	1/26/2017
1026	OL	40111200	1/19/2017	2017	1	ZJ	9200065739	40	3.10		2602	1/19/2017	1/26/2017
1026	OL	40111200	1/19/2017	2017	1	ZJ	9200065739	40	1.55		2605	1/19/2017	1/26/2017
1026	OL	40111200	1/19/2017	2017	1	ZJ	9200065739	40	0.87		2602	1/19/2017	1/26/2017
1026	OL	40111200	1/19/2017	2017	1	ZJ	9200065739	40	3.71		2605	1/19/2017	1/26/2017
1026	OL	40111200	1/19/2017	2017	1	ZJ	9200065739	40	2.43		2602	1/19/2017	1/26/2017
1026	OL	40111200	1/19/2017	2017	1	ZJ	9200065739	40	1.88		2602	1/19/2017	1/26/2017

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	1/19/2017	2017	1	ZI	9200065739	40	1.69		2605	1/19/2017	1/26/2017
1026	OL	40111200	1/19/2017	2017	1	ZI	9200065739	40	30.66		2602	1/19/2017	1/26/2017
1026	OL	40111200	1/19/2017	2017	1	ZI	9200065739	40	0.36		2602	1/19/2017	1/26/2017
1026	OL	40111200	1/24/2017	2017	1	ZI	9200065592	50	-1.25		2602	1/24/2017	1/23/2017
1026	OL	40111200	1/24/2017	2017	1	ZI	9200065592	50	-37.02		2602	1/24/2017	1/23/2017
1026	OL	40111200	1/24/2017	2017	1	ZI	9200065592	50	-6,382.93		2602	1/24/2017	1/23/2017
1026	OL	40111200	1/24/2017	2017	1	ZI	9200065592	40	18.28		2602	1/24/2017	1/23/2017
1026	OL	40111200	1/24/2017	2017	1	ZI	9200065592	50	-27.32		2603	1/24/2017	1/23/2017
1026	OL	40111200	1/24/2017	2017	1	ZI	9200065592	50	-101.75		2602	1/24/2017	1/23/2017
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1026	OL	40111200	1/24/2017	2017	1	ZI	9200065592	50	-3.09		2602	1/24/2017	1/23/2017
1026	OL	40111200	1/24/2017	2017	1	ZI	9200065592	50	-3.11		2602	1/24/2017	1/23/2017
1026	OL	40111200	1/24/2017	2017	1	ZI	9200065592	50	-11.22		2602	1/24/2017	1/23/2017
1026	OL	40111200	1/24/2017	2017	1	ZI	9200065592	50	-4.64		2605	1/24/2017	1/23/2017
1026	OL	40111200	1/24/2017	2017	1	ZI	9200065592	50	-819.58		2602	1/24/2017	1/23/2017
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1026	OL	40111200	1/24/2017	2017	1	ZI	9200065592	50	-1.27		2602	1/24/2017	1/23/2017
1026	OL	40111200	1/19/2017	2017	1	ZI	9200065757	50	-98.22		2602	1/19/2017	1/26/2017
1026	OL	40111200	1/19/2017	2017	1	ZI	9200065757	50	-104.02		2602	1/19/2017	1/26/2017
1026	OL	40111200	1/19/2017	2017	1	ZI	9200065757	50	-1.63		2602	1/19/2017	1/26/2017
1026	OL	40111200	1/19/2017	2017	1	ZI	9200065757	50	-1.58		2602	1/19/2017	1/26/2017
1026	OL	40111200	1/19/2017	2017	1	ZI	9200065757	40	18.90		2602	1/19/2017	1/26/2017
1026	OL	40111200	1/19/2017	2017	1	ZI	9200065757	50	-1.66		2602	1/19/2017	1/26/2017
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1026	OL	40111200	1/20/2017	2017	1	ZI	9200065758	50	-3.16		2605	1/19/2017	1/26/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065758	50	-1.55		2602	1/19/2017	1/26/2017
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1026	OL	40111200	1/20/2017	2017	1	ZI	9200065758	50	-4.77		2602	1/19/2017	1/26/2017
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1026	OL	40111200	1/20/2017	2017	1	ZI	9200065758	50	-4.41		2605	1/19/2017	1/26/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065758	50	-1.69		2605	1/19/2017	1/26/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065758	50	-4.30		2605	1/19/2017	1/26/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065758	50	-2.20		2605	1/19/2017	1/26/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065758	50	-3.93		2605	1/19/2017	1/26/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065758	50	-4.58		2605	1/19/2017	1/26/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065758	50	-4.72		2605	1/19/2017	1/26/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065758	50	-2.49		2605	1/19/2017	1/26/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065758	50	-3.11		2602	1/19/2017	1/26/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065758	50	-2.69		2605	1/19/2017	1/26/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065758	50	-25.26		2602	1/19/2017	1/26/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065758	50	-1.41		2605	1/19/2017	1/26/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065758	50	-4.31		2602	1/19/2017	1/26/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065758	50	-4.77		2602	1/19/2017	1/26/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065758	50	-1.66		2602	1/19/2017	1/26/2017
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1026	OL	40111200	1/20/2017	2017	1	ZI	9200065758	50	-1.60		2602	1/19/2017	1/26/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065758	50	-3.52		2605	1/19/2017	1/26/2017
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1026	OL	40111200	1/20/2017	2017	1	ZI	9200065758	50	-1.71		2602	1/19/2017	1/26/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065758	50	-3.75		2602	1/19/2017	1/26/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065758	50	-1.60		2602	1/19/2017	1/26/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065758	50	-3.71		2605	1/19/2017	1/26/2017
1026	OL	40111200	1/16/2017	2017	1	ZI	9200065328	40	1.55		2602	1/16/2017	1/16/2017
1026	OL	40111200	1/6/2017	2017	1	ZI	9200065129	40	1.55		2602	1/6/2017	1/10/2017
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1026	OL	40111200	1/23/2017	2017	1	ZI	9200065741	40	1.52		2602	1/23/2017	1/26/2017
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1026	OL	40111200	1/6/2017	2017	1	ZI	9200065744	40	5.50		2602	1/5/2017	1/26/2017
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1026	OL	40111200	1/26/2017	2017	1	ZI	9200065746	40	76.39		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/26/2017	2017	1	ZI	9200065746	40	3.59		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/5/2017	2017	1	ZI	9200065044	40	2.27		2605	1/5/2017	1/6/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	1/13/2017	2017	1	ZI	9200065254	50	-9.02		2602	1/12/2017	1/12/2017
1026	OL	40111200	1/13/2017	2017	1	ZI	9200065254	50	-4.06		2602	1/12/2017	1/12/2017
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1026	OL	40111200	1/13/2017	2017	1	ZI	9200065254	50	-24.90		2602	1/12/2017	1/12/2017
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1026	OL	40111200	1/13/2017	2017	1	ZI	9200065254	50	-6.52		2602	1/12/2017	1/12/2017
1026	OL	40111200	1/13/2017	2017	1	ZI	9200065254	50	-3.23		2602	1/12/2017	1/12/2017
1026	OL	40111200	1/13/2017	2017	1	ZI	9200065254	50	-28.41		2602	1/12/2017	1/12/2017
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1026	OL	40111200	1/13/2017	2017	1	ZI	9200065254	50	-3.31		2602	1/12/2017	1/12/2017
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1026	OL	40111200	1/21/2017	2017	1	ZI	9200065555	50	-2.43		2602	1/20/2017	1/20/2017
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1026	OL	40111200	1/30/2017	2017	1	ZI	9200065908	40	1.66		2602	1/30/2017	1/31/2017
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1026	OL	40111200	1/30/2017	2017	1	ZI	9200065908	40	1.69		2602	1/30/2017	1/31/2017
1026	OL	40111200	1/30/2017	2017	1	ZI	9200065908	40	4.99		2602	1/30/2017	1/31/2017
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1026	OL	40111200	1/30/2017	2017	1	ZI	9200065908	40	1.64		2602	1/30/2017	1/31/2017
1026	OL	40111200	1/30/2017	2017	1	ZI	9200065908	40	2.11		2602	1/30/2017	1/31/2017
1026	OL	40111200	1/11/2017	2017	1	ZI	9200065436	40	0.05		2602	1/11/2017	1/18/2017
1026	OL	40111200	1/18/2017	2017	1	ZI	9200065437	40	1.69		2602	1/18/2017	1/18/2017
1026	OL	40111200	1/23/2017	2017	1	ZI	9200065539	50	-6,445.32		2602	1/23/2017	1/20/2017
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1026	OL	40111200	1/23/2017	2017	1	ZI	9200065539	50	-72.26		2602	1/23/2017	1/20/2017
1026	OL	40111200	1/23/2017	2017	1	ZI	9200065539	50	-1.02		2602	1/23/2017	1/20/2017
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1026	OL	40111200	1/31/2017	2017	1	ZI	9200065883	40	19.57		2602	1/31/2017	1/31/2017
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1026	OL	40111200	1/5/2017	2017	1	ZI	9200064963	50	-1.61		2602	1/4/2017	1/4/2017
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1026	OL	40111200	1/23/2017	2017	1	ZI	9200065647	40	9.56		2602	1/23/2017	1/24/2017
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1026	OL	40111200	1/9/2017	2017	1	ZI	9200065138	40	1.05		2602	1/9/2017	1/10/2017
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1026	OL	40111200	1/10/2017	2017	1	ZI	9200065139	40	5.14		2602	1/9/2017	1/10/2017
1026	OL	40111200	1/23/2017	2017	1	ZI	9200065656	40	13.18		2602	1/23/2017	1/24/2017
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1026	OL	40111200	1/23/2017	2017	1	ZI	9200065656	50	-108.59		2602	1/23/2017	1/24/2017
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1026	OL	40111200	1/24/2017	2017	1	ZI	9200065657	50	-3.59		2602	1/23/2017	1/24/2017
1026	OL	40111200	1/24/2017	2017	1	ZI	9200065657	50	-1.57		2602	1/23/2017	1/24/2017
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1026	OL	40111200	1/24/2017	2017	1	ZI	9200065657	50	-9.39		2602	1/23/2017	1/24/2017
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1026	OL	40111200	1/24/2017	2017	1	ZI	9200065657	50	-6.45		2602	1/23/2017	1/24/2017
1026	OL	40111200	1/24/2017	2017	1	ZI	9200065657	50	-2.02		2602	1/23/2017	1/24/2017
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1026	OL	40111200	1/24/2017	2017	1	ZI	9200065657	50	-4.01		2602	1/23/2017	1/24/2017
1026	OL	40111200	1/24/2017	2017	1	ZI	9200065657	50	-16.46		2603	1/23/2017	1/24/2017
1026	OL	40111200	1/24/2017	2017	1	ZI	9200065657	50	-1.52		2602	1/23/2017	1/24/2017
1026	OL	40111200	1/24/2017	2017	1	ZI	9200065657	50	-17.18		2602	1/23/2017	1/24/2017
1026	OL	40111200	1/24/2017	2017	1	ZI	9200065657	50	-1.99		2602	1/23/2017	1/24/2017
1026	OL	40111200	1/24/2017	2017	1	ZI	9200065657	50	-7.39		2602	1/23/2017	1/24/2017
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1026	OL	40111200	1/24/2017	2017	1	ZI	9200065657	50	-1.87		2602	1/23/2017	1/24/2017
1026	OL	40111200	1/24/2017	2017	1	ZI	9200065657	50	-26.89		2602	1/23/2017	1/24/2017
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1026	OL	40111200	1/24/2017	2017	1	ZI	9200065657	50	-1.57		2602	1/23/2017	1/24/2017
1026	OL	40111200	1/5/2017	2017	1	ZI	9200065870	40	10.78		2602	1/5/2017	1/31/2017
1026	OL	40111200	1/25/2017	2017	1	ZI	9200065873	40	1.49		2602	1/25/2017	1/31/2017
1026	OL	40111200	1/30/2017	2017	1	ZI	9200065874	40	0.47		2602	1/30/2017	1/31/2017
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1026	OL	40111200	1/18/2017	2017	1	ZI	9200065890	40	3.57		2602	1/18/2017	1/31/2017
1026	OL	40111200	1/18/2017	2017	1	ZI	9200065890	40	4.79		2602	1/18/2017	1/31/2017
1026	OL	40111200	1/23/2017	2017	1	ZI	9200065892	40	6.13		2602	1/23/2017	1/31/2017
1026	OL	40111200	1/30/2017	2017	1	ZI	9200065894	40	0.33		2602	1/27/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065895	40	1.69		2602	1/31/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065895	40	6.37		2602	1/31/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065895	40	1.66		2602		

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	1/31/2017	2017	1	ZJ	9200065895	40	4.06		2602	1/31/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZJ	9200065895	40	6.30		2602	1/31/2017	1/31/2017
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1026	OL	40111200	1/3/2017	2017	1	ZJ	9200064968	50	-0.62		2602	1/3/2017	1/4/2017
1026	OL	40111200	1/3/2017	2017	1	ZJ	9200064968	50	-1.57		2602	1/3/2017	1/4/2017
1026	OL	40111200	1/3/2017	2017	1	ZJ	9200064968	50	-8.42		2602	1/3/2017	1/4/2017
1026	OL	40111200	1/3/2017	2017	1	ZJ	9200064968	50	-8.58		2602	1/3/2017	1/4/2017
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1026	OL	40111200	1/4/2017	2017	1	ZJ	9200064969	50	-9.30		2602	1/3/2017	1/4/2017
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1026	OL	40111200	1/4/2017	2017	1	ZJ	9200064969	50	-17.87		2602	1/3/2017	1/4/2017
1026	OL	40111200	1/4/2017	2017	1	ZJ	9200064969	50	-4.62		2602	1/3/2017	1/4/2017
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1026	OL	40111200	1/4/2017	2017	1	ZJ	9200064969	50	-6.83		2602	1/3/2017	1/4/2017
1026	OL	40111200	1/4/2017	2017	1	ZJ	9200064969	50	-8.58		2602	1/3/2017	1/4/2017
1026	OL	40111200	1/4/2017	2017	1	ZJ	9200064969	50	-1.57		2602	1/3/2017	1/4/2017
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1026	OL	40111200	1/6/2017	2017	1	ZJ	9200065048	40	3.77		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/6/2017	2017	1	ZJ	9200065048	40	1.57		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/6/2017	2017	1	ZJ	9200065048	40	1.79		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/6/2017	2017	1	ZJ	9200065048	40	10.26		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/6/2017	2017	1	ZJ	9200065048	40	2.43		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/6/2017	2017	1	ZJ	9200065048	40	16.09		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/6/2017	2017	1	ZJ	9200065048	40	31.54		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/13/2017	2017	1	ZJ	9200065250	40	9.94		2602	1/12/2017	1/12/2017
1026	OL	40111200	1/25/2017	2017	1	ZJ	9200065639	40	83.24		2602	1/24/2017	1/24/2017
1026	OL	40111200	1/25/2017	2017	1	ZJ	9200065639	40	52.17		2602	1/24/2017	1/24/2017
1026	OL	40111200	1/25/2017	2017	1	ZJ	9200065639	40	1.02		2602	1/24/2017	1/24/2017
1026	OL	40111200	1/25/2017	2017	1	ZJ	9200065639	40	1.11		2602	1/24/2017	1/24/2017
1026	OL	40111200	1/25/2017	2017	1	ZJ	9200065640	40	2.07		2602	1/25/2017	1/24/2017
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1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065747	40	4.62		2602	1/26/2017	1/26/2017
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1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065747	40	6.39		2602	1/26/2017	1/26/2017
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1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065747	40	5.07		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065747	40	0.05		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065747	40	4.06		2602	1/26/2017	1/26/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065748	40	11.87		2602	1/27/2017	1/26/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065748	40	2.47		2602	1/27/2017	1/26/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065748	40	3.44		2602	1/27/2017	1/26/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065748	40	5.65		2602	1/27/2017	1/26/2017
1026	OL	40111200	1/6/2017	2017	1	ZJ	9200065055	50	-4.06		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/6/2017	2017	1	ZJ	9200065055	50	-6.74		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/6/2017	2017	1	ZJ	9200065055	50	-0.10		2602	1/6/2017	1/6/2017
1026	OL	40111200	1/6/2017	2017	1	ZJ	9200065055	50	-2.61		2605	1/6/2017	1/6/2017
1026	OL	40111200	1/6/2017	2017	1	ZJ	9200065055	50	-2.74		2602	1/6/2017	1/6/2017
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1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065249	40	60.72		2602	1/12/2017	1/12/2017
1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065249	40	12.15		2602	1/12/2017	1/12/2017
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1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065249	40	4.06		2602	1/12/2017	1/12/2017
1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065249	40	6.22		2602	1/12/2017	1/12/2017
1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065249	40	49.89		2602	1/12/2017	1/12/2017
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1026	OL	40111200	1/17/2017	2017	1	ZJ	9200065290	40	1.67		2602	1/17/2017	1/13/2017
1026	OL	40111200	1/17/2017	2017	1	ZJ	9200065290	40	3.23		2602	1/17/2017	1/13/2017
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1026	OL	40111200	1/17/2017	2017	1	ZJ	9200065290	50	-70.26		2602	1/17/2017	1/13/2017
1026	OL	40111200	1/17/2017	2017	1	ZJ	9200065290	40	9.81		2602	1/17/2017	1/13/2017
1026	OL	40111200	1/17/2017	2017	1	ZJ	9200065290	40	5.75		2602	1/17/2017	1/13/2017
1026	OL	40111200	1/17/2017	2017	1	ZJ	9200065290	50	-3,469.68		2602	1/17/2017	1/13/2017

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	1/23/2017	2017	1	ZJ	9200065637	40	1.54	2602		1/23/2017	1/24/2017
1026	OL	40111200	1/24/2017	2017	1	ZJ	9200065638	40	6.75	2602		1/24/2017	1/24/2017
1026	OL	40111200	1/24/2017	2017	1	ZJ	9200065638	40	45.91	2602		1/24/2017	1/24/2017
1026	OL	40111200	1/24/2017	2017	1	ZJ	9200065638	40	9.29	2602		1/24/2017	1/24/2017
1026	OL	40111200	1/24/2017	2017	1	ZJ	9200065638	40	16.22	2602		1/24/2017	1/24/2017
1026	OL	40111200	1/24/2017	2017	1	ZJ	9200065638	40	22.45	2602		1/24/2017	1/24/2017
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1026	OL	40111200	1/24/2017	2017	1	ZJ	9200065638	40	1.60	2602		1/24/2017	1/24/2017
1026	OL	40111200	1/24/2017	2017	1	ZJ	9200065638	40	27.34	2602		1/24/2017	1/24/2017
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1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065428	40	1.66	2602		1/18/2017	1/18/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065428	40	2.98	2602		1/18/2017	1/18/2017
1026	OL	40111200	1/20/2017	2017	1	ZJ	9200065625	40	1.62	2602		1/20/2017	1/24/2017
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1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065253	50	-2.63	2602		1/12/2017	1/12/2017
1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065253	50	-1.62	2602		1/12/2017	1/12/2017
1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065253	50	-1.60	2602		1/12/2017	1/12/2017
1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065253	50	-1.69	2602		1/12/2017	1/12/2017
1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065253	50	-1.63	2602		1/12/2017	1/12/2017
1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065253	50	-5.02	2602		1/12/2017	1/12/2017
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1026	OL	40111200	1/3/2017	2017	1	ZJ	9200064952	40	4.19	2602		1/3/2017	1/4/2017
1026	OL	40111200	1/3/2017	2017	1	ZJ	9200064952	40	4.19	2602		1/3/2017	1/4/2017
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1026	OL	40111200	1/3/2017	2017	1	ZJ	9200064952	40	1.60	2602		1/3/2017	1/4/2017
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1026	OL	40111200	1/13/2017	2017	1	ZI	9200065238	50	-0.57		2602	1/13/2017	1/12/2017
1026	OL	40111200	1/13/2017	2017	1	ZI	9200065238	50	-2.32		2602	1/13/2017	1/12/2017
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1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065432	40	1.63		2602	1/18/2017	1/18/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065432	40	17.30		2602	1/18/2017	1/18/2017
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1026	OL	40111200	1/25/2017	2017	1	ZJ	9200065619	40	1.48		2602	1/25/2017	1/24/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	1/3/2017	2017	1	ZI	9200065641	40	5.97		2602	1/3/2017	1/24/2017
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1026	OL	40111200	1/5/2017	2017	1	ZI	9200064948	50	-1.23		2602	1/5/2017	1/4/2017
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1026	OL	40111200	1/5/2017	2017	1	ZI	9200064948	50	-1.40		2602	1/5/2017	1/4/2017
1026	OL	40111200	1/5/2017	2017	1	ZI	9200064948	40	11.77		2605	1/5/2017	1/4/2017
1026	OL	40111200	1/5/2017	2017	1	ZI	9200064948	50	-2.27		2605	1/5/2017	1/4/2017
1026	OL	40111200	1/5/2017	2017	1	ZI	9200064948	50	-0.84		2602	1/5/2017	1/4/2017
1026	OL	40111200	1/5/2017	2017	1	ZI	9200064948	50	-0.84		2602	1/5/2017	1/4/2017
1026	OL	40111200	1/5/2017	2017	1	ZI	9200064948	50	-6.90		2602	1/5/2017	1/4/2017
1026	OL	40111200	1/5/2017	2017	1	ZI	9200064948	50	-0.58		2602	1/5/2017	1/4/2017
1026	OL	40111200	1/5/2017	2017	1	ZI	9200064948	50	-2,629.33		2605	1/5/2017	1/4/2017
1026	OL	40111200	1/5/2017	2017	1	ZI	9200064948	50	-0.13		2602	1/5/2017	1/4/2017
1026	OL	40111200	1/5/2017	2017	1	ZI	9200064948	40	5.28		2602	1/5/2017	1/4/2017
1026	OL	40111200	1/5/2017	2017	1	ZI	9200064948	50	-2.45		2602	1/5/2017	1/4/2017
1026	OL	40111200	1/5/2017	2017	1	ZI	9200064948	50	-2.55		2602	1/5/2017	1/4/2

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	1/5/2017	2017	1	ZI	9200064948	50	-1.45		2602	1/5/2017	1/4/2017
1026	OL	40111200	1/5/2017	2017	1	ZI	9200064948	50	-1.71		2602	1/5/2017	1/4/2017
1026	OL	40111200	1/5/2017	2017	1	ZI	9200064948	50	-1.57		2602	1/5/2017	1/4/2017
1026	OL	40111200	1/5/2017	2017	1	ZI	9200064948	50	-0.30		2602	1/5/2017	1/4/2017
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1026	OL	40111200	1/5/2017	2017	1	ZI	9200064948	40	0.01		2602	1/5/2017	1/4/2017
1026	OL	40111200	1/5/2017	2017	1	ZI	9200064948	50	-0.06		2602	1/5/2017	1/4/2017
1026	OL	40111200	1/5/2017	2017	1	ZI	9200064948	50	-0.06		2602	1/5/2017	1/4/2017
1026	OL	40111200	1/5/2017	2017	1	ZI	9200064948	50	-3.09		2605	1/5/2017	1/4/2017
1026	OL	40111200	1/12/2017	2017	1	ZI	9200065227	40	0.33		2602	1/12/2017	1/12/2017
1026	OL	40111200	1/2/2017	2017	1	ZI	9200064885	50	-42.39		2602	12/30/2016	12/30/2016
1026	OL	40111200	1/2/2017	2017	1	ZI	9200064885	50	-11.22		2602	12/30/2016	12/30/2016
1026	OL	40111200	1/2/2017	2017	1	ZI	9200064885	50	-21.20		2602	12/30/2016	12/30/2016
1026	OL	40111200	1/2/2017	2017	1	ZI	9200064885	50	-4.95		2602	12/30/2016	12/30/2016
1026	OL	40111200	1/2/2017	2017	1	ZI	9200064885	50	-8.58		2602	12/30/2016	12/30/2016
1026	OL	40111200	1/2/2017	2017	1	ZI	9200064885	50	-12.97		2602	12/30/2016	12/30/2016
1026	OL	40111200	1/2/2017	2017	1	ZI	9200064885	50	-3.86		2602	12/30/2016	12/30/2016
1026	OL	40111200	1/2/2017	2017	1	ZI	9200064885	50	-1.52		2602	12/30/2016	12/30/2016
1026	OL	40111200	1/2/2017	2017	1	ZI	9200064885	50	-14.34		2602	12/30/2016	12/30/2016
1026	OL	40111200	1/2/2017	2017	1	ZI	9200064885	50	-1.61		2602	12/30/2016	12/30/2016
1026	OL	40111200	1/2/2017	2017	1	ZI	9200064885	50	-3.27		2602	12/30/2016	12/30/2016
1026	OL	40111200	1/2/2017	2017	1	ZI	9200064885	50	-18.72		2602	12/30/2016	12/30/2016
1026	OL	40111200	1/2/2017	2017	1	ZI	9200064885	50	-21.76		2602	12/30/2016	12/30/2016
1026	OL	40111200	1/2/2017	2017	1	ZI	9200064885	50	-23.95		2602	12/30/2016	12/30/2016
1026	OL	40111200	1/2/2017	2017	1	ZI	9200064885	50	-1.63		2602	12/30/2016	12/30/2016
1026	OL	40111200	1/2/2017	2017	1	ZI	9200064885	50	-1.63		2602	12/30/2016	12/30/2016
1026	OL	40111200	1/21/2017	2017	1	ZI	9200065552	40	1.66		2602	1/20/2017	1/20/2017
1026	OL	40111200	1/3/2017	2017	1	ZI	9200064947	40	15.81		2602	1/3/2017	1/4/2017
1026	OL	40111200	1/3/2017	2017	1	ZI	9200064947	40	1.49		2602	1/3/2017	1/4/2017
1026	OL	40111200	1/3/2017	2017	1	ZI	9200064947	40	0.19		2602	1/3/2017	1/4/2017
1026	OL	40111200	1/3/2017	2017	1	ZI	9200064947	40	1.05		2602	1/3/2017	1/4/2017
1026	OL	40111200	1/3/2017	2017	1	ZI	9200064947	40	0.76		2602	1/3/2017	1/4/2017
1026	OL	40111200	1/3/2017	2017	1	ZI	9200064947	40	1.60		2602	1/3/2017	1/4/2017
1026	OL	40111200	1/3/2017	2017	1	ZI	9200064947	40	1.69		2602	1/3/2017	1/4/2017
1026	OL	40111200	1/3/2017	2017	1	ZI	9200064947	40	9.90		2602	1/3/2017	1/4/2017
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1026	OL	40111200	1/31/2017	2017	1	ZI	9200065838	50	-43.51		2602	1/31/2017	1/30/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065838	50	-5,304.49		2602	1/31/2017	1/30/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065838	50	-150.05		2602	1/31/2017	1/30/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065838	50	-292.17		2602	1/31/2017	1/30/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065838	40	6.91		2602	1/31/2017	1/30/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065838	40	8.82		2602	1/31/2017	1/30/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065838	50	-3.49		2602	1/31/2017	1/30/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065838	50	-29.56		2602	1/31/2017	1/30/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065838	50	-10.78		2602	1/31/2017	1/30/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065838	40	26.48		2602	1/31/2017	1/30/2017
1026	OL	40111200	1/3/2017	2017	1	ZI	9200064907	40	0.57		2602	1/3/2017	1/3/2017
1026	OL	40111200	1/12/2017	2017	1	ZI	9200065494	40	34.85		2602	1/11/2017	1/19/2017
1026	OL	40111200	1/12/2017	2017	1	ZI	9200065495	40	1.66		2602	1/12/2017	1/19/2017
1026	OL	40111200	1/9/2017	2017	1	ZI	9200065545	40	1.66		2602	1/9/2017	1/20/2017
1026	OL	40111200	1/16/2017	2017	1	ZI	9200065547	40	132.24		2602	1/16/2017	1/20/2017
1026	OL	40111200	1/18/2017	2017	1	ZI	9200065549	40	1.65		2602	1/18/2017	1/20/2017
1026	OL	40111200	1/18/2017	2017	1	ZI	9200065549	40	1.55		2602	1/18/2017	1/20/2017
1026	OL	40111200	1/19/2017	2017	1	ZI	9200065550	40	35.36		2602	1/19/2017	1/20/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065551	40	4.94		2602	1/20/2017	1/20/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065551	40	326.03		2602	1/20/2017	1/20/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065551	40	7.39		2602	1/20/2017	1/20/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065551	40	3.11		2602	1/20/2017	1/20/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065551	40	1.51		2602	1/20/2017	1/20/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065551	40	2.05		2602	1/20/2017	1/20/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065551	40	1.69		2602	1/20/2017	1/20/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065551	40	7.87		2602	1/20/2017	1/20/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065900	50	-1.52		2602	1/31/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065900	50	-1.52		2602	1/31/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065900	50	-0.80		2602	1/31/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065900	50	-2.06		2602	1/31/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065900	50	-6.49		2602	1/31/2017	1/31/2017
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1026	OL	40111200	1/31/2017	2017	1	ZI	9200065900	50	-0.16		2602	1/31/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065900	50	-4.50		2602	1/31/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065900	50	-0.16		2602	1/31/2017	1/31/2017
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1026	OL	40111200	1/31/2017	2017	1	ZI	9200065900	50	-0.16		2602	1/31/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065900	50	-0.16		2602	1/31/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065900	50	-1.21		2602	1/31/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065900	50	-1.64		2602	1/31/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065900	50	-1.57		2602	1/31/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065900	50	-0.84		2602	1/31/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065900	50	-2.00		2602	1/31/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065900	50	-0.53		2602	1/31/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065900	50	-2.00		2602	1/31/2017	1/31/2017
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1026	OL	40111200	1/31/2017	2017	1	ZI	9200065900	50	-1.57		2602	1/31/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZI	9200065900	50	-1.69		2602	1/31/2017	1/31/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	1/31/2017	2017	1	ZJ	9200065900	50	-0.16		2602	1/31/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZJ	9200065900	50	-1.47		2602	1/31/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZJ	9200065900	50	-0.16		2602	1/31/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZJ	9200065900	50	-0.67		2602	1/31/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZJ	9200065900	50	-4.41		2602	1/31/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZJ	9200065900	50	-4.90		2602	1/31/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZJ	9200065900	40	47.05		2602	1/31/2017	1/31/2017
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1026	OL	40111200	1/3/2017	2017	1	ZJ	9200065622	40	1.69		2602	1/3/2017	1/24/2017
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1026	OL	40111200	1/30/2017	2017	1	ZJ	9200065910	50	-130.87		2602	1/30/2017	1/31/2017
1026	OL	40111200	1/30/2017	2017	1	ZJ	9200065910	50	-42.02		2602	1/30/2017	1/31/2017
1026	OL	40111200	1/30/2017	2017	1	ZJ	9200065910	50	-45.06		2602	1/30/2017	1/31/2017
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1026	OL	40111200	1/31/2017	2017	1	ZJ	9200065911	50	-1.45		2602	1/30/2017	1/31/2017
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1026	OL	40111200	1/31/2017	2017	1	ZJ	9200065911	50	-1.52		2602	1/30/2017	1/31/2017
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1026	OL	40111200	1/31/2017	2017	1	ZJ	9200065911	50	-0.82		2602	1/30/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZJ	9200065911	50	-0.27		2602	1/30/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZJ	9200065911	50	-3.72		2602	1/30/2017	1/31/2017
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1026	OL	40111200	1/31/2017	2017	1	ZJ	9200065911	50	-8.01		2602	1/30/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZJ	9200065911	50	-4.54		2602	1/30/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZJ	9200065911	50	-1.56		2602	1/30/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZJ	9200065911	50	-1.12		2602	1/30/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZJ	9200065911	50	-1.69		2602	1/30/2017	1/31/2017
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1026	OL	40111200	1/31/2017	2017	1	ZJ	9200065911	50	-1.57		2602	1/30/2017	1/31/2017
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1026	OL	40111200	1/31/2017	2017	1	ZJ	9200065911	50	-1.57		2602	1/30/2017	1/31/2017
1026	OL	40111200	1/31/2017	2017	1	ZJ	9200065911	50	-0.32		2602	1/30/2017	1/31/2017
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1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065794	40	31.15		2602	1/12/2017	1/27/2017
1026	OL	40111200	1/23/2017	2017	1	ZJ	9200065796	40	1.57		2602	1/23/2017	1/27/2017
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1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065798	40	3.59		2602	1/27/2017	1/27/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065798	40	2.63		2602	1/27/2017	1/27/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065798	40	1.66		2602	1/27/2017	1/27/2017
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1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065798	40	2.17		2602	1/27/2017	1/27/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065798	40	6.26		2602	1/27/2017	1/27/2017
1026	OL	40111200	1/27/2017	2017	1	ZJ	9200065798	40	1.64		2602	1/27/2017	1/27/2017
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1026	OL	40111200	1/10/2017	2017	1	ZJ	9200065152	50	-9.82		2602	1/9/2017	1/10/2017
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1026	OL	40111200	1/10/2017	2017	1	ZJ	9200065152	50	-1.45		2602	1/9/2017	1/10/2017
1026	OL	40111200	1/10/2017	2017	1	ZJ	9200065152	50	-0.05		2602	1/9/2017	1/10/2017
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1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065198	40	3.25		2602	1/11/2017	1/11/2017
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1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065204	40	13.72		2602	1/11/2017	1/11/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065204	40	5.77		2605	1/11/2017	1/11/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065204	40	1.76		2602	1/11/2017	1/11/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065204	40	41.24		2602	1/11/2017	1/11/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065204	40	3.32		2605	1/11/2017	1/11/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065204	40	6.12		2602	1/11/2017	1/11/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065204	40	7.03		2602	1/11/2017	1/11/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065204	40	3.22		2602	1/11/2017	1/11/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065204	40	22.15		2602	1/11/2017	1/11/2017
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1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065204	40	6.92		2602	1/11/2017	1/11/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065204	40	156.46		2602	1/11/2017	1/11/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065204	40	1.59		2602	1/11/2017	1/11/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065204	40	2.63		2602	1/11/2017	1/11/2017
1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065206	40	8.01		2602	1/11/2017	1/11/2017
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1026	OL	40111200	1/11/2017	2017	1	ZJ	9200065206	50	-0.78		2602	1/11/2017	1/11/2017
1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065207	50	-38.49		2602	1/11/2017	1/11/2017
1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065207	50	-1.87		2602	1/11/2017	1/11/2017
1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065207	50	-0.16		2602	1/11/2017	1/11/2017
1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065207	50	-88.24		2602	1/11/2017	1/11/2017
1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065207	50	-1.66		2602	1/11/2017	1/11/2017
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1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065207	50	-27.66		2602	1/11/2017	1/11/2017
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1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065207	50	-1.63		2602	1/11/2017	1/11/2017
1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065207	50	-3.53		2605	1/11/2017	1/11/2017
1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065207	50	-13.45		2602	1/11/2017	1/11/2017
1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065207	50	-2.31		2605	1/11/2017	1/11/2017
1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065207	50	-18.99		2602	1/11/2017	1/11/2017
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1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065207	50	-5.12		2602	1/11/2017	1/11/2017
1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065207	50	-2.25		2605	1/11/2017	1/11/2017
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1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065207	50	-3.74		2602	1/11/2017	1/11/2017
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1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065207	50	-1.77		2602	1/11/2017	1/11/2017
1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065207	50	-14.38		2602	1/11/2017	1/11/2017
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1026	OL	40111200	1/17/2017	2017	1	ZJ	9200065353	40	1.33		2605	1/17/2017	1/17/2017
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1026	OL	40111200	1/17/2017	2017	1	ZJ	9200065371	40	1.63		2602	1/17/2017	1/17/2017
1026	OL	40111200	1/17/2017	2017	1	ZJ	9200065371	40	1.58		2602	1/17/2017	1/17/2017
1026	OL	40111200	1/17/2017	2017	1	ZJ	9200065371	40	2.87		2602	1/17/2017	1/17/2017
1026	OL	40111200	1/17/2017	2017	1	ZJ	9200065371	40	0.36		2602	1/17/2017	1/17/2017
1026	OL	40111200	1/17/2017	2017	1	ZJ	9200065371	40	1.12		2602	1/17/2017	1/17/2017
1026	OL	40111200	1/17/2017	2017	1	ZJ	9200065371	40	1.57		2602	1/17/2017	1/17/2017
1026	OL	40111200	1/17/2017	2017	1	ZJ	9200065371	40	4.62		2602	1/17/2017	1/17/2017
1026	OL	40111200	1/17/2017	2017	1	ZJ	9200065371	40	0.33		2602	1/17/2017	1/17/2017
1026	OL	40111200	1/17/2017	2017	1	ZJ	9200065371	40	0.87		2602	1/17/2017	1/17/2017
1026	OL	40111200	1/17/2017	2017	1	ZJ	9200065371	40	1.66		2602	1/17/2017	1/17/2017
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1026	OL	40111200	1/17/2017	2017	1	ZJ	9200065371	40	79.25		2602	1/17/2017	1/17/2017
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1026	OL	40111200	1/17/2017	2017	1	ZJ	9200065371	40	1.63		2602	1/17/2017	1/17/2017
1026	OL	40111200	1/17/2017	2017	1	ZJ	9200065379	50	-2.07		2602	1/17/2017	1/17/2017
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1026	OL	40111200	1/17/2017	2017	1	ZJ	9200065379	50	-1.69		2602	1/17/2017	1/17/2017
1026	OL	40111200	1/17/2017	2017	1	ZJ	9200065379	50	-0.98		2602	1/17/2017	1/17/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065380	50	-1.62		2602	1/17/2017	1/17/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065380	50	-3.76		2602	1/17/2017	1/17/2017
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1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065380	50	-1.57		2602	1/17/2017	1/17/2017
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1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065380	50	-4.12		2602	1/17/2017	1/17/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065380	50	-1.14		2602	1/17/2017	1/17/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065380	50	-3.15		2602	1/17/2017	1/17/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065380	50	-5.46		2602	1/17/2017	1/17/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065380	50	-3.14		2602	1/17/2017	1/17/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065380	50	-1.57		2602	1/17/2017	1/17/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065380	50	-3.32		2602	1/17/2017	1/17/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065380	50	-2.17		2602	1/17/2017	1/17/2017
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1026	OL	40111200	1/17/2017	2017	1	ZJ	9200065392	40	5.26		2602	1/17/2017	1/17/2017
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1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065393	40	1.66		2602	1/17/2017	1/17/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065393	40	1.64		2602	1/17/2017	1/17/2017
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1026	OL	40111200	1/12/2017	2017	1	ZJ	9200065370	40	5.29		2602	1/12/2017	1/17/2017
1026	OL	40111200	1/13/2017	2017	1	ZJ	9200065383	40	5.89		2605	1/12/2017	1/17/2017
1026	OL	40111200	1/13/2017	2017	1	ZJ	9200065383	40	3.97		2602	1/12/2017	1/17/2017
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1026	OL	40111200	1/6/2017	2017	1	ZJ	9200064998	50	-3.04		2605	1/6/2017	1/5/2017
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1026	OL	40111200	1/6/2017	2017	1	ZJ	9200064998	50	-1.34		2605	1/6/2017	1/5/2017
1026	OL	40111200	1/6/2017	2017	1	ZJ	9200064998	50	-2.43		2605	1/6/2017	1/5/2017
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1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065357	50	-3.11		2602	1/18/2017	1/17/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065357	50	-0.84		2602	1/18/2017	1/17/2017
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1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065357	50	-4.62		2602	1/18/2017	1/17/2017
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1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065357	50	-4.88		2605	1/18/2017	1/17/2017
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1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065357	50	-1.69		2602	1/18/2017	1/17/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065357	50	-1.12		2602	1/18/2017	1/17/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065357	50	-0.16		2602	1/18/2017	1/17/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065357	50	-0.16		2602	1/18/2017	1/17/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065357	50	-5.23		2602	1/18/2017	1/17/2017
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1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065357	50	-2.00		2602	1/18/2017	1/17/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065357	50	-2.98		2602	1/18/2017	1/17/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065357	50	-1.87		2602	1/18/2017	1/17/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065357	50	-3.00		2602	1/18/2017	1/17/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065357	50	-1.66		2602	1/18/2017	1/17/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065357	50	-0.33		2602	1/18/2017	1/17/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065357	50	-0.85		2602	1/18/2017	1/17/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065357	50	-0.16		2602	1/18/2017	1/17/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065357	50	-7.26		2602	1/18/2017	1/17/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065357	50	-0.16		2602	1/18/2017	1/17/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065357	50	-0.86		2602	1/18/2017	1/17/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065358	50	-0.87		2602	1/18/2017	1/17/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065358	50	-0.86		2602	1/18/2017	1/17/2017
1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065358	50	-2.25		2602	1/18/2017	1/17/2017
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1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065358	40	7.12		2602	1/18/2017	1/17/2017
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1026	OL	40111200	1/18/2017	2017	1	ZJ	9200065358	50	-0.02		2602	1/18/2017	1/17/2017
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1026	OL	40111200	1/17/2017	2017	1	ZJ	9200065386	40	2.07		2602	1/16/2017	1/17/2017
1026	OL	40111200	1/16/2017	2017	1	ZJ	9200065396	50	-1.55		2602	1/16/2017	1/17/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	1/20/2017	2017	1	ZI	9200065490	50	-1.83		2602	1/20/2017	1/19/2017
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1026	OL	40111200	1/20/2017	2017	1	ZI	9200065490	50	-1.83		2602	1/20/2017	1/19/2017
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1026	OL	40111200	1/20/2017	2017	1	ZI	9200065490	50	-6,802.80		2602	1/20/2017	1/19/2017
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1026	OL	40111200	1/20/2017	2017	1	ZI	9200065490	50	-659.35		2602	1/20/2017	1/19/2017
1026	OL	40111200	1/20/2017	2017	1	ZI	9200065490	50	-3.76		2602	1/20/2017	1/19/2017
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1026	OL	40111200	1/20/2017	2017	1	ZI	9200065490	50	-3.32		2602	1/20/2017	1/19/2017
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1026	OL	40111200	1/30/2017	2017	1	ZI	9200065781	40	23.33		2602	1/30/2017	1/27/2017
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1026	OL	40111200	1/30/2017	2017	1	ZI	9200065781	50	-5.29		2602	1/30/2017	1/27/2017
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1026	OL	40111200	1/30/2017	2017	1	ZI	9200065781	50	-5,787.30		2602	1/30/2017	1/27/2017
1026	OL	40111200	1/30/2017	2017	1	ZI	9200065781	40	15.15		2602	1/30/2017	1/27/2017
1026	OL	40111200	1/30/2017	2017	1	ZI	9200065781	50	-156.20		2602	1/30/2017	1/27/2017
1026	OL	40111200	1/30/2017	2017	1	ZI	9200065781	50	-6.23		2605	1/30/2017	1/27/2017
1026	OL	40111200	1/30/2017	2017	1	ZI	9200065781	50	-5.74		2602	1/30/2017	1/27/2017
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1026	OL	40111200	1/9/2017	2017	1	ZI	9200065203	40	7.28		2605	1/9/2017	1/11/2017
1026	OL	40111200	1/9/2017	2017	1	ZI	9200065203	40	1.55		2602	1/9/2017	1/11/2017
1026	OL	40111200	1/13/2017	2017	1	ZI	9200065362	40	2.07		2602	1/13/2017	1/17/2017
1026	OL	40111200	1/10/2017	2017	1	ZI	9200065368	40	3.00		2602	1/10/2017	1/17/2017
1026	OL	40111200	1/10/2017	2017	1	ZI	9200065381	40	4.02		2602	1/10/2017	1/17/2017
1026	OL	40111200	1/11/2017	2017	1	ZI	9200065382	40	1.61		2602	1/10/2017	1/17/2017
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1026	OL	40111200	1/10/2017	2017	1	ZI	9200065390	40	2.11		2602	1/10/2017	1/17/2017
1026	OL	40111200	1/26/2017	2017	1	ZI	9200065690	40	35.15		2602	1/26/2017	1/25/2017
1026	OL	40111200	1/26/2017	2017	1	ZI	9200065690	50	-26.22		2602	1/26/2017	1/25/2017
1026	OL	40111200	1/26/2017	2017	1	ZI	9200065690	50	-6,225.76		2602	1/26/2017	1/25/2017
1026	OL	40111200	1/26/2017	2017	1	ZI	9200065690	40	16.70		2602	1/26/2017	1/25/2017
1026	OL	40111200	1/26/2017	2017	1	ZI	9200065690	50	-0.06		2602	1/26/2017	1/25/2017
1026	OL	40111200	1/26/2017	2017	1	ZI	9200065690	50	-1.21		2602	1/26/2017	1/25/2017
1026	OL	40111200	1/26/2017	2017	1	ZI	9200065690	40	7.00		2602	1/26/2017	1/25/2017
1026	OL	40111200	1/26/2017	2017	1	ZI	9200065690	40	7.67		2602	1/26/2017	1/25/2017
1026	OL	40111200	1/26/2017	2017	1	ZI	9200065690	50	-67.98		2602	1/26/2017	1/25/2017
1026	OL	40111200	1/26/2017	2017	1	ZI	9200065690	50	-1.56		2602	1/26/2017	1/25/2017
1026	OL	40111200	1/26/2017	2017	1	ZI	9200065690	40	0.01		2602	1/26/2017	1/25/2017
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1026	OL	40111200	1/10/2017	2017	1	ZI	9200065094	40	13.40		2602	1/10/2017	1/9/2017
1026	OL	40111200	1/10/2017	2017	1	ZI	9200065094	50	-29.19		2602	1/10/2017	1/9/2017
1026	OL	40111200	1/10/2017	2017	1	ZI	9200065094	50	-1.45		2602	1/10/2017	1/9/2017
1026	OL	40111200	1/10/2017	2017	1	ZI	9200065094	50	-1.05		2602	1/10/2017	1/9/2017
1026	OL	40111200	1/10/2017	2017	1	ZI	9200065094	50	-1.68		2602	1/10/2017	1/9/2017
1026	OL	40111200	1/10/2017	2017	1	ZI	9200065094	50	-30.04		2605	1/10/2017	1/9/2017
1026	OL	40111200	1/10/2017	2017	1	ZI	9200065094	40	12.64		2602	1/10/2017	1/9/2017
1026	OL	40111200	1/10/2017	2017	1	ZI	9200065094	50	-1.03		2602	1/10/2017	1/9/2017
1026	OL	40111200	1/10/2017	2017	1	ZI	9200065094	50	-16.45		2605	1/10/2017	1/9/2017
1026	OL	40111200	1/10/2017	2017	1	ZI	9200065094	40	0.53		2602	1/10/2017	1/9/2017
1026	OL	40111200	1/10/2017	2017	1	ZI	9200065094	50	-129.27		2605	1/10/2017	1/9/2017
1026	OL	40111200	1/10/2017	2017	1	ZI	9200065094	50	-1.51		2602	1/10/2017	1/9/2017
1026	OL	40111200	1/10/2017	2017	1	ZI	9200065094	50	-16.25		2602	1/10/2017	1/9/2017
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1026	OL	40111200	1/10/2017	2017	1	ZI	9200065094	50	-3.14		2602	1/10/2017	1/9/2017
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1026	OL	40111200	1/10/2017	2017	1	ZI	9200065094	50	-8,311.48		2602	1/10/2017	1/9/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066176	40	4.03		2602	2/8/2017	2/8/2017
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1026	OL	40111200	2/23/2017	2017	2	ZJ	9200066698	40	1.69		2602	2/23/2017	2/23/2017
1026	OL	40111200	2/23/2017	2017	2	ZJ	9200066698	40	1.62		2602	2/23/2017	2/23/2017
1026	OL	40111200	2/9/2017	2017	2	ZJ	9200066177	40	2.43		2602	2/8/2017	2/8/2017
1026	OL	40111200	2/9/2017	2017	2	ZJ	9200066225	40	1.52		2602	2/9/2017	2/9/2017
1026	OL	40111200	2/9/2017	2017	2	ZJ	9200066225	40	1.61		2602	2/9/2017	2/9/2017
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1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066697	40	0.29		2602	2/15/2017	2/23/2017
1026	OL	40111200	2/9/2017	2017	2	ZJ	9200066234	40	1.67		2602	2/9/2017	2/9/2017
1026	OL	40111200	2/9/2017	2017	2	ZJ	9200066234	40	6.92		2602	2/9/2017	2/9/2017
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1026	OL	40111200	2/9/2017	2017	2	ZJ	9200066234	40	4.22		2603	2/9/2017	2/9/2017
1026	OL	40111200	2/9/2017	2017	2	ZJ	9200066234	40	1.60		2602	2/9/2017	2/9/2017
1026	OL	40111200	2/9/2017	2017	2	ZJ	9200066234	40	1.62		2602	2/9/2017	2/9/2017
1026	OL	40111200	2/9/2017	2017	2	ZJ	9200066234	40	2.00		2602	2/9/2017	2/9/2017
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1026	OL	40111200	2/14/2017	2017	2	ZJ	9200066319	40	10.57		2602	2/14/2017	2/13/2017
1026	OL	40111200	2/14/2017	2017	2	ZJ	9200066319	50	-1.21		2602	2/14/2017	2/13/2017
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1026	OL	40111200	2/14/2017	2017	2	ZJ	9200066319	50	-38.79		2602	2/14/2017	2/13/2017
1026	OL	40111200	2/14/2017	2017	2	ZJ	9200066319	50	-12,033.45		2602	2/14/2017	2/13/2017
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1026	OL	40111200	2/14/2017	2017	2	ZJ	9200066319	50	-23.10		2602	2/14/2017	2/13/2017
1026	OL	40111200	2/14/2017	2017	2	ZJ	9200066319	50	-4.62		2602	2/14/2017	2/13/2017
1026	OL	40111200	2/14/2017	2017	2	ZJ	9200066319	50	-4.62		2602	2/14/2017	2/13/2017
1026	OL	40111200	2/17/2017	2017	2	ZJ	9200066491	50	-2.00		2602	2/17/2017	2/16/2017
1026	OL	40111200	2/17/2017	2017	2	ZJ	9200066491	50	-1.55		2602	2/17/2017	2/16/2017
1026	OL	40111200	2/27/2017	2017	2	ZJ	9200066859	40	7.49		2602	2/27/2017	2/28/2017
1026	OL	40111200	2/27/2017	2017	2	ZJ	9200066859	40	1.51		2602	2/27/2017	2/28/2017
1026	OL	40111200	2/27/2017	2017	2	ZJ	9200066859	40	6.88		2602	2/27/2017	2/28/2017
1026	OL	40111200	2/27/2017	2017	2	ZJ	9200066859	40	1.63		2602	2/27/2017	2/28/2017
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1026	OL	40111200	2/27/2017	2017	2	ZJ	9200066859	40	8.24		2602	2/27/2017	2/28/2017
1026	OL	40111200	2/27/2017	2017	2	ZJ	9200066859	40	2.04		2602	2/27/2017	2/28/2017
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1026	OL	40111200	2/6/2017	2017	2	ZJ	9200066228	40	1.47		2602	2/6/2017	2/9/2017
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1026	OL	40111200	2/9/2017	2017	2	ZJ	9200066229	40	1.69		2602	2/9/2017	2/9/2017
1026	OL	40111200	2/9/2017	2017	2	ZJ	9200066229	40	10.95		2602	2/9/2017	2/9/2017
1026	OL	40111200	2/9/2017	2017	2	ZJ	9200066229	40	2.14		2602	2/9/2017	2/9/2017
1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066135	40	2.55		2602	2/8/2017	2/7/2017
1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066135	40	0.48		2602	2/8/2017	2/7/2017
1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066135	40	2.87		2602	2/8/2017	2/7/2017
1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066135	40	0.48		2602	2/8/2017	2/7/2017
1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066135	40	0.48		2602	2/8/2017	2/7/2017
1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066135	40	3.18		2602	2/8/2017	2/7/2017
1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066135	40	19.30		2602	2/8/2017	2/7/2017
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1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066135	40	0.48		2602	2/8/2017	2/7/2017
1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066135	40	2.87		2602	2/8/2017	2/7/2017
1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066135	40	2.31		2602	2/8/2017	2/7/2017
1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066135	40	2.31		2602	2/8/2017	2/7/2017
1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066135	40	0.43		2602	2/8/2017	2/7/2017
1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066135	40	2.79		2602	2/8/2017	2/7/2017
1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066135	40	3.44		2602	2/8/2017	2/7/2017
1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066135	40	1.52		2602	2/8/2017	2/7/2017
1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066135	40	1.60		2602	2/8/2017	2/7/2017
1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066135	40	2.95		2602	2/8/2017	2/7/2017
1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066135	40	0.43		2602	2/8/2017	2/7/2017
1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066135	40	3.32		2602	2/8/2017	2/7/2017
1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066135	40	0.43		2602	2/8/2017	2/7/2017
1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066135	40	0.48		2602	2/8/2017	2/7/2017
1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066135	40	2.62		2602	2/8/2017	2/7/2017
1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066135	40	0.43		2602	2/8/2017	2/7/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066135	40	4.19	2602		2/8/2017	2/7/2017
1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066135	40	2.07	2602		2/8/2017	2/7/2017
1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066135	40	0.35	2602		2/8/2017	2/7/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066416	40	1.60	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066416	40	2.58	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066416	40	1.48	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066416	40	3.11	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066416	40	0.33	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	1.10	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	1.52	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	1.52	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	1.15	2602		2/15/2017	2/15/2017
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1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.76	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.81	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.17	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.17	2602		2/15/2017	2/15/2017
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1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.17	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.16	2602		2/15/2017	2/15/2017
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1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.16	2602		2/15/2017	2/15/2017
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1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.16	2602		2/15/2017	2/15/2017
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1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.16	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.16	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.16	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.16	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.16	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.16	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.16	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.16	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.16	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.16	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.16	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.16	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.16	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.16	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.16	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.16	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.16	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.16	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.16	2602		2/15/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066419	40	0.16	2602		2/15/2017	2/15/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	2/9/2017	2017	2	ZI	9200066170	50	-3.23		2602	2/9/2017	2/8/2017
1026	OL	40111200	2/9/2017	2017	2	ZI	9200066170	50	-1.49		2602	2/9/2017	2/8/2017
1026	OL	40111200	2/9/2017	2017	2	ZI	9200066170	40	6.22		2602	2/9/2017	2/8/2017
1026	OL	40111200	2/9/2017	2017	2	ZI	9200066170	50	-3,066.76		2602	2/9/2017	2/8/2017
1026	OL	40111200	2/9/2017	2017	2	ZI	9200066170	40	1.71		2602	2/9/2017	2/8/2017
1026	OL	40111200	2/9/2017	2017	2	ZI	9200066170	50	-3.50		2602	2/9/2017	2/8/2017
1026	OL	40111200	2/9/2017	2017	2	ZI	9200066170	50	-155.52		2602	2/9/2017	2/8/2017
1026	OL	40111200	2/9/2017	2017	2	ZI	9200066170	40	20.38		2602	2/9/2017	2/8/2017
1026	OL	40111200	2/9/2017	2017	2	ZI	9200066170	50	-29.07		2602	2/9/2017	2/8/2017
1026	OL	40111200	2/9/2017	2017	2	ZI	9200066170	50	-10.72		2605	2/9/2017	2/8/2017
1026	OL	40111200	2/9/2017	2017	2	ZI	9200066170	40	5.72		2602	2/9/2017	2/8/2017
1026	OL	40111200	2/9/2017	2017	2	ZI	9200066170	50	-0.08		2605	2/9/2017	2/8/2017
1026	OL	40111200	2/9/2017	2017	2	ZI	9200066170	40	2.14		2602	2/9/2017	2/8/2017
1026	OL	40111200	2/9/2017	2017	2	ZI	9200066170	50	-1.66		2602	2/9/2017	2/8/2017
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1026	OL	40111200	2/9/2017	2017	2	ZI	9200066170	40	2.48		2602	2/9/2017	2/8/2017
1026	OL	40111200	2/9/2017	2017	2	ZI	9200066170	50	-1.61		2602	2/9/2017	2/8/2017
1026	OL	40111200	2/9/2017	2017	2	ZI	9200066170	50	-7,560.34		2602	2/9/2017	2/8/2017
1026	OL	40111200	2/9/2017	2017	2	ZI	9200066170	50	-1.61		2602	2/9/2017	2/8/2017
1026	OL	40111200	2/2/2017	2017	2	ZI	9200066873	40	3.50		2602	2/2/2017	2/28/2017
1026	OL	40111200	2/3/2017	2017	2	ZI	9200066874	40	5.22		2602	2/3/2017	2/28/2017
1026	OL	40111200	2/6/2017	2017	2	ZI	9200066875	40	11.22		2602	2/6/2017	2/28/2017
1026	OL	40111200	2/7/2017	2017	2	ZI	9200066141	50	-0.47		2602	2/7/2017	2/7/2017
1026	OL	40111200	2/7/2017	2017	2	ZI	9200066141	50	-0.82		2602	2/7/2017	2/7/2017
1026	OL	40111200	2/7/2017	2017	2	ZI	9200066141	50	-1.60		2602	2/7/2017	2/7/2017
1026	OL	40111200	2/7/2017	2017	2	ZI	9200066141	50	-3.32		2602	2/7/2017	2/7/2017
1026	OL	40111200	2/7/2017	2017	2	ZI	9200066141	50	-1.52		2602	2/7/2017	2/7/2017
1026	OL	40111200	2/7/2017	2017	2	ZI	9200066141	50	-1.59		2602	2/7/2017	2/7/2017
1026	OL	40111200	2/7/2017	2017	2	ZI	9200066141	50	-1.52		2602	2/7/2017	2/7/2017
1026	OL	40111200	2/7/2017	2017	2	ZI	9200066141	50	-4.14		2602	2/7/2017	2/7/2017
1026	OL	40111200	2/1/2017	2017	2	ZI	9200065998	40	2.45		2602	2/1/2017	2/2/2017
1026	OL	40111200	2/2/2017	2017	2	ZI	9200065999	40	1.87		2602	2/2/2017	2/2/2017
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1026	OL	40111200	2/2/2017	2017	2	ZI	9200065999	40	13.81		2602	2/2/2017	2/2/2017
1026	OL	40111200	2/2/2017	2017	2	ZI	9200065999	40	8.12		2602	2/2/2017	2/2/2017
1026	OL	40111200	2/2/2017	2017	2	ZI	9200065999	40	1.60		2602	2/2/2017	2/2/2017
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1026	OL	40111200	2/2/2017	2017	2	ZI	9200065999	40	3.11		2602	2/2/2017	2/2/2017
1026	OL	40111200	2/2/2017	2017	2	ZI	9200065999	40	31.49		2602	2/2/2017	2/2/2017
1026	OL	40111200	2/2/2017	2017	2	ZI	9200065999	40	6.43		2602	2/2/2017	2/2/2017
1026	OL	40111200	2/2/2017	2017	2	ZI	9200065999	40	9.30		2602	2/2/2017	2/2/2017
1026	OL	40111200	2/2/2017	2017	2	ZI	9200065999	40	2.17		2602	2/2/2017	2/2/2017
1026	OL	40111200	2/2/2017	2017	2	ZI	9200065999	40	2.63		2602	2/2/2017	2/2/2017
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1026	OL	40111200	2/2/2017	2017	2	ZI	9200065999	40	69.68		2602	2/2/2017	2/2/2017
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1026	OL	40111200	2/2/2017	2017	2	ZI	9200065999	40	12.62		2602	2/2/2017	2/2/2017
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1026	OL	40111200	2/23/2017	2017	2	ZI	9200066707	50	-1.96		2602	2/23/2017	2/23/2017
1026	OL	40111200	2/23/2017	2017	2	ZI	9200066707	50	-127.48		2602	2/23/2017	2/23/2017
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1026	OL	40111200	2/24/2017	2017	2	ZI	9200066708	50	-5.06		2605	2/23/2017	2/23/2017
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1026	OL	40111200	2/24/2017	2017	2	ZI	9200066708	50	-4.74		2605	2/23/2017	2/23/2017
1026	OL	40111200	2/24/2017	2017	2	ZI	9200066708	50	-1.27		2602	2/23/2017	2/23/2017
1026	OL	40111200	2/24/2017	2017	2	ZI	9200066708	50	-1.57		2602	2/23/2017	2/23/2017
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1026	OL	40111200	2/24/2017	2017	2	ZI	9200066708	50	-0.45		2602	2/23/2017	2/23/2017
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1026	OL	40111200	2/16/2017	2017	2	ZJ	9200066489	50	-2.65		2602	2/16/2017	2/16/2017
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1026	OL	40111200	2/17/2017	2017	2	ZI	9200066478	50	-2.69		2602	2/17/2017	2/16/2017
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1026	OL	40111200	2/8/2017	2017	2	ZI	9200066113	50	-0.43		2602	2/8/2017	2/7/2017
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1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066142	50	-0.82	2602		2/7/2017	2/7/2017
1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066142	50	-2.15	2602		2/7/2017	2/7/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066142	50	-1.55	2602		2/7/2017	2/7/2017
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1026	OL	40111200	2/10/2017	2017	2	ZJ	9200066224	50	-71.53	2605		2/10/2017	2/9/2017
1026	OL	40111200	2/10/2017	2017	2	ZJ	9200066224	50	-4.33	2603		2/10/2017	2/9/2017
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1026	OL	40111200	2/10/2017	2017	2	ZJ	9200066224	40	4.11	2602		2/10/2017	2/9/2017
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1026	OL	40111200	2/10/2017	2017	2	ZJ	9200066224	40	51.56	2602		2/10/2017	2/9/2017
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1026	OL	40111200	2/10/2017	2017	2	ZJ	9200066224	50	-301.97	2602		2/10/2017	2/9/2017
1026	OL	40111200	2/10/2017	2017	2	ZJ	9200066224	40	25.88	2602		2/10/2017	2/9/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	2/24/2017	2017	2	ZJ	9200066703	40	11.94		2602	2/23/2017	2/23/2017
1026	OL	40111200	2/24/2017	2017	2	ZJ	9200066703	40	11.90		2602	2/23/2017	2/23/2017
1026	OL	40111200	2/24/2017	2017	2	ZJ	9200066703	40	3.14		2602	2/23/2017	2/23/2017
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1026	OL	40111200	2/24/2017	2017	2	ZJ	9200066703	40	11.78		2602	2/23/2017	2/23/2017
1026	OL	40111200	2/1/2017	2017	2	ZJ	9200066843	40	1.47		2602	2/1/2017	2/28/2017
1026	OL	40111200	2/2/2017	2017	2	ZJ	9200066844	40	1.64		2602	2/2/2017	2/28/2017
1026	OL	40111200	2/6/2017	2017	2	ZJ	9200066845	40	1.57		2602	2/6/2017	2/28/2017
1026	OL	40111200	2/7/2017	2017	2	ZJ	9200066846	40	0.05		2602	2/7/2017	2/28/2017
1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066847	40	0.19		2602	2/8/2017	2/28/2017
1026	OL	40111200	2/14/2017	2017	2	ZJ	9200066848	40	1.52		2602	2/14/2017	2/28/2017
1026	OL	40111200	2/23/2017	2017	2	ZJ	9200066849	40	1.50		2602	2/23/2017	2/28/2017
1026	OL	40111200	2/13/2017	2017	2	ZJ	9200066475	40	1.50		2602	2/13/2017	2/16/2017
1026	OL	40111200	2/16/2017	2017	2	ZJ	9200066476	40	0.38		2602	2/16/2017	2/16/2017
1026	OL	40111200	2/13/2017	2017	2	ZJ	9200066276	40	1.47		2602	2/10/2017	2/10/2017
1026	OL	40111200	2/13/2017	2017	2	ZJ	9200066277	40	3.46		2605	2/13/2017	2/10/2017
1026	OL	40111200	2/13/2017	2017	2	ZJ	9200066277	40	6.45		2602	2/13/2017	2/10/2017
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1026	OL	40111200	2/13/2017	2017	2	ZJ	9200066277	40	4.07		2605	2/13/2017	2/10/2017
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1026	OL	40111200	2/16/2017	2017	2	ZJ	9200066424	50	-1.50		2602	2/16/2017	2/15/2017
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1026	OL	40111200	2/21/2017	2017	2	ZJ	9200066527	50	-20.46		2602	2/21/2017	2/17/2017
1026	OL	40111200	2/21/2017	2017	2	ZJ	9200066527	50	-488.03		2602	2/21/2017	2/17/2017
1026	OL	40111200	2/8/2017	2017	2	ZJ	9200066256	40	0.23		2602	2/8/2017	2/10/2017
1026	OL	40111200	2/3/2017	2017	2	ZJ	9200066037	40	8.13		2602	2/3/2017	2/3/2017
1026	OL	40111200	2/3/2017	2017	2	ZJ	9200066037	40	1.50		2602	2/3/2017	2/3/2017
1026	OL	40111200	2/3/2017	2017	2	ZJ	9200066037	40	1.50		2602	2/3/2017	2/3/2017
1026	OL	40111200	2/3/2017	2017	2	ZJ	9200066037	40	10.45		2602	2/3/2017	2/3/2017
1026	OL	40111200	2/3/2017	2017	2	ZJ	9200066037	40	1.63		2602	2/3/2017	2/3/2017
1026	OL	40111200	2/3/2017	2017									

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	2/1/2017	2017	2	ZJ	9200065901	50	-1.56		2602	1/31/2017	1/31/2017
1026	OL	40111200	2/1/2017	2017	2	ZJ	9200065901	50	-3.25		2602	1/31/2017	1/31/2017
1026	OL	40111200	2/1/2017	2017	2	ZJ	9200065901	50	-7.67		2602	1/31/2017	1/31/2017
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1026	OL	40111200	2/1/2017	2017	2	ZJ	9200065901	50	-8.17		2602	1/31/2017	1/31/2017
1026	OL	40111200	2/1/2017	2017	2	ZJ	9200065901	50	-1.55		2602	1/31/2017	1/31/2017
1026	OL	40111200	2/1/2017	2017	2	ZJ	9200065901	50	-6.16		2602	1/31/2017	1/31/2017
1026	OL	40111200	2/1/2017	2017	2	ZJ	9200065901	50	-3.26		2602	1/31/2017	1/31/2017
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1026	OL	40111200	2/1/2017	2017	2	ZJ	9200065901	50	-1.51		2602	1/31/2017	1/31/2017
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1026	OL	40111200	2/1/2017	2017	2	ZJ	9200065901	50	-1.62		2602	1/31/2017	1/31/2017
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1026	OL	40111200	2/10/2017	2017	2	ZJ	9200066426	40	2.87		2602	2/10/2017	2/15/2017
1026	OL	40111200	2/1/2017	2017	2	ZJ	9200065953	40	1.53		2602	2/1/2017	2/1/2017
1026	OL	40111200	2/1/2017	2017	2	ZJ	9200065953	40	1.52		2602	2/1/2017	2/1/2017
1026	OL	40111200	2/24/2017	2017	2	ZJ	9200066850	40	1.52		2602	2/24/2017	2/28/2017
1026	OL	40111200	2/28/2017	2017	2	ZJ	9200066851	40	3.15		2602	2/28/2017	2/28/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066373	50	-1.50		2602	2/14/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066373	50	-2.53		2602	2/14/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066373	50	-1.62		2602	2/14/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066373	50	-2.12		2605	2/14/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066373	50	-2.12		2605	2/14/2017	2/15/2017
1026	OL	40111200	2/15/2017	2017	2	ZJ	9200066373	50	-5.74		2602	2/14/2017	2/15/2017
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1026	OL	40111200	2/14/2017	2017	2	ZJ	9200066379	40	1.56		2602	2/14/2017	2/15/2017
1026	OL	40111200	2/14/2017	2017	2	ZJ	9200066379	40	10.34		2602	2/14/2017	2/15/2017
1026	OL	40111200	2/14/2017	2017	2	ZJ	9200066379	40	2.28		2605	2/14/2017	2/15/2017
1026	OL	40111200	2/14/2017	2017	2	ZJ	9200066379	40	2.12		2605	2/14/2017	2/15/2017
1026	OL	40111200	2/14/2017	2017	2	ZJ	9200066379	40	4.19		2602	2/14/2017	2/15/2017
1026	OL	40111200	2/14/2017	2017	2	ZJ	9200066379	40	9.56		2602	2/14/2017	2/15/2017
1026	OL	40111200	2/14/2017	2017	2	ZJ	9200066379	40	2.31		2605	2/14/2017	2/15/2017
1026	OL	40111200	2/14/2017	2017	2	ZJ	9200066379	40	2.26		2605	2/14/2017	2/15/2017
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1026	OL	40111200	2/14/2017	2017	2	ZJ	9200066379	40	2.12		2605	2/14/2017	2/15/2017
1026	OL	40111200	2/14/2017	2017	2	ZJ	9200066379	40	8.56		2602	2/14/2017	2/15/2017
1026	OL	40111200	2/14/2017	2017	2	ZJ	9200066379	40	1.47		2602	2/14/2017	2/15/2017
1026	OL	40111200	2/14/2017	2017	2	ZJ	920006649	40	1.45		2602	2/14/2017	2/22/2017
1026	OL	40111200	2/22/2017	2017	2	ZJ	9200066592	50	-6,422.23		2602	2/22/2017	2/21/2017
1026	OL	40111200	2/22/2017	2017	2	ZJ	9200066592	50	-0.17		2602	2/22/2017	2/21/2017
1026	OL	40111200	2/22/2017	2017	2	ZJ	9200066592	50	-9.95		2602	2/22/2017	2/21/2017
1026	OL	40111200	2/22/2017	2017	2	ZJ	9200066592	50	-0.17		2602	2/22/2017	2/21/2017
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1026	OL	40111200	2/22/2017	2017	2	ZJ	9200066592	50	-1.56		2602	2/22/2017	2/21/2017
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1026	OL	40111200	2/22/2017	2017	2	ZJ	9200066592	50	-2.63		2602	2/22/2017	2/21/2017
1026	OL	40111200	2/22/2017	2017	2	ZJ	9200066592	50	-0.98		2602	2/22/2017	2/21/2017
1026	OL	40111200	2/22/2017	2017	2	ZJ	9200066592	50	-0.90		2602	2/22/2017	2/21/2017
1026	OL	40111200	2/22/2017	2017	2	ZJ	9200066592	50	-2.16		2602	2/22/2017	2/21/2017
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1026	OL	40111200	2/22/2017	2017	2	ZJ	9200066592	50	-0.01		2602	2/22/2017	2/21/2017
1026	OL	40111200	2/22/2017	2017	2	ZJ	9200066592	50	-1.63		2602	2/22/2017	2/21/2017
1026	OL	40111200	2/22/2017	2017	2	ZJ	9200066592	50	-0.08		2602	2/22/2017	2/21/2017
1026	OL	40111200	2/22/2017	2017	2	ZJ	9200066592	50	-1.73		2602	2/22/2017	2/21/2017
1026	OL	40111200	2/22/2017	2017	2	ZJ	9200066592	50	-11.65		2602	2/22/2017	2/21/2017
1026	OL	40111200	2/22/2017	2017	2	ZJ	9200066592	50	-1.57		2602	2/22/2017	2/21/2017
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1026	OL	40111200	2/22/2017	2017	2	ZJ	9200066592	50	-1.57		2602	2/22/2017	2/21/2017
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1026	OL	40111200	2/22/2017	2017	2	ZJ	9200066593	50	-0.86		2602	2/22/2017	2/21/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	2/22/2017	2017	2	ZJ	9200066593	50	-0.20		2602	2/22/2017	2/21/2017
1026	OL	40111200	2/22/2017	2017	2	ZJ	9200066593	50	-0.43		2602	2/22/2017	2/21/2017
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1026	OL	40111200	2/22/2017	2017	2	ZJ	9200066593	50	-1.57		2602	2/22/2017	2/21/2017
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1026	OL	40111200	2/22/2017	2017	2	ZJ	9200066661	40	2.63		2602	2/22/2017	2/22/2017
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1026	OL	40111200	2/27/2017	2017	2	ZJ	9200066763	50	-1.69		2602	2/24/2017	2/24/2017
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1026	OL	40111200	2/21/2017	2017	2	ZJ	9200066599	40	3.55		2602	2/21/2017	2/21/2017
1026	OL	40111200	2/21/2017	2017	2	ZJ	9200066599	40	1.47		2602	2/21/2017	2/21/2017
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1026	OL	40111200	2/21/2017	2017	2	ZJ	9200066599	40	1.16		2602	2/21/2017	2/21/2017
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1026	OL	40111200	2/21/2017	2017	2	ZJ	9200066608	50	-1.57		2602	2/21/2017	2/21/2017
1026	OL	40111200	2/21/2017	2017	2	ZJ	9200066608	40	13.95		2602	2/21/2017	2/21/2017
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1026	OL	40111200	2/21/2017	2017	2	ZJ	9200066608	50	-1.04		2602	2/21/2017	2/21/2017
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1026	OL	40111200	2/22/2017	2017	2	ZJ	9200066609	50	-1.52		2602	2/21/2017	2/21/2017
1026	OL	40111200	2/23/2017	2017	2	ZJ	9200066610	50	-12.63		2602	2/21/2017	2/21/2017
1026	OL	40111200	2/23/2017	2017	2	ZJ	9200066610	50	-9.21		2602	2/21/2017	2/21/2017
1026	OL	40111200	2/23/2017	2017	2	ZJ	9200066610	50	-9.30		2602	2/21/2017	2/21/2017
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1026	OL	40111200	2/1/2017	2017	2	ZJ	9200065954	40	32.83		2602	2/1/2017	2/1/2017
1026	OL	40111200	2/1/2017	2017	2	ZJ	9200065954	40	7.39		2602	2/1/2017	2/1/2017
1026	OL	40111200	2/1/2017	2017	2	ZJ	9200065954	40	3.46		2602	2/1/2017	2/1/2017
1026	OL	40111200	2/1/2017	2017	2	ZJ	9200065954	40	1.57		2602	2/1/2017	2/1/2017
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1026	OL	40111200	2/2/2017	2017	2	ZJ	9200065955	40	0.06		2602	2/1/2017	2/1/2017
1026	OL	40111200	2/2/2017	2017	2	ZJ	9200065955	40	1.89		2602	2/1/2017	2/1/2017
1026	OL	40111200	2/1/2017	2017	2	ZJ	9200065956	50	-1.60		2602	2/1/2017	2/1/2017
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1026	OL	40111200	2/2/2017	2017	2	ZJ	9200065957	50	-7.39		2602	2/1/2017	2/1/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	2/6/2017	2017	2	ZI	9200066035	50	-3.32		2602	2/6/2017	2/3/2017
1026	OL	40111200	2/6/2017	2017	2	ZI	9200066035	50	-1.63		2602	2/6/2017	2/3/2017
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1026	OL	40111200	2/6/2017	2017	2	ZI	9200066035	50	-1.57		2602	2/6/2017	2/3/2017
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1026	OL	40111200	2/16/2017	2017	2	ZJ	9200066459	40	5.02		2602	2/16/2017	2/16/2017
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1026	OL	40111200	2/16/2017	2017	2	ZJ	9200066459	40	4.01		2602	2/16/2017	2/16/2017
1026	OL	40111200	2/16/2017	2017	2	ZJ	9200066459	40	3.76		2602	2/16/2017	2/16/2017
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1026	OL	40111200	2/17/2017	2017	2	ZJ	9200066536	40	5.52		2602	2/17/2017	2/17/2017
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1026	OL	40111200	2/20/2017	2017	2	ZJ	9200066540	50	-1.06		2605	2/17/2017	2/17/2017
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1026	OL	40111200	2/10/2017	2017	2	ZJ	9200066269	40	0.85		2602	2/10/2017	2/10/2017
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1026	OL	40111200	2/10/2017	2017	2	ZJ	9200066281	50	-1.52		2602	2/10/2017	2/10/2017
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1026	OL	40111200	2/13/2017	2017	2	ZJ	9200066283	50	-5.12		2605	2/10/2017	2/10/2017
1026	OL	40111200	2/13/2017	2017	2	ZJ	9200066283	50	-11.18		2602	2/10/2017	2/10/2017
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1026	OL	40111200	2/13/2017	2017	2	ZJ	9200066283	50	-1.63		2605	2/10/2017	2/10/2017
1026	OL	40111200	2/13/2017	2017	2	ZJ	9200066283	50	-1.67		2602	2/10/2017	2/10/2017
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1026	OL	40111200	2/13/2017	2017	2	ZJ	9200066283	50	-1.52		2602	2/10/2017	2/10/2017
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1026	OL	40111200	2/23/2017	2017	2	ZJ	9200066647	50	-5.53		2603	2/23/2017	2/22/2017
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1026	OL	40111200	2/28/2017	2017	2	ZJ	9200066796	50	-1.52		2602	2/28/2017	2/27/2017
1026	OL	40111200	2/28/2017	2017	2	ZJ	9200066796	50	-0.17		2602	2/28/2017	2/27/2017
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1026	OL	40111200	2/28/2017	2017	2	ZJ	9200066796	50	-0.66		2602	2/28/2017	2/27/2017
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1026	OL	40111200	2/28/2017	2017	2	ZJ	9200066796	50	-1.57		2602	2/28/2017	2/27/2017
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1026	OL	40111200	2/28/2017	2017	2	ZJ	9200066796	50	-0.83		2602	2/28/2017	2/27/2017
1026	OL	40111200	2/28/2017	2017	2	ZJ	9200066796	50	-0.16		2602	2/28/2017	2/27/2017
1026	OL	40111200	2/28/2017	2017	2	ZJ	9200066797	50	-3.58		2602	2/28/2017	2/27/2017
1026	OL	40111200	2/28/2017	2017	2	ZJ	9200066797	50	-4.62		2602	2/28/2017	2/27/2017
1026	OL	40111200	2/28/2017	2017	2	ZJ	9200066797	50	-2.43		2602	2/28/2017	2/27/2017
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1026	OL	40111200	2/28/2017	2017	2	ZJ	9200066797	50	-2.07		2602	2/28/2017	2/27/2017
1026	OL	40111200	2/28/2017	2017	2	ZJ	9200066797	40	4.58		2602	2/28/2017	2/27/2017
1026	OL	40111200	2/28/2017	2017	2	ZJ	9200066797	50	-2.87		2602	2/28/2017	2/27/2017
1026	OL	40111200	2/28/2017	2017	2	ZJ	9200066797	50	-3.32		2602	2/28/2017	2/27/2017
1026	OL	40111200	2/28/2017	2017	2	ZJ	9200066797	50	-0.86		2602	2/28/2017	2/27/2017
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1026	OL	40111200	2/28/2017	2017	2	ZJ	9200066797	50	-1.83		2602	2/28/2017	2/27/2017
1026	OL	40111200	2/28/2017	2017	2	ZJ	9200066797	50	-3.57		2602	2/28/2017	2/27/2017
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1026	OL	40111200	2/27/2017	2017	2	ZJ	9200066735	40	9.07		2602	2/27/2017	2/24/2017
1026	OL	40111200	2/27/2017	2017	2	ZJ	9200066735	40	3.57		2602	2/27/2017	2/24/2017
1026	OL	40111200	2/27/2017	2017	2	ZJ	9200066735	40	8.83		2602	2/27/2017	2/24/2017
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1026	OL	40111200	2/9/2017	2017	2	ZJ	9200066595	40	1.52		2602	2/9/2017	2/21/2017
1026	OL	40111200	2/9/2017	2017	2	ZJ	9200066648	40	1.57		2602	2/9/2017	2/22/2017
1026	OL	40111200	2/9/2017	2017	2	ZJ	9200066376	40	2.12		2605	2/8/2017	2/15/2017
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1026	OL	40111200	3/2/2017	2017	3	ZJ	9200066976	40	1.57		2602	3/2/2017	3/2/2017
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1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066870	50	-2.07		2602	2/28/2017	2/28/2017
1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066870	50	-10.26		2602	2/28/2017	2/28/2017
1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066870	50	-3.32		2602	2/28/2017	2/28/2017
1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066870	50	-3.41		2602	2/28/2017	2/28/2017
1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066870	50	-1.58		2602	2/28/2017	2/28/2017
1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066870	50	-1.58		2602	2/28/2017	2/28/2017
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1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066870	50	-2.07		2602	2/28/2017	2/28/2017
1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066870	50	-0.26		2602	2/28/2017	2/28/2017
1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066870	50	-2.87		2602	2/28/2017	2/28/2017
1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066870	50	-0.35		2602	2/28/2017	2/28/2017
1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066870	50	-5.83		2602	2/28/2017	2/28/2017
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1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066870	50	-7.88		2602	2/28/2017	2/28/2017
1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066870	50	-8.91		2602	2/28/2017	2/28/2017
1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066870	50	-11.94		2602	2/28/2017	2/28/2017
1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066870	50	-0.30		2602	2/28/2017	2/28/2017
1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066870	50	-3.50		2602	2/28/2017	2/28/2017
1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066870	50	-1.69		2602	2/28/2017	2/28/2017
1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067150	50	-4.43		2602	3/6/2017	3/7/2017
1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067150	50	-2.55		2602	3/6/2017	3/7/2017
1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067150	50	-2.63		2602	3/6/2017	3/7/2017
1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067150	50	-5.50		2602	3/6/2017	3/7/2017
1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067150	50	-4.62		2602	3/6/2017	3/7/2017
1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067150	50	-2.56		2602	3/6/2017	3/7/2017
1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067150	50	-5.95		2602	3/6/2017	3/7/2017
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1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067150	50	-3.12		2602	3/6/2017	3/7/2017
1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067150	50	-4.59		2602	3/6/2017	3/7/2017
1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067150	50	-3.00		2602	3/6/2017	3/7/2017
1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067150	50	-3.76		2602	3/6/2017	3/7/2017
1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067150	50	-3.76		2602	3/6/2017	3/7/2017
1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067150	50	-5.51		2602	3	

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1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067150	50	-4.42	2602		3/6/2017	3/7/2017
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1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067150	50	-0.53	2602		3/6/2017	3/7/2017
1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067150	50	-1.24	2602		3/6/2017	3/7/2017
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1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067150	50	-0.48	2602		3/6/2017	3/7/2017
1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067150	50	-0.48	2602		3/6/2017	3/7/2017
1026	OL	40111200	3/7/2017	2017	3	ZJ	9200067151	50	-1.45	2602		3/6/2017	3/7/2017
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1026	OL	40111200	3/7/2017	2017	3	ZJ	9200067151	50	-1.66	2602		3/6/2017	3/7/2017
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1026	OL	40111200	3/7/2017	2017	3	ZJ	9200067151	50	-1.57	2602		3/6/2017	3/7/2017
1026	OL	40111200	3/7/2017	2017	3	ZJ	9200067151	50	-1.65	2602		3/6/2017	3/7/2017
1026	OL	40111200	3/2/2017	2017	3	ZJ	9200066992	40	23.07	2602		3/1/2017	3/2/2017
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1026	OL	40111200	3/2/2017	2017	3	ZJ	9200066993	40	1.45	2602		3/2/2017	3/2/2017
1026	OL	40111200	3/2/2017	2017	3	ZJ	9200066993	40	1.45	2602		3/2/2017	3/2/2017
1026	OL	40111200	3/2/2017	2017	3	ZJ	9200066993	40	1.53	2602		3/2/2017	3/2/2017
1026	OL	40111200	3/2/2017	2017	3	ZJ	9200066993	40	2.06	2602		3/2/2017	3/2/2017
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1026	OL	40111200	3/2/2017	2017	3	ZJ	9200066993	40	1.57	2602		3/2/2017	3/2/2017
1026	OL	40111200	3/2/2017	2017	3	ZJ	9200066993	40	6.83	2602		3/2/2017	3/2/2017
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1026	OL	40111200	3/2/2017	2017	3	ZJ	9200067145	40	2.21	2602		3/2/2017	3/7/2017
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1026	OL	40111200	3/2/2017	2017	3	ZJ	9200066971	40	1.57	2602		3/2/2017	3/2/2017
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1026	OL	40111200	3/8/2017	2017	3	ZJ	9200067144	50	-2.87	2602		3/7/2017	3/7/2017
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1026	OL	40111200	3/7/2017	2017	3	ZJ	9200067143	50	-4.54	2602		3/7/2017	3/7/2017
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1026	OL	40111200	3/15/2017	2017	3	ZJ	9200067421	40	8.22	2602		3/15/2017	3/15/2017
1026	OL	40111200	3/15/2017	2017	3	ZJ	9200067421	40	2.17	2602		3/15/2017	3/15/2017
1026	OL	40111200	3/15/2017	2017	3	ZJ	9200067421	40	1.57	2602		3/15/2017	3/15/2017
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1026	OL	40111200	3/15/2017	2017	3	ZJ	9200067421	40	1.45	2602		3/15/2017	3/15/2017
1026	OL	40111200	3/15/2017	2017	3	ZJ	9200067421	40	4.54	2602		3/15/2017	3/15/2017
1026	OL	40111200	3/15/2017	2017	3	ZJ	9200067421	40	1.45	2602		3/15/2017	3/15/2017
1026	OL	40111200	3/15/2017	2017	3	ZJ	9200067421	40	1.50	2602		3/15/2017	3/15/2017
1026	OL	40111200	3/15/2017	2017	3	ZJ	9200067421	40	1.48	2602		3/15/2017	3/15/2017
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1026	OL	40111200	3/3/2017	2017	3	ZJ	9200067041	40	30.70	2602		3/3/2017	3/3/2017
1026	OL	40111200	3/3/2017	2017	3	ZJ	9200067041	40	5.51	2602		3/3/2017	3/3/2017
1026	OL	40111200	3/3/2017	2017	3	ZJ	9200067041	40	5.95	2602		3/3/2017	3/3/2017
1026	OL	40111200	3/3/2017	2017	3	ZJ	9200067041	40	1.50	2602		3/3/2017	3/3/2017
1026	OL	40111200	3/3/2017	2017	3	ZJ	9200067041	40	1.57	2602		3/3/2017	3/3/2017
1026	OL	40111200	3/3/2017	2017	3	ZJ	9200067041	40	1.07	2602		3/3/2017	3/3/2017
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1026	OL	40111200	3/3/2017	2017	3	ZJ	9200067041	40	5.85	2602		3/3/2017	3/3/2017
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1026	OL	40111200	3/3/2017	2017	3	ZJ	9200067041	40	1.60	2602		3/3/2017	3/3/2017
1026	OL	40111200	3/3/2017	2017	3	ZJ	9200067041	40	7.39	2602		3/3/2017	3/3/2017
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1026	OL	40111200	3/3/2017	2017	3	ZJ	9200067041	40	5.95	2602		3/3/2017	3/3/2017

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066869	50	-2.14	2602		2/28/2017	2/28/2017
1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066869	50	-5.76	2602		2/28/2017	2/28/2017
1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066869	50	-3.96	2602		2/28/2017	2/28/2017
1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066869	50	-10.97	2602		2/28/2017	2/28/2017
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1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066869	50	-2.43	2602		2/28/2017	2/28/2017
1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066869	50	-0.62	2602		2/28/2017	2/28/2017
1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066869	50	-1.57	2602		2/28/2017	2/28/2017
1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066869	50	-4.87	2602		2/28/2017	2/28/2017
1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066869	50	-1.63	2602		2/28/2017	2/28/2017
1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066869	50	-3.76	2602		2/28/2017	2/28/2017
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1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066869	50	-6.29	2602		2/28/2017	2/28/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066836	50	-31.09		2602	3/1/2017	2/28/2017
1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066836	50	-4.06		2602	3/1/2017	2/28/2017
1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066836	50	-1.57		2602	3/1/2017	2/28/2017
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1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066836	50	-1.55		2602	3/1/2017	2/28/2017
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1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066836	40	10.10		2602	3/1/2017	2/28/2017
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1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066836	50	-51.39		2602	3/1/2017	2/28/2017
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1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066836	50	-2.62		2605	3/1/2017	2/28/2017
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1026	OL	40111200	3/1/2017	2017	3	ZJ	9200066836	50	-4.35		2602	3/1/2017	2/28/2017
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1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067137	40	0.38		2602	3/6/2017	3/7/2017
1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067137	40	1.16		2602	3/6/2017	3/7/2017
1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067137	40	28.11		2602	3/6/2017	3/7/2017
1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067038	50	-1.50		2602	3/6/2017	3/3/2017
1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067038	40	6.56		2602	3/6/2017	3/3/2017
1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067038	50	-0.58		2602	3/6/2017	3/3/2017
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1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067038	50	-3.63		2602	3/6/2017	3/3/2017
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1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067038	50	-5.95		2602	3/6/2017	3/3/2017
1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067038	50	-0.67		2602	3/6/2017	3/3/2017
1026	OL	40111200	3/6/2017	2017	3	ZJ	9200067038	40	9.32		2602	3/6/2017	3/3/2017
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1026	OL	40111200	3/10/2017	2017	3	ZJ	9200067241	50	-15.54		2605	3/9/2017	3/9/2017
1026	OL	40111200	3/10/2017	2017	3	ZJ	9200067241	50	-1.18		2602	3/9/2017	3/9/2017
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1026	OL	40111200	3/29/2017	2017	3	ZJ	9200067819	40	2.87		2602	3/28/2017	3/28/2017
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1026	OL	40111200	3/10/2017	2017	3	ZJ	9200067273	40	1.57	2602		3/10/2017	3/10/2017
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1026	OL	40111200	3/31/2017	2017	3	ZI	9200067994	40	2.87		2602	3/31/2017	3/31/2017
1026	OL	40111200	3/31/2017	2017	3	ZI	9200067994	40	2.44		2602	3/31/2017	3/31/2017
1026	OL	40111200	3/31/2017	2017	3	ZI	9200067994	40	4.06		2602	3/31/2017	3/31/2017
1026	OL	40111200	3/31/2017	2017	3	ZI	9200067994	40	1.57		2602	3/31/2017	3/31/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	3/24/2017	2017	3	ZJ	9200067668	50	-0.19		2602	3/24/2017	3/23/2017
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1026	OL	40111200	3/24/2017	2017	3	ZJ	9200067668	50	-11.03		2602	3/24/2017	3/23/2017
1026	OL	40111200	3/24/2017	2017	3	ZJ	9200067668	50	-13.52		2602	3/24/2017	3/23/2017
1026	OL	40111200	3/24/2017	2017	3	ZJ	9200067668	40	9.78		2602	3/24/2017	3/23/2017
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1026	OL	40111200	3/30/2017	2017	3	ZJ	9200067942	40	1.49		2602	3/30/2017	3/30/2017
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1026	OL	40111200	3/30/2017	2017	3	ZJ	9200067942	40	1.60		2602	3/30/2017	3/30/2017
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1026	OL	40111200	3/30/2017	2017	3	ZJ	9200067942	40	1.49		2602	3/30/2017	3/30/2017
1026	OL	40111200	3/31/2017	2017	3	ZJ	9200067943	40	1.45		2602	3/30/2017	3/30/2017
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1026	OL	40111200	3/30/2017	2017	3	ZJ	9200067946	50	-2.62		2602	3/30/2017	3/30/2017
1026	OL	40111200	3/30/2017	2017	3	ZJ	9200067946	50	-1.52		2602	3/30/2017	3/30/2017
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1026	OL	40111200	3/31/2017	2017	3	ZJ	9200067947	50	-1.62		2602	3/30/2017	3/30/2017
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1026	OL	40111200	3/31/2017	2017	3	ZJ	9200067947	50	-1.45		2602	3/30/2017	3/30/2017
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1026	OL	40111200	3/31/2017	2017	3	ZJ	9200067947	50	-2.87		2602	3/30/2017	3/30/2017
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1026	OL	40111200	3/31/2017	2017	3	ZJ	9200067947	50	-2.17		2602	3/30/2017	3/30/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	3/3/2017	2017	3	ZJ	9200067005	50	-15.28	2602		3/2/2017	3/3/2017
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1026	OL	40111200	3/15/2017	2017	3	ZJ	9200067424	50	-0.82	2602		3/15/2017	3/15/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	3/9/2017	2017	3	ZI	9200067186	40	11.14		2602	3/9/2017	3/8/2017
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1026	OL	40111200	3/9/2017	2017	3	ZI	9200067186	50	-2.07		2602	3/9/2017	3/8/2017
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1026	OL	40111200	3/3/2017	2017	3	ZI	9200067988	40	1.45		2602	3/3/2017	3/31/2017
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1026	OL	40111200	4/7/2017	2017	4	ZJ	9200068191	50	-3.20		2602	4/6/2017	4/6/2017
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1026	OL	40111200	4/7/2017	2017	4	ZJ	9200068191	50	-1.47		2602	4/6/2017	4/6/2017
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1026	OL	40111200	4/7/2017	2017	4	ZJ	9200068191	50	-2.43		2605	4/6/2017	4/6/2017
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1026	OL	40111200	4/25/2017	2017	4	ZJ	9200068786	40	4.93		2602	4/25/2017	4/25/2017
1026	OL	40111200	4/25/2017	2017	4	ZJ	9200068786	40	3.04		2602	4/25/2017	4/25/2017
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1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068304	50	-44.64		2602	4/12/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068304	50	-417.78		2602	4/12/2017	4/11/2017
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1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068304	50	-1.55		2602	4/12/2017	4/11/2017
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1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068379	40	6.96		2602	4/12/2017	4/12/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068379	40	43.37		2602	4/12/2017	4/12/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068379	40	3.45		2602	4/12/2017	4/12/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068385	50	-3.32		2602	4/12/2017	4/12/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068385	50	-1.60		2602	4/12/2017	4/12/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068385	50	-1.80		2602	4/12/2017	4/12/2017
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1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068386	50	-2.62		2602	4/12/2017	4/12/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068386	50	-3.34		2602	4/12/2017	4/12/2017
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1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068386	50	-1.47		2602	4/12/2017	4/12/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068386	50	-4.25		2602	4/12/2017	4/12/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068386	50	-3.20		2602	4/12/2017	4/12/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068386	50	-4.21		2602	4/12/2017	4/12/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068386	50	-1.65		2602	4/12/2017	4/12/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068386	50	-3.57		2602	4/12/2017	4/12/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068386	50	-6.11		2602	4/12/2017	4/12/2017
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1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068386	50	-1.54		2602	4/12/2017	4/12/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068386	50	-3.32		2602	4/12/2017	4/12/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068386	50	-1.57		2602	4/12/2017	4/12/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068386	50	-1.57		2602	4/12/2017	4/12/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068386	50	-7.96		2602	4/12/2017	4/12/2017
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1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068386	50	-1.57		2602	4/12/2017	4/12/2017
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1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068386	50	-30.82		2602	4/12/2017	4/12/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068386	50	-0.51		2602	4/12/2017	4/12/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068386	50	-1.52		2602	4/12/2017	4/12/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068386	50	-2.43		2602	4/12/2017	4/12/2017
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1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068551	40	2.02		2602	4/12/2017	4/18/2017
1026	OL	40111200	4/4/2017	2017	4	ZJ	9200068034	40	4.53		2605	4/4/2017	4/3/2017
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1026	OL	40111200	4/4/2017	2017	4	ZJ	9200068061	40	1.50		2602	4/4/2017	4/4/2017
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1026	OL	40111200	4/4/2017	2017	4	ZJ	9200068086	40	1.52		2602	4/4/2017	4/4/2017
1026	OL	40111200	4/4/2017	2017	4	ZJ	9200068086	40	1.45		2602	4/4/2017	4/4/2017
1026	OL	40111200	4/4/2017	2017	4	ZJ	9200068086	40	53.28		2602	4/4/2017	4/4/2017
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1026	OL	40111200	4/5/2017	2017	4	ZJ	9200068087	40	3.97		2602	4/4/2017	4/4/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	4/20/2017	2017	4	ZJ	9200068662	40	3.24	2602		4/20/2017	4/20/2017
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1026	OL	40111200	4/20/2017	2017	4	ZJ	9200068662	40	22.16	2602		4/20/2017	4/20/2017
1026	OL	40111200	4/20/2017	2017	4	ZJ	9200068662	40	1.47	2602		4/20/2017	4/20/2017
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1026	OL	40111200	4/21/2017	2017	4	ZJ	9200068668	50	-4.84	2602		4/20/2017	4/20/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068317	40	7.48	2602		4/11/2017	4/11/2017
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1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068317	40	3.29	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068317	40	7.87	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068317	40	6.92	2602		4/11/2017	4/11/2017
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1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068317	40	8.58	2602		4/11/2017	4/11/2017
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1026	OL	40111200	4/11/2017	2017	4	ZJ	9200068323	50	-2.77	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/11/2017	2017	4	ZJ	9200068323	50	-4.32	2602		4/11/2017	4/11/2017
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1026	OL	40111200	4/11/2017	2017	4	ZJ	9200068323	50	-1.02	2602		4/11/2017	4/11/2017
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1026	OL	40111200	4/11/2017	2017	4	ZJ	9200068323	50	-0.87	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/11/2017	2017	4	ZJ	9200068323	50	-7.85	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/11/2017	2017	4	ZJ	9200068323	50	-0.08	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/11/2017	2017	4	ZJ	9200068323	50	-4.03	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/11/2017	2017	4	ZJ	9200068323	50	-0.35	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/11/2017	2017	4	ZJ	9200068323	50	-1.10	2602		4/11/2017	4/11/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068324	50	-2.98	2605		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068324	50	-0.93	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068324	50	-9.93	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068324	50	-3.07	2605		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068324	50	-1.10	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068324	50	-1.45	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068324	50	-2.40	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068324	50	-5.77	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068324	50	-3.96	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068324	50	-2.00	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068324	50	-1.45	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068324	50	-4.87	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068324	50	-0.69	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-13.84	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-0.30	2602		4/11/2017	4/11/2017
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1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-27.86	2602		4/11/2017	4/11/2017
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1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-0.30	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-0.17	2602		4/11/2017	4/11/2017
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1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-3.12	2602		4/11/2017	4/11/2017
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1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-0.06	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-4.47	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-4.62	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-0.06	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-1.17	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-0.41	2602		4/11/2017	4/11/2017
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1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-0.20	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-17.16	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-0.20	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-4.15	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-3.11	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-0.26	2602		4/11/2017	4/11/2017
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1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-4.65	2602		4/11/2017	4/11/2017
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1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-51.83	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-0.35	2602		4/11/2017	4/11/2017
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1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-8.59	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-2.11	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-2.90	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-127.85	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-2.54	2602		4/11/2017	4/11/2017
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1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-2.43	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-14.96	2602		4/11/2017	4/11/2017
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1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-6.23	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068325	50	-1.60	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068326	50	-3.32	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068326	50	-2.07	2602		4/11/2017	4/11/2017
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1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068326	50	-1.34	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068326	50	-0.86	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068326	50	-5.07	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068326	50	-5.50	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068326	50	-4.19	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068326	50	-2.31	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068326	50	-2.37	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068326	50	-2.58	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068326	50	-5.02	2602		4/11/2017	4/11/2017
1026	OL	40111200	4/12/2017	2017	4	ZJ	9200068326	50	-2.00	2602		4/11/2017	4/11/2017
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1026	OL	40111200	4/11/2017	2017	4	ZJ	9200068815	40	6.13	2602		4/11/2017	4/26/2017
1026	OL	40111200	4/11/2017	2017	4	ZJ	9200068815	40	10.84	2602		4/11/2017	4/26/2017
1026	OL	40111200	4/11/2017	2017	4	ZJ	9200068849	40	2.11	2602		4/11/2017	4/27/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	4/5/2017	2017	4	ZJ	9200068068	50	-0.46		2605	4/5/2017	4/4/2017
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1026	OL	40111200	4/5/2017	2017	4	ZJ	9200068136	40	0.53		2602	4/5/2017	4/5/2017
1026	OL	40111200	4/5/2017	2017	4	ZJ	9200068139	40	1.57		2602	4/5/2017	4/5/2017
1026	OL	40111200	4/5/2017	2017	4	ZJ	9200068139	40	21.78		2602	4/5/2017	4/5/2017
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1026	OL	40111200	4/5/2017	2017	4	ZJ	9200068139	40	1.45		2602	4/5/2017	4/5/2017
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1026	OL	40111200	4/5/2017	2017	4	ZJ	9200068139	40	1.45		2602	4/5/2017	4/5/2017
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1026	OL	40111200	4/5/2017	2017	4	ZJ	9200068139	40	2.90		2602	4/5/2017	4/5/2017
1026	OL	40111200	4/5/2017	2017	4	ZJ	9200068139	40	1.73		2602	4/5/2017	4/5/2017
1026	OL	40111200	4/5/2017	2017	4	ZJ	9200068139	40	1.57		2602	4/5/2017	4/5/2017
1026	OL	40111200	4/5/2017	2017	4	ZJ	9200068139	40	1.69		2602	4/5/2017	4/5/2017
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1026	OL	40111200	4/5/2017	2017	4	ZJ	9200068139	40	1.57		2602	4/5/2017	4/5/2017
1026	OL	40111200	4/5/2017	2017	4	ZJ	9200068139	40	1.49		2602	4/5/2017	4/5/2017
1026	OL	40111200	4/5/2017	2017	4	ZJ	9200068139	40	2.80		2602	4/5/2017	4/5/2017
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1026	OL	40111200	4/5/2017	2017	4	ZJ	9200068139	40	1.07		2602	4/5/2017	4/5/2017
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1026	OL	40111200	4/6/2017	2017	4	ZJ	9200068142	50	-1.63		2602	4/5/2017	4/5/2017
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1026	OL	40111200	4/6/2017	2017	4	ZJ	9200068142	50	-1.10		2602	4/5/2017	4/5/2017
1026	OL	40111200	4/6/2017	2017	4	ZJ	9200068142	50	-1.34		2602	4/5/2017	4/5/2017
1026	OL	40111200	4/6/2017	2017	4	ZJ	9200068142	50	-6.58		2605	4/5/2017	4/5/2017
1026	OL	40111200	4/6/2017	2017	4	ZJ	9200068142	50	-1.45		2602	4/5/2017	4/5/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068371	40	6.89	2602		4/13/2017	4/12/2017
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1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068416	40	1.66	2602		4/13/2017	4/13/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068416	40	1.52	2602		4/13/2017	4/13/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068416	40	1.12	2602		4/13/2017	4/13/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068416	40	0.89	2602		4/13/2017	4/13/2017
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1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068416	40	1.52	2602		4/13/2017	4/13/2017
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1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068416	40	1.23	2602		4/13/2017	4/13/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068416	40	1.74	2602		4/13/2017	4/13/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068416	40	1.52	2602		4/13/2017	4/13/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068421	40	6.83	2602		4/13/2017	4/13/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068421	40	3.45	2602		4/13/2017	4/13/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068421	40	48.69	2602		4/13/2017	4/13/2017
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1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068421	40	2.99	2602		4/13/2017	4/13/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068421	40	3.28	2602		4/13/2017	4/13/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068421	40	1.57	2602		4/13/2017	4/13/2017
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1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068421	40	1.86	2602		4/13/2017	4/13/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068421	40	5.07	2602		4/13/2017	4/13/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068421	40	1.52	2602		4/13/2017	4/13/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068421	40	1.89	2602		4/13/2017	4/13/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068421	40	1.53	2602		4/13/2017	4/13/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068421	40	2.93	2602		4/13/2017	4/13/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068421	40	1.49	2602		4/13/2017	4/13/2017
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1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068421	40	0.20	2602		4/13/2017	4/13/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068421	40	6.58	2602		4/13/2017	4/13/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068421	40	1.45	2602		4/13/2017	4/13/2017
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1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068428	50	-4.19	2602		4/13/2017	4/13/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068428	50	-4.19	2602		4/13/2017	4/13/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068428	50	-3.14	2602		4/13/2017	4/13/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068428	50	-4.35	2602		4/13/2017	4/13/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068428	50	-1.10	2602		4/13/2017	4/13/2017
1026	OL	40111200	4/13/2017	2017	4	ZJ	9200068428	50	-12.97	2602		4/13/2017	4/13/2017
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1026	OL	40111200	4/14/2017	2017	4	ZJ	9200068429	50	-0.45	2602		4/13/2017	4/13/2017
1026	OL	40111200	4/14/2017	2017	4	ZJ	9200068429	50	-2.03	2602		4/13/2017	4/13/2017
1026	OL	40111200	4/14/2017	2017	4	ZJ	9200068429	50	-3.07	2602		4/13/2017	4/13/2017
1026	OL	40111200	4/14/2017	2017	4	ZJ	9200068429	50	-2.98	2602		4/13/2017	4/13/2017
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1026	OL	40111200	4/14/2017	2017	4	ZJ	9200068429	50	-2.45	2602		4/13/2017	4/13/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	4/3/2017	2017	4	ZJ	9200067999	50	-17.65		2602	3/31/2017	3/31/2017
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1026	OL	40111200	4/3/2017	2017	4	ZJ	9200067999	50	-3.88		2602	3/31/2017	3/31/2017
1026	OL	40111200	4/3/2017	2017	4	ZJ	9200067999	50	-2.58		2602	3/31/2017	3/31/2017
1026	OL	40111200	4/3/2017	2017	4	ZJ	9200067999	50	-1.66		2602	3/31/2017	3/31/2017
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1026	OL	40111200	4/27/2017	2017	4	ZJ	9200068858	40	0.06		2602	4/26/2017	4/27/2017
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1026	OL	40111200	4/27/2017	2017	4	ZJ	9200068866	50	-0.53		2602	4/26/2017	4/27/2017
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1026	OL	40111200	4/27/2017	2017	4	ZJ	9200068866	50	-1.75		2602	4/26/2017	4/27/2017
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1026	OL	40111200	4/26/2017	2017	4	ZJ	9200068910	40	2.27		2602	4/26/2017	4/27/2017
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1026	OL	40111200	4/14/2017	2017	4	ZJ	9200068410	50	-1.57		2602	4/14/2017	4/13/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	4/21/2017	2017	4	ZI	9200068645	50	-1,308.45		2603	4/21/2017	4/20/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	4/27/2017	2017	4	ZJ	9200068887	40	58.76	2602		4/27/2017	4/27/2017
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1026	OL	40111200	4/27/2017	2017	4	ZJ	9200068888	40	498.20	2602		4/27/2017	4/27/2017
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1026	OL	40111200	4/27/2017	2017	4	ZJ	9200068892	40	10.06	2602		4/27/2017	4/27/2017
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1026	OL	40111200	4/27/2017	2017	4	ZJ	9200068892	40	3.39	2602		4/27/2017	4/27/2017
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1026	OL	40111200	4/27/2017	2017	4	ZJ	9200068892	40	9.71	2602		4/27/2017	4/27/2017
1026	OL	40111200	4/27/2017	2017	4	ZJ	9200068892	40	1.45	2602		4/27/2017	4/27/2017
1026	OL	40111200	4/27/2017	2017	4	ZJ	9200068892	40	1.13	2602		4/27/2017	4/27/2017
1026	OL	40111200	4/27/2017	2017	4	ZJ	9200068892	40	1.47	2602		4/27/2017	4/27/2017
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1026	OL	40111200	4/27/2017	2017	4	ZJ	9200068892	40	1.52	2602		4/27/2017	4/27/2017
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1026	OL	40111200	4/27/2017	2017	4	ZJ	9200068892	40	3.81	2602		4/27/2017	4/27/2017
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1026	OL	40111200	4/27/2017	2017	4	ZJ	9200068892	40	4.23	2602		4/27/2017	4/27/2017
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1026	OL	40111200	4/27/2017	2017	4	ZJ	9200068911	40	1.47	2602		4/27/2017	4/27/2017
1026	OL	40111200	4/27/2017	2017	4	ZJ	9200068911	40	1.47	2602		4/27/2017	4/27/2017
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1026	OL	40111200	4/27/2017	2017	4	ZJ	9200068911	40	1.53	2602		4/27/2017	4/27/2017
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1026	OL												

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1026	OL	40111200	4/28/2017	2017	4	ZJ	9200068916	50	-5.95		2602	4/27/2017	4/27/2017
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1026	OL	40111200	4/10/2017	2017	4	ZJ	9200068320	40	10.57		2602	4/10/2017	4/11/2017
1026	OL	40111200	4/10/2017	2017	4	ZJ	9200068320	40	12.17		2602	4/10/2017	4/11/2017
1026	OL	40111200	4/10/2017	2017	4	ZJ	9200068320	40	5.59		2602	4/10/2017	4/11/2017
1026	OL	40111200	4/10/2017	2017	4	ZJ	9200068320	40	4.19		2602	4/10/2017	4/11/2017
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1026	OL	40111200	5/18/2017	2017	5	ZJ	9200069617	40	28.72		2602	5/18/2017	5/17/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	5/18/2017	2017	5	ZI	9200069820	40	1.95		2602	5/18/2017	5/23/2017
1026	OL	40111200	5/11/2017	2017	5	ZI	9200070117	40	2.06		2602	5/10/2017	5/31/2017
1026	OL	40111200	5/30/2017	2017	5	ZI	9200070119	40	2.06		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZI	9200070120	40	1.95		2602	5/31/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZI	9200070120	40	19.42		2602	5/31/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZI	9200070120	40	8.96		2602	5/31/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZI	9200070120	40	9.59		2602	5/31/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZI	9200070120	40	5.37		2602	5/31/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZI	9200070120	40	1.53		2602	5/31/2017	5/31/2017
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1026	OL	40111200	5/31/2017	2017	5	ZI	9200070120	40	1.57		2602	5/31/2017	5/31/2017
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1026	OL	40111200	5/17/2017	2017	5	ZI	9200069600	40	1.57		2602	5/17/2017	5/17/2017
1026	OL	40111200	5/17/2017	2017	5	ZI	9200069600	40	2.61		2602	5/17/2017	5/17/2017
1026	OL	40111200	5/17/2017	2017	5	ZI	9200069600	40	2.43		2602	5/17/2017	5/17/2017
1026	OL	40111200	5/17/2017	2017	5	ZI	9200069600	40	14.99		2602	5/17/2017	5/17/2017
1026	OL	40111200	5/3/2017	2017	5	ZI	9200069053	50	-3,579.76		2605	5/3/2017	5/2/2017
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1026	OL	40111200	5/3/2017	2017	5	ZI	9200069053	50	-82.02		2605	5/3/2017	5/2/2017
1026	OL	40111200	5/3/2017	2017	5	ZI	9200069053	50	-1,648.66		2602	5/3/2017	5/2/2017
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1026	OL	40111200	5/3/2017	2017	5	ZI	9200069053	50	-43.25		2602	5/3/2017	5/2/2017
1026	OL	40111200	5/3/2017	2017	5	ZI	9200069053	40	1.61		2605	5/3/2017	5/2/2017
1026	OL	40111200	5/3/2017	2017	5	ZI	9200069053	40	25.50		2602	5/3/2017	5/2/2017
1026	OL	40111200	5/3/2017	2017	5	ZI	9200069053	50	-540.54		2602	5/3/2017	5/2/2017
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1026	OL	40111200	5/3/2017	2017	5	ZI	9200069053	40	3.27		2602	5/3/2017	5/2/2017
1026	OL	40111200	5/31/2017	2017	5	ZI	9200070066	50	-2.02		2602	5/31/2017	5/30/2017
1026	OL	40111200	5/31/2017	2017	5	ZI	9200070066	40	0.02		2602	5/31/2017	5/30/2017
1026	OL	40111200	5/31/2017	2017	5	ZI	9200070066	50	-0.06		2602	5/31/2017	5/30/2017
1026	OL	40111200	5/31/2017	2017	5	ZI	9200070066	50	-16.72		2602	5/31/2017	5/30/2017
1026	OL	40111200	5/31/2017	2017	5	ZI	9200070066	50	-4.64		2602	5/31/2017	5/30/2017
1026	OL	40111200	5/31/2017	2017	5	ZI	9200070066	50	-2.02		2602	5/31/2017	5/30/2017
1026	OL	40111200	5/31/2017	2017	5	ZI	9200070066	50	-12.83		2605	5/31/2017	5/30/2017
1026	OL	40111200	5/31/2017	2017	5	ZI	9200070066	50	-207.40		2602	5/31/2017	5/30/2017
1026	OL	40111200	5/31/2017	2017	5	ZI	9200070066	50	-16.58		2602	5/31/2017	5/30/2017
1026	OL	40111200	5/31/2017	2017	5	ZI	9200070066	50	-6,734.74		2602	5/31/2017	5/30/2017
1026	OL	40111200	5/31/2017	2017	5	ZI	9200070066	50	-2.68		2605	5/31/2017	5/30/2017
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1026	OL	40111200	5/31/2017	2017	5	ZI	9200070066	50	-59.32		2602	5/31/2017	5/30/2017
1026	OL	40111200	5/23/2017	2017	5	ZI	9200069783	50	-84.55		2602	5/23/2017	5/22/2017
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1026	OL	40111200	5/23/2017	2017	5	ZI	9200069783	50	-0.84		2602	5/23/2017	5/22/2017
1026	OL	40111200	5/23/2017	2017	5	ZI	9200069783	50	-1,324.38		2603	5/23/2017	5/22/2017
1026	OL	40111200	5/23/2017	2017	5	ZI	9200069783	50	-9.27		2602	5/23/2017	5/22/2017
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1026	OL	40111200	5/23/2017	2017	5	ZI	9200069783	50	-2.29		2602	5/23/2017	5/22/2017
1026	OL	40111200	5/23/2017	2017	5	ZI	9200069783	50	-22.87		2602	5/23/2017	5/22/2017
1026	OL	40111200	5/23/2017	2017	5	ZI	9200069783	50	-56.43		2602	5/23/2017	5/22/2017
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1026	OL	40111200	5/23/2017	2017	5	ZI	9200069783	40	0.37		2602	5/23/2017	5/22/2017
1026	OL	40111200	5/23/2017	2017	5	ZI	9200069783	50	-22.79		2602	5/23/2017	5/22/2017
1026	OL	40111200	5/18/2017	2017	5	ZI	9200069635	50	-1.95		2602	5/18/2017	5/17/2017
1026	OL	40111200	5/2/2017	2017	5	ZI	9200069829	40	7.99		2602	5/2/2017	5/23/2017
1026	OL	40111200	5/4/2017	2017	5	ZI	9200069830	40	22.74		2602	5/4/2017	5/23/2017
1026	OL	40111200	5/9/2017	2017	5	ZI	9200069831	40	41.95		2602	5/9/2017	5/23/2017
1026	OL	40111200	5/9/2017	2017	5	ZI	9200069831	40	1.58		2602	5/9/2017	5/23/2017
1026	OL	40111200	5/4/2017	2017	5	ZI	9200069207	40	2.10		2602	5/4/2017	5/5/2017
1026	OL	40111200	5/5/2017	2017	5	ZI	9200069208	40	1.45		2602	5/5/2017	5/5/2017
1026	OL	40111200	5/5/2017	2017	5	ZI	9200069208	40	6.22		2602	5/5/2017	5/5/2017
1026	OL	40111200	5/5/2017	2017	5	ZI	9200069208	40	1.57		2602	5/5/2017	5/5/2017
1026	OL	40111200	5/8/2017	2017	5	ZI	9200069470	40	6.00		2602	5/8/2017	5/12/2017
1026	OL	40111200	5/9/2017	2017	5	ZI	9200069471	40	2.69		2602	5/9/2017	5/12/2017
1026	OL	40111200	5/12/2017	2017	5	ZI	9200069472	40	4.98		2602	5/12/2017	5/12/2017
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1026	OL	40111200	5/12/2017	2017	5	ZI	9200069472	40	3.26		2605	5/12/2017	5/12/2017
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1026	OL	40111200	5/12/2017	2017	5	ZI	9200069472	40	2.10		2602	5/12/2017	5/12/2017
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1026	OL	40111200	5/12/2017	2017	5	ZI	9200069472	40	2.58		2602	5/12/2017	5/12/2017
1026	OL	40111200	5/12/2017	2017	5	ZI	9200069472	40	2.43		2605	5/12/2017	5/12/2017
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1026	OL	40111200	5/12/2017	2017	5	ZI	9200069472	40	2.00		2602	5/12/2017	5/12/2017
1026	OL	40111200	5/12/2017	2017	5	ZI	9200069472	40	1.55		2602	5/12/2017	5/12/2017
1026	OL	40111200	5/12/2017	2017	5	ZI	9200069472	40	2.98		2605	5/12/2017	5/12/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	5/17/2017	2017	5	ZI	9200069597	40	7.40		2602	5/17/2017	5/17/2017
1026	OL	40111200	5/17/2017	2017	5	ZI	9200069597	40	5.95		2602	5/17/2017	5/17/2017
1026	OL	40111200	5/17/2017	2017	5	ZI	9200069598	40	3.63		2602	5/17/2017	5/17/2017
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1026	OL	40111200	5/8/2017	2017	5	ZI	9200069198	50	-4.16		2602	5/8/2017	5/5/2017
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1026	OL	40111200	5/23/2017	2017	5	ZI	9200069833	40	20.99		2602	5/23/2017	5/23/2017
1026	OL	40111200	5/23/2017	2017	5	ZI	9200069833	40	13.90		2602	5/23/2017	5/23/2017
1026	OL	40111200	5/23/2017	2017	5	ZI	9200069833	40	17.43		2602	5/23/2017	5/23/2017
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1026	OL	40111200	5/23/2017	2017	5	ZI	9200069833	40	12.71		2602	5/23/2017	5/23/2017
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1026	OL	40111200	5/15/2017	2017	5	ZI	9200069473	40	5.49		2602	5/12/2017	5/12/2017
1026	OL	40111200	5/8/2017	2017	5	ZI	9200069460	40	0.45		2602	5/8/2017	5/12/2017
1026	OL	40111200	5/9/2017	2017	5	ZI	9200069461	40	2.06		2602	5/9/2017	5/12/2017
1026	OL	40111200	5/5/2017	2017	5	ZI	9200069159	50	-2,858.04		2605	5/5/2017	5/4/2017
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1026	OL	40111200	5/30/2017	2017	5	ZI	9200070027	40	5.54		2602	5/26/2017	5/26/2017
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1026	OL	40111200	5/17/2017	2017	5	ZI	9200069628	40	1.50		2602	5/17/2017	5/17/2017
1026	OL	40111200	5/17/2017	2017	5	ZI	9200069628	40	3.11		2602	5/17/2017	5/17/2017
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1026	OL	40111200	5/17/2017	2017	5	ZI	9200069628	40	31.65		2602	5/17/2017	5/17/2017
1026	OL	40111200	5/17/2017	2017	5	ZI	9200069628	40	4.45		2602	5/17/2017	5/17/2017
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1026	OL	40111200	5/15/2017	2017	5	ZI	9200069454	50	-8.79		2602	5/15/2017	5/12/2017
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1026	OL	40111200	5/15/2017	2017	5	ZI	9200069454	50	-3.11		2602	5/15/2017	5/12/2017
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1026	OL	40111200	5/16/2017	2017	5	ZI	9200069513	50	-6,696.59		2602	5/16/2017	5/15/2017
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1026	OL	40111200	5/16/2017	2017	5	ZI	9200069513	50	-36.81		2602	5/16/2017	5/15/2017
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1026	OL	40111200	5/23/2017	2017	5	ZI	9200069955	40	4.45		2602	5/23/2017	5/25/2017
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1026	OL	40111200	5/18/2017	2017	5	ZJ	9200069634	50	-5.88	2602		5/17/2017	5/17/2017
1026	OL	40111200	5/18/2017	2017	5	ZJ	9200069634	50	-8.16	2602		5/17/2017	5/17/2017
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1026	OL	40111200	5/18/2017	2017	5	ZJ	9200069634	50	-1.57	2602		5/17/2017	5/17/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070129	50	-2.58	2602		5/31/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070129	50	-0.18	2602		5/31/2017	5/31/2017
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1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069812	50	-4,467.85	2602		5/24/2017	5/23/2017
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1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069812	50	-1.95	2602		5/24/2017	5/23/2017
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1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069812	40	0.05	2602		5/24/2017	5/23/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069812	50	-82.43	2602		5/24/2017	5/23/2017
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1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069812	50	-29.82	2603		5/24/2017	5/23/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069812	40	30.81	2602		5/24/2017	5/23/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069812	40	3.77	2602		5/24/2017	5/23/2017
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1026	OL	40111200	5/22/2017	2017	5	ZJ	9200069718	50	-1.69	2605		5/22/2017	5/19/2017
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1026	OL	40111200	5/22/2017	2017	5	ZJ	9200069718	50	-1.95	2602		5/22/2017	5/19/2017
1026	OL	40111200	5/17/2017	2017	5	ZJ	9200069535	50	-1.39	2605		5/17/2017	5/16/2017
1026	OL	40111200	5/17/2017	2017	5	ZJ	9200069535	50	-3.64	2605		5/17/2017	5/16/2017
1026	OL	40111200	5/17/2017	2017	5	ZJ	9200069535	50	-7.40	2602		5/17/2017	5/16/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	5/17/2017	2017	5	ZI	9200069535	40	9.47		2602	5/17/2017	5/16/2017
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1026	OL	40111200	5/3/2017	2017	5	ZI	9200069540	40	2.10		2602	5/3/2017	5/16/2017
1026	OL	40111200	5/8/2017	2017	5	ZI	9200069541	40	0.53		2602	5/8/2017	5/16/2017
1026	OL	40111200	5/9/2017	2017	5	ZI	9200069722	40	2.69		2602	5/9/2017	5/19/2017
1026	OL	40111200	5/12/2017	2017	5	ZI	9200069723	40	2.69		2602	5/12/2017	5/19/2017
1026	OL	40111200	5/18/2017	2017	5	ZI	9200069724	40	18.30		2602	5/18/2017	5/19/2017
1026	OL	40111200	5/19/2017	2017	5	ZI	9200069725	40	1.04		2602	5/19/2017	5/19/2017
1026	OL	40111200	5/19/2017	2017	5	ZI	9200069725	40	2.11		2602	5/19/2017	5/19/2017
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1026	OL	40111200	5/19/2017	2017	5	ZI	9200069725	40	3.76		2602	5/19/2017	5/19/2017
1026	OL	40111200	5/19/2017	2017	5	ZI	9200069725	40	13.90		2602	5/19/2017	5/19/2017
1026	OL	40111200	5/17/2017	2017	5	ZI	9200069612	40	1.45		2602	5/17/2017	5/17/2017
1026	OL	40111200	5/17/2017	2017	5	ZI	9200069612	40	1.68		2602	5/17/2017	5/17/2017
1026	OL	40111200	5/5/2017	2017	5	ZI	9200069199	40	3.99		2602	5/5/2017	5/5/2017
1026	OL	40111200	5/9/2017	2017	5	ZI	9200069260	50	-6,499.82		2602	5/9/2017	5/8/2017
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1026	OL	40111200	5/9/2017	2017	5	ZI	9200069260	40	8.20		2602	5/9/2017	5/8/2017
1026	OL	40111200	5/9/2017	2017	5	ZI	9200069260	50	-0.80		2602	5/9/2017	5/8/2017
1026	OL	40111200	5/9/2017	2017	5	ZI	9200069260	50	-3.86		2602	5/9/2017	5/8/2017
1026	OL	40111200	5/9/2017	2017	5	ZI	9200069260	50	-2.43		2602	5/9/2017	5/8/2017
1026	OL	40111200	5/9/2017	2017	5	ZI	9200069260	50	-2.43		2602	5/9/2017	5/8/2017
1026	OL	40111200	5/9/2017	2017	5	ZI	9200069260	50	-1.47		2602	5/9/2017	5/8/2017
1026	OL	40111200	5/9/2017	2017	5	ZI	9200069260	50	-1.47		2602	5/9/2017	5/8/2017
1026	OL	40111200	5/9/2017	2017	5	ZI	9200069260	40	1.37		2602	5/9/2017	5/8/2017
1026	OL	40111200	5/9/2017	2017	5	ZI	9200069260	50	-1.45		2602	5/9/2017	5/8/2017
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1026	OL	40111200	5/9/2017	2017	5	ZI	9200069260	50	-1.57		2602	5/9/2017	5/8/2017
1026	OL	40111200	5/9/2017	2017	5	ZI	9200069260	50	-2.90		2602	5/9/2017	5/8/2017
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1026	OL	40111200	5/9/2017	2017	5	ZI	9200069260	50	-2.17		2602	5/9/2017	5/8/2017
1026	OL	40111200	5/9/2017	2017	5	ZI	9200069260	50	-26.58		2602	5/9/2017	5/8/2017
1026	OL	40111200	5/9/2017	2017	5	ZI	9200069260	50	-1.50		2602	5/9/2017	5/8/2017
1026	OL	40111200	5/9/2017	2017	5	ZI	9200069260	40	17.19		2602	5/9/2017	5/8/2017
1026	OL	40111200	5/9/2017	2017	5	ZI	9200069260	50	-6,814.88		2602	5/9/2017	5/8/2017
1026	OL	40111200	5/9/2017	2017	5	ZI	9200069260	50	-1.56		2602	5/9/2017	5/8/2017
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1026	OL	40111200	5/9/2017	2017	5	ZI	9200069260	50	-1.51		2602	5/9/2017	5/8/2017
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1026	OL	40111200	5/9/2017	2017	5	ZI	9200069260	50	-7.98		2602	5/9/2017	5/8/2017
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1026	OL	40111200	5/9/2017	2017	5	ZI	9200069260	40	74.46		2602	5/9/2017	5/8/2017
1026	OL	40111200	5/9/2017	2017	5	ZI	9200069260	50	-7,692.43		2602	5/9/2017	5/8/2017
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1026	OL	40111200	5/9/2017	2017	5	ZI	9200069260	50	-72.77		2605	5/9/2017	5/8/2017
1026	OL	40111200	5/9/2017	2017	5	ZI	9200069260	50	-6.12		2605	5/9/2017	5/8/2017
1026	OL	40111200	5/9/2017	2017	5	ZI	9200069260	50	-0.86		2602	5/9/2017	5/8/2017
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1026	OL	40111200	5/10/2017	2017	5	ZI	9200069361	40	1.02		2602	5/10/2017	5/10/2017
1026	OL	40111200	5/10/2017	2017	5	ZI	9200069361	40	1.66		2602	5/10/2017	5/10/2017
1026	OL	40111200	5/10/2017	2017	5	ZI	9200069362	40	1.50		2602	5/10/2017	5/10/2017
1026	OL	40111200	5/10/2017	2017	5	ZI	9200069362	40	1.13		2602	5/10/2017	5/10/2017
1026	OL	40111200	5/10/2017	2017	5	ZI	9200069363	40	0.62		2602	5/10/2017	5/10/2017
1026	OL	40111200	5/11/2017	2017	5	ZI	9200069364	40	1.61		2602	5/10/2017	5/10/2017
1026	OL	40111200	5/12/2017	2017	5	ZI	9200069399	50	-2.02		2602	5/12/2017	5/11/2017
1026	OL	40111200	5/12/2017	2017	5	ZI	9200069399	50	-8,468.01		2602	5/12/2017	5/11/2017
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1026	OL	40111200	5/12/2017	2017	5	ZI	9200069399	50	-2.69		2602	5/12/2017	5/11/2017
1026	OL	40111200	5/12/2017	2017	5	ZI	9200069399	50	-2.81		2603	5/12/2017	5/11/2017
1026	OL	40111200	5/12/2017	2017	5	ZI	9200069399	50	-1.49		2602	5/12/2017	5/11/2017
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1026	OL	40111200	5/12/2017	2017	5	ZI	9200069399	50	-90.31		2602	5/12/2017	5/11/2017
1026	OL	40111200	5/12/2017	2017	5	ZI	9200069399	50	-87.65		2602	5/12/2017	5/11/2017
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1026	OL	40111200	5/3/2017	2017	5	ZI	9200069546	40	2.10		2602	5/3/2017	5/16/2017
1026	OL	40111200	5/4/2017	2017	5	ZI	9200069547	40	1.99		2602	5/4/2017	5/16/2017
1026	OL	40111200	5/16/2017	2017	5	ZI	9200069548	40	2.51		2602	5/16/2017	5/16/2017
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1026	OL	40111200	5/15/2017	2017	5	ZI	9200069551	40	3.99		2602	5/15/2017	5/16/2017
1026	OL	40111200	5/15/2017	2017	5	ZI	9200069551	40	257.90		2602	5/15/2017	5/16/2017
1026	OL	40111200	5/15/2017	2017	5	ZI	9200069551	40	4.43		2602	5/15/2017	5/16/2017
1026	OL	40111200	5/15/2017	2017	5	ZI	9200069551	40	6.45		2602	5/15/2017	5/16/2017
1026	OL	40111200	5/15/2017	2017	5	ZI	9200069551	40	6.59		2602	5/15/2017	5/16/2017
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1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069676	50	-144.31	2602		5/19/2017	5/18/2017
1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069676	50	-69.34	2602		5/19/2017	5/18/2017
1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069676	40	0.74	2602		5/19/2017	5/18/2017
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1026	OL	40111200	5/10/2017	2017	5	ZJ	9200069284	50	-0.80	2602		5/10/2017	5/9/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	5/11/2017	2017	5	ZJ	9200069420	40	2.31		2602	5/11/2017	5/11/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069963	40	2.69		2602	5/25/2017	5/25/2017
1026	OL	40111200	5/1/2017	2017	5	ZJ	9200069211	40	4.45		2602	5/1/2017	5/5/2017
1026	OL	40111200	5/4/2017	2017	5	ZJ	9200069213	40	0.67		2602	5/3/2017	5/5/2017
1026	OL	40111200	5/4/2017	2017	5	ZJ	9200069213	40	2.06		2602	5/3/2017	5/5/2017
1026	OL	40111200	5/5/2017	2017	5	ZJ	9200069214	40	2.85		2602	5/5/2017	5/5/2017
1026	OL	40111200	5/5/2017	2017	5	ZJ	9200069214	40	40.75		2602	5/5/2017	5/5/2017
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1026	OL	40111200	5/5/2017	2017	5	ZJ	9200069214	40	3.77		2602	5/5/2017	5/5/2017
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1026	OL	40111200	5/5/2017	2017	5	ZJ	9200069214	40	1.83		2602	5/5/2017	5/5/2017
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1026	OL	40111200	5/5/2017	2017	5	ZJ	9200069214	40	2.02		2602	5/5/2017	5/5/2017
1026	OL	40111200	5/5/2017	2017	5	ZJ	9200069214	40	1.50		2602	5/5/2017	5/5/2017
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1026	OL	40111200	5/5/2017	2017	5	ZJ	9200069214	40	1.95		2602	5/5/2017	5/5/2017
1026	OL	40111200	5/5/2017	2017	5	ZJ	9200069214	40	6.46		2602	5/5/2017	5/5/2017
1026	OL	40111200	5/8/2017	2017	5	ZJ	9200069310	40	-162.84		2602	5/8/2017	5/9/2017
1026	OL	40111200	5/8/2017	2017	5	ZJ	9200069310	50	-4.11		2602	5/8/2017	5/9/2017
1026	OL	40111200	5/8/2017	2017	5	ZJ	9200069310	40	46.42		2602	5/8/2017	5/9/2017
1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069736	40	0.04		2602	5/19/2017	5/19/2017
1026	OL	40111200	5/5/2017	2017	5	ZJ	9200069216	50	-2.43		2602	5/5/2017	5/5/2017
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1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069859	40	1.36		2602	5/24/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069860	40	0.09		2602	5/24/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069904	40	1.36		2602	5/24/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069904	40	2.82		2602	5/24/2017	5/25/2017
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1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069912	40	8.42		2602	5/24/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069912	40	1.99		2602	5/24/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069912	50	-5.13		2602	5/24/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069912	40	14.04		2602	5/24/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069914	50	-14.04		2602	5/24/2017	5/25/2017
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1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069914	50	-1.36		2602	5/24/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069914	50	-2.82		2602	5/24/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069914	40	7.26		2602	5/24/2017	5/25/2017
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1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069914	50	-8.72		2602	5/24/2017	5/25/2017
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1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069915	50	-2.02		2602	5/24/2017	5/25/2017
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1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069915	50	-1.60		2602	5/24/2017	5/25/2017
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1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069915	50	-1.57		2602	5/24/2017	5/25/2017
1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069915	50	-9.02		2602	5/24/2017	5/25/2017
1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069915	50	-5.96		2602	5/24/2017	5/25/2017
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1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069915	50	-2.32		2602	5/24/2017	5/25/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069915	50	-10.73	2602		5/24/2017	5/25/2017
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1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069915	50	-11.72	2602		5/24/2017	5/25/2017
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1026	OL	40111200	5/10/2017	2017	5	ZJ	9200069355	40	1.45	2602		5/10/2017	5/10/2017
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1026	OL	40111200	5/11/2017	2017	5	ZJ	9200069377	50	-0.83		2602	5/10/2017	5/10/2017
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1026	OL	40111200	5/11/2017	2017	5	ZJ	9200069377	50	-2.38		2602	5/10/2017	5/10/2017
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1026	OL	40111200	5/10/2017	2017	5	ZJ	9200069895	40	10.35	2602		5/10/2017	5/25/2017
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1026	OL	40111200	5/11/2017	2017	5	ZJ	9200069337	50	-0.80	2602		5/11/2017	5/10/2017
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1026	OL	40111200	5/11/2017	2017	5	ZJ	9200069337	50	-2.02	2602		5/11/2017	5/10/2017
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1026	OL	40111200	5/11/2017	2017	5	ZJ	9200069411	40	2.43	2602		5/11/2017	5/11/2017
1026	OL	40111200	5/11/2017	2017	5	ZJ	9200069411	40	2.60	2602		5/11/2017	5/11/2017
1026	OL	40111200	5/11/2017	2017	5	ZJ	9200069411	40	1.67	2602		5/11/2017	5/11/2017
1026	OL	40111200	5/11/2017	2017	5	ZJ	9200069411	40	3.11	2602		5/11/2017	5/11/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	5/11/2017	2017	5	ZJ	9200069427	50	-0.80		2602	5/11/2017	5/11/2017
1026	OL	40111200	5/11/2017	2017	5	ZJ	9200069427	50	-1.63		2602	5/11/2017	5/11/2017
1026	OL	40111200	5/11/2017	2017	5	ZJ	9200069427	50	-1.52		2602	5/11/2017	5/11/2017
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1026	OL	40111200	5/12/2017	2017	5	ZJ	9200069428	50	-5.51		2602	5/11/2017	5/11/2017
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1026	OL	40111200	5/12/2017	2017	5	ZJ	9200069428	50	-2.02		2602	5/11/2017	5/11/2017
1026	OL	40111200	5/12/2017	2017	5	ZJ	9200069428	50	-5.51		2602	5/11/2017	5/11/2017
1026	OL	40111200	5/12/2017	2017	5	ZJ	9200069428	50	-8.15		2602	5/11/2017	5/11/2017
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1026	OL	40111200	5/12/2017	2017	5	ZJ	9200069428	50	-9.26		2602	5/11/2017	5/11/2017
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1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069865	50	-136.63		2602	5/25/2017	5/25/2017
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1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069867	50	-2.43		2602	5/25/2017	5/25/2017
1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069867	50	-1.92		2602	5/25/2017	5/25/2017
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1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069867	50	-0.86	2602		5/25/2017	5/25/2017
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1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069869	40	4.13	2602		5/25/2017	5/25/2017
1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069869	40	1.12	2602		5/25/2017	5/25/2017
1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069869	40	1.76	2602		5/25/2017	5/25/2017
1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069869	40	3.47	2602		5/25/2017	5/25/2017
1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069869	50	-1.36	2602		5/25/2017	5/25/2017
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1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069869	40	1.53		2602	5/25/2017	5/25/2017
1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069869	40	1.99		2602	5/25/2017	5/25/2017
1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069869	40	0.87		2602	5/25/2017	5/25/2017
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1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069869	40	870.90		2602	5/25/2017	5/25/2017
1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069869	40	253.73		2602	5/25/2017	5/25/2017
1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069870	50	-0.44		2602	5/25/2017	5/25/2017
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1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069870	50	-3.76		2602	5/25/2017	5/25/2017
1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069870	50	-1.52		2602	5/25/2017	5/25/2017
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1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069870	50	-0.87		2602	5/25/2017	5/25/2017
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1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069871	50	-5.96		2602	5/25/2017	5/25/2017
1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069871	50	-7.44		2602	5/25/2017	5/25/2017
1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069871	50	-3.98		2602	5/25/2017	5/25/2017
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1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069871	50	-11.04		2602	5/25/2017	5/25/2017
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1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069872	40	1.99		2602	5/25/2017	5/25/2017
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1026	OL	40111200	5/25/2017	2017	5	ZJ	9200069872	40	1.62		2602	5/25/2017	5/25/2017
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1026													

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	5/9/2017	2017	5	ZJ	9200069298	40	1.12		2602	5/9/2017	5/9/2017
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1026	OL	40111200	5/10/2017	2017	5	ZJ	9200069305	40	2.24		2605	5/9/2017	5/9/2017
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1026	OL	40111200	5/10/2017	2017	5	ZJ	9200069316	50	-12.11		2602	5/9/2017	5/9/2017
1026	OL	40111200	5/10/2017	2017	5	ZJ	9200069316	50	-1.04		2602	5/9/2017	5/9/2017
1026	OL	40111200	5/10/2017	2017	5	ZJ	9200069316	50	-1.70		2602	5/9/2017	5/9/2017
1026	OL	40111200	5/10/2017	2017	5	ZJ	9200069316	50	-4.03		2602	5/9/2017	5/9/2017
1026	OL	40111200	5/10/2017	2017	5	ZJ	9200069316	50	-8.04		2605	5/9/2017	5/9/2017
1026	OL	40111200	5/10/2017	2017	5	ZJ	9200069316	50	-6.69		2605	5/9/2017	5/9/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
1026	OL	40111200	5/9/2017	2017	5	ZJ	9200069409	40	92.67	2602		5/9/2017	5/11/2017
1026	OL	40111200	5/9/2017	2017	5	ZJ	9200069556	40	31.92	2602		5/9/2017	5/16/2017
1026	OL	40111200	5/9/2017	2017	5	ZJ	9200069682	40	2.06	2602		5/9/2017	5/18/2017
1026	OL	40111200	5/1/2017	2017	5	ZJ	9200068979	50	-2.43	2602		4/28/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZJ	9200068979	50	-1.58	2602		4/28/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZJ	9200068979	50	-1.54	2602		4/28/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZJ	9200068979	50	-1.50	2602		4/28/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZJ	9200068979	50	-1.66	2602		4/28/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZJ	9200068979	50	-0.96	2602		4/28/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZJ	9200068979	50	-3.59	2602		4/28/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZJ	9200068979	50	-3.27	2602		4/28/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZJ	9200068979	50	-5.66	2602		4/28/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZJ	9200068979	50	-21.20	2602		4/28/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZJ	9200068979	50	-1.56	2602		4/28/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZJ	9200068979	50	-7.69	2602		4/28/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZJ	9200068979	50	-1.52	2602		4/28/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZJ	9200068979	50	-1.52	2602		4/28/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZJ	9200068979	50	-1.55	2602		4/28/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZJ	9200068979	50	-3.36	2602		4/28/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZJ	9200068979	50	-1.50	2602		4/28/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZJ	9200068979	50	-6.53	2602		4/28/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZJ	9200068979	50	-1.50	2602		4/28/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZJ	9200068979	50	-1.81	2602		4/28/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZJ	9200068979	50	-2.06	2602		4/28/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZJ	9200068979	50	-2.00	2602		4/28/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZJ	9200068979	50	-7.84	2602		4/28/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZJ	9200068979	50	-2.77	2602		4/28/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZJ	9200068979	50	-3.09	2602		4/28/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZJ	9200068979	50	-6.10	2602		4/28/2017	4/28/

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
1026	OL	40111200	5/3/2017	2017	5	ZI	9200069367	40	1.26		2602	5/2/2017	5/10/2017
1026	OL	40111200	5/2/2017	2017	5	ZI	9200069494	40	1.51		2602	5/2/2017	5/15/2017
1026	OL	40111200	5/2/2017	2017	5	ZI	9200069679	40	1.65		2602	5/2/2017	5/18/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-1.45		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-1.45		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-1.54		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-9.60		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-824.27		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-1.47		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-429.28		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-1.47		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-599.97		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-1.67		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	40	0.06		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-6,860.73		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-1.47		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-7,058.38		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-3.22		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-5.28		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-3.00		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-0.26		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-4.26		2603	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-16.63		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-3.05		2605	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-31.27		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-3.81		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-0.92		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-1.47		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-6.34		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-86.94		2605	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-1.60		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-87.64		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-1.60		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-1.52		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	40	30.54		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-1.60		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-1.60		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-1.30		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-2.93		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-1.50		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-1.50		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-0.89		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	40	8.40		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-11.20		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-1.49		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-0.76		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-1.49		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	40	5.86		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-1.72		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-1.51		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-9.71		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-31.98		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	50	-1.55		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068975	40	6.05		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068976	50	-10.42		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068976	50	-1.78		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068976	40	13.35		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068976	50	-20.09		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068976	50	-10.03		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068976	50	-12.80		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068976	50	-3.25		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200068976	50	-2.37		2602	5/1/2017	4/28/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200069068	40	9.16		2602	5/1/2017	5/2/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200069068	40	1.99		2602	5/1/2017	5/2/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200069070	40	3.80		2602	5/1/2017	5/2/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200069070	40	2.95		2602	5/1/2017	5/2/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200069070	40	1.32		2602	5/1/2017	5/2/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200069074	50	-4.53		2602	5/1/2017	5/2/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200069074	50	-2.06		2602	5/1/2017	5/2/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200069074	50	-1.71		2602	5/1/2017	5/2/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200069074	50	-3.27		2602	5/1/2017	5/2/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200069120	50	-6.05		2602	5/1/2017	5/3/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200069164	40	23.79		2602	5/1/2017	5/4/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200069301	40	2.10		2602	5/1/2017	5/9/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200069349	40	2.06		2602	5/1/2017	5/10/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200069396	40	0.65		2602	5/1/2017	5/11/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200069408	40	2.65		2605	5/1/2017	5/11/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200069864	40	1.99		2602	5/1/2017	5/25/2017
1026	OL	40111200	5/1/2017	2017	5	ZI	9200070078	40	4.08		2602	5/1/2017	5/31/2017
1026	OL	40111200	5/26/2017	2017	5	ZI	9200069947	50	-0.20		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZI	9200069947	50	-0.17		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZI	9200069947	40	3.05		2602	5/26/2017	5/25/2017
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1026	OL	40111200	5/26/2017	2017	5	ZI	9200069947	50	-3.86		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZI	9200069947	50	-3.11		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZI	9200069947	40	1.20		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZI	9200069947	50	-0.20		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZI	9200069947	50	-2.87		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZI	9200069947	50	-2.17		2602		

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	50	-0.16		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	50	-0.30		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	50	-0.30		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	50	-0.35		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	50	-1.10		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	50	-2.07		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	50	-0.43		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	50	-1.10		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	40	19.72		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	50	-2.00		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	50	-2.00		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	50	-0.89		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	50	-1.58		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	50	-1.57		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	50	-1.57		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	50	-1.57		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	40	2.22		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	50	-0.17		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	50	2.39		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	50	-1.04		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	50	-0.12		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	50	-1.60		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	50	-7,706.86		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	50	-0.88		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	50	-0.81		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	50	-2.69		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	50	-3,832.24		2602	5/26/2017	5/25/2017
1026	OL	40111200	5/26/2017	2017	5	ZJ	9200069947	50	-586.41		2602	5/26/2017	5/25/2017
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1026	OL	40111200	5/26/2017	2017	5	ZJ	9200070008	40	1.51		2602	5/26/2017	5/26/2017
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1026	OL	40111200	5/26/2017	2017	5	ZJ	9200070023	40	1.57		2602	5/26/2017	5/26/2017
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1026	OL	40111200	5/30/2017	2017	5	ZJ	9200070024	40	1.57		2602	5/26/2017	5/26/2017
1026	OL	40111200	5/30/2017	2017	5	ZJ	9200070024	40	0.87		2602	5/26/2017	5/26/2017
1026	OL	40111200	5/30/2017	2017	5	ZJ	9200070024	40	1.03		2602	5/26/2017	5/26/2017
1026	OL	40111200	5/30/2017	2017	5	ZJ	9200070024	40	1.45		2602	5/26/2017	5/26/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	5/30/2017	2017	5	ZJ	9200070024	40	0.27		2602	5/26/2017	5/26/2017
1026	OL	40111200	5/30/2017	2017	5	ZJ	9200070024	40	2.06		2602	5/26/2017	5/26/2017
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1026	OL	40111200	5/5/2017	2017	5	ZJ	9200069303	40	6.21		2602	5/5/2017	5/9/2017
1026	OL	40111200	5/5/2017	2017	5	ZJ	9200069352	40	0.53		2602	5/5/2017	5/10/2017
1026	OL	40111200	5/5/2017	2017	5	ZJ	9200069888	40	3.93		2605	5/5/2017	5/25/2017
1026	OL	40111200	5/18/2017	2017	5	ZJ	9200069668	40	1.63		2602	5/18/2017	5/18/2017
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1026	OL	40111200	5/18/2017	2017	5	ZJ	9200069688	40	1.86		2602	5/18/2017	5/18/2017
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1026	OL	40111200	5/18/2017	2017	5	ZJ	9200069688	40	1.55		2602	5/18/2017	5/18/2017
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1026	OL	40111200	5/18/2017	2017	5	ZJ	9200069688	40	1.57		2602	5/18/2017	5/18/2017
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1026	OL	40111200	5/18/2017	2017	5	ZJ	9200069688	40	1.56		2602	5/18/2017	5/18/2017
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1026	OL	40111200	5/18/2017	2017	5	ZJ	9200069688	40	1.55		2602	5/18/2017	5/18/2017
1026	OL	40111200	5/18/2017	2017	5	ZJ	9200069688	40	2.02		2602	5/18/2017	5/18/2017
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1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069689	40	2.10		2602	5/18/2017	5/18/2017
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1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069693	50	-6.81		2602	5/18/2017	5/18/2017
1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069693	50	-1.52		2602	5/18/2017	5/18/2017
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1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069693	50	-8.91		2602	5/18/2017	5/18/2017
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1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069693	50	-1.10		2602	5/18/2017	5/18/2017
1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069693	50	-1.58		2602	5/18/2017	5/18/2017
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1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069693	50	-1.58		2602	5/18/2017	5/18/2017
1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069693	50	-1.73		2602	5/18/2017	5/18/2017
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1026	OL	40111200	5/17/2017	2017	5	ZJ	9200069569	50	-7.54		2602	5/16/2017	5/16/2017
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Company	C	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL		40111200	5/4/2017	2017	5	ZJ	9200069170	50	-1.88		2602	5/4/2017	5/4/2017
1026	OL		40111200	5/4/2017	2017	5	ZJ	9200069170	50	-1.98		2602	5/4/2017	5/4/2017
1026	OL		40111200	5/4/2017	2017	5	ZJ	9200069170	50	-1.02		2602	5/4/2017	5/4/2017
1026	OL		40111200	5/4/2017	2017	5	ZJ	9200069170	50	-1.99		2602	5/4/2017	5/4/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	5/5/2017	2017	5	ZJ	9200069171	50	-4.20	2602		5/4/2017	5/4/2017
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1026	OL	40111200	5/5/2017	2017	5	ZJ	9200069171	50	-4.86	2602		5/4/2017	5/4/2017
1026	OL	40111200	5/5/2017	2017	5	ZJ	9200069171	50	-5.74	2602		5/4/2017	5/4/2017
1026	OL	40111200	5/5/2017	2017	5	ZJ	9200069171	50	-5.74	2602		5/4/2017	5/4/2017
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1026	OL	40111200	5/5/2017	2017	5	ZJ	9200069171	50	-2.99	2602		5/4/2017	5/4/2017
1026	OL	40111200	5/5/2017	2017	5	ZJ	9200069171	50	-2.63	2602		5/4/2017	5/4/2017
1026	OL	40111200	5/5/2017	2017	5	ZJ	9200069171	50	-0.57	2602		5/4/2017	5/4/2017
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1026	OL	40111200	5/8/2017	2017	5	ZJ	9200069172	50	-1.03	2602		5/4/2017	5/4/2017
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1026	OL	40111200	5/8/2017	2017	5	ZJ	9200069172	50	-1.95	2602		5/4/2017	5/4/2017
1026	OL	40111200	5/8/2017	2017	5	ZJ	9200069172	50	-4.91	2602		5/4/2017	5/4/2017
1026	OL	40111200	5/8/2017	2017	5	ZJ	9200069172	50	-10.73	2602		5/4/2017	5/4/2017
1026	OL	40111200	5/8/2017	2017	5	ZJ	9200069172	50	-11.14	2602		5/4/2017	5/4/2017
1026	OL	40111200	5/8/2017	2017	5	ZJ	9200069172	50	-2.06	2602		5/4/2017	5/4/2017
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1026	OL	40111200	5/8/2017	2017	5	ZJ	9200069172	50	-2.69	2602		5/4/2017	5/4/2017
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1026	OL	40111200	5/8/2017	2017	5	ZJ	9200069172	50	-0.75	2602		5/4/2017	5/4/2017
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1026	OL	40111200	5/8/2017	2017	5	ZJ	9200069172	50	-1.52	2602		5/4/2017	5/4/2017
1026	OL	40111200	5/8/2017	2017	5	ZJ	9200069172	50	-3.60	2602		5/4/2017	5/4/2017
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1026	OL	40111200	5/3/2017	2017	5	ZJ	9200069121	40	10.88	2602		5/3/2017	5/3/2017
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1026	OL	40111200	5/4/2017	2017	5	ZJ	9200069122	40	2.69	2602		5/3/2017	5/3/2017
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1026	OL	40111200	5/3/2017	2017	5	ZJ	9200069124	50	-0.05	2602		5/3/2017	5/3/2017
1026	OL	40111200	5/3/2017	2017	5	ZJ	9200069124	50	-0.26	2602		5/3/2017	5/3/2017
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1026	OL	40111200	5/4/2017	2017	5	ZJ	9200069125	50	-1.14	2602		5/3/2017	5/3/2017
1026	OL	40111200	5/4/2017	2017	5	ZJ	9200069125	50	-1.66	2602		5/3/2017	5/3/2017
1026	OL	40111200	5/4/2017	2017	5	ZJ	9200069125	50	-1.57	2602		5/3/2017	5/3/2017
1026	OL	40111200	5/4/2017	2017	5	ZJ	9200069125	50	-1.61	2602		5/3/2017	5/3/2017
1026	OL	40111200	5/4/2017	2017	5	ZJ	9200069125	50	-3.62	2602		5/3/2017	5/3/2017
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1026	OL	40111200	5/4/2017	2017	5	ZJ	9200069125	50	-11.14	2602		5/3/2017	5/3/2017
1026	OL	40111200	5/4/2017	2017	5	ZJ	9200069125	50	-1.52	2602		5/3/2017	5/3/2017
1026	OL	40111200	5/4/2017	2017	5	ZJ	9200069125	50	-1.26	2602		5/3/2017	5/3/2017
1026	OL	40111200	5/4/2017	2017	5	ZJ	9200069125	50	-1.57	2602		5/3/2017	5/3/2017
1026	OL	40111200	5/4/2017	2017	5	ZJ	9200069125	50	-2.06	2602		5/3/2017	5/3/2017
1026	OL	40111200	5/4/2017	2017	5	ZJ	9200069125	50	-2.22	2602		5/3/2017	5/3/2017
1026	OL	40111200	5/4/2017	2017	5	ZJ	9200069125	50	-1.50	2602		5/3/2017	5/3/2017
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1026	OL	40											

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	5/8/2017	2017	5	ZJ	9200069353	40	0.52		2602	5/8/2017	5/10/2017
1026	OL	40111200	5/3/2017	2017	5	ZJ	9200069553	40	8.04		2602	5/3/2017	5/16/2017
1026	OL	40111200	5/12/2017	2017	5	ZJ	9200069476	50	-1.63		2602	5/12/2017	5/12/2017
1026	OL	40111200	5/12/2017	2017	5	ZJ	9200069476	50	-2.06		2602	5/12/2017	5/12/2017
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1026	OL	40111200	5/12/2017	2017	5	ZJ	9200069476	50	-1.52		2602	5/12/2017	5/12/2017
1026	OL	40111200	5/12/2017	2017	5	ZJ	9200069476	50	-37.13		2602	5/12/2017	5/12/2017
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1026	OL	40111200	5/12/2017	2017	5	ZJ	9200069476	50	-1.03		2602	5/12/2017	5/12/2017
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1026	OL	40111200	5/15/2017	2017	5	ZJ	9200069477	50	-7.84		2602	5/12/2017	5/12/2017
1026	OL	40111200	5/15/2017	2017	5	ZJ	9200069477	50	-5.07		2602	5/12/2017	5/12/2017
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1026	OL	40111200	5/15/2017	2017	5	ZJ	9200069477	50	-0.26		2602	5/12/2017	5/12/2017
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1026	OL	40111200	5/15/2017	2017	5	ZJ	9200069477	50	-1.95		2602	5/12/2017	5/12/2017
1026	OL	40111200	5/15/2017	2017	5	ZJ	9200069477	50	-9.46		2602	5/12/2017	5/12/2017
1026	OL	40111200	5/15/2017	2017	5	ZJ	9200069477	50	-2.60		2602	5/12/2017	5/12/2017
1026	OL	40111200	5/15/2017	2017	5	ZJ	9200069477	50	-1.53		2602	5/12/2017	5/12/2017
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1026	OL	40111200	5/15/2017	2017	5	ZJ	9200069477	50	-2.98		2605	5/12/2017	5/12/2017
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1026	OL	40111200	5/15/2017	2017	5	ZJ	9200069477	50	-7.48		2602	5/12/2017	5/12/2017
1026	OL	40111200	5/15/2017	2017	5	ZJ	9200069477	50	-3.07		2602	5/12/2017	5/12/2017
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1026	OL	40111200	5/30/2017	2017	5	ZJ	9200070083	50	-5.64		2602	5/30/2017	5/31/2017
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1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070084	50	-13.76		2602	5/30/2017	5/31/2017
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1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070084	50	-1.57		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070084	50	-1.69		2602	5/30/2017	5/31/2017
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1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070084	50	-3.32		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070084	50	-90.90		2602	5/30/2017	5/31/2017
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1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070084	50	-4.62		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070084	50	-4.49		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070084	50	-2.87		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070084	50	-2.87		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070084	50	-2.87		2602	5/30/2017	5/31/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070084	50	-4.12		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070084	50	-1.85		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070084	50	-1.83		2602	5/30/2017	5/31/2017
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1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070084	50	-1.21		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070084	50	-4.43		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070084	50	-2.09		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070084	50	-3.27		2602	5/30/2017	5/31/2017
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1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070084	50	-2.69		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/30/2017	2017	5	ZJ	9200070092	40	5.51		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/30/2017	2017	5	ZJ	9200070092	40	5.95		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/30/2017	2017	5	ZJ	9200070092	40	3.86		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/30/2017	2017	5	ZJ	9200070092	40	1.85		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/30/2017	2017	5	ZJ	9200070092	40	5.95		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/30/2017	2017	5	ZJ	9200070092	40	5.10		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/30/2017	2017	5	ZJ	9200070092	40	5.76		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/30/2017	2017	5	ZJ	9200070092	40	2.69		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/30/2017	2017	5	ZJ	9200070092	40	2.09		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/30/2017	2017	5	ZJ	9200070092	40	2.79		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/30/2017	2017	5	ZJ	9200070092	40	2.87		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/30/2017	2017	5	ZJ	9200070092	40	2.38		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/30/2017	2017	5	ZJ	9200070092	40	2.34		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/30/2017	2017	5	ZJ	9200070092	40	5.50		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/30/2017	2017	5	ZJ	9200070092	40	6.45		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/30/2017	2017	5	ZJ	9200070092	40	5.88		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/30/2017	2017	5	ZJ	9200070092	40	0.59		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/30/2017	2017	5	ZJ	9200070092	40	5.64		2602	5/30/2017	5/31/2017
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1026	OL	40111200	5/30/2017	2017	5	ZJ	9200070092	40	2.79		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/30/2017	2017	5	ZJ	9200070092	40	5.07		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070093	40	2.52		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070093	40	2.63		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070093	40	1.10		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070093	40	1.10		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070093	40	2.17		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070093	40	2.36		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070093	40	1.95		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070093	40	2.00		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070093	40	2.00		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070093	40	2.06		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070093	40	2.43		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070093	40	2.43		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070093	40	2.43		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070093	40	2.03		2602	5/30/2017	5/31/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069903	40	4.36		2602	5/23/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069903	40	4.36		2602	5/23/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069903	40	13.81		2602	5/23/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069903	40	1.96		2602	5/23/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069903	40	0.45		2602	5/23/2017	5/25/2017
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1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069903	40	1.95		2602	5/23/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069903	40	2.93		2602	5/23/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069911	40	1.92		2602	5/23/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069911	40	1.76		2602	5/23/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069911	40	7.66		2602	5/23/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069911	40	1.55		2602	5/23/2017	5/25/2017
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1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069911	40	1.95		2602	5/23/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069911	40	1.95		2602	5/23/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069911	40	3.97		2602	5/23/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069911	40	1.95		2602	5/23/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069911	40	2.43		2602	5/23/2017	5/25/2017
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1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069911	40	10.05		2602	5/23/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069911	40	0.06		2602	5/23/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069911	40	1.52		2602	5/23/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069911	40	4.65		2602	5/23/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069911	40	2.43		2602	5/23/2017	5/25/2017
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1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069911	40	2.43		2602	5/23/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069911	40	0.86		2602	5/23/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069911	40	0.18		2602	5/23/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069911	40	1.13		2602	5/23/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069911	40	37.00		2602	5/23/2017	5/25/2017
1026	OL	40111200	5/24/2017										

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069911	40	1.57	2602		5/23/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069911	40	1.99	2602		5/23/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069911	40	3.76	2602		5/23/2017	5/25/2017
1026	OL	40111200	5/24/2017	2017	5	ZJ	9200069911	40	2.87	2602		5/23/2017	5/25/2017
1026	OL	40111200	5/23/2017	2017	5	ZJ	9200070020	40	2.08	2602		5/23/2017	5/26/2017
1026	OL	40111200	5/23/2017	2017	5	ZJ	9200070079	40	2.69	2602		5/23/2017	5/31/2017
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1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069742	40	8.61	2602		5/19/2017	5/19/2017
1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069742	40	18.70	2602		5/19/2017	5/19/2017
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1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069747	50	-13.39	2602		5/19/2017	5/19/2017
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1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069747	50	-0.08	2602		5/19/2017	5/19/2017
1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069747	50	-12.85	2602		5/19/2017	5/19/2017
1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069747	50	-2.00	2602		5/19/2017	5/19/2017
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1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069747	50	-1.57	2602		5/19/2017	5/19/2017
1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069747	50	-156.18	2602		5/19/2017	5/19/2017
1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069747	50	-2.62	2602		5/19/2017	5/19/2017
1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069747	50	-1.00	2602		5/19/2017	5/19/2017
1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069747	50	-5.50	2602		5/19/2017	5/19/2017
1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069747	50	-3.63	2602		5/19/2017	5/19/2017
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1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069747	50	-5.42	2602		5/19/2017	5/19/2017
1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069747	50	-5.95	2602		5/19/2017	5/19/2017
1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069747	50	-1.58	2602		5/19/2017	5/19/2017
1026	OL	40111200	5/19/2017	2017	5	ZJ	9200069747	50	-15.46	2602		5/19/2017	5/19/2017
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1026	OL	40111200	5/16/2017	2017	5	ZJ	9200069572	50	-4.43	2602		5/15/2017	5/16/2017
1026	OL	40111200	5/16/2017	2017	5	ZJ	9200069572	50	-2.37	2602		5/15/2017	5/16/2017
1026	OL	40111200	5/16/2017	2017	5	ZJ	9200069572	50	-92.06	2602		5/15/2017	5/16/2017
1026	OL	40111200	5/16/2017	2017	5	ZJ	9200069572	50	-6.46	2602		5/15/2017	5/16/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	5/16/2017	2017	5	ZJ	9200069572	50	-4.37	2602		5/15/2017	5/16/2017
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1026	OL	40111200	5/17/2017	2017	5	ZJ	9200069633	50	-2.80	2602		5/17/2017	5/17/2017
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1026	OL	40111200	5/17/2017	2017	5	ZJ	9200069633	50	-1.57	2602		5/17/2017	5/17/2017
1026	OL	40111200	5/17/2017	2017	5	ZJ	9200069633	50	-2.43	2602		5/17/2017	5/17/2017
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1026	OL	40111200	5/17/2017	2017	5	ZJ	9200069633	50	-1.25	2602		5/17/2017	5/17/2017
1026	OL	40111200	5/17/2017	2017	5	ZJ	9200069633	50	-10.30	2602		5/17/2017	5/17/2017
1026	OL	40111200	5/17/2017	2017	5	ZJ	9200069633	50	-2.00	2602		5/17/2017	5/17/2017
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1026	OL	40111200	5/17/2017	2017	5	ZJ	9200069633	50	-2.61	2602		5/17/2017	5/17/2017
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1026	OL	40111200	5/15/2017	2017	5	ZJ	9200070087	40	3.60	2602		5/15/2017	5/31/2017
1026	OL	40111200	5/31/2017	2017	5	ZJ	9200070094	40	0.45	2602		5/31/2017	5/31/2017
1026	OL	40111200	5/17/2017	2017	5	ZJ	9200069728	40	1.83	2602		5/17/2017	5/19/2017
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1026	OL	40111200	5/17/2017	2017	5	ZJ	9200069728	40	1.58	2602		5/17/2017	5/19/2017
1026	OL	40111200	5/20/2017	2017	5	ZJ	9200069743	40	2.06	2602		5/20/2017	5/19/2017
1026	OL	40111200	5/15/2017	2017	5	ZJ	9200070005	40	1.99	2602		5/15/2017	5/26/2017
1026	OL	40111200	6/1/2017	2017	6	ZJ	9200070302	40	98.15	2602		5/31/2017	6/6/2017
1026	OL	40111200	6/6/2017	2017	6	ZJ	9200070303	40	0.89	2602		6/6/2017	6/6/2017
1026	OL	40111200	6/6/2017	2017	6	ZJ	9200070303	40	5.64	2602		6/6/2017	6/6/2017
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1026	OL	40111200	6/6/2017	2017	6	ZJ	9200070303	40	2.27	2602		6/6/2017	6/6/2017
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1026	OL	40111200	6/26/2017	2017	6	ZJ	9200070974	50	-0.32	2602		6/23/2017	6/23/2017
1026	OL	40111200	6/26/2017	2017	6	ZJ	9200070974	50	-1.30	2602		6/23/2017	6/23/2017
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1026	OL	40111200	6/26/2017	2017	6	ZJ	9200070974	50	-1.28	2602		6/23/2017	6/23/2017
1026	OL	40111200	6/26/2017	2017	6	ZJ	9200070974	50	-2.32	2602		6/23/2017	6/23/2017
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1026	OL	40111200	6/26/2017	2017	6	ZJ	9200070974	50	-2.46	2602		6/23/2017	6/23/2017
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1026	OL	40111200	6/26/2017	2017	6	ZJ	9200070974	50	-1.46	2602		6/23/2017	6/23/2017
1026	OL	40111200	6/26/2017	2017	6	ZJ	9200070974	50	-1.95	2602		6/23/2017	6/23/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	6/7/2017	2017	6	ZI	9200070295	50	-46.91		2602	6/7/2017	6/6/2017
1026	OL	40111200	6/7/2017	2017	6	ZI	9200070295	50	-1.88		2602	6/7/2017	6/6/2017
1026	OL	40111200	6/7/2017	2017	6	ZI	9200070295	50	-6.54		2602	6/7/2017	6/6/2017
1026	OL	40111200	6/7/2017	2017	6	ZI	9200070295	40	1.32		2602	6/7/2017	6/6/2017
1026	OL	40111200	6/7/2017	2017	6	ZI	9200070295	50	-3.67		2605	6/7/2017	6/6/2017
1026	OL	40111200	6/7/2017	2017	6	ZI	9200070295	50	-1.58		2602	6/7/2017	6/6/2017
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1026	OL	40111200	6/7/2017	2017	6	ZI	9200070295	50	-147.00		2602	6/7/2017	6/6/2017
1026	OL	40111200	6/7/2017	2017	6	ZI	9200070295	50	-16.79		2605	6/7/2017	6/6/2017
1026	OL	40111200	6/7/2017	2017	6	ZI	9200070295	50	-4.18		2602	6/7/2017	6/6/2017
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1026	OL	40111200	6/1/2017	2017	6	ZI	9200070121	40	1.57		2602	5/31/2017	5/31/2017
1026	OL	40111200	6/1/2017	2017	6	ZI	9200070121	40	8.33		2602	5/31/2017	5/31/2017
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1026	OL	40111200	6/1/2017	2017	6	ZI	9200070109	40	27.52		2602	6/1/2017	5/31/2017
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1026	OL	40111200	6/21/2017	2017	6	ZI	9200070849	40	1.47		2602	6/21/2017	6/21/2017
1026	OL	40111200	6/21/2017	2017	6	ZI	9200070849	40	1.47		2602	6/21/2017	6/21/2017
1026	OL	40111200	6/21/2017	2017	6	ZI	9200070849	40	1.50		2602	6/21/2017	6/21/2017
1026	OL	40111200	6/21/2017	2017	6	ZI	9200070849	40	1.60		2602	6/21/2017	6/21/2017
1026	OL	40111200	6/21/2017	2017	6	ZI	9200070849	40	1.50		2602	6/21/2017	6/21/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	6/5/2017	2017	6	ZJ	9200070305	40	0.53		2602	6/5/2017	6/6/2017
1026	OL	40111200	6/5/2017	2017	6	ZJ	9200070305	40	2.24		2602	6/5/2017	6/6/2017
1026	OL	40111200	6/5/2017	2017	6	ZJ	9200070305	40	0.52		2602	6/5/2017	6/6/2017
1026	OL	40111200	6/5/2017	2017	6	ZJ	9200070305	40	55.87		2602	6/5/2017	6/6/2017
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1026	OL	40111200	6/21/2017	2017	6	ZJ	9200070844	50	-0.16		2602	6/21/2017	6/21/2017
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1026	OL	40111200	6/6/2017	2017	6	ZI	9200070367	40	2.02		2602	6/6/2017	6/7/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	6/7/2017	2017	6	ZJ	9200070317	50	-1.29		2602	6/6/2017	6/6/2017
1026	OL	40111200	6/7/2017	2017	6	ZJ	9200070317	50	-15.92		2602	6/6/2017	6/6/2017
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1026	OL	40111200	6/7/2017	2017	6	ZJ	9200070317	50	-13.85		2602	6/6/2017	6/6/2017
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1026	OL	40111200	6/14/2017	2017	6	ZJ	9200070701	50	-0.47		2602	6/14/2017	6/16/2017
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1026	OL	40111200	6/16/2017	2017	6	ZJ	9200070703	40	2.71		2602	6/16/2017	6/16/2017
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1026	OL	40111200	6/16/2017	2017	6	ZJ	9200070703	40	10.52		2602	6/16/2017	6/16/2017
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1026	OL	40111200	6/16/2017	2017	6	ZJ	9200070703	40	2.02		2602	6/16/2017	6/16/2017
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1026	OL	40111200	6/12/2017	2017	6	ZJ	9200070446	50	-143.65		2602	6/12/2017	6/9/2017
1026	OL	40111200	6/12/2017	2017	6	ZJ	9200070446	40	11.35		2602	6/12/2017	6/9/2017
1026	OL	40111200	6/12/2017	2017	6	ZJ	9200070446	40	13.02		2602	6/12/2017	6/9/2017
1026	OL	40111200	6/12/2017	2017	6	ZJ	9200070446	40	42.18		2605	6/12/2017	6/9/2017
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1026	OL	40111200	6/23/2017	2017	6	ZJ	9200070971	40	2.02		2602	6/23/2017	6/23/2017
1026	OL	40111200	6/20/2017	2017	6	ZJ	9200070753	40	28.17		2602	6/20/2017	6/19/2017
1026	OL	40111200	6/20/2017	2017	6	ZJ	9200070753	50	-1.99		2602	6/20/2017	6/19/2017
1026	OL	40111200	6/20/2017	2017	6	ZJ	9200070753	50	-0.16		2602	6/20/2017	6/19/2017
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1026	OL	40111200	6/20/2017	2017	6	ZJ	9200070753	50	-2.43		2602	6/20/2017	6/19/2017
1026	OL	40111200	6/20/2017	2017	6	ZJ	9200070753	50	-4,031.26		2602	6/20/2017	6/19/2017
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1026	OL	40111200	6/20/2017	2017	6	ZJ	9200070753	50	-102.03		2602	6/20/2017	6/19/2017
1026	OL	40111200	6/20/2017	2017	6	ZJ	9200070753	50	-3.27		2602	6/20/2017	6/19/2017
1026	OL	40111200	6/20/2017	2017	6	ZJ	9200070753	50	-3.14		2605	6/20/2017	6/19/2017
1026	OL	40111200	6/20/2017	2017	6	ZJ	9200070753	50	-1.03		2602	6/20/2017	6/19/2017
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1026	OL	40111200	6/20/2017	2017	6	ZJ	9200070753	50	-1.34		2602	6/20/2017	6/19/2017
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1026	OL	40111200	6/20/2017	2017	6	ZJ	9200070753	50	-0.86		2602	6/20/2017	6/19/2017
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1026	OL	40111200	6/26/2017	2017	6	ZJ	9200070948	50	-6.72		2605	6/26/2017	6/23/2017
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1026	OL	40111200	6/7/2017	2017	6	ZJ	9200070369	40	16.57		2602	6/7/2017	6/7/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	6/1/2017	2017	6	ZJ	9200070130	50	-3.03		2602	5/31/2017	5/31/2017
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1026	OL	40111200	6/23/2017	2017	6	ZJ	9200070901	50	-94.70		2602	6/23/2017	6/22/2017
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1026	OL	40111200	6/23/2017	2017	6	ZJ	9200070901	40	3.04		2602	6/23/2017	6/22/2017
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1026	OL	40111200	6/9/2017	2017	6	ZJ	9200070459	40	42.18		2605	6/9/2017	6/9/2017
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1026	OL	40111200	6/12/2017	2017	6	ZJ	9200070460	50	-4.52		2602	6/9/2017	6/9/2017
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1026	OL	40111200	6/21/2017	2017	6	ZJ	9200070854	40	1.97		2602	6/21/2017	6/21/2017
1026	OL	40111200	6/21/2017	2017	6	ZJ	9200070854	40	2.18		2602	6/21/2017	6/21/2017
1026	OL	40111200	6/21/2017	2017	6	ZJ	9200070854	40	1.06		2602	6/21/2017	6/21/2017
1026	OL	40111200	6/9/2017	2017	6	ZJ	9200070898	40	1.99		2602	6/9/2017	6/22/2017
1026	OL	40111200	6/14/2017	2017	6	ZJ	9200070899	40	1.34		2602	6/14/2017	6/22/2017
1026	OL	40111200	6/27/2017	2017	6	ZJ	9200071070	50	-2.06		2602	6/27/2017	6/27/2017
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1026	OL	40111200	6/28/2017	2017	6	ZJ	9200071071	50	-0.58		2602	6/27/2017	6/27/2017
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1026	OL	40111200	6/28/2017	2017	6	ZJ	9200071071	50	-2.87		2602	6/27/2017	6/27/2017
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1026	OL	40111200	6/28/2017	2017	6	ZJ	9200071071	50	-5.02		2602	6/27/2017	6/27/2017
1026	OL	40111200	6/28/2017	2017	6	ZJ	9200071071	50	-1.05		2602	6/27/2017	6/27/2017
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1026	OL	40111200	6/28/2017	2017	6	ZJ	9200071071	50	-13.43		2602	6/27/2017	6/27/2017
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1026	OL	40111200	6/28/2017	2017	6	ZJ	9200071071	50	-3.78		2602	6/27/2017	6/27/2017
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1026	OL	40111200	6/15/2017	2017	6	ZJ	9200070657	40	3.86		2602	6/15/2017	6/15/2017
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1026	OL	40111200	6/6/2017	2017	6	ZJ	9200070316	50	-5.64		2602	6/6/2017	6/6/2017
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1026	OL	40111200	6/6/2017	2017	6	ZJ	9200070316	50	-0.39		2602	6/6/2017	6/6/2017
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1026	OL	40111200	6/8/2017	2017	6	ZJ	9200070419	50	-1.00		2602	6/8/2017	6/8/2017
1026	OL	40111200	6/8/2017	2017	6	ZJ	9200070419	50	-2.02		2602	6/8/2017	6/8/2017
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1026	OL	40111200	6/8/2017	2017	6	ZJ	9200070419	50	-7.20		2602	6/8/2017	6/8/2017
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1026	OL	40111200	6/27/2017	2017	6	ZJ	9200071048	40	3.86		2602	6/27/2017	6/27/2017
1026	OL	40111200	6/27/2017	2017	6	ZJ	9200071048	40	3.26		2605	6/27/2017	6/27/2017
1026	OL	40111200	6/27/2017	2017	6	ZJ	9200071048	40	4.86		2605	6/27/2017	6/27/2017
1026	OL	40111200	6/27/2017	2017	6	ZJ	9200071048	40	2.61		2605	6/27/2017	6/27/2017
1026	OL	40111200	6/1/2017	2017	6	ZJ	9200070172	40	2.69		2602	6/1/2017	6/1/2017
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1026	OL	40111200	6/16/2017	2017	6	ZJ	9200070662	50	-2.06		2602	6/15/2017	6/15/2017
1026	OL	40111200	6/16/2017	2017	6	ZJ	9200070662	50	-1.69		2602	6/15/2017	6/15/2017
1026	OL	40111200	6/16/2017	2017	6	ZJ	9200070662	50	-4.20		2602	6/15/2017	6/15/2017
1026	OL	40111200	6/16/2017	2017	6	ZJ	9200070662	50	-1.47		2602	6/15/2017	6/15/2017
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1026	OL	40111200	6/16/2017	2017	6	ZJ	9200070662	50	-2.10		2602	6/15/2017	6/15/2017
1026	OL	40111200	6/16/2017	2017	6	ZJ	9200070662	50	-3.24		2602	6/15/2017	6/15/2017
1026	OL	40111200	6/16/2017	2017	6	ZJ	9200070662	50	-2.10		2602	6/15/2017	6/15/2017
1026	OL	40111200	6/16/2017	2017	6	ZJ	9200070662	50	-8.13		2602	6/15/2017	6/15/2017
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1026	OL	40111200	6/8/2017	2017	6	ZI	9200070370	40	2.43		2602	6/7/2017	6/7/2017
1026	OL	40111200	6/8/2017	2017	6	ZI	9200070370	40	3.45		2602	6/7/2017	6/7/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070595	40	2.06		2602	6/5/2017	6/14/2017
1026	OL	40111200	6/9/2017	2017	6	ZI	9200070596	40	6.81		2602	6/9/2017	6/14/2017
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1026	OL	40111200	6/12/2017	2017	6	ZI	9200070597	40	2.02		2602	6/12/2017	6/14/2017
1026	OL	40111200	6/14/2017	2017	6	ZI	9200070598	40	21.76		2602	6/14/2017	6/14/2017
1026	OL	40111200	6/14/2017	2017	6	ZI	9200070598	40	1.63		2602	6/14/2017	6/14/2017
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1026	OL	40111200	6/20/2017	2017	6	ZI	9200070795	50	-5.47		2602	6/19/2017	6/20/2017
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1026	OL	40111200	6/5/2017	2017	6	ZI	9200070200	40	1.24		2602	6/5/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070200	50	-136.94		2605	6/5/2017	6/2/2017
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1026	OL	40111200	6/21/2017	2017	6	ZI	9200070817	50	-1.28		2602	6/21/2017	6/20/2017
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1026	OL	40111200	6/21/2017	2017	6	ZI	9200070817	50	-1.59		2602	6/21/2017	6/20/2017
1026	OL	40111200	6/21/2017	2017	6	ZI	9200070817	50	-1.57		2602	6/21/2017	6/20/2017
1026	OL	40111200	6/21/2017	2017	6	ZI	9200070817	50	-1.68		2602	6/21/2017	6/20/2017
1026	OL	40111200	6/21/2017	2017	6	ZI	9200070817	50	-1.69		2602	6/21/2017	6/20/2017
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1026	OL	40111200	6/21/2017	2017	6	ZI	9200070817	50	-0.86		2602	6/21/2017	6/20/2017
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1026	OL	40111200	6/22/2017	2017	6	ZI	9200070861	50	-1.63		2602	6/21/2017	6/21/2017
1026	OL	40111200	6/22/2017	2017	6	ZI	9200070861	50	-1.88		2605	6/21/2017	6/21/2017
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1026	OL	40111200	6/1/2017	2017	6	ZJ	9200070171	40	1.55		2602	6/1/2017	6/1/2017
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1026	OL	40111200	6/27/2017	2017	6	ZJ	9200071008	50	-15.20		2602	6/27/2017	6/26/2017
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1026	OL	40111200	6/27/2017	2017	6	ZJ	9200071008	40	6.73		2602	6/27/2017	6/26/2017
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1026	OL	40111200	6/27/2017	2017	6	ZJ	9200071008	50	-19.20		2602	6/27/2017	6/26/2017
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1026	OL	40111200	6/27/2017	2017	6	ZJ	9200071008	40	1.22		2602	6/27/2017	6/26/2017
1026	OL	40111200	6/27/2017	2017	6	ZJ	9200071008	40	1.53		2602	6/27/2017	6/26/2017
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1026	OL	40111200	6/23/2017	2017	6	ZJ	9200070958	40	1.45		2602	6/23/2017	6/23/2017
1026	OL	40111200	6/23/2017	2017	6	ZJ	9200070958	40	1.95		2602	6/23/2017	6/23/2017
1026	OL	40111200	6/23/2017	2017	6	ZJ	9200070958	40	17.02		2602	6/23/2017	6/23/2017
1026	OL	40111200	6/23/2017	2017	6	ZJ	9200070958	40	2.00		2602	6/23/2017	6/23/2017
1026	OL	40111200	6/23/2017	2017	6	ZJ	9200070958	40	1.90		2602	6/23/2017	6/23/2017
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1026	OL	40111200	6/23/2017	2017	6	ZJ	9200070958	40	2.50		2602	6/23/2017	6/23/2017
1026	OL	40111200	6/23/2017	2017	6	ZJ	9200070958	40	7.15		2602	6/23/2017	6/23/2017
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1026	OL	40111200	6/23/2017	2017	6	ZJ	9200070958	40	0.55		2602	6/23/2017	6/23/2017
1026	OL	40111200	6/23/2017	2017	6	ZJ	9200070958	40	5.28		2602	6/23/2017	6/23/2017
1026	OL	40111200	6/23/2017	2017	6	ZJ	9200070958	40	15.44		2602	6/23/2017	6/23/2017
1026	OL	40111200	6/23/2017	2017	6	ZJ	9200070958	40	0.17		2602	6/23/2017	6/23/2017
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1026	OL	40111200	6/23/2017	2017	6	ZJ	9200070958	40	2.18		2602	6/23/2017	6/23/2017
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1026	OL	40111200	6/23/2017	2017	6	ZJ	9200070958	40	1.89		2602	6/23/2017	6/23/2017
1026	OL	40111200	6/23/2017	2017	6	ZJ	9200070958	40	0.17		2602	6/23/2017	6/23/2017
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1026	OL	40111200	6/23/2017	2017	6	ZJ	9200070958	40	1.73		2602	6/23/2017	6/23/2017
1026	OL	40111200	6/23/2017	2017	6	ZJ	9200070958	40	0.58		2602	6/23/2017	6/23/2017
1026	OL	40111200	6/23/2017	2017	6	ZJ	9200070958	40	2.16		2602	6/23/2017	6/23/2017
1026	OL	40111200	6/23/2017	2017	6	ZJ	9200070958	40	7.18		2602	6/23/2017	6/23/2017
1026	OL	40111200	6/23/2017	2017	6	ZJ	9200070958	40	1.69		2602	6/23/2017	6/23/2017
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1026	OL	40111200	6/23/2017	2017	6	ZJ	9200070958	40	1.69		2602	6/23/2017	6/23/2017
1026	OL	40111200	6/23/2017	2017	6	ZJ	9200070958	40	1.26		2602	6/23/2017	6/23/2017
1026	OL	40111200	6/23/2017	2017	6	ZJ	9200070958	40	2.34		2602	6/23/2017	6/23/2017
1026	OL	40111200	6/23/2017	2017	6	ZJ	9200070958	40	0.17		2602	6/23/2017	6/23/2017
1026	OL	40111200	6/15/2017	2017	6	ZJ	9200070661	50	-1.47		2602	6/15/2017	6/15/2017
1026	OL	40111200	6/15/2017	2017	6	ZJ	9200070661	50	-2.02		2602	6/15/2017	6/15/2017
1026	OL	40111200	6/15/2017	2017	6	ZJ	9200070661	50	-1.37		2602	6/15/2017	6/15/2017
1026	OL	40111200	6/15/2017	2017	6	ZJ	9200070661	50	-3.27		2602	6/15/2017	6/15/2017
1026	OL	40111200	6/15/2017	2017	6	ZJ	9200070661	50	-6.22		2602	6/15/2017	6/15/2017
1026	OL	40111200	6/15/2017	2017	6	ZJ	9200070661	40	4.58		2602	6/15/2017	6/15/2017
1026	OL	40111200	6/15/2017	2017	6	ZJ	9200070661	50	-0.12		2602	6/15/2017	6/15/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	6/2/2017	2017	6	ZJ	9200070175	50	-3.27		2602	6/1/2017	6/1/2017
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1026	OL	40111200	6/2/2017	2017	6	ZJ	9200070175	50	-1.95		2602	6/1/2017	6/1/2017
1026	OL	40111200	6/2/2017	2017	6	ZJ	9200070175	50	-34.49		2602	6/1/2017	6/1/2017
1026	OL	40111200	6/2/2017	2017	6	ZJ	9200070175	50	-4.73		2602	6/1/2017	6/1/2017
1026	OL	40111200	6/2/2017	2017	6	ZJ	9200070175	50	-11.14		2602	6/1/2017	6/1/2017
1026	OL	40111200	6/2/2017	2017	6	ZJ	9200070212	40	2.02		2602	6/1/2017	6/2/2017
1026	OL	40111200	6/1/2017	2017	6	ZJ	9200071214	40	2.69		2602	6/1/2017	6/30/2017
1026	OL	40111200	6/1/2017	2017	6	ZJ	9200070797	40	2.06		2602	6/1/2017	6/20/2017
1026	OL	40111200	6/28/2017	2017	6	ZJ	9200071037	50	-1,708.92		2602	6/28/2017	6/27/2017
1026	OL	40111200	6/28/2017	2017	6	ZJ	9200071037	50	-3.26		2605	6/28/2017	6/27/2017
1026	OL	40111200	6/28/2017	2017	6	ZJ	9200071037	50	-0.96		2602	6/28/2017	6/27/2017
1026	OL	40111200	6/28/2017	2017	6	ZJ	9200071037	50	-2.61		2605	6/28/2017	6/27/2017
1026	OL	40111200	6/28/2017	2017	6	ZJ	9200071037	50	-467.21		2602	6/28/2017	6/27/2017
1026	OL	40111200	6/28/2017	2017	6	ZJ	9200071037	50	-3.26		2605	6/28/2017	6/27/2017
1026	OL	40111200	6/28/2017	2017	6	ZJ	9200071037	40	2.95		2602	6/28/2017	6/27/2017
1026	OL	40111200	6/28/2017	2017	6	ZJ	9200071037	50	-2.59		2605	6/28/2017	6/27/2017
1026	OL	40111200	6/28/2017	2017	6	ZJ	9200071037	40	0.74		2602	6/28/2017	6/27/2017
1026	OL	40111200	6/28/2017	2017	6	ZJ	9200071037	50	-2.98		2605	6/28/2017	6/27/2017
1026	OL	40111200	6/28/2017	2017	6	ZJ	9200071037	50	-15.70		2605	6/28/2017	6/27/2017
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1026	OL	40111200	6/28/2017	2017	6	ZJ	9200071037	40	2.95		2602	6/28/2017	6/27/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	6/14/2017	2017	6	ZJ	9200070554	40	10.35		2602	6/13/2017	6/14/2017
1026	OL	40111200	6/14/2017	2017	6	ZJ	9200070554	40	1.95		2602	6/13/2017	6/14/2017
1026	OL	40111200	6/14/2017	2017	6	ZJ	9200070554	40	8.55		2602	6/13/2017	6/14/2017
1026	OL	40111200	6/13/2017	2017	6	ZJ	9200070557	50	-2.06		2602	6/13/2017	6/14/2017
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1026	OL	40111200	6/13/2017	2017	6	ZJ	9200070557	50	-21.85		2602	6/13/2017	6/14/2017
1026	OL	40111200	6/13/2017	2017	6	ZJ	9200070557	50	-2.35		2602	6/13/2017	6/14/2017
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1026	OL	40111200	6/14/2017	2017	6	ZJ	9200070558	50	-11.19		2602	6/13/2017	6/14/2017
1026	OL	40111200	6/14/2017	2017	6	ZJ	9200070558	50	-4.45		2602	6/13/2017	6/14/2017
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1026	OL	40111200	6/14/2017	2017	6	ZJ	9200070558	50	-1.58		2602	6/13/2017	6/14/2017
1026	OL	40111200	6/14/2017	2017	6	ZJ	9200070558	50	-6.47		2602	6/13/2017	6/14/2017
1026	OL	40111200	6/14/2017	2017	6	ZJ	9200070558	50	-21.91		2602	6/13/2017	6/14/2017
1026	OL	40111200	6/14/2017	2017	6	ZJ	9200070558	50	-29.85		2602	6/13/2017	6/14/2017
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1026	OL	40111200	6/14/2017	2017	6	ZJ	9200070558	50	-1.02		2602	6/13/2017	6/14/2017
1026	OL	40111200	6/14/2017	2017	6	ZJ	9200070558	50	-2.69		2602	6/13/2017	6/14/2017
1026	OL	40111200	6/14/2017	2017	6	ZJ	9200070558	50	-3.26		2605	6/13/2017	6/14/2017
1026	OL	40111200	6/14/2017	2017	6	ZJ	9200070558	50	-2.44		2602	6/13/2017	6/14/2017
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1026	OL	40111200	6/14/2017	2017	6	ZJ	9200070558	50	-2.06		2602	6/13/2017	6/14/2017
1026	OL	40111200	6/14/2017	2017	6	ZJ	9200070558	50	-32.40		2602	6/13/2017	6/14/2017
1026	OL	40111200	6/14/2017	2017	6	ZJ	9200070558	50	-3.27		2602	6/13/2017	6/14/2017
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1026	OL	40111200	6/14/2017	2017	6	ZJ	9200070558	50	-2.49		2602	6/13/2017	6/14/2017
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1026	OL	40111200	6/29/2017	2017	6	ZJ	9200071100	50	-0.51		2602	6/29/2017	6/28/2017
1026	OL	40111200	6/29/2017	2017	6	ZJ	9200071100	40	3.65		2602	6/29/2017	6/28/2017
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1026	OL	40111200	6/29/2017	2017	6	ZJ	9200071100	40	0.74		2602	6/29/2017	6/28/2017
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1026	OL	40111200	6/29/2017	2017	6	ZJ	9200071168	40	1.94		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/29/2017	2017	6	ZJ	9200071168	40	6.22		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/29/2017	2017	6	ZJ	9200071168	40	12.44		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/29/2017	2017	6	ZJ	9200071168	40	3.98		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/29/2017	2017	6	ZJ	9200071168	40	16.19		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/29/2017	2017	6	ZJ	9200071174	50	-1.45		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/29/2017	2017	6	ZJ	9200071174	40	53.37		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/29/2017	2017	6	ZJ	9200071174	50	-1.95		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071175	50	-4.45		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071175	50	-4.45		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071175	50	-2.02		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071175	50	-7.14		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071175	50	-4.45		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071175	50	-3.94		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071175	50	-11.10		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071175	50	-1.49		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071175	50	-1.99		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071175	50	-1.99		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071175	50	-1.45		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071175	50	-1.56		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071175	50	-1.67		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071175	50	-0.45		2602	6/29/2017	6/29/2017
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1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071175	50	-256.34		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071175	50	-24.23		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071175	50	-1.94		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071175	50	-1.47		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071175	50	-2.47		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071175	50	-9.61		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071175	50	-35.82		2602	6/29/2017	6/29/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071157	50	-5.73		2605	6/30/2017	6/29/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071157	50	-189.33		2602	6/30/2017	6/29/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071157	40	8.82		2602	6/30/2017	6/29/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071157	40	14.08		2602	6/30/2017	6/29/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071157	50	-7,298.78		2602	6/30/2017	6/29/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071157	50	-27.81		2602	6/30/2017	6/29/2017
1026													

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071222	40	3.27		2602	6/30/2017	6/30/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071222	40	3.27		2602	6/30/2017	6/30/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071222	40	2.69		2602	6/30/2017	6/30/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071222	40	3.86		2602	6/30/2017	6/30/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071222	40	6.22		2602	6/30/2017	6/30/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071222	40	3.42		2602	6/30/2017	6/30/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071222	40	25.10		2602	6/30/2017	6/30/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071226	50	-2.24		2605	6/30/2017	6/30/2017
1026	OL	40111200	6/30/2017	2017	6	ZJ	9200071226	50	-2.08		2602	6/30/2017	6/30/2017
1026	OL	40111200	6/8/2017	2017	6	ZJ	9200071058	40	5.75		2602	6/8/2017	6/27/2017
1026	OL	40111200	6/8/2017	2017	6	ZJ	9200071217	40	6.81		2602	6/8/2017	6/30/2017
1026	OL	40111200	6/8/2017	2017	6	ZJ	9200070398	40	0.18		2602	6/8/2017	6/8/2017
1026	OL	40111200	6/8/2017	2017	6	ZJ	9200070399	40	1.00		2602	6/8/2017	6/8/2017
1026	OL	40111200	6/8/2017	2017	6	ZJ	9200070415	40	0.56		2602	6/8/2017	6/8/2017
1026	OL	40111200	6/8/2017	2017	6	ZJ	9200070416	40	2.02		2602	6/8/2017	6/8/2017
1026	OL	40111200	6/8/2017	2017	6	ZJ	9200070416	40	1.54		2602	6/8/2017	6/8/2017
1026	OL	40111200	6/8/2017	2017	6	ZJ	9200070416	40	4.45		2602	6/8/2017	6/8/2017
1026	OL	40111200	6/8/2017	2017	6	ZJ	9200070416	40	3.86		2602	6/8/2017	6/8/2017
1026	OL	40111200	6/8/2017	2017	6	ZJ	9200070416	40	12.12		2602	6/8/2017	6/8/2017
1026	OL	40111200	6/8/2017	2017	6	ZJ	9200070416	40	9.16		2602	6/8/2017	6/8/2017
1026	OL	40111200	6/8/2017	2017	6	ZJ	9200070416	40	29.55		2602	6/8/2017	6/8/2017
1026	OL	40111200	6/8/2017	2017	6	ZJ	9200071102	40	2.06		2602	6/8/2017	6/28/2017
1026	OL	40111200	6/14/2017	2017	6	ZJ	9200070536	50	-63.12		2602	6/14/2017	6/14/2017
1026	OL	40111200	6/14/2017	2017	6	ZJ	9200070536	50	-69.01		2602	6/14/2017	6/14/2017
1026	OL	40111200	6/14/2017	2017	6	ZJ	9200070536	40	0.74		2602	6/14/2017	6/14/2017
1026	OL	40111200	6/14/2017	2017	6	ZJ	9200070536	50	-1.95		2602	6/14/2017	6/14/2017
1026	OL	40111200	6/14/2017	2017	6	ZJ	9200070542	50	-6.27		2602	6/14/2017	6/14/2017
1026	OL	40111200	6/14/2017	2017	6	ZJ	9200070542	50	-419.46		2602	6/14/2017	6/14/

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	6/14/2017	2017	6	ZI	9200070777	40	6.92		2602	6/14/2017	6/20/2017
1026	OL	40111200	6/15/2017	2017	6	ZI	9200070778	40	3.27		2602	6/14/2017	6/20/2017
1026	OL	40111200	6/15/2017	2017	6	ZI	9200070778	40	2.69		2602	6/14/2017	6/20/2017
1026	OL	40111200	6/14/2017	2017	6	ZI	9200070782	40	23.92		2602	6/14/2017	6/20/2017
1026	OL	40111200	6/14/2017	2017	6	ZI	9200071038	40	1.80		2602	6/14/2017	6/27/2017
1026	OL	40111200	6/14/2017	2017	6	ZI	9200071163	40	0.32		2602	6/14/2017	6/29/2017
1026	OL	40111200	6/14/2017	2017	6	ZI	9200071163	40	10.44		2602	6/14/2017	6/29/2017
1026	OL	40111200	6/14/2017	2017	6	ZI	9200071209	40	2.69		2602	6/14/2017	6/30/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070157	50	-2.86		2605	6/2/2017	6/1/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070157	40	30.84		2602	6/2/2017	6/1/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070157	50	-1.57		2602	6/2/2017	6/1/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070157	50	-1.47		2602	6/2/2017	6/1/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070157	50	-3,141.83		2605	6/2/2017	6/1/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070157	50	-721.87		2602	6/2/2017	6/1/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070157	40	4.47		2602	6/2/2017	6/1/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070157	50	-1.47		2602	6/2/2017	6/1/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070157	50	-8,900.80		2602	6/2/2017	6/1/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070157	40	2.05		2602	6/2/2017	6/1/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070157	50	-51.28		2602	6/2/2017	6/1/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070157	40	1.30		2602	6/2/2017	6/1/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070157	50	-50.41		2602	6/2/2017	6/1/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070157	50	-1.45		2602	6/2/2017	6/1/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070157	50	-1.78		2602	6/2/2017	6/1/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070157	50	-1.55		2602	6/2/2017	6/1/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070157	40	0.39		2602	6/2/2017	6/1/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070157	50	-1.53		2602	6/2/2017	6/1/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070211	40	2.01		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070213	40	10.44		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070213	40	1.17		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070213	40	79.85		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070213	40	9.07		2605	6/2/2017	6/2/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070213	40	2.10		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070213	40	21.03		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070213	40	2.10		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070213	40	4.16		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070213	40	1.63		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070213	40	5.04		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070213	40	32.52		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070213	40	1.62		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070213	40	0.87		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070213	40	7.99		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070213	40	2.39		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070214	40	67.07		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070214	40	2.39		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070214	40	40.75		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070214	40	6.26		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070214	40	5.70		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070214	40	2.10		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070214	40	4.75		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070216	50	-1.64		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/3/2017	2017	6	ZI	9200070217	50	-1.95		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/3/2017	2017	6	ZI	9200070217	50	-0.13		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/3/2017	2017	6	ZI	9200070217	50	-28.05		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/3/2017	2017	6	ZI	9200070217	50	-1.95		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/4/2017	2017	6	ZI	9200070218	50	-1.99		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/4/2017	2017	6	ZI	9200070218	50	-0.18		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-1.57		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-32.77		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-6.30		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-1.57		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-0.89		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-56.28		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-1.57		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-2.02		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-0.39		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-3.76		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-94.24		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-4.62		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-13.08		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-1.49		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-2.03		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-7.99		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-13.70		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-1.33		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-1.95		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-13.77		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-3.95		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-3.26		2605	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-1.65		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-1.00		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-12.68		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-2.17		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-3.26		2605	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-0.83		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-1.57		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-2.10		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/5/2017	2017	6	ZI	9200070219	50	-2.10		2602	6/2/2017	6/2/2017
1026	OL	40111200	6/2/2017	2017	6	ZI	9200070798	40	19.16		2602	6/2/2017	6/20/2017
1026	OL	40111200	6/5										

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	6/5/2017	2017	6	ZJ	9200071110	40	2.24		2602	6/5/2017	6/28/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	6/21/2017	2017	6	ZI	9200070860	50	-2.06		2602	6/21/2017	6/21/2017
1026	OL	40111200	6/21/2017	2017	6	ZI	9200070860	50	-2.10		2602	6/21/2017	6/21/2017
1026	OL	40111200	6/6/2017	2017	6	ZI	9200071057	40	4.56		2602	6/6/2017	6/27/2017
1026	OL	40111200	6/21/2017	2017	6	ZI	9200071061	40	10.35		2602	6/21/2017	6/27/2017
1026	OL	40111200	6/21/2017	2017	6	ZI	9200071104	40	0.55		2602	6/21/2017	6/28/2017
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1026	OL	40111200	6/19/2017	2017	6	ZI	9200070780	40	2.02		2602	6/19/2017	6/20/2017
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1026	OL	40111200	6/19/2017	2017	6	ZI	9200070790	40	44.76		2602	6/19/2017	6/20/2017
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1026	OL	40111200	6/26/2017	2017	6	ZI	9200071062	40	22.15		2602	6/26/2017	6/27/2017
1026	OL	40111200	6/26/2017	2017	6	ZI	9200071073	50	-27.22		2602	6/26/2017	6/27/2017
1026	OL	40111200	6/27/2017	2017	6	ZI	9200071074	50	-44.37		2602	6/26/2017	6/27/2017
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1026	OL	40111200	6/15/2017	2017	6	ZI	9200070592	50	-7.32		2602	6/15/2017	6/14/2017
1026	OL	40111200	6/15/2017	2017	6	ZI	9200070592	50	-0.65		2602	6/15/2017	6/14/2017
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1026	OL	40111200	6/7/2017	2017	6	ZI	9200070781	40	1.99		2602	6/7/2017	6/20/2017
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1026	OL	40111200	6/16/2017	2017	6	ZI	9200070647	50	-185.11		2602	6/16/2017	6/15/2017
1026	OL	40111200	6/16/2017	2017	6	ZI	9200070647	50	-6,100.26		2602	6/16/2017	6/15/2017
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1026	OL	40111200	7/11/2017	2017	7	ZI	9200072025	40	1.06		2602	7/11/2017	7/25/2017
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1026	OL	40111200	7/25/2017	2017	7	ZI	9200072027	40	18.93		2602	7/25/2017	7/25/2017
1026	OL	40111200	7/25/2017	2017	7	ZI	9200072027	40	20.52		2602	7/25/2017	7/25/2017
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1026	OL	40111200	7/7/2017	2017	7	ZI	9200071373	40	5,847.94		2605	7/6/2017	7/6/2017
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1026	OL	40111200	7/10/2017	2017	7	ZI	9200071501	40	5.04		2602	7/10/2017	7/11/2017
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1026	OL	40111200	7/6/2017	2017	7	ZJ	9200071314	40	0.05		2602	7/5/2017	7/5/2017
1026	OL	40111200	7/6/2017	2017	7	ZJ	9200071314	40	0.58		2602	7/5/2017	7/5/2017
1026	OL	40111200	7/6/2017	2017	7	ZJ	9200071314	40	1.45		2602	7/5/2017	7/5/2017
1026	OL	40111200	7/6/2017	2017	7	ZJ	9200071314	40	2.02		2602	7/5/2017	7/5/2017
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1026	OL	40111200	7/6/2017	2017	7	ZJ	9200071314	40	3.27		2602	7/5/2017	7/5/2017
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1026	OL	40111200	7/18/2017	2017	7	ZJ	9200071762	40	3.86		2602	7/18/2017	7/18/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	7/5/2017	2017	7	ZI	9200071748	40	4.45		2602	7/5/2017	7/18/2017
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1026	OL	40111200	7/26/2017	2017	7	ZI	9200072083	40	7.13		2602	7/26/2017	7/26/2017
1026	OL	40111200	7/26/2017	2017	7	ZI	9200072083	40	2.49		2602	7/26/2017	7/26/2017
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1026	OL	40111200	7/10/2017	2017	7	ZI	9200071416	40	16.52		2602	7/10/2017	7/7/2017
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1026	OL	40111200	7/10/2017	2017	7	ZI	9200071416	40	21.24		2602	7/10/2017	7/7/2017
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1026	OL	40111200	7/7/2017	2017	7	ZI	9200071365	40	0.15		2602	7/7/2017	7/6/2017
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1026	OL	40111200	7/7/2017	2017	7	ZI	9200071365	50	-2.02		2602	7/7/2017	7/6/2017
1026	OL	40111200	7/7/2017	2017	7	ZI	9200071365	50	-1.52		2602	7/7/2017	7/6/2017
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1026	OL	40111200	7/7/2017	2017	7	ZI	9200071365	50	-109.13		2605	7/7/2017	7/6/2017
1026	OL	40111200	7/7/2017	2017	7	ZI	9200071365	50	-8,126.42		2602	7/7/2017	7/6/2017
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1026	OL	40111200	7/21/2017	2017	7	ZI	9200071864	50	-4.45		2602	7/21/2017	7/20/2017
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1026	OL												

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1026	OL	40111200	7/11/2017	2017	7	ZJ	9200071523	40	8.61		2602	7/11/2017	7/11/2017
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1026	OL	40111200	7/6/2017	2017	7	ZJ	9200071369	40	1.57		2602	7/6/2017	7/6/2017
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1026	OL	40111200	7/6/2017	2017	7	ZJ	9200071369	40	1.35		2602	7/6/2017	7/6/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	7/6/2017	2017	7	ZJ	9200071323	50	-4.01		2602	7/5/2017	7/5/2017
1026	OL	40111200	7/6/2017	2017	7	ZJ	9200071323	50	-23.95		2602	7/5/2017	7/5/2017
1026	OL	40111200	7/6/2017	2017	7	ZJ	9200071323	50	-12.00		2602	7/5/2017	7/5/2017
1026	OL	40111200	7/7/2017	2017	7	ZJ	9200071413	40	10.28		2602	7/7/2017	7/7/2017
1026	OL	40111200	7/7/2017	2017	7	ZJ	9200071413	40	2.69		2602	7/7/2017	7/7/2017
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1026	OL	40111200	7/7/2017	2017	7	ZJ	9200071413	40	3.99		2602	7/7/2017	7/7/2017
1026	OL	40111200	7/7/2017	2017	7	ZJ	9200071413	40	3.27		2602	7/7/2017	7/7/2017
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1026	OL	40111200	7/7/2017	2017	7	ZJ	9200071413	40	3.05		2602	7/7/2017	7/7/2017
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1026	OL	40111200	7/7/2017	2017	7	ZJ	9200071413	40	2.69		2602	7/7/2017	7/7/2017
1026	OL	40111200	7/7/2017	2017	7	ZJ	9200071413	40	2.17		2602	7/7/2017	7/7/2017
1026	OL	40111200	7/7/2017	2017	7	ZJ	9200071413	40	2.90		2602	7/7/2017	7/7/2017
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1026	OL	40111200	7/7/2017	2017	7	ZJ	9200071413	40	1.47		2602	7/7/2017	7/7/2017
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1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-1.61		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-1.45		2602	7/20/2017	7/19/2017
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1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-0.80		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-14,318.52		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-0.80		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-1,793.19		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-98.03		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-0.80		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-265.42		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-0.80		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-1.45		2602	7/20/2017	7/19/2017
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1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-8.59		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-0.11		2602	7/20/2017	7/19/2017
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1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	40	14.26		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-1.95		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-0.26		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-0.26		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-1.95		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-59.72		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-1.95		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-11.77		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-0.26		2602	7/20/2017	7/19/2017
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1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-0.16		2602	7/20/2017	7/19/2017
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1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-0.16		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-3.86		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-0.20		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-0.98		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-1.57		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-0.82		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-0.17		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-1.57		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-0.26		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071813	50	-1.95		2602	7/20/2017	7/19/2017
1026	OL	40111200	7/7/2017	2017	7	ZJ	9200071657	40	2.65		2602	7/7/2017	7/14/2017
1026	OL	40111200	7/10/2017	2017	7	ZJ	9200071658	40	5.39		2602	7/10/2017	7/14/2017
1026	OL	40111200	7/10/2017	2017	7	ZJ	9200071658	40	10.88		2602	7/10/2017	7/14/2017
1026	OL	40111200	7/11/2017	2017	7	ZJ	9200071659	40	2.63		2602	7/11/2017	7/14/2017
1026	OL	40111200	7/12/2017	2017	7	ZJ	9200071660	40	5.42		2602	7/12/2017	7/14/2017
1026	OL	40111200	7/14/2017	2017	7	ZJ	9200071661	40	1.95		2602	7/14/2017	7/14/2017
1026	OL	40111200	7/14/2017	2017	7	ZJ	9200071661	40	1.79		2602	7/14/2017	7/14/2017
1026	OL	40111200	7/14/2017	2017	7	ZJ	9200071661	40	5.64		2602	7/14/2017</	

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	7/14/2017	2017	7	ZJ	9200071661	40	3.32		2602	7/14/2017	7/14/2017
1026	OL	40111200	7/14/2017	2017	7	ZJ	9200071661	40	6.44		2602	7/14/2017	7/14/2017
1026	OL	40111200	7/14/2017	2017	7	ZJ	9200071661	40	10.89		2602	7/14/2017	7/14/2017
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1026	OL	40111200	7/7/2017	2017	7	ZJ	9200071867	40	1.65		2602	7/7/2017	7/20/2017
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1026	OL	40111200	7/14/2017	2017	7	ZJ	9200071628	50	-3.86		2602	7/13/2017	7/13/2017
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1026	OL	40111200	7/3/2017	2017	7	ZJ	9200071319	40	0.58		2602	7/3/2017	7/5/2017
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1026	OL	40111200	7/3/2017	2017	7	ZJ	9200071319	40	1.47		2602	7/3/2017	7/5/2017
1026	OL	40111200	7/3/2017	2017	7	ZJ	9200071319	40	0.53		2602	7/3/2017	7/5/2017
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1026	OL	40111200	7/3/2017	2017	7	ZJ	9200071319	40	1.48		2602	7/3/2017	7/5/2017
1026	OL	40111200	7/3/2017	2017	7	ZJ	9200071319	40	1.47		2602	7/3/2017	7/5/2017
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1026	OL	40111200	7/3/2017	2017	7	ZJ	9200071319	40	1.65		2602	7/3/2017	7/5/2017
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1026	OL	40111200	7/3/2017	2017	7	ZJ	9200071319	40	3.27		2602	7/3/2017	7/5/2017
1026	OL	40111200	7/3/2017	2017	7	ZJ	9200071319	40	4.08		2602	7/3/2017	7/5/2017
1026	OL	40111200	7/3/2017	2017	7	ZJ	9200071319	40	1.65		2602	7/3/2017	7/5/2017
1026	OL	40111200	7/3/2017	2017	7	ZJ	9200071319	40	0.05		2602	7/3/2017	7/5/2017
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1026	OL	40111200	7/5/2017	2017	7	ZJ	9200071307	40	1.95		2602	7/5/2017	7/5/2017
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1026	OL	40111200	7/5/2017	2017	7	ZJ	9200071307	40	1.95		2602	7/5/2017	7/5/2017
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1026	OL	40111200	7/5/2017	2017	7	ZJ	9200071307	40	1.74		2602	7/5/2017	7/5/2017
1026	OL	40111200	7/5/2017	2017	7	ZJ	9200071307	40	2.69		2602	7/5/2017	7/5/2017
1026	OL	40111200	7/5/2017	2017	7	ZJ	9200071307	40	0.96		2602	7/5/2017	7/5/2017
1026	OL	40111200	7/5/2017	2017	7	ZJ	9200071307	40	0.39		2602	7/5/2017	7/5/2017
1026	OL	40111200	7/12/2017	2017	7	ZJ	9200071492	40	11.07		2602	7/12/2017	7/11/2017
1026	OL	40111200	7/12/2017	2017	7	ZJ	9200071492	50	-8.92		2605	7/12/2017	7/11/2017
1026	OL	40111200	7/12/2017	2017	7	ZJ	9200071492	50	-11,172.53		2602	7/12/2017	7/11/2017
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1026	OL	40111200	7/25/2017	2017	7	ZJ	9200071969	40	4.54		2602	7/24/2017	7/24/2017
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1026	OL	40111200	7/11/2017	2017	7	ZJ	9200071527	50	-1.95		2602	7/10/2017	7/11/2017
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1026	OL	40111200	7/11/2017	2017	7	ZJ	9200071527	50	-2.77		2602	7/10/2017	7/11/2017
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1026	OL	40111200	7/11/2017	2017	7	ZJ	9200071527	50	-19.25		2602	7/10/2017	7/11/2017
1026	OL	40111200	7/11/2017	2017	7	ZJ	9200071527	50	-1.95		2602	7/10/2017	7/11/2017
1026	OL	40111200	7/11/2017	2017	7	ZJ	9200071527	50	-2.73		2602	7/10/2017	7/11/2017
1026	OL	40111200	7/11/2017	2017	7	ZJ	9200071527	50	-4.45		2602	7/10/2017	7/11/2017
1026	OL	40111200	7/11/2017	2017	7	ZJ	9200071527	50	-5.04		2602	7/10/2017	7/11/2017
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1026	OL	40111200	7/14/2017	2017	7	ZJ	9200071817	40	1.99		2602	7/14/2017	7/19/2017
1026	OL	40111200	7/19/2017	2017	7	ZJ	9200071818	40	1.50		2602	7/19/2017	7/19/2017
1026	OL	40111200	7/19/2017	2017	7	ZJ	9200071818	40	1.99		2602	7/19/2017	7/19/2017
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1026	OL	40111200	7/19/2017	2017	7	ZJ	9200071818	40	1.57		2602	7/19/2017	7/19/2017
1026	OL	40111200	7/19/2017	2017	7	ZJ	9200071818	40	1.48		2602	7/19/2017	7/19/2017
1026	OL	40111200	7/19/2017	2017	7	ZJ	9200071818	40	1.57		2602	7/19/2017	7/19/2017
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1026	OL	40111200	7/12/2017	2017	7	ZJ	9200071753	40	2.27		2602	7/12/2017	7/18/2017
1026	OL	40111200	7/24/2017	2017	7	ZJ	9200071912	50	-0.16		2602	7/24/2017	7/21/2017
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1026	OL	40111200	7/24/2017	2017	7	ZJ	9200071912	50	-1.47		2602	7/24/2017	7/21/2017
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1026	OL	40111200	7/24/2017	2017	7	ZJ	9200071912	50	-1.35		2602	7/24/2017	7/21/2017
1026	OL	40111200	7/24/2017	2017	7	ZJ	9200071912	50	-1.57		2602	7/24/2017	7/21/2017
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1026	OL	40111200	7/24/2017	2017	7	ZJ	9200071912	50	-0.20		2602	7/24/2017	7/21/2017
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1026	OL	40111200	7/24/2017	2017	7	ZJ	9200071912	50	-0.86		2602	7/24/2017	7/21/2017
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1026	OL	40111200	7/24/2017	2017	7	ZJ	9200071912	50	-0.83		2602	7/24/2017	7/21/2017
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1026	OL	40111200	7/24/2017										

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071878	40	5.96		2602	7/20/2017	7/20/2017
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1026	OL	40111200	7/3/2017	2017	7	ZJ	9200071327	50	-2.10		2602	7/3/2017	7/5/2017
1026	OL	40111200	7/3/2017	2017	7	ZJ	9200071327	50	-1.45		2602	7/3/2017	7/5/2017
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1026	OL	40111200	7/3/2017	2017	7	ZJ	9200071327	50	-1.45		2602	7/3/2017	7/5/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	7/7/2017	2017	7	ZJ	9200071377	50	-2.86		2605	7/6/2017	7/6/2017
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1026	OL	40111200	7/21/2017	2017	7	ZJ	9200071918	40	1.99		2602	7/21/2017	7/21/2017
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1026	OL	40111200	7/21/2017	2017	7	ZJ	9200071926	40	24.24		2602	7/21/2017	7/21/2017
1026	OL	40111200	7/21/2017	2017	7	ZJ	9200071926	40	41.42		2602	7/21/2017	7/21/2017
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1026	OL	40111200	7/20/2017	2017	7	ZJ	9200071831	50	-2.52		2602	7/19/2017	7/19/2017
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1026	OL	40111200	7/21/2017	2017	7	ZJ	9200071886	50	-1.60		2602	7/20/2017	7/20/2017
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1026	OL	40111200	7/21/2017	2017	7	ZJ	9200071886	50	-0.83		2602	7/20/2017	7/20/2017
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1026	OL	40111200	7/27/2017	2017	7	ZJ	9200072065	50	-52.53		2602	7/27/2017	7/26/2017
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1026	OL	40111200	7/3/2017	2017	7	ZJ	9200071227	50	-4.09		2602	6/30/2017	6/30/2017
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1026	OL	40111200	7/13/2017	2017	7	ZJ	9200071564	50	-17.40		2605	7/13/2017	7/12/2017
1026	OL	40111200	7/13/2017	2017	7	ZJ	9200071564	40	19.57		2602	7/13/2017	7/12/2017
1026	OL	40111200	7/13/2017	2017	7	ZJ	9200071564	50	-1.54		2602	7/13/2017	7/12/2017
1026	OL	40111200	7/13/2017	2017	7	ZJ	9200071564	40	4.30		2602	7/13/2017	7/12/2017
1026	OL	40111200	7/13/2017	2017	7	ZJ	9200071564	40	2.51		2602	7/13/2017	7/12/2017
1026	OL	40111200	7/13/2017	2017	7	ZJ	9200071564	50	-582.64		2602	7/13/2017	7/12/2017
1026	OL	40111200	7/13/2017	2017	7	ZJ	9200071564	50	-788.22		2602	7/13/2017	7/12/2017
1026	OL	40111200	7/13/2017	2017	7	ZJ	9200071564	50	-27.03		2602	7/13/2017	7/12/2017
1026	OL	40111200	7/13/2017	2017	7	ZJ	9200071564	40	14.82		2602	7/13/2017	7/12/2017
1026	OL	40111200	7/13/2017	2017	7	ZJ	9200071564	50	-129.49		2605	7/13/2017	7/12/2017
1026	OL	40111200	7/13/2017	2017	7	ZJ	9200071564	50	-0.56		2605	7/13/2017	7/12/2017
1026	OL	40111200	7/13/2017	2017	7	ZJ	9200071607	40	0.82		2602	7/13/2017	7/13/2017
1026	OL	40111200	7/13/2017	2017	7	ZJ	9200071613	40	1.95		2602	7/13/2017	7/13/2017
1026	OL	40111200	7/13/2017	2017	7	ZJ	9200071613	40	1.95		2602	7/13/2017	7/13/2017
1026	OL	40111200	7/13/2017	2017	7	ZJ	9200071613	40	1.95		2602	7/13/2017	7/13/2017
1026	OL	40111200	7/13/2017	2017	7	ZJ	9200071613	40	2.02		2602	7/13/2017	7/13/2017
1026	OL	40111200	7/13/2017	2017	7	ZJ	9200071613	40	1.47		2602	7/13/2017	7/13/2017
1026	OL	40111200	7/13/2017	2017	7	ZJ	9200071613	40	1.55		2602	7/13/2017	7/13/2017
1026	OL	40111200	7/13/2017	2017	7	ZJ	9200071613	40	1.47		2602	7/13/2017	7/13/2017
1026	OL	40111200	7/13/2017	2017	7	ZJ	9200071613	50	-0.39		2602	7/13/2017	7/13/2017
1026	OL	40111200	7/13/2017	2017	7	ZJ	9200071613	40	1.78		2602	7/13/2017	7/13/2017
1026	OL	40111200	7/13/2017	2017	7	ZJ	9200071613	40	1.45		2602	7/13/2017	7/13/2017
1026	OL	40111200	7/13/2017	2017	7	ZJ	9200071613	40	1.53		2602	7/13/2017	7/13/2017
1026	OL	40111200	7/13/2017	2017	7	ZJ	9200071613	40	1.57		2602	7/13/2017	7/13/2017
1026	OL	40111200	7/10/2017	2017	7	ZJ	9200071567	40	1.99		2602	7/10/2017	7/12/2017
1026	OL	40111200	7/5/2017	2017	7	ZJ	9200071272	50	-4.55		2602	7/5/2017	7/3/2017
1026	OL	40111200	7/5/2017	2017	7	ZJ	9200071272	40	2.17		2602	7/5/2017	7/3/2017
1026	OL	40111200	7/5/2017	2017	7	ZJ	9200071272	50	-37.58		2602	7/5/2017	7/3/2017
1026	OL	40111200	7/5/2017	2017	7	ZJ	9200071272	40	26.76		2602	7/5/2017	7/3/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	7/5/2017	2017	7	ZJ	9200071272	50	-2.06		2602	7/5/2017	7/3/2017
1026	OL	40111200	7/5/2017	2017	7	ZJ	9200071272	50	-42.71		2602	7/5/2017	7/3/2017
1026	OL	40111200	7/5/2017	2017	7	ZJ	9200071272	50	-1.63		2602	7/5/2017	7/3/2017
1026	OL	40111200	7/5/2017	2017	7	ZJ	9200071272	50	-61.85		2602	7/5/2017	7/3/2017
1026	OL	40111200	7/5/2017	2017	7	ZJ	9200071272	40	8.20		2602	7/5/2017	7/3/2017
1026	OL	40111200	7/5/2017	2017	7	ZJ	9200071272	50	-1.90		2602	7/5/2017	7/3/2017
1026	OL	40111200	7/5/2017	2017	7	ZJ	9200071272	50	-1.99		2602	7/5/2017	7/3/2017
1026	OL	40111200	7/5/2017	2017	7	ZJ	9200071272	50	-1.03		2602	7/5/2017	7/3/2017
1026	OL	40111200	7/5/2017	2017	7	ZJ	9200071272	50	-2.18		2602	7/5/2017	7/3/2017
1026	OL	40111200	7/5/2017	2017	7	ZJ	9200071272	50	-8.24		2602	7/5/2017	7/3/2017
1026	OL	40111200	7/5/2017	2017	7	ZJ	9200071272	50	-8,985.91		2602	7/5/2017	7/3/2017
1026	OL	40111200	7/6/2017	2017	7	ZJ	9200071570	40	10.67		2602	7/6/2017	7/12/2017
1026	OL	40111200	7/14/2017	2017	7	ZJ	9200071671	40	16.51		2602	7/14/2017	7/14/2017
1026	OL	40111200	7/14/2017	2017	7	ZJ	9200071671	50	-2.46		2602	7/14/2017	7/14/2017
1026	OL	40111200	7/14/2017	2017	7	ZJ	9200071671	50	-33.19		2602	7/14/2017	7/14/2017
1026	OL	40111200	7/14/2017	2017	7	ZJ	9200071671	50	-141.13		2602	7/14/2017	7/14/2017
1026	OL	40111200	7/14/2017	2017	7	ZJ	9200071671	50	-1.40		2602	7/14/2017	7/14/2017
1026	OL	40111200	7/16/2017	2017	7	ZJ	9200071672	50	-1.75		2602	7/14/2017	7/14/2017
1026	OL	40111200	7/16/2017	2017	7	ZJ	9200071672	50	-1.95		2602	7/14/2017	7/14/2017
1026	OL	40111200	7/16/2017	2017	7	ZJ	9200071672	50	-1.28		2602	7/14/2017	7/14/2017
1026	OL	40111200	7/16/2017	2017	7	ZJ	9200071672	50	-1.95		2602	7/14/2017	7/14/2017
1026	OL	40111200	7/16/2017	2017	7	ZJ	9200071672	50	-0.83		2602	7/14/2017	7/14/2017
1026	OL	40111200	7/16/2017	2017	7	ZJ	9200071672	50	-9.78		2602	7/14/2017	7/14/2017
1026	OL	40111200	7/16/2017	2017	7	ZJ	9200071672	50	-1.95		2602	7/14/2017	7/14/2017
1026	OL	40111200	7/16/2017	2017	7	ZJ	9200071672	50	-1.95		2602	7/14/2017	7/14/2017
1026	OL	40111200	7/16/2017	2017	7	ZJ	9200071672	50	-3.10		2602	7/14/2017	7/14/2017
1026	OL	40111200	7/16/2017	2017	7	ZJ	9200071672	50	-1.95		2602	7/14/2017	7/14/2

Company	C	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072130	50	-0.03		2602	7/28/2017	7/27/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072130	40	1.76		2602	7/28/2017	7/27/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072130	50	-7,788.13		2602	7/28/2017	7/27/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072130	50	-6,221.34		2602	7/28/2017	7/27/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072130	40	2.94		2602	7/28/2017	7/27/2017
1026		OL	40111200	7/19/2017	2017	7	ZJ	9200072137	40	2.79		2602	7/19/2017	7/27/2017
1026		OL	40111200	7/20/2017	2017	7	ZJ	9200072138	40	48.53		2602	7/20/2017	7/27/2017
1026		OL	40111200	7/25/2017	2017	7	ZJ	9200072139	40	12.71		2602	7/25/2017	7/27/2017
1026		OL	40111200	7/25/2017	2017	7	ZJ	9200072139	40	31.59		2602	7/25/2017	7/27/2017
1026		OL	40111200	7/27/2017	2017	7	ZJ	9200072140	40	6.22		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/27/2017	2017	7	ZJ	9200072140	40	4.21		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/27/2017	2017	7	ZJ	9200072140	40	7.99		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/27/2017	2017	7	ZJ	9200072140	40	5.51		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/27/2017	2017	7	ZJ	9200072140	40	4.54		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/27/2017	2017	7	ZJ	9200072140	40	2.04		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/27/2017	2017	7	ZJ	9200072140	40	10.95		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/27/2017	2017	7	ZJ	9200072140	40	16.26		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/27/2017	2017	7	ZJ	9200072140	40	2.10		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/27/2017	2017	7	ZJ	9200072140	40	18.61		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/27/2017	2017	7	ZJ	9200072140	40	8.37		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/27/2017	2017	7	ZJ	9200072140	40	58.84		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/27/2017	2017	7	ZJ	9200072143	50	-0.72		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/27/2017	2017	7	ZJ	9200072143	50	-0.96		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072144	50	-1.85		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072144	50	-1.57		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072144	50	-5.33		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072144	50	-1.95		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072144	50	-2.04		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072144	50	-36.32		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072144	50	-171.35		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072144	50	-2.10		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072144	50	-3.12		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072144	50	-2.69		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072144	50	-1.99		2602	7/27/2017	7/27/2017
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1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072144	50	-2.10		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072144	50	-11.03		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072144	50	-1.69		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072144	50	-2.00		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072144	50	-5.64		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072144	50	-4.86		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072144	50	-0.18		2602	7/27/2017	7/27/2017
1026		OL	40111200	7/7/2017	2017	7	ZJ	9200072157	40	5.04		2602	7/7/2017	7/28/2017
1026		OL	40111200	7/26/2017	2017	7	ZJ	9200072158	40	6.22		2602	7/26/2017	7/28/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072159	40	2.06		2602	7/28/2017	7/28/2017
1026		OL	40111200	7/31/2017	2017	7	ZJ	9200072164	50	-2,275.79		2602	7/31/2017	7/28/2017
1026		OL	40111200	7/31/2017	2017	7	ZJ	9200072164	50	-5.04		2602	7/31/2017	7/28/2017
1026		OL	40111200	7/31/2017	2017	7	ZJ	9200072164	50	-18.47		2602	7/31/2017	7/28/2017
1026		OL	40111200	7/31/2017	2017	7	ZJ	9200072164	50	-9.14		2602	7/31/2017	7/28/2017
1026		OL	40111200	7/31/2017	2017	7	ZJ	9200072164	50	-401.99		2602	7/31/2017	7/28/2017
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1026		OL	40111200	7/31/2017	2017	7	ZJ	9200072164	50	-5.64		2602	7/31/2017	7/28/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072181	40	0.78		2602	7/28/2017	7/28/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072181	40	13.30		2602	7/28/2017	7/28/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072181	40	9.76		2602	7/28/2017	7/28/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072181	40	52.17		2602	7/28/2017	7/28/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072181	40	9.76		2602	7/28/2017	7/28/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072181	40	49.02		2602	7/28/2017	7/28/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072183	50	-2.06		2602	7/28/2017	7/28/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072183	50	-1.13		2602	7/28/2017	7/28/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072183	40	106.40		2602	7/28/2017	7/28/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072183	50	-5.37		2602	7/28/2017	7/28/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072183	50	-1.35		2602	7/28/2017	7/28/2017
1026		OL	40111200	7/28/2017	2017	7	ZJ	9200072183	50	-0.78		2602	7/28/2017	7/28/2017
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1026		OL	40111200	7/29/2017	2017	7	ZJ	9200072184	50	-2.10		2602	7/28/2017	7/28/2017
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1026		OL	40111200	7/31/2017	2017	7	ZJ	9200072185	50	-5.64		2602	7/28/2017	7/28/2017
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1026		OL	40111200	7/31/2017	2017	7	ZJ	9200072185	50	-1.34		2602	7/28/2017	7/28/2017
1026		OL	40111200	7/31/2017	2017	7	ZJ	9200072185	50	-5.74		2602	7/28/2017	7/28/2017
1026		OL	40111200	7/31/2017	2017	7	ZJ	9200072185	50	-106.16		2602	7/28/2017	7/28/2017
1026		OL	40111200	7/31/2017	2017	7	ZJ	9200072185	50	-1.06		2602	7/28/2017	7/28/2017
1026		OL	40111200	7/31/2017	2017	7	ZJ	9200072185	50	-1.45		2602	7/28/2017	7/28/2017
1026		OL	40111200	7/31/2017	2017	7	ZJ	9200072185	50	-3.27		2602	7/28/2017	7/28/2017
1026		OL	40111200	7/31/2017	2017	7	ZJ	9200072185	50	-5.96		2602	7/28/2017	7/28/2017
1026		OL	40111200	7/31/2017	2017	7	ZJ	9200072185	50	-2.08		2602	7/28/2017	7/28/2017
1026		OL	40111200	7/31/2017	2017	7	ZJ	9200072185	50	-13.69		2602	7/28/2017	7/28/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	7/31/2017	2017	7	ZI	9200072185	50	-3.57		2602	7/28/2017	7/28/2017
1026	OL	40111200	7/31/2017	2017	7	ZI	9200072185	50	-1.57		2602	7/28/2017	7/28/2017
1026	OL	40111200	7/31/2017	2017	7	ZI	9200072185	50	-7.73		2602	7/28/2017	7/28/2017
1026	OL	40111200	7/31/2017	2017	7	ZI	9200072185	50	-5.28		2602	7/28/2017	7/28/2017
1026	OL	40111200	7/31/2017	2017	7	ZI	9200072185	50	-2.43		2602	7/28/2017	7/28/2017
1026	OL	40111200	7/31/2017	2017	7	ZI	9200072185	50	-10.58		2602	7/28/2017	7/28/2017
1026	OL	40111200	7/31/2017	2017	7	ZI	9200072185	50	-4.32		2602	7/28/2017	7/28/2017
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1026	OL	40111200	7/31/2017	2017	7	ZI	9200072185	50	-4.44		2602	7/28/2017	7/28/2017
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1026	OL	40111200	8/1/2017	2017	8	ZI	9200072281	40	2.02		2602	8/1/2017	8/1/2017
1026	OL	40111200	8/1/2017	2017	8	ZI	9200072281	40	6.81		2602	8/1/2017	8/1/2017
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1026	OL	40111200	8/1/2017	2017	8	ZI	9200072281	40	12.45		2602	8/1/2017	8/1/2017
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1026	OL	40111200	8/1/2017	2017	8	ZI	9200072283	50	-59.66		2602	8/1/2017	8/1/2017
1026	OL	40111200	8/2/2017	2017	8	ZI	9200072282	40	13.90		2602	8/1/2017	8/1/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	8/2/2017	2017	8	ZJ	9200072289	50	-2.02		2602	8/1/2017	8/1/2017
1026	OL	40111200	8/2/2017	2017	8	ZJ	9200072289	50	-5.04		2602	8/1/2017	8/1/2017
1026	OL	40111200	8/2/2017	2017	8	ZJ	9200072289	50	-1.06		2602	8/1/2017	8/1/2017
1026	OL	40111200	8/2/2017	2017	8	ZJ	9200072289	50	-11.52		2602	8/1/2017	8/1/2017
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1026	OL	40111200	8/2/2017	2017	8	ZJ	9200072289	50	-2.02		2602	8/1/2017	8/1/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	8/4/2017	2017	8	ZJ	9200072414	50	-11.07		2602	8/3/2017	8/3/2017
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1026	OL	40111200	8/4/2017	2017	8	ZJ	9200072414	50	-2.91		2602	8/3/2017	8/3/2017
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1026													

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	8/9/2017	2017	8	ZI	9200072599	50	-10.22		2605	8/9/2017	8/8/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	8/9/2017	2017	8	ZJ	9200072619	50	-11.11		2602	8/8/2017	8/8/2017
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1026	OL	40111200	8/9/2017	2017	8	ZJ	9200072619	50	-5.10		2602	8/8/2017	8/8/2017
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1026	OL	40111200	8/8/2017	2017	8	ZJ	9200072622	50	-3.86		2602	8/7/2017	8/8/2017
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1026	OL	40111200	8/9/2017	2017	8	ZJ	9200072697	40	40.78		2602	8/9/2017	8/9/2017
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1026	OL	40111200	8/9/2017	2017	8	ZJ	9200072703	40	21.82		2602	8/9/2017	8/9/2017
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1026	OL	40111200	8/10/2017	2017	8	ZJ	9200072704	50	-1.50		2602	8/9/2017	8/9/2017
1026	OL	40111200	8/10/2017	2017	8	ZJ	9200072704	50	-11.53		2602	8/9/2017	8/9/2017
1026	OL	40111200	8/10/2017	2017	8	ZJ	9200072704	50	-1.95		2602	8/9/2017	8/9/2017
1026	OL	40111200	8/10/2017	2017	8	ZJ	9200072704	50	-7.40		2602	8/9/2017	8/9/2017
1026	OL	40111200	8/10/2017	2017	8	ZJ	9200072704	50	-2.82		2602	8/9/2017	8/9/2017
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1026	OL	40111200	8/10/2017	2017	8	ZJ	9200072704	50	-1.63		2602	8/9/2017	8/9/2017
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1026	OL	40111200	8/10/2017	2017	8	ZJ	9200072704	50	-24.53		2602	8/9/2017	8/9/2017
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1026	OL	40111200	8/11/2017	2017	8	ZI	9200072746	40	5.97		2602	8/11/2017	8/10/2017
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1026	OL	40111200	8/10/2017	2017	8	ZI	9200072761	50	-3.27		2602	8/10/2017	8/11/2017
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1026	OL	40111200	8/11/2017	2017	8	ZI	9200072762	50	-9.82		2605	8/10/2017	8/11/2017
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1026	OL	40111200	8/11/2017	2017	8	ZI	9200072762	50	-200.95		2602	8/10/2017	8/11/2017
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1026	OL	40111200	8/14/2017	2017	8	ZI	9200072793	50	-3.26		2605	8/14/2017	8/11/2017
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1026	OL	40111200	8/14/2017	2017	8	ZI	9200072793	50	-53.71		2602	8/14/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZI	9200072793	50	-4.27		2602	8/14/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZI	9200072793	50	-0.13		2602	8/14/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZI	9200072793	50	-3.85		2605	8/14/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZI	9200072793	50	-40.60		2602	8/14/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZI	9200072793	50	-8,894.84		2602	8/14/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZI	9200072793	50	-3,507.37		2602	8/14/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZI	9200072793	50	-58.22		2602	8/14/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZI	9200072793	40	31.88		2602	8/14/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZI	9200072793	50	-82.01		2602	8/14/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZI	9200072793	50	-2.02		2602	8/14/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZI	9200072793	50	-4.41		2605	8/14/2017	8/11/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	8/11/2017	2017	8	ZJ	9200072800	50	-3.71		2602	8/11/2017	8/11/2017
1026	OL	40111200	8/11/2017	2017	8	ZJ	9200072800	40	24.52		2602	8/11/2017	8/11/2017
1026	OL	40111200	8/11/2017	2017	8	ZJ	9200072800	40	6.22		2602	8/11/2017	8/11/2017
1026	OL	40111200	8/11/2017	2017	8	ZJ	9200072800	40	2.86		2605	8/11/2017	8/11/2017
1026	OL	40111200	8/11/2017	2017	8	ZJ	9200072800	40	3.26		2605	8/11/2017	8/11/2017
1026	OL	40111200	8/11/2017	2017	8	ZJ	9200072800	40	42.17		2602	8/11/2017	8/11/2017
1026	OL	40111200	8/11/2017	2017	8	ZJ	9200072800	40	2.02		2602	8/11/2017	8/11/2017
1026	OL	40111200	8/11/2017	2017	8	ZJ	9200072800	40	2.10		2602	8/11/2017	8/11/2017
1026	OL	40111200	8/12/2017	2017	8	ZJ	9200072801	40	0.39		2602	8/12/2017	8/11/2017
1026	OL	40111200	8/11/2017	2017	8	ZJ	9200072808	50	-1.34		2602	8/11/2017	8/11/2017
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1026	OL	40111200	8/11/2017	2017	8	ZJ	9200072808	40	18.16		2602	8/11/2017	8/11/2017
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1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072809	50	-1.50		2602	8/11/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072809	50	-3.27		2602	8/11/2017	8/11/2017
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1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072809	50	-2.06		2602	8/11/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072809	50	-2.17		2602	8/11/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072809	50	-12.71		2602	8/11/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072809	50	-1.52		2602	8/11/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072809	50	-4.79		2602	8/11/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072809	50	-4.45		2602	8/11/2017	8/11/2017
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1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072809	40	3.09		2602	8/11/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072809	50	-20.20		2605	8/11/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072809	50	-7.99		2602	8/11/2017	8/11/2017
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1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072809	50	-3.26		2605	8/11/2017	8/11/2017
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1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072809	50	-3.26		2605	8/11/2017	8/11/2017
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1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072809	50	-1.47		2602	8/11/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072809	50	-7.45		2602	8/11/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072809	50	-2.63		2602	8/11/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072809	50	-1.47		2602	8/11/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072809	50	-2.16		2602	8/11/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072809	50	-27.83		2605	8/11/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072809	50	-1.41		2602	8/11/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072809	50	-0.80		2602	8/11/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072809	50	-0.39		2602	8/11/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072809	50	-22.74		2602	8/11/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072809	50	-2.10		2602	8/11/2017	8/11/2017
1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072809	50	-1.95		2602	8/11/2017	8/11/2017
1026	OL	40111200	8/11/2017	2017	8	ZJ	9200072842	40	1.99		2602	8/11/2017	8/14/2017
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1026	OL	40111200	8/15/2017	2017	8	ZJ	9200072848	50	-136.19		2602	8/15/2017	8/14/2017
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1026	OL	40111200	8/15/2017	2017	8	ZJ	9200072848	50	-4,772.32		2602	8/15/2017	8/14/2017
1026	OL	40111200	8/15/2017	2017	8	ZJ	9200072848	50	-9,176.02		2602	8/15/2017	8/14/2017
1026	OL	40111200	8/15/2017	2017	8	ZJ	9200072848	50	-0.37		2605	8/15/2017	8/14/2017
1026	OL	40111200	8/15/2017	2017	8	ZJ	9200072848	50	-1.95		2602	8/15/2017	8/14/2017
1026	OL	40111200	8/15/2017	2017	8	ZJ	9200072848	40	0.15		2602	8/15/2017	8/14/2017
1026	OL	40111200	8/15/2017	2017	8	ZJ	9200072848	50	-79.04		2602	8/15/2017	8/14/2017
1026	OL	40111200	8/15/2017	2017	8	ZJ	9200072848	50	-7.59		2605	8/15/2017	8/14/2017
1026	OL	40111200	8/15/2017	2017	8	ZJ	9200072848	50	-17.43		2602	8/15/2017	8/14/2017
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1026	OL	40111200	8/15/2017	2017	8	ZJ	9200072848	50	-38.12		2602	8/15/2017	8/14/2017
1026	OL	40111200	8/15/2017	2017	8	ZJ	9200072848	40	2.94		2602	8/15/2017	8/14/2017
1026	OL	40111200	8/15/2017	2017	8	ZJ	9200072870	40	1.10		2602	8/15/2017	8/15/2017
1026	OL	40111200	8/15/2017	2017	8	ZJ	9200072870	50	-21.82		2602	8/15/2017	8/15/2017
1026	OL	40111200	8/15/2017	2017	8	ZJ	9200072885	40	1.10		2602	8/15/2017	8/15/2017
1026	OL	40111200	8/15/2017	2017	8	ZJ	9200072888	40	1.60		2602	8/15/2017	8/15/2017
1026	OL	40111200	8/16/2017	2017	8	ZJ	9200072889	50	-110.67		2602	8/16/2017	8/15/2017
1026	OL	40111200	8/16/2017	2017	8	ZJ	9200072889	50	-1.50		2605	8/16/2017	8/15/2017
1026	OL	40111200	8/16/2017	2017	8	ZJ	9200072889	40	16.05		2602	8/16/2017	8/15/2017
1026	OL	40111200	8/16/2017	2017	8	ZJ	9200072889	50	-1.10		2602	8/16/2017	8/15/2017
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1026	OL	40111200	8/16/2017	2017	8	ZJ	9200072889	50	-1.76		2605	8/16/2017	8/15/2017
1026	OL	40111200	8/16/2017	2017	8	ZJ	9200072889	40	0.70		2602	8/16/2017	8/15/2017
1026	OL	40111200	8/9/2017	2017	8	ZJ	9200072890	40	1.95		2602	8/9/2017	8/15/2017
1026													

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072897	40	2.69	2602		8/14/2017	8/15/2017
1026	OL	40111200	8/2/2017	2017	8	ZJ	9200072899	40	32.78	2602		8/1/2017	8/15/2017
1026	OL	40111200	8/3/2017	2017	8	ZJ	9200072901	40	47.10	2602		8/3/2017	8/15/2017
1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072902	40	12.71	2602		8/14/2017	8/15/2017
1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072902	40	68.86	2602		8/14/2017	8/15/2017
1026	OL	40111200	8/14/2017	2017	8	ZJ	9200072902	40	3.26	2605		8/14/2017	8/15/2017
1026	OL	40111200	8/15/2017	2017	8	ZJ	9200072903	40	3.05	2602		8/14/2017	8/15/2017
1026	OL	40111200	8/15/2017	2017	8	ZJ	9200072903	40	1.45	2602		8/14/2017	8/15/2017
1026	OL	40111200	8/15/2017	2017	8	ZJ	9200072903	40	1.58	2602		8/14/2017	8/15/2017
1026	OL	40111200	8/15/2017	2017	8	ZJ	9200072903	40	6.81	2602		8/14/2017	8/15/2017
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1026	OL	40111200	8/15/2017	2017	8	ZJ	9200072903	40	3.56	2602		8/14/2017	8/15/2017
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1026	OL	40111200	8/15/2017	2017	8	ZJ	9200072923	50	-5.26	2602		8/14/2017	8/15/2017
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1026	OL	40111200	8/15										

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	401112											

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	8/17/2017	2017	8	ZJ	9200072968	50	-8.06		2602	8/16/2017	8/16/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200072968	50	-5.92		2602	8/16/2017	8/16/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200072968	50	-2.06		2602	8/16/2017	8/16/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200072968	50	-1.58		2602	8/16/2017	8/16/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200072968	50	-3.97		2602	8/16/2017	8/16/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200072968	50	-2.06		2602	8/16/2017	8/16/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200072968	50	-1.69		2602	8/16/2017	8/16/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200072968	50	-1.58		2602	8/16/2017	8/16/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200072968	50	-1.20		2602	8/16/2017	8/16/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200072968	50	-3.97		2602	8/16/2017	8/16/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200072968	50	-1.84		2602	8/16/2017	8/16/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200072968	50	-6.31		2602	8/16/2017	8/16/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200072968	50	-1.71		2602	8/16/2017	8/16/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200072968	50	-15.69		2602	8/16/2017	8/16/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200072968	50	-5.12		2605	8/16/2017	8/16/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200072968	50	-2.06		2602	8/16/2017	8/16/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200072968	50	-10.05		2602	8/16/2017	8/16/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200072968	50	-4.40		2602	8/16/2017	8/16/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200072968	50	-1.76		2605	8/16/2017	8/16/2017
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1026	OL	40111200	8/17/2017	2017	8	ZJ	9200072968	50	-7.18		2602	8/16/2017	8/16/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200072968	50	-11.77		2602	8/16/2017	8/16/2017
1026	OL	40111200	8/16/2017	2017	8	ZJ	9200073009	40	2.02		2602	8/16/2017	8/17/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073010	40	3.27		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073010	40	2.62		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073010	40	1.57		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073010	40	2.00		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073010	40	0.19		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073010	40	18.34		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073010	40	2.02		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073010	40	2.02		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073010	40	2.17		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073010	40	2.69		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073010	40	2.51		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073010	40	1.99		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073012	40	0.03		2602	8/18/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073012	50	-259.44		2602	8/18/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073012	50	-2,667.80		2602	8/18/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073012	40	2.84		2602	8/18/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073012	40	44.19		2602	8/18/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073012	50	-1.85		2605	8/18/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073012	40	0.29		2602	8/18/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073012	50	-14,330.08		2602	8/18/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073012	40	22.98		2602	8/18/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073012	50	-82.31		2602	8/18/2017	8/17/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073016	50	-1.45		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073016	50	-1.45		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073016	50	-1.45		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073016	50	-1.45		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073016	50	-0.80		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073016	50	-1.45		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073016	50	-1.45		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073016	50	-0.80		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073016	50	-1.44		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073016	50	-1.57		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073016	50	-1.39		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073016	50	-1.57		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073016	50	-0.81		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-1.53		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-2.10		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-2.69		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-3.27		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-2.03		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-4.04		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-11.84		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-24.83		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-2.10		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-1.95		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-3.27		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-2.06		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-2.69		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-22.94		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-1.97		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-4.45		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-0.57		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-3.90		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-3.86		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-1.95		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-2.01		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-9.61		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-15.24		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-2.11		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-3.90		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-13.02		2602	8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-7.84		2602	8/17/2017	8/17/2017
1026	OL	4011120											

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-1.28	2602		8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-6.81	2602		8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-2.17	2602		8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-1.46	2602		8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-0.65	2602		8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-2.10	2602		8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-7.87	2602		8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-2.02	2602		8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-1.99	2602		8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-1.47	2602		8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-1.99	2602		8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-5.30	2602		8/17/2017	8/17/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073017	50	-2.86	2602		8/17/2017	8/17/2017
1026	OL	40111200	8/1/2017	2017	8	ZJ	9200073022	40	3.27	2602		8/1/2017	8/18/2017
1026	OL	40111200	8/4/2017	2017	8	ZJ	9200073023	40	11.53	2602		8/4/2017	8/18/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	0.80	2602		8/17/2017	8/18/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	15.08	2602		8/17/2017	8/18/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	2.10	2602		8/17/2017	8/18/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	1.45	2602		8/17/2017	8/18/2017
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1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	2.10	2602		8/17/2017	8/18/2017
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1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	1.99	2602		8/17/2017	8/18/2017
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1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	2.69	2602		8/17/2017	8/18/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	6.81	2602		8/17/2017	8/18/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	3.27	2602		8/17/2017	8/18/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	7.59	2602		8/17/2017	8/18/2017
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1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	1.39	2602		8/17/2017	8/18/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	1.57	2602		8/17/2017	8/18/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	14.81	2602		8/17/2017	8/18/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	1.57	2602		8/17/2017	8/18/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	7.63	2602		8/17/2017	8/18/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	9.61	2602		8/17/2017	8/18/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	0.81	2602		8/17/2017	8/18/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	0.57	2602		8/17/2017	8/18/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	1.53	2602		8/17/2017	8/18/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	2.06	2602		8/17/2017	8/18/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	1.44	2602		8/17/2017	8/18/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	2.86	2602		8/17/2017	8/18/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	132.89	2602		8/17/2017	8/18/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	0.80	2602		8/17/2017	8/18/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	10.93	2602		8/17/2017	8/18/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	1.46	2602		8/17/2017	8/18/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	2.02	2602		8/17/2017	8/18/2017
1026	OL	40111200	8/17/2017	2017	8	ZJ	9200073026	40	1.95	2602		8/17/2017	8/18/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073027	40	2.10	2602		8/17/2017	8/18/2017
1026	OL	40111200	8/1/2017	2017	8	ZJ	9200073052	40	2.57	2602		8/1/2017	8/18/2017
1026	OL	40111200	8/4/2017	2017	8	ZJ	9200073053	40	0.57	2602		8/4/2017	8/18/2017
1026	OL	40111200	8/9/2017	2017	8	ZJ	9200073054	40	0.89	2602		8/9/2017	8/18/2017
1026	OL	40111200	8/16/2017	2017	8	ZJ	9200073057	40	46.78	2602		8/16/2017	8/18/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073058	40	3.27	2602		8/18/2017	8/18/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073058	40	3.27	2602		8/18/2017	8/18/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073058	40	1.55	2602		8/18/2017	8/18/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073058	40	3.97	2602		8/18/2017	8/18/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073058	40	2.06	2602		8/18/2017	8/18/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073058	40	2.02	2602		8/18/2017	8/18/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073058	40	2.02	2602		8/18/2017	8/18/2017
1026	OL	40111200	8/21/2017	2017	8	ZJ	9200073061	50	-1.95	2602		8/21/2017	8/18/2017
1026	OL	40111200	8/21/2017	2017	8	ZJ	9200073061	40	13.42	2602		8/21/2017	8/18/2017
1026	OL	40111200	8/21/2017	2017	8	ZJ	9200073061	50	-2.57	2602		8/21/2017	8/18/2017
1026	OL	40111200	8/21/2017	2017	8	ZJ	9200073061	50	-60.77	2602		8/21/2017	8/18/2017
1026	OL	40111200	8/21/2017	2017	8	ZJ	9200073061	40	8.85	2602		8/21/2017	8/18/2017
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1026	OL	40111200	8/21/2017	2017	8	ZJ	9200073061	50	-2.06	2602		8/21/2017	8/18/2017
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1026	OL	40111200	8/21/2017	2017	8	ZJ	9200073061	50	-4.42	2605		8/21/2017	8/18/2017
1026	OL	40111200	8/21/2017	2017	8	ZJ	9200073061	50	-2.02	2602		8/21/2017	8/18/2017
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1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073069	40	15.08	2602		8/18/2017	8/18/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073069	40	12.71	2602		8/18/2017	8/18/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073069	40	48.20	2602		8/18/2017	8/18/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073069	40	8.59	2602		8/18/2017	8/18/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073069	40	9.76	2602		8/18/2017	8/18/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	8/21/2017	2017	8	ZI	9200073074	50	-2.69		2602	8/18/2017	8/18/2017
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1026	OL	40111200	8/21/2017	2017	8	ZI	9200073074	50	-2.69		2602	8/18/2017	8/18/2017
1026	OL	40111200	8/21/2017	2017	8	ZI	9200073074	50	-12.71		2602	8/18/2017	8/18/2017
1026	OL	40111200	8/21/2017	2017	8	ZI	9200073074	50	-1.99		2602	8/18/2017	8/18/2017
1026	OL	40111200	8/21/2017	2017	8	ZI	9200073074	50	-13.08		2602	8/18/2017	8/18/2017
1026	OL	40111200	8/21/2017	2017	8	ZI	9200073074	50	-5.20		2605	8/18/2017	8/18/2017
1026	OL	40111200	8/21/2017	2017	8	ZI	9200073074	50	-27.03		2602	8/18/2017	8/18/2017
1026	OL	40111200	8/22/2017	2017	8	ZI	9200073115	50	-74.36		2602	8/22/2017	8/21/2017
1026	OL	40111200	8/22/2017	2017	8	ZI	9200073115	50	-167.68		2602	8/22/2017	8/21/2017
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1026	OL	40111200	8/22/2017	2017	8	ZI	9200073115	40	4.86		2602	8/22/2017	8/21/2017
1026	OL	40111200	8/22/2017	2017	8	ZI	9200073115	50	-14.88		2602	8/22/2017	8/21/2017
1026	OL	40111200	8/22/2017	2017	8	ZI	9200073115	40	16.62		2602	8/22/2017	8/21/2017
1026	OL	40111200	8/22/2017	2017	8	ZI	9200073115	50	-47.16		2602	8/22/2017	8/21/2017
1026	OL	40111200	8/22/2017	2017	8	ZI	9200073115	50	-1,349.83		2603	8/22/2017	8/21/2017
1026	OL	40111200	8/22/2017	2017	8	ZI	9200073115	50	-0.39		2602	8/22/2017	8/21/2017
1026	OL	40111200	8/22/2017	2017	8	ZI	9200073115	50	-0.26		2602	8/22/2017	8/21/2017
1026	OL	40111200	8/22/2017	2017	8	ZI	9200073115	50	-1.49		2602	8/22/2017	8/21/2017
1026	OL	40111200	8/22/2017	2017	8	ZI	9200073115	40	0.98		2602	8/22/2017	8/21/2017
1026	OL	40111200	8/22/2017	2017	8	ZI	9200073115	50	-417.89		2602	8/22/2017	8/21/2017
1026	OL	40111200	8/3/2017	2017	8	ZI	9200073135	40	0.32		2602	8/3/2017	8/22/2017
1026	OL	40111200	8/15/2017	2017	8	ZI	9200073136	40	1.95		2602	8/15/2017	8/22/2017
1026	OL	40111200	8/21/2017	2017	8	ZI	9200073137	40	0.65		2602	8/21/2017	8/22/2017
1026	OL	40111200	8/21/2017	2017	8	ZI	9200073137	40	1.32		2602	8/21/2017	8/22/2017
1026	OL	40111200	8/23/2017	2017	8	ZI	9200073140	40	7.20		2602	8/23/2017	8/22/2017
1026	OL	40111200	8/23/2017	2017	8	ZI	9200073140	40	32.91		2602	8/23/2017	8/22/2017
1026	OL	40111200	8/23/2017	2017	8	ZI	9200073140	50	-49.91		2602	8/23/2017	8/22/2017
1026	OL	40111200	8/23/2017	2017	8	ZI	9200073140	50	-2.06		2602	8/23/2017	8/22/2017
1026	OL	40111200	8/23/2017	2017	8	ZI	9200073140	50	-2.06		2602	8/23/2017	8/22/2017
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1026	OL	40111200	8/23/2017	2017	8	ZI	9200073140	40	5.16		2602	8/23/2017	8/22/2017
1026	OL	40111200	8/23/2017	2017	8	ZI	9200073140	50	-1.51		2605	8/23/2017	8/22/2017
1026	OL	40111200	8/23/2017	2017	8	ZI	9200073140	50	-1,101.44		2602	8/23/2017	8/22/2017
1026	OL	40111200	8/23/2017	2017	8	ZI	9200073140	50	-407.52		2602	8/23/2017	8/22/2017
1026	OL	40111200	8/23/2017	2017	8	ZI	9200073140	50	-131.93		2602	8/23/2017	8/22/2017
1026	OL	40111200	8/23/2017	2017	8	ZI	9200073140	50	-5.02		2602	8/23/2017	8/22/2017
1026	OL	40111200	8/23/2017	2017	8	ZI	9200073140	50	-70.91		2603	8/23/2017	8/22/2017
1026	OL	40111200	8/3/2017	2017	8	ZI	9200073141	40	2.69		2602	8/3/2017	8/22/2017
1026	OL	40111200	8/8/2017	2017	8	ZI	9200073143	40	2.69		2602	8/8/2017	8/22/2017
1026	OL	40111200	8/14/2017	2017	8	ZI	9200073145	40	2.69		2602	8/14/2017	8/22/2017
1026	OL	40111200	8/18/2017	2017	8	ZI	9200073146	40	7.87		2602	8/17/2017	8/22/2017
1026	OL	40111200	8/18/2017	2017	8	ZI	9200073146	40	2.06		2602	8/17/2017	8/22/2017
1026	OL	40111200	8/18/2017	2017	8	ZI	9200073146	40	2.69		2602	8/17/2017	8/22/2017
1026	OL	40111200	8/18/2017	2017	8	ZI	9200073146	40	2.86		2602	8/17/2017	8/22/2017
1026	OL	40111200	8/18/2017	2017	8	ZI	9200073146	40	2.10		2602	8/17/2017	8/22/2017
1026	OL	40111200	8/18/2017	2017	8	ZI	9200073146	40	2.00		2602	8/17/2017	8/22/2017
1026	OL	40111200	8/18/2017	2017	8	ZI	9200073146	40	5.42		2602	8/17/2017	8/22/2017
1026	OL	40111200	8/18/2017	2017	8	ZI	9200073146	40	2.10		2602	8/17/2017	8/22/2017
1026	OL	40111200	8/21/2017	2017	8	ZI	9200073147	40	5.04		2602	8/21/2017	8/22/2017
1026	OL	40111200	8/21/2017	2017	8	ZI	9200073147	40	5.04		2602	8/21/2017	8/22/2017
1026	OL	40111200	8/21/2017	2017	8	ZI	9200073147	40	5.04		2602	8/21/2017	8/22/2017
1026	OL	40111200	8/21/2017	2017	8	ZI	9200073147	40	9.16		2602	8/21/2017	8/22/2017
1026	OL	40111200	8/21/2017	2017	8	ZI	9200073147	40	8.59		2602	8/21/2017	8/22/2017
1026	OL	40111200	8/21/2017	2017	8	ZI	9200073147	40	6.53		2602	8/21/2017	8/22/2017
1026	OL	40111200	8/21/2017	2017	8	ZI	9200073147	40	3.86		2602	8/21/2017	8/22/2017
1026	OL	40111200	8/21/2017	2017	8	ZI	9200073147	40	0.32		2602	8/21/2017	8/22/2017
1026	OL	40111200	8/21/2017	2017	8	ZI	9200073147	40	16.26		2602	8/21/2017	8/22/2017
1026	OL	40111200	8/21/2017	2017	8	ZI	9200073147	40	14.48		2602	8/21/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZI	9200073148	40	5.97		2602	8/21/2017	8/22/2017
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1026	OL	40111200	8/22/2017	2017	8	ZI	9200073148	40	2.86		2602	8/21/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZI	9200073148	40	2.00		2602	8/21/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZI	9200073148	40	2.69		2602	8/21/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZI	9200073148	40	14.48		2602	8/21/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZI	9200073148	40	0.32		2602	8/21/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZI	9200073148	40	2.06		2602	8/21/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZI	9200073148	40	2.56		2602	8/21/2017	8/22/2017
1026	OL	40111200	8/2/2017	2017	8	ZI	9200073149	40	0.54		2602	8/2/2017	8/22/2017
1026	OL	40111200	8/15/2017	2017	8	ZI	9200073150	40	1.10		2602	8/15/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZI	9200073152	40	3.86		2602	8/22/2017	8/22/2017
1026	OL	40111200	8/1/2017	2017	8	ZI	9200073156	40	47.35		2602	8/1/2017	8/22/2017
1026	OL	40111200	8/2/2017	2017	8	ZI	9200073157	40	2.06		2602	8/2/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZI	9200073165	40	2.04		2602	8/22/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZI	9200073165	40	9.96		2602	8/22/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZI	9200073165	40	2.08		2602	8/22/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZI	9200073165	40	3.86		2602	8/22/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZI	9200073165	40	23.67		2602	8/22/2017	8/22/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	8/23/2017	2017	8	ZJ	9200073166	40	2.69	2602		8/22/2017	8/22/2017
1026	OL	40111200	8/23/2017	2017	8	ZJ	9200073166	40	3.27	2602		8/22/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZJ	9200073175	50	-2.10	2602		8/22/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZJ	9200073175	50	-2.08	2602		8/22/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZJ	9200073175	40	14.19	2602		8/22/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZJ	9200073175	50	-169.00	2602		8/22/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZJ	9200073175	50	-441.19	2602		8/22/2017	8/22/2017
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1026	OL	40111200	8/23/2017	2017	8	ZJ	9200073176	50	-2.06	2602		8/22/2017	8/22/2017
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1026	OL	40111200	8/23/2017	2017	8	ZJ	9200073176	50	-68.21	2602		8/22/2017	8/22/2017
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1026	OL	40111200	8/23/2017	2017	8	ZJ	9200073176	50	-4.78	2602		8/22/2017	8/22/2017
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1026	OL	40111200	8/23/2017	2017	8	ZJ	9200073176	50	-5.38	2602		8/22/2017	8/22/2017
1026	OL	40111200	8/23/2017	2017	8	ZJ	9200073176	50	-6.54	2602		8/22/2017	8/22/2017
1026	OL	40111200	8/23/2017	2017	8	ZJ	9200073176	50	-4.45	2602		8/22/2017	8/22/2017
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1026	OL	40111200	8/23/2017	2017	8	ZJ	9200073176	50	-1.95	2602		8/22/2017	8/22/2017
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1026	OL	40111200	8/23/2017	2017	8	ZJ	9200073176	50	-37.15	2602		8/22/2017	8/22/2017
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1026	OL	40111200	8/23/2017	2017	8	ZJ	9200073176	50	-13.42	2602		8/22/2017	8/22/2017
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1026	OL	40111200	8/22/2017	2017	8	ZJ	9200073178	50	-15.74	2602		8/21/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZJ	9200073178	50	-4.00	2602		8/21/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZJ	9200073178	50	-4.20	2602		8/21/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZJ	9200073178	50	-4.20	2602		8/21/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZJ	9200073178	50	-5.38	2602		8/21/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZJ	9200073178	50	-1.99	2602		8/21/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZJ	9200073178	50	-2.58	2602		8/21/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZJ	9200073178	50	-6.81	2602		8/21/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZJ	9200073178	50	-0.32	2602		8/21/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZJ	9200073178	50	-1.52	2602		8/21/2017	8/22/2017
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1026	OL	40111200	8/22/2017	2017	8	ZJ	9200073178	50	-2.10	2602		8/21/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZJ	9200073178	50	-2.10	2602		8/21/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZJ	9200073178	50	-1.57	2602		8/21/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZJ	9200073178	50	-2.69	2602		8/21/2017	8/22/2017
1026	OL	40111200	8/22/2017	2017	8	ZJ	9200073178	50	-1.57	2602		8/21/2017	8/22/2017
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1026	OL	40111200	8/22/2017	2017	8	ZJ	9200073178	50	-2.06	2602		8/21/2017	8/22/2017
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1026	OL	40111200	8/22/2017	2017	8	ZJ	9200073178	50	-2.03	2602		8/21/2017	8/22/2017
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1026	OL	40111200	8/24/2017	2017	8	ZJ	9200073205	50	-0.54	2602		8/24/2017	8/23/2017
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1026	OL	40111200	8/24/2017	2017	8	ZJ	9200073205	40	1.21	2602		8/24/2017	8/23/2017
1026	OL	40111200	8/24/2017	2017	8	ZJ	9200073205	50	-76.48	2602		8/24/2017	8/23/2017
1026	OL	40111200	8/24/2017	2017	8	ZJ	9200073205	50	-62.11	2602		8/24/2017	8/23/2017
1026	OL	40111200	8/24/2017	2017	8	ZJ	9200073205	50	-1.10	2602		8/24/2017	8/23/2017
1026	OL	40111200	8/24/2017	2017	8	ZJ	9200073205	50	-2.69	2602		8/24/2017	8/23/2017
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1026	OL												

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1026	OL	40111200	8/23/2017	2017	8	ZJ	9200073209	40	1.67	2602		8/23/2017	8/23/2017
1026	OL	40111200	8/23/2017	2017	8	ZJ	9200073209	40	2.06	2602		8/23/2017	8/23/2017
1026	OL	40111200	8/23/2017	2017	8	ZJ	9200073209	40	0.54	2602		8/23/2017	8/23/2017
1026	OL	40111200	8/23/2017	2017	8	ZJ	9200073209	40	0.51	2602		8/23/2017	8/23/2017
1026	OL	40111200	8/23/2017	2017	8	ZJ	9200073209	40	2.69	2602		8/23/2017	8/23/2017
1026	OL	40111200	8/2/2017	2017	8	ZJ	9200073217	40	2.24	2602		8/2/2017	8/23/2017
1026	OL	40111200	8/16/2017	2017	8	ZJ	9200073221	40	2.06	2602		8/16/2017	8/23/2017
1026	OL	40111200	8/18/2017	2017	8	ZJ	9200073222	40	3.27	2602		8/18/2017	8/23/2017
1026	OL	40111200	8/23/2017	2017	8	ZJ	9200073223	40	26.19	2602		8/23/2017	8/23/2017
1026	OL	40111200	8/23/2017	2017	8	ZJ	9200073223	40	56.99	2602		8/23/2017	8/23/2017
1026	OL	40111200	8/23/2017	2017	8	ZJ	9200073223	40	7.01	2602		8/23/2017	8/23/2017
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1026	OL	40111200	8/23/2017	2017	8	ZJ	9200073223	40	7.76	2602		8/23/2017	8/23/2017
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1026	OL	40111200	8/23/2017	2017	8	ZJ	9200073223	40	86.07	2602		8/23/2017	8/23/2017
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1026	OL	40111200	8/24/2017	2017	8	ZJ	9200073226	50	-15.75	2602		8/23/2017	8/23/2017
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1026	OL	40111200	8/24/2017	2017	8	ZJ	9200073226	50	-2.17	2602		8/23/2017	8/23/2017
1026	OL	40111200	8/24/2017	2017	8	ZJ	9200073226	50	-1.15	2602		8/23/2017	8/23/2017
1026	OL	40111200	8/24/2017	2017	8	ZJ	9200073226	50	-0.54	2602		8/23/2017	8/23/2017
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1026	OL	40111200	8/24/2017	2017	8	ZJ	9200073253	40	1.10	2602		8/24/2017	8/24/2017
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1026	OL	40111200	8/24/2017	2017	8	ZJ	9200073258	40	10.35	2602		8/24/2017	8/24/2017
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1026	OL	40111200	8/25/2017	2017	8	ZJ	9200073260	50	-1.17	2602		8/25/2017	8/24/2017
1026	OL	40111200	8/25/2017	2017	8	ZJ	9200073260	50	-1.51	2605		8/25/2017	8/24/2017
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1026	OL	40111200	8/25/2017	2017	8	ZJ	9200073260	40	30.44	2602		8/25/2017	8/24/2017
1026	OL	40111200	8/25/2017	2017	8	ZJ	9200073260	40	4.20	2602		8/25/2017	8/24/2017
1026	OL	40111200	8/25/2017	2017	8	ZJ	9200073260	40	118.01	2602		8/25/2017	8/24/2017
1026	OL	40111200	8/25/2017	2017	8	ZJ	9200073260	40	8.11	2602		8/25/2017	8/24/2017
1026	OL	40111200	8/25/2017	2017	8	ZJ	9200073260	40	5.93	2602		8/25/2017	8/24/2017
1026	OL	40111200	8/25/2017	2017	8	ZJ	9200073260	50	-60.57	2602		8/25/2017	8/24/2017
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1026	OL	40111200	8/24/2017	2017	8	ZJ	9200073270	40	18.35	2602		8/24/2017	8/24/2017
1026	OL	40111200	8/24/2017	2017	8	ZJ	9200073270	40	35.73	2602		8/24/2017	8/24/2017
1026	OL	40111200	8/24/2017	2017	8	ZJ	9200073270	40	9.59	2602		8/24/2017	8/24/2017
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1026	OL	40111200	8/24/2017	2017	8	ZJ	9200073270	40	2.06	2602		8/24/2017	8/24/2017
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1026	OL	40111200	8/24/2017	2017	8	ZJ	9200073270	40	2.44	2602		8/24/2017	8/24/2017
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1026	OL	40111200	8/25/2017	2017	8	ZJ	9200073271	40	9.59	2602		8/24/2017	8/24/2017
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1026	OL	40111200	8/25/2017	2017	8	ZJ	9200073271	40	4.86	2602		8/24/2017	8/24/2017
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1026	OL	40111200	8/25/2017	2017	8	ZJ	9200073271	40	5.09	2602		8/24/2017	8/24/2017
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1026	OL	40111200	8/15/2017	2017	8	ZJ	9200073274	40	2.06	2602		8/15/2017	8/24/2017
1026	OL	40111200	8/24/2017	2017	8	ZJ	9200073275	40	0.51	2602		8/24/2017	8/24/2017
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1026	OL	401											

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	8/25/2017	2017	8	ZJ	9200073281	50	-6.54	2602		8/24/2017	8/24/2017
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1026	OL	40111200	8/28/2017	2017	8	ZJ	9200073311	50	-4.77	2605		8/28/2017	8/25/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	9/8/2017	2017	9	ZJ	9200073688	50	-2.02		2602	9/7/2017	9/7/2017
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1026	OL	40111200	9/8/2017	2017	9	ZJ	9200073688	50	-1.30		2602	9/7/2017	9/7/2017
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1026	OL	40111200	9/8/2017	2017	9	ZJ	9200073716	40	2.37		2602	9/8/2017	9/8/2017
1026	OL	40111200	9/8/2017	2017	9	ZJ	9200073716	40	10.35		2602	9/8/2017	9/8/2017
1026	OL	40111200	9/8/2017	2017	9	ZJ	9200073716	40	1.95		2602	9/8/2017	9/8/2017
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1026	OL	40111200	9/11/2017	2017	9	ZI	9200073730	50	-3.27		2602	9/8/2017	9/8/2017
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1026	OL	40111200	9/11/2017	2017	9	ZI	9200073730	50	-65.70		2602	9/8/2017	9/8/2017
1026	OL	40111200	9/11/2017	2017	9	ZI	9200073730	50	-40.62		2602	9/8/2017	9/8/2017
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1026	OL	40111200	9/11/2017	2017	9	ZI	9200073730	50	-5.04		2602	9/8/2017	9/8/2017
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1026	OL	40111200	9/12/2017	2017	9	ZI	9200073756	50	-30.54		2602	9/12/2017	9/11/2017
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1026	OL	40111200	9/12/2017	2017	9	ZI	9200073756	40	11.64		2605	9/12/2017	9/11/2017
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1026	OL	40111200	9/12/2017	2017	9	ZI	9200073756	50	-75.17		2602	9/12/2017	9/11/2017
1026	OL	40111200	9/12/2017	2017	9	ZI	9200073756	50	-2.06		2602	9/12/2017	9/11/2017
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1026	OL	40111200	9/12/2017	2017	9	ZI	9200073756	50	-3,392.82		2605	9/12/2017	9/11/2017
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1026	OL	40111200	9/12/2017	2017	9	ZI	9200073756	50	-60.18		2602	9/12/2017	9/11/2017
1026	OL	40111200	9/12/2017	2017	9	ZI	9200073756	50	-2.85		2602	9/12/2017	9/11/2017
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1026	OL	40111200	9/12/2017	2017	9	ZI	9200073756	50	-33.05		2602	9/12/2017	9/11/2017
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1026	OL	40111200	9/12/2017	2017	9	ZI	9200073756	50	-7,037.47		2602	9/12/2017	9/11/2017
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1026	OL	40111200	9/12/2017	2017	9	ZI	9200073757	40	18.67		2602	9/12/2017	9/11/2017
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1026	OL	40111200	9/13/2017	2017	9	ZI	9200073785	40	15.80		2605	9/13/2017	9/12/2017
1026	OL	40111200	9/13/2017	2017	9	ZI	9200073785	50	-2,085.26		2602	9/13/2017	9/12/2017
1026	OL	40111200	9/13/2017	2017	9	ZI	9200073785	50	-25.51		2605	9/13/2017	9/12/2017
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1026	OL	40111200	9/13/2017	2017	9	ZJ	9200073828	40	2.07		2602	9/13/2017	9/13/2017
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1026	OL	40111200	9/13/2017	2017	9	ZJ	9200073828	40	1.59		2602	9/13/2017	9/13/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	9/14/2017	2017	9	ZJ	9200073843	50	-2.04		2602	9/13/2017	9/13/2017
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1026	OL	40111200	9/14/2017	2017	9	ZJ	9200073843	50	-3.86		2602	9/13/2017	9/13/2017
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1026	OL	40111200	9/15/2017	2017	9	ZJ	9200073881	50	-1.95		2602	9/14/2017	9/14/2017
1026	OL	40111200	9/15/2017	2017	9	ZJ	9200073881	50	-4.04		2602	9/14/2017	9/14/2017
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1026	OL	40111200	9/15/2017	2017	9	ZJ	9200073894	40	0.80		2602	9/15/2017	9/16/2017
1026	OL	40111200	9/18/2017	2017	9	ZJ	9200073900	50	-5.19		2605	9/18/2017	9/16/2017
1026	OL	40111200	9/18/2017	2017	9	ZJ	9200073900	40	14.08		2602	9/18/2017	9/16/2017
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1026	OL	40111200	9/18/2017	2017	9	ZJ	9200073900	40	9.44		2602	9/18/2017	9/16/2017
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1026	OL	40111200	9/15/2017	2017	9	ZJ	9200073917	40	1.56		2602	9/15/2017	9/16/2017
1026	OL	40111200	9/15/2017	2017	9	ZJ	9200073917	40	2.02		2602	9/15/2017	9/16/2017
1026	OL	40111200	9/15/2017	2017	9	ZJ	9200073917	40	6.22		2602	9/15/2017	9/16/2017
1026	OL	40111200	9/15/2017	2017	9	ZJ	9200073917	40	18.61		2602	9/15/2017	9/16/2017
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1026	OL	40111											

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1026	OL	40111200	9/20/2017	2017	9	ZJ	9200074059	50	-1.95		2602	9/20/2017	9/20/2017
1026	OL	40111200	9/20/2017	2017	9	ZJ	9200074059	50	-5.82		2605	9/20/2017	9/20/2017
1026	OL	40111200	9/20/2017	2017	9	ZJ	9200074059	50	-0.77		2602	9/20/2017	9/20/2017
1026	OL	40111200	9/20/2017	2017	9	ZJ	9200074059	50	-2.12		2602	9/20/2017	9/20/2017
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1026	OL	40111200	9/20/2017	2017	9	ZJ	9200074059	50	-2.06		2602	9/20/2017	9/20/2017
1026	OL	40111200	9/20/2017	2017	9	ZJ	9200074059	50	-4.29		2602	9/20/2017	9/20/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074060	50	-11.50		2602	9/20/2017	9/20/2017
1026	OL												

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074060	50	-60.93		2602	9/20/2017	9/20/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074060	50	-15.18		2602	9/20/2017	9/20/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074060	50	-13.54		2602	9/20/2017	9/20/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074060	50	-7.06		2602	9/20/2017	9/20/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074060	50	-2.75		2602	9/20/2017	9/20/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074060	50	-4.05		2602	9/20/2017	9/20/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074060	50	-9.57		2602	9/20/2017	9/20/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074060	50	-42.99		2602	9/20/2017	9/20/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074060	50	-21.26		2602	9/20/2017	9/20/2017
1026	OL	40111200	9/14/2017	2017	9	ZJ	9200074074	40	7.52		2602	9/14/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZJ	9200074088	50	-10.81		2602	9/22/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZJ	9200074088	50	-387.35		2602	9/22/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZJ	9200074088	50	-4.12		2602	9/22/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZJ	9200074088	50	-2.08		2602	9/22/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZJ	9200074088	50	-2.00		2602	9/22/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZJ	9200074088	50	-333.98		2603	9/22/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZJ	9200074088	50	-261.47		2602	9/22/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZJ	9200074088	50	-3.44		2605	9/22/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZJ	9200074088	50	-0.11		2605	9/22/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZJ	9200074088	50	-0.82		2602	9/22/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZJ	9200074088	50	-27.29		2602	9/22/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZJ	9200074088	40	3.06		2602	9/22/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZJ	9200074088	50	-2.53		2602	9/22/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZJ	9200074088	50	-4,081.62		2602	9/22/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZJ	9200074088	50	-1.13		2605	9/22/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZJ	9200074088	50	-106.36		2603	9/22/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZJ	9200074088	40	1.32		2602	9/22/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZJ	9200074088	50	-2.17		2602	9/22/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZJ	9200074088	50	-1.95		2602	9/22/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZJ	9200074088	50	-3.11		2602	9/22/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZJ	9200074088	50	-1.75		2602	9/22/2017	9/22/2017
1026	OL	40111200	9/13/2017	2017	9	ZJ	9200074090	40	3.46		2605	9/13/2017	9/22/2017
1026	OL	40111200	9/19/2017	2017	9	ZJ	9200074091	40	3.98		2602	9/19/2017	9/22/2017
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1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074092	40	2.53		2602	9/21/2017	9/22/2017
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1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074092	40	1.75		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074092	40	2.08		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074092	40	3.11		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074092	40	0.89		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074092	40	6.81		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074092	40	2.10		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074092	40	0.82		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074092	40	1.71		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074092	40	2.00		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074092	40	2.10		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/12/2017	2017	9	ZJ	9200074102	40	2.15		2602	9/12/2017	9/22/2017
1026	OL	40111200	9/18/2017	2017	9	ZJ	9200074103	40	2.72		2602	9/18/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074104	40	12.08		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074104	40	5.64		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074104	40	15.39		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074104	40	2.10		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074104	40	2.10		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074104	40	2.69		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074104	40	2.10		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074104	50	-105.87		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074104	40	8.31		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074104	40	30.33		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074106	50	-10.73		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074106	50	-3.76		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074106	50	-2.76		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074106	50	-0.80		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074106	50	-1.28		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074106	50	-0.26		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074106	50	-681.46		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074106	50	-12.54		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074106	50	-2.10		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074106	50	-0.17		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074106	50	-7.26		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074106	50	-1.95		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074106	50	-2.11		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074106	50	-1.71		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074106	50	-2.03		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074106	50	-1.26		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/21/2017	2017	9	ZJ	9200074106	40	223.89		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZJ	9200074107	50	-47.16		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZJ	9200074107	50	-6.87		2602	9/21/2017	9/22/2017

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	9/22/2017	2017	9	ZI	9200074107	50	-0.61		2602	9/21/2017	9/22/2017
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1026	OL	40111200	9/22/2017	2017	9	ZI	9200074107	50	-1.16		2602	9/21/2017	9/22/2017
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1026	OL	40111200	9/22/2017	2017	9	ZI	9200074107	50	-2.10		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZI	9200074107	50	-3.43		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZI	9200074107	50	-6.56		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZI	9200074107	50	-8.10		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZI	9200074107	50	-2.15		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZI	9200074107	50	-1.95		2602	9/21/2017	9/22/2017
1026	OL	40111200	9/5/2017	2017	9	ZI	9200074133	40	1.08		2602	9/5/2017	9/22/2017
1026	OL	40111200	9/12/2017	2017	9	ZI	9200074134	40	1.43		2602	9/12/2017	9/22/2017
1026	OL	40111200	9/20/2017	2017	9	ZI	9200074136	40	10.40		2602	9/20/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZI	9200074137	40	0.52		2602	9/22/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZI	9200074137	40	2.69		2602	9/22/2017	9/22/2017
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1026	OL	40111200	9/25/2017	2017	9	ZI	9200074140	50	-269.77		2603	9/25/2017	9/22/2017
1026	OL	40111200	9/25/2017	2017	9	ZI	9200074140	40	4.73		2602	9/25/2017	9/22/2017
1026	OL	40111200	9/25/2017	2017	9	ZI	9200074140	50	-89.36		2602	9/25/2017	9/22/2017
1026	OL	40111200	9/25/2017	2017	9	ZI	9200074140	50	-1.71		2602	9/25/2017	9/22/2017
1026	OL	40111200	9/25/2017	2017	9	ZI	9200074140	40	65.69		2602	9/25/2017	9/22/2017
1026	OL	40111200	9/25/2017	2017	9	ZI	9200074140	50	-1.65		2602	9/25/2017	9/22/2017
1026	OL	40111200	9/25/2017	2017	9	ZI	9200074140	50	-10.05		2603	9/25/2017	9/22/2017
1026	OL	40111200	9/25/2017	2017	9	ZI	9200074140	50	-6.81		2602	9/25/2017	9/22/2017
1026	OL	40111200	9/25/2017	2017	9	ZI	9200074140	50	-7,627.83		2602	9/25/2017	9/22/2017
1026	OL	40111200	9/25/2017	2017	9	ZI	9200074140	40	1.35		2602	9/25/2017	9/22/2017
1026	OL	40111200	9/25/2017	2017	9	ZI	9200074140	50	-528.07		2602	9/25/2017	9/22/2017
1026	OL	40111200	9/25/2017	2017	9	ZI	9200074140	50	-7,715.99		2602	9/25/2017	9/22/2017
1026	OL	40111200	9/25/2017	2017	9	ZI	9200074140	50	-2.10		2602	9/25/2017	9/22/2017
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1026	OL	40111200	9/25/2017	2017	9	ZI	9200074140	50	-738.48		2602	9/25/2017	9/22/2017
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1026	OL	40111200	9/12/2017	2017	9	ZI	9200074143	40	4.70		2602	9/12/2017	9/22/2017
1026	OL	40111200	9/14/2017	2017	9	ZI	9200074145	40	3.46		2602	9/14/2017	9/22/2017
1026	OL	40111200	9/15/2017	2017	9	ZI	9200074146	40	53.16		2602	9/15/2017	9/22/2017
1026	OL	40111200	9/15/2017	2017	9	ZI	9200074146	40	1.18		2602	9/15/2017	9/22/2017
1026	OL	40111200	9/19/2017	2017	9	ZI	9200074147	40	27.78		2602	9/19/2017	9/22/2017
1026	OL	40111200	9/19/2017	2017	9	ZI	9200074147	40	10.10		2602	9/19/2017	9/22/2017
1026	OL	40111200	9/20/2017	2017	9	ZI	9200074148	40	0.41		2602	9/20/2017	9/22/2017
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1026	OL	40111200	9/22/2017	2017	9	ZI	9200074149	40	22.18		2605	9/22/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZI	9200074149	40	6.22		2602	9/22/2017	9/22/2017
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1026	OL	40111200	9/22/2017	2017	9	ZI	9200074149	40	9.28		2602	9/22/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZI	9200074149	40	2.11		2602	9/22/2017	9/22/2017
1026	OL	40111200	9/22/2017	2017	9	ZI	9200074149	40	2.06		2602	9/22/2017	9/22/2017
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1026	OL	40111200	9/25/2017	2017	9	ZI	9200074158	50	-1.61		2602	9/22/2017	9/22/2017
1026	OL	40111200	9/25/2017	2017	9	ZI	9200074158	50	-14.29		2605	9/22/2017	9/22/2017
1026	OL	40111200	9/25/2017	2017	9	ZI	9200074158	50	-18.94		2602	9/22/2017	9/22/2017
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1026	OL	40111200	9/26/2017	2017	9	ZI	9200074197	50	-1.53		2602	9/26/2017	9/25/2017
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1026	OL	40111200	9/26/2017	2017	9	ZI	9200074197	50	-28.77		2602	9/26/2017	9/25/2017
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1026	OL	40111200	9/19/2017	2017	9	ZI	9200074220	40	28.77		2602	9/19/2017	9/26/2017
1026	OL	40111200	9/25/2017	2017	9	ZI	9200074221	40	0.57		2602	9/25/2017	9/26/2017
1026	OL	40111200	9/25/2017	2017	9	ZI	9200074221	40	7.44		2602	9/25/2017	9/26/2017
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1026	OL	40111200	9/25/2017	2017	9	ZI	9200074221	40	1.46		2602	9/25/2017	9/26/2017
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1026	OL	40111200	9/25/2017	2017	9	ZI	9200074221	40	2.20		2602	9/25/2017	9/26/2017
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1026	OL	40111200	9/27/2017	2017	9	ZI	9200074222	40	8.18		2602	9/27/2017	9/26/2017
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1026	OL	40111200	9/27/2017	2017	9	ZI	9200074222	50	-24.02		2602	9/27/2017	9/26/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	9/27/2017	2017	9	ZJ	9200074246	50	-103.79		2602	9/26/2017	9/26/2017
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1026	OL	40111200	10/2/2017	2017	10	ZI	9200074407	50	-4.53		2602	9/29/2017	9/29/2017
1026	OL	40111200	10/2/2017	2017	10	ZI	9200074407	50	-2.72		2602	9/29/2017	9/29/2017
1026	OL	40111200	10/2/2017	2017	10	ZI	9200074407	50	-0.96		2602	9/29/2017	9/29/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	10/5/2017	2017	10	ZI	9200074616	40	3.48		2602	10/4/2017	10/6/2017
1026	OL	40111200	10/6/2017	2017	10	ZI	9200074617	40	8.52		2602	10/6/2017	10/6/2017
1026	OL	40111200	10/6/2017	2017	10	ZI	9200074617	40	8.52		2602	10/6/2017	10/6/2017
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1026	OL	40111200	10/9/2017	2017	10	ZI	9200074632	50	-3.48		2602	10/6/2017	10/6/2017
1026	OL	40111200	10/9/2017	2017	10	ZI	9200074632	50	-8.52		2602	10/6/2017	10/6/2017
1026	OL	40111200	10/9/2017	2017	10	ZI	9200074632	50	-8.52		2602	10/6/2017	10/6/2017
1026	OL	40111200	10/10/2017	2017	10	ZI	9200074633	50	-18.79		2602	10/6/2017	10/6/2017
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1026	OL	40111200	10/10/2017	2017	10	ZI	9200074633	50	-21.08		2602	10/6/2017	10/6/2017
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1026	OL	40111200	10/10/2017	2017	10	ZI	9200074633	50	-1.95		2602	10/6/2017	10/6/2017
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1026	OL	40111200	10/7/2017	2017	10	ZI	9200074638	40	4.12		2602	10/7/2017	10/8/2017
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1026	OL	40111200	10/7/2017	2017	10	ZI	9200074638	40	2.69		2602	10/7/2017	10/8/2017
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1026	OL	40111200	10/10/2017	2017	10	ZI	9200074655	50	-2.06		2602	10/10/2017	10/9/2017
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1026	OL	40111200	10/11/2017	2017	10	ZI	9200074678	50	-3.26		2605	10/11/2017	10/10/2017
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1026	OL	40111200	10/10/2017	2017	10	ZJ	9200074684	40	5.12		2602	10/10/2017	10/10/2017
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1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074724	50	-19.88		2605	10/12/2017	10/11/2017
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1026	OL	40111200	10/11/2017	2017	10	ZJ	9200074729	40	21.16		2602	10/11/2017	10/11/2017
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1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074749	50	-2.69		2602	10/11/2017	10/11/2017
1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074749	50	-4.87		2602	10/11/2017	10/11/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074749	50	-51.53	2602		10/11/2017	10/11/2017
1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074749	50	-15.85	2602		10/11/2017	10/11/2017
1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074749	50	-12.73	2602		10/11/2017	10/11/2017
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1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074749	50	-3.41	2605		10/11/2017	10/11/2017
1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074749	50	-6.56	2602		10/11/2017	10/11/2017
1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074749	50	-15.22	2602		10/11/2017	10/11/2017
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1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074749	50	-6.00	2602		10/11/2017	10/11/2017
1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074749	50	-5.64	2602		10/11/2017	10/11/2017
1026	OL	40111200	10/6/2017	2017	10	ZJ	9200074788	40	0.42	2602		10/6/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074789	40	24.02	2602		10/13/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074789	40	15.29	2602		10/13/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074789	50	-71.03	2602		10/13/2017	10/12/2017
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1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074789	50	-89.20	2605		10/13/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074789	40	18.49	2602		10/13/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074789	50	-0.06	2602		10/13/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074789	50	-4.00	2602		10/13/2017	10/12/2017
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1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074789	50	-146.66	2602		10/13/2017	10/12/2017
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1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074789	50	-11.77	2605		10/13/2017	10/12/2017
1026	OL	40111200	10/4/2017	2017	10	ZJ	9200074790	40	4.00	2602		10/4/2017	10/12/2017
1026	OL	40111200	10/6/2017	2017	10	ZJ	9200074791	40	2.07	2602		10/6/2017	10/12/2017
1026	OL	40111200	10/9/2017	2017	10	ZJ	9200074792	40	3.48	2602		10/9/2017	10/12/2017
1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074793	40	1.95	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074793	40	1.95	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074793	40	2.03	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074793	40	1.07	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074793	40	1.99	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074793	40	0.34	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/3/2017	2017	10	ZJ	9200074796	40	6.10	2602		10/3/2017	10/12/2017
1026	OL	40111200	10/6/2017	2017	10	ZJ	9200074799	40	3.55	2602		10/6/2017	10/12/2017
1026	OL	40111200	10/11/2017	2017	10	ZJ	9200074800	40	2.85	2602		10/11/2017	10/12/2017
1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074801	40	4.39	2605		10/12/2017	10/12/2017
1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074801	40	9.14	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074801	40	3.27	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074801	40	3.27	2602		10/12/2017	10/12/2017
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1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074801	40	2.10	2602		10/12/2017	10/12/2017
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1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074801	40	3.99	2605		10/12/2017	10/12/2017
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1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074801	40	14.02	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074801	40	11.21	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074801	40	5.36	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074801	40	21.37	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074801	40	15.43	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074802	40	6.10	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074802	40	2.24	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074805	50	-3.81	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074805	50	-0.42	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/12/2017	2017	10	ZJ	9200074805	40	17.18	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-3.55	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-0.76	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-3.53	2605		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-0.18	2602		10/12/2017	10/12/2017
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1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-15.84	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-3.32	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-18.15	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-1.58	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-8.09	2605		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-3.86	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-3.86	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-3.86	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-3.32	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-1.76	2602		10/12/2017	10/12/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-2.06	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-2.87	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-10.36	2602		10/12/2017	10/12/2017
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1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-2.89	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-1.63	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-1.10	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-12.20	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-1.99	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-5.81	2605		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-9.49	2602		10/12/2017	10/12/2017
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1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-2.43	2602		10/12/2017	10/12/2017
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1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-1.57	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-2.63	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-3.99	2605		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-6.92	2605		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-2.63	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-2.05	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-3.27	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-3.27	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-3.46	2602		10/12/2017	10/12/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200074806	50	-3.39	2602		10/12/2017	1

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	10/16/2017	2017	10	ZI	9200074869	50	-0.68		2602	10/13/2017	10/13/2017
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1026	OL	40111200	10/16/2017	2017	10	ZI	9200074869	50	-2.12		2602	10/13/2017	10/13/2017
1026	OL	40111200	10/16/2017	2017	10	ZI	9200074869	50	-5.22		2605	10/13/2017	10/13/2017
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1026	OL	40111200	10/16/2017	2017	10	ZI	9200074869	50	-2.07		2602	10/13/2017	10/13/2017
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1026	OL	40111200	10/16/2017	2017	10	ZI	9200074869	50	-13.49		2602	10/13/2017	10/13/2017
1026	OL	40111200	10/16/2017	2017	10	ZI	9200074869	50	-0.51		2602	10/13/2017	10/13/2017
1026	OL	40111200	10/6/2017	2017	10	ZI	9200074887	40	2.07		2602	10/6/2017	10/16/2017
1026	OL	40111200	10/16/2017	2017	10	ZI	9200074888	40	2.18		2602	10/16/2017	10/16/2017
1026	OL	40111200	10/16/2017	2017	10	ZI	9200074888	40	0.59		2602	10/16/2017	10/16/2017
1026	OL	40111200	10/17/2017	2017	10	ZI	9200074899	50	-50.93		2602	10/17/2017	10/16/2017
1026	OL	40111200	10/17/2017	2017	10	ZI	9200074899	40	7.54		2602	10/17/2017	10/16/2017
1026	OL	40111200	10/17/2017	2017	10	ZI	9200074899	50	-216.95		2602	10/17/2017	10/16/2017
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1026	OL	40111200	10/16/2017	2017	10	ZI	9200074934	40	17.31		2602	10/16/2017	10/17/2017
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1026	OL	40111200	10/17/2017	2017	10	ZI	9200074996	40	0.59		2602	10/17/2017	10/18/2017
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1026	OL												

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1026	OL	40111200	10/18/2017	2017	10	ZJ	9200075026	50	-1.58		2602	10/18/2017	10/18/2017
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1026	OL	40111200	10/19/2017	2017	10	ZJ	9200075092	50	-0.01		2602	10/19/2017	10/19/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	10/27/2017	2017	10	ZI	9200075339	40	13.02		2602	10/26/2017	10/26/2017
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1026	OL	40111200	10/27/2017	2017	10	ZI	9200075344	50	-29.04		2602	10/26/2017	10/26/2017
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1026	OL	40111200	10/27/2017	2017	10	ZI	9200075344	50	-25.20		2602	10/26/2017	10/26/2017
1026	OL	40111200	10/27/2017	2017	10	ZI	9200075344	50	-337.64		2602	10/26/2017	10/26/2017
1026	OL	40111200	10/27/2017	2017	10	ZI	9200075344	50	-6.24		2602	10/26/2017	10/26/2017
1026	OL	40111200	10/27/2017	2017	10	ZI	9200075344	50	-4.12		2602	10/26/2017	10/26/2017
1026	OL	40111200	10/27/2017	2017	10	ZI	9200075344	50	-15.85		2602	10/26/2017	10/26/2017
1026	OL	40111200	10/27/2017	2017	10	ZI	9200075344	50	-4.52		2602	10/26/2017	10/26/2017
1026	OL	40111200	10/27/2017	2017	10	ZI	9200075344	40	41.50		2602	10/26/2017	10/26/2017
1026	OL	40111200	10/27/2017	2017	10	ZI	9200075344	50	-2.96		2602	10/26/2017	10/26/2017
1026	OL	40111200	10/27/2017	2017	10	ZI	9200075344	50	-1.23		2602	10/26/2017	10/26/2017
1026	OL	40111200	10/27/2017	2017	10	ZI	9200075344	50	-36.71		2602	10/26/2017	10/26/2017
1026	OL	40111200	10/27/2017	2017	10	ZI	9200075344	50	-13.02		2602	10/26/2017	10/26/2017
1026	OL	40111200	10/27/2017	2017	10	ZI	9200075344	50	-39.25		2602	10/26/2017	10/26/2017
1026	OL	40111200	10/27/2017	2017	10	ZI	9200075344	50	-118.95		2602	10/26/2017	10/26/2017
1026	OL	40111200	10/18/2017	2017	10	ZI	9200075367	40	1.44		2602	10/18/2017	10/27/2017
1026	OL	40111200	10/30/2017	2017	10	ZI	9200075368	50	-2.21		2602	10/30/2017	10/27/2017
1026	OL	40111200	10/30/2017	2017	10	ZI	9200075368	50	-257.56		2602	10/30/2017	10/27/2017
1026	OL	40111200	10/30/2017	2017	10	ZI	9200075368	50	-15.51		2602	10/30/2017	10/27/2017
1026	OL	40111200	10/30/2017	2017	10	ZI	9200075368	50	-691.31		2602	10/30/2017	10/27

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	10/30/2017	2017	10	ZJ	9200075368	50	-1.57		2605	10/30/2017	10/27/2017
1026	OL	40111200	10/30/2017	2017	10	ZJ	9200075368	50	-15.28		2602	10/30/2017	10/27/2017
1026	OL	40111200	10/30/2017	2017	10	ZJ	9200075368	50	-2.07		2602	10/30/2017	10/27/2017
1026	OL	40111200	10/30/2017	2017	10	ZJ	9200075368	50	-2.20		2602	10/30/2017	10/27/2017
1026	OL	40111200	10/30/2017	2017	10	ZJ	9200075368	50	-2.47		2602	10/30/2017	10/27/2017
1026	OL	40111200	10/30/2017	2017	10	ZJ	9200075368	50	-11.17		2602	10/30/2017	10/27/2017
1026	OL	40111200	10/30/2017	2017	10	ZJ	9200075368	40	0.07		2602	10/30/2017	10/27/2017
1026	OL	40111200	10/30/2017	2017	10	ZJ	9200075368	40	2.47		2602	10/30/2017	10/27/2017
1026	OL	40111200	10/30/2017	2017	10	ZJ	9200075368	50	-9.59		2602	10/30/2017	10/27/2017
1026	OL	40111200	10/30/2017	2017	10	ZJ	9200075368	40	0.13		2602	10/30/2017	10/27/2017
1026	OL	40111200	10/30/2017	2017	10	ZJ	9200075368	50	-9.59		2602	10/30/2017	10/27/2017
1026	OL	40111200	10/30/2017	2017	10	ZJ	9200075368	50	-2.15		2602	10/30/2017	10/27/2017
1026	OL	40111200	10/30/2017	2017	10	ZJ	9200075368	50	-2.24		2602	10/30/2017	10/27/2017
1026	OL	40111200	10/30/2017	2017	10	ZJ	9200075368	50	-3.07		2602	10/30/2017	10/27/2017
1026	OL	40111200	10/30/2017	2017	10	ZJ	9200075368	40	42.40		2602	10/30/2017	10/27/2017
1026	OL	40111200	10/4/2017	2017	10	ZJ	9200075370	40	2.47		2602	10/4/2017	10/27/2017
1026	OL	40111200	10/5/2017	2017	10	ZJ	9200075371	40	2.21		2602	10/5/2017	10/27/2017
1026	OL	40111200	10/5/2017	2017	10	ZJ	9200075371	40	2.24		2602	10/5/2017	10/27/2017
1026	OL	40111200	10/13/2017	2017	10	ZJ	9200075372	40	2.20		2602	10/13/2017	10/27/2017
1026	OL	40111200	10/19/2017	2017	10	ZJ	9200075373	40	12.96		2602	10/19/2017	10/27/2017
1026	OL	40111200	10/19/2017	2017	10	ZJ	9200075373	40	19.34		2603	10/19/2017	10/27/2017
1026	OL	40111200	10/20/2017	2017	10	ZJ	9200075374	40	2.32		2602	10/20/2017	10/27/2017
1026	OL	40111200	10/27/2017	2017	10	ZJ	9200075375	40	2.07		2602	10/27/2017	10/27/2017
1026	OL	40111200	10/27/2017	2017	10	ZJ	9200075375	40	9.44		2602	10/27/2017	10/27/2017
1026	OL	40111200	10/27/2017	2017	10	ZJ	9200075375	40	11.17		2602	10/27/2017	10/27/2017
1026	OL	40111200	10/27/2017	2017	10	ZJ	9200075375	40	15.51		2602	10/27/2017	10

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	10/28/2017	2017	10	ZJ	9200075412	40	2.20		2602	10/28/2017	10/29/2017
1026	OL	40111200	10/28/2017	2017	10	ZJ	9200075412	40	5.36		2602	10/28/2017	10/29/2017
1026	OL	40111200	10/28/2017	2017	10	ZJ	9200075412	40	5.36		2602	10/28/2017	10/29/2017
1026	OL	40111200	10/28/2017	2017	10	ZJ	9200075412	40	2.69		2602	10/28/2017	10/29/2017
1026	OL	40111200	10/28/2017	2017	10	ZJ	9200075412	40	5.64		2602	10/28/2017	10/29/2017
1026	OL	40111200	10/10/2017	2017	10	ZJ	9200075417	40	2.07		2602	10/10/2017	10/30/2017
1026	OL	40111200	10/4/2017	2017	10	ZJ	9200075419	40	2.20		2602	10/3/2017	10/30/2017
1026	OL	40111200	10/30/2017	2017	10	ZJ	9200075420	40	3.86		2602	10/30/2017	10/30/2017
1026	OL	40111200	10/30/2017	2017	10	ZJ	9200075422	40	2.79		2602	10/30/2017	10/30/2017
1026	OL	40111200	10/30/2017	2017	10	ZJ	9200075422	40	2.07		2602	10/30/2017	10/30/2017
1026	OL	40111200	10/30/2017	2017	10	ZJ	9200075422	40	1.99		2602	10/30/2017	10/30/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075442	40	1.33		2602	10/31/2017	10/30/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075442	50	-73.61		2602	10/31/2017	10/30/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075442	50	-2.64		2602	10/31/2017	10/30/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075442	50	-239.65		2602	10/31/2017	10/30/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075442	50	-19.61		2602	10/31/2017	10/30/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075442	50	-69.84		2602	10/31/2017	10/30/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075442	50	-0.21		2602	10/31/2017	10/30/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075442	50	-846.92		2602	10/31/2017	10/30/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075442	50	-10,850.55		2602	10/31/2017	10/30/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075442	50	-1.02		2605	10/31/2017	10/30/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075442	50	-11.11		2602	10/31/2017	10/30/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075442	40	4.12		2602	10/31/2017	10/30/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075442	40	19.87		2602	10/31/2017	10/30/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075442	50	-1.63		2602	10/31/2017	10/30/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075442	40	5.86		2602	10/31/2017	10/30/2017
1026	OL	40111200	10/20/2017	2017	10	ZJ	9200075443	40	0.19		2602	10/20/2017	10/30/2017
1026	OL	40111200	10/6/2017	2017	10	ZJ	9200075452	40	2.11		2602	10/6/2017	10/31/2017
1026	OL	40111200	10/27/2017	2017	10	ZJ	9200075453	40	11.03		2602	10/27/2017	10/31/2017
1026	OL	40111200	10/30/2017	2017	10	ZJ	9200075454	40	0.16		2602	10/30/2017	10/31/2017
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1026	OL	40111200	10/30/2017	2017	10	ZJ	9200075456	50	-3.10		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/30/2017	2017	10	ZJ	9200075456	50	-32.93		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/30/2017	2017	10	ZJ	9200075456	40	47.02		2602	10/30/2017	10/31/2017
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1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-1.89		2605	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-0.83		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-1.99		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-6.29		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-1.99		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-2.24		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-2.24		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-1.61		2602	10/30/2017	10/31/2017
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1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-1.45		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-1.57		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-1.02		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-2.20		2602	10/30/2017	10/31/2017
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1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-1.98		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-11.40		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-10.37		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-6.49		2602	10/30/2017	10/31/2017
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1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-1.50		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-2.19		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-0.66		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-8.87		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-0.84		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-1.95		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-1.95		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-1.47		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-1.47		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-82.75		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-0.80		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-4.04		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-0.80		2602	10/30/2017	10/31/2017
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1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-0.88		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-0.99		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-0.16		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-0.81		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-0.81		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-1.45		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-8.02		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075457	50	-0.16		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/11/2017	2017	10	ZJ	9200075458	40	7.88		2602	10/11/2017	10/31/2017
1026	OL	40111200	10/19/2017	2017	10	ZJ	9200075459	40	12.28		2602	10/19/2017	10/31/2017
1026	OL	40111200	10/30/2017	2017	10	ZJ	9200075461	40	15.43		2602	10/30/2017	10/31/2017
1026	OL	40111200	10/30/2017	2017	10	ZJ	9200075461	40	7.24		2602	10/30/2017	10/31/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	10/25/2017	2017	10	ZJ	9200075506	40	2.15		2602	10/25/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075508	40	1.57		2602	10/31/2017	10/31/2017
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1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075508	40	1.95		2602	10/31/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075508	40	17.27		2602	10/31/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075508	40	1.95		2602	10/31/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075508	40	1.68		2602	10/31/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075508	40	1.45		2602	10/31/2017	10/31/2017
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1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075508	40	1.95		2602	10/31/2017	10/31/2017
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1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075508	40	1.52		2602	10/31/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075508	40	2.07		2602	10/31/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075509	40	2.02		2602	10/31/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075509	40	13.88		2602	10/31/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075509	40	17.20		2602	10/31/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075509	40	2.83		2602	10/31/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075509	40	2.11		2602	10/31/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075513	40	18.85		2602	10/31/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075513	50	-2.11		2602	10/31/2017	10/31/2017
1026	OL	40111200	10/31/2017	2017	10	ZJ	9200075513	50	-1.97		2602	10/31/2017	10/31/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075679	50	-1.57		2602	11/4/2017	11/5

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075514	50	-1.45		2602	10/31/2017	10/31/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075514	50	-13.05		2602	10/31/2017	10/31/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075515	50	-0.56		2602	10/31/2017	10/31/2017
1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075557	50	-70.06		2602	11/2/2017	11/1/2017
1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075557	50	-2,499.18		2602	11/2/2017	11/1/2017
1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075557	40	5.73		2602	11/2/2017	11/1/2017
1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075557	50	-11,087.55		2602	11/2/2017	11/1/2017
1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075557	40	1.79		2602	11/2/2017	11/1/2017
1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075557	50	-2.07		2602	11/2/2017	11/1/2017
1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075557	50	-169.70		2602	11/2/2017	11/1/2017
1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075557	40	4.42		2602	11/2/2017	11/1/2017
1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075557	50	-21.83		2602	11/2/2017	11/1/2017
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1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075557	40	10.13		2602	11/2/2017	11/1/2017
1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075557	50	-5.59		2605	11/2/2017	11/1/2017
1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075557	40	45.26		2602	11/2/2017	11/1/2017
1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075557	40	36.29		2602	11/2/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075559	40	0.06		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075559	40	1.95		2602	11/1/2017	11/1/2017
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1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075559	40	2.85		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075559	40	2.24		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075559	40	2.07		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075559	40	2.07		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075559	40	2.02		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075561	50	-2.06		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075561	40	12.28		2602	11/1/2017	11/1/2017
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1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075561	40	2.96		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075561	40	8.97		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075561	40	1.95		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075561	40	12.62		2602	11/1/2017	11/1/2017
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1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075561	40	14.56		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075561	40	0.93		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075561	40	7.44		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075561	40	7.42		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075561	40	18.86		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075561	40	6.98		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075561	40	14.34		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075561	40	55.95		2602	11/1/2017	11/1/2017
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1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075561	40	9.09		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075561	40	26.30		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075561	40	13.97		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075561	40	25.31		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075561	50	-0.93		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075561	40	0.42		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075561	40	1.95		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075561	40	1.53		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075561	40	26.85		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075561	40	1.34		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075562	40	3.30		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075563	40	8.15		2602	11/2/2017	11/1/2017
1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075563	40	4.60		2602	11/2/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075564	50	-1.04		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075564	50	-5.19		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075564	50	-6.61		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075564	50	-2.46		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075564	50	-2.52		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075564	50	-1.21		2602	11/1/2017	11/1/2017
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1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075564	50	-4.74		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075564	50	-2.73		2602	11/1/2017	11/1/2017
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1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075564	50	-0.28		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075564	50	-1.83		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075564	50	-0.32		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075564	50	-0.32		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075564	50	-0.36		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075564	50	-0.48		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075564	50	-1.95		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075564	50	-1.95		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075564	50	-3.38		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075564	50	-3.56		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075564	50	-1.65		2602	11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075564	50	-0.16		2602	11/1/2017	11/1/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075564	50	-1.76	2602		11/1/2017	11/1/2017
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1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075564	50	-3.34	2602		11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075564	50	-3.10	2602		11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075564	50	-3.01	2602		11/1/2017	11/1/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075564	50	-4.86	2602		11/1/2017	11/1/2017
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1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075565	50	-3.80	2602		11/1/2017	11/1/2017
1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075565	50	-4.41	2602		11/1/2017	11/1/2017
1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075565	50	-18.86	2602		11/1/2017	11/1/2017
1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075565	50	-11.22	2602		11/1/2017	11/1/2017
1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075565	50	-4.35	2602		11/1/2017	11/1/2017
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1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075565	50	-23.55	2602		11/1/2017	11/1/2017
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1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075565	50	-23.29	2602		11/1/2017	11/1/2017
1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075565	50	-6.60	2602		11/1/2017	11/1/2017
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1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075565	50	-2.07	2602		11/1/2017	11/1/2017
1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075565	50	-1.53	2602		11/1/2017	11/1/2017
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1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075597	50	-17.02	2602		11/2/2017	11/2/2017
1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075598	50	-8.80	2602		11/2/2017	11/2/2017
1026	OL	40111200	11/3/2017	2017	11	ZJ	9200075600	50	-2.40	2605		11/3/2017	11/2/2017
1026	OL	40111200	11/3/2017	2017	11	ZJ	9200075600	50	-82.38	2602		11/3/2017	11/2/2017
1026	OL	40111200	11/3/2017	2017	11	ZJ	9200075600	40	1.47	2602		11/3/2017	11/2/2017
1026	OL	40111200	11/3/2017	2017	11	ZJ	9200075600	40	7.24	2602		11/3/2017	11/2/2017
1026	OL	40111200	11/3/2017	2017	11	ZJ	9200075600	50	-5,195.18	2602		11/3/2017	11/2/2017
1026	OL	40111200	11/3/2017	2017	11	ZJ	9200075600	50	-184.17	2602		11/3/2017	11/2/2017
1026	OL	40111200	11/3/2017	2017	11	ZJ	9200075600	50	-480.09	2602		11/3/2017	11/2/2017
1026	OL	40111200	11/3/2017	2017	11	ZJ	9200075600	50	-4.24	2605		11/3/2017	11/2/2017
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1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075606	40	2.20	2602		11/2/2017	11/2/2017
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1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075607	40	22.29	2602		11/2/2017	11/2/2017
1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075607	40	2.15	2602		11/2/2017	11/2/2017
1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075607	40	7.88	2602		11/2/2017	11/2/2017
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1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075610	40	51.64	2602		11/2/2017	11/2/2017
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1026	OL	40111200	11/3/2017	2017	11	ZJ	9200075611	50	-1.31	2602		11/2/2017	11/2/2017
1026	OL	40111200	11/3/2017	2017	11	ZJ	9200075611	50	-2.86	2602		11/2/2017	11/2/2017
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1026	OL	40111200	11/3/2017	2017	11	ZJ	9200075611	50	-22.60	2602		11/2/2017	11/2/2017
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1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075646	50	-124.72	2602		11/6/2017	11/3/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075646	50	-9,203.45	2602		11/6/2017	11/3/2017
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1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075646	40	29.63	2602		11/6/2017	11/3/2017
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1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075646	50	-12.73	2602		11/6/2017	11/3/2017
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1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075646	50	-8.98	2602		11/6/2017	11/3/2017
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1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075646	50	-4.12	2602		11/6/2017	11/3/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075646	50	-184.80	2602		11/6/2017	11/3/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075646	50	-4.12	2602		11/6/2017	11/3/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075646	50	-4.74	2602		11/6/2017	11/3/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075646	40	22.74	2602		11/6/2017	11/3/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075646	50	-2.09	2602		11/6/2017	11/3/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075646	40	3.71	2602		11/6/2017	11/3/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075646	40	3.84	2602		11/6/2017	11/3/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075646	50	-1.37	2602		11/6/2017	11/3/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075646	50	12.32	2602		11/6/2017	11/3/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	11/3/2017	2017	11	ZJ	9200075656	40	0.41		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/3/2017	2017	11	ZJ	9200075656	40	2.06		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/3/2017	2017	11	ZJ	9200075656	40	4.12		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/3/2017	2017	11	ZJ	9200075660	50	-2.20		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/3/2017	2017	11	ZJ	9200075660	50	-0.54		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/3/2017	2017	11	ZJ	9200075660	50	-17.13		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/3/2017	2017	11	ZJ	9200075660	50	-0.86		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/3/2017	2017	11	ZJ	9200075660	50	-1.95		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/3/2017	2017	11	ZJ	9200075660	50	-0.56		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/3/2017	2017	11	ZJ	9200075660	50	-2.85		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/3/2017	2017	11	ZJ	9200075660	50	-1.24		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075662	50	-2.85		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075662	50	-0.59		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075662	50	-0.20		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075662	50	-5.63		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075662	50	-2.24		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075662	50	-36.51		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075662	50	-4.33		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075662	50	-2.02		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075662	50	-2.07		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075664	50	-2.07		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075664	50	-3.27		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075664	50	-3.27		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075664	50	-2.07		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075664	50	-2.32		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075664	50	-10.27		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075664	50	-10.34		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075664	50	-2.11		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075664	50	-2.07		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075664	50	-2.10		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075664	50	-5.04		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075664	50	-2.02		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075664	50	-1.04		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075664	50	-2.80		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075664	50	-29.20		2602	11/3/2017	11/3/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075702	50	-1,942.47		2602	11/7/2017	11/6/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075702	50	-256.92		2602	11/7/2017	11/6/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075702	40	14.59		2602	11/7/2017	11/6/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075702	50	-9,875.29		2602	11/7/2017	11/6/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075702	50	-0.76		2602	11/7/2017	11/6/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075702	50	-2.20		2602	11/7/2017	11/6/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075702	50	-2.11		2602	11/7/2017	11/6/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075702	50	-124.26		2602	11/7/2017	11/6/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075702	50	-2.85		2602	11/7/2017	11/6/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075702	50	-32.40		2602	11/7/2017	11/6/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075702	40	4.15		2602	11/7/2017	11/6/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075702	50	-57.88		2602	11/7/2017	11/6/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075702	50	-8.25		2602	11/7/2017	11/6/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075702	40	15.98		2602	11/7/2017	11/6/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075702	40	4.05		2602	11/7/2017	11/6/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075732	50	-0.61		2602	11/8/2017	11/7/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075732	40	0.13		2602	11/8/2017	11/7/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075732	50	-8,414.04		2602	11/8/2017	11/7/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075732	50	-1,143.30		2602	11/8/2017	11/7/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075732	50	-0.06		2602	11/8/2017	11/7/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075732	40	3.19		2602	11/8/2017	11/7/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075732	40	33.69		2602	11/8/2017	11/7/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075732	50	-195.12		2602	11/8/2017	11/7/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075732	40	0.08		2602	11/8/2017	11/7/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075732	50	-1.58		2602	11/8/2017	11/7/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075732	50	-41.25		2602	11/8/2017	11/7/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075732	40	0.01		2602	11/8/2017	11/7/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075732	50	-0.20		2602	11/8/2017	11/7/2017
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1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075733	40	1.58		2602	11/7/2017	11/7/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075733	40	2.38		2602	11/7/2017	11/7/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075733	40	0.61		2602	11/7/2017	11/7/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075733	40	2.11		2602	11/7/2017	11/7/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075733	40	2.11		2602	11/7/2017	11/7/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075739	40	2.07		2602	11/6/2017	11/7/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075739	40	17.92		2602	11/6/2017	11/7/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075739	40	17.94		2602	11/6/2017	11/7/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075740	40	3.48		2602	11/6/2017	11/7/2017
1026	OL	40111200	11/2/2017	2017	11	ZJ	9200075741	40	1.13		2602	11/2/2017	11/7/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075742	40	2.85		2602	11/6/2017	11/7/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075742	40	57.88		2602	11/6/2017	11/7/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075742	40	2.20		2602	11/6/2017	11/7/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075745	40	52.75		2602	11/7/2017	11/7/2017
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1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075745	50	-2.24		2602	11/7/2017	11/7/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075745	50	-0.20		2602	11/7/2017	11/7/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075746	50	-2.20		2602	11/7/2017	11/7/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075746	50	-80.90		2602	11/7/2017	11/7/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ							

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1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075746	50	-0.60		2602	11/7/2017	11/7/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075746	50	-4.22		2602	11/7/2017	11/7/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075746	50	-71.92		2602	11/7/2017	11/7/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075746	50	-1.67		2602	11/7/2017	11/7/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075746	50	-1.52		2602	11/7/2017	11/7/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075746	50	-33.17		2602	11/7/2017	11/7/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075746	50	-1.74		2602	11/7/2017	11/7/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075746	50	-73.02		2602	11/7/2017	11/7/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075746	50	-4.72		2602	11/7/2017	11/7/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075746	50	-2.61		2602	11/7/2017	11/7/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075746	50	-23.74		2602	11/7/2017	11/7/2017
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1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075746	50	-72.26		2602	11/7/2017	11/7/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075747	50	-4.12		2602	11/8/2017	11/7/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075747	50	-2.85		2602	11/8/2017	11/7/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075748	50	-7.53		2602	11/7/2017	11/7/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075748	50	-5.18		2602	11/7/2017	11/7/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075748	50	-4.67		2602	11/7/2017	11/7/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075748	50	-5.42		2602	11/7/2017	11/7/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075749	40	77.82		2602	11/7/2017	11/7/2017
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1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075749	40	18.55		2602	11/7/2017	11/7/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075749	40	4.12		2602	11/7/2017	11/7/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075749	40	18.05		2602	11/7/2017	11/7/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075750	50	-6.19		2602	11/6/2017	11/7/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075750	50	-0.06		2602	11/6/2017	11/7/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075750	50	-0.06		2602	11/6/2017	11/7/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075750	50	-2.07		2602	11/6/2017	11/7/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075750	50	-57.97		2602	11/6/2017	11/7/2017
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1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075750	50	-6.42		2602	11/6/2017	11/7/2017
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1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075750	50	-8.52		2602	11/6/2017	11/7/2017
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1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075800	40	1.47		2602	11/8/2017	11/8/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075802	50	-2.15		2602	11/9/2017	11/8/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075802	50	-11,961.78		2602	11/9/2017	11/8/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075802	50	-184.41		2602	11/9/2017	11/8/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075802	50	-2.11		2602	11/9/2017	11/8/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075802	50	-0.76		2602	11/9/2017	11/8/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075802	40	2.71		2602	11/9/2017	11/8/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075802	50	-34.82		2602	11/9/2017	11/8/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075802	50	-75.27		2602	11/9/2017	11/8/2017
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1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075810	40	6.00		2602	11/8/2017	11/8/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075810	40	6.00		2602	11/8/2017	11/8/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075810	40	2.02		2602	11/8/2017	11/8/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075810	40	5.36		2602	11/8/2017	11/8/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075811	40	21.08		2602	11/8/2017	11/8/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075811	40	2.24		2602	11/8/2017	11/8/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075811	40	7.88		2602	11/8/2017	11/8/2017
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1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075817	50	-1.70		2602	11/8/2017	11/8/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075817	50	-9.61		2602	11/8/2017	11/8/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075817	40	17.24		2602	11/8/2017	11/8/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075817	50	-4.98		2602	11/8/2017	11/8/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200075817	50	-2.09		2602	11/8/2017	11/8/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075818	50	-3.99		2602	11/8/2017	11/8/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075818	50	-4.23		2602	11/8/2017	11/8/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075818	50	-3.60		2602	11/8/2017	11/8/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075818	50	-12.73		2602	11/8/2017	11/8/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075818	50	-14.83		2602	11/8/2017	11/8/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075818	50	-2.85		2602	11/8/2017	11/8/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075818	50	-2.85		2602	11/8/2017	11/8/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075818	50	-2.20		2602	11/8/2017	11/8/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075818	50	-2.11	2602		11/8/2017	11/8/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075818	50	-58.92	2602		11/8/2017	11/8/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075818	50	-6.93	2602		11/8/2017	11/8/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075818	50	-1.47	2602		11/8/2017	11/8/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075818	50	-63.04	2602		11/8/2017	11/8/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075844	50	-76.44	2602		11/10/2017	11/9/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075844	50	-2.24	2602		11/10/2017	11/9/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075844	50	-2.07	2602		11/10/2017	11/9/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075844	50	-2.15	2602		11/10/2017	11/9/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075844	40	16.28	2605		11/10/2017	11/9/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075844	50	-2.20	2602		11/10/2017	11/9/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075844	50	-587.69	2602		11/10/2017	11/9/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075844	40	14.01	2602		11/10/2017	11/9/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075844	40	2.45	2602		11/10/2017	11/9/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075844	50	-10.53	2605		11/10/2017	11/9/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075844	50	-399.63	2602		11/10/2017	11/9/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075844	50	-8,418.24	2602		11/10/2017	11/9/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075844	50	-3,230.07	2605		11/10/2017	11/9/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075844	40	0.01	2602		11/10/2017	11/9/2017
1026	OL	40111200	11/3/2017	2017	11	ZJ	9200075845	40	0.41	2602		11/3/2017	11/9/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075846	40	4.12	2602		11/7/2017	11/9/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075847	40	2.12	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075847	40	1.58	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075847	40	3.39	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075847	40	2.15	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075847	40	2.07	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075847	40	2.07	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075847	40	0.59	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200075852	40	2.24	2602		11/1/2017	11/9/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075853	40	6.00	2602		11/9/2017	11/9/2017
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1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075853	40	2.20	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075853	40	4.45	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075853	40	7.88	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075853	40	6.63	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075853	40	2.04	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075853	40	6.32	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075854	40	3.48	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075861	50	-2.04	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075861	50	-2.24	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075861	50	-2.07	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075861	50	-1.95	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075861	50	-2.20	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200075861	50	-2.15	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075862	50	-0.34	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075862	50	-2.07	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075862	50	-0.93	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075862	50	-0.14	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200075862	50	-1.24	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075863	50	-163.09	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075863	50	-3.97	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075863	50	-2.06	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075863	50	-2.24	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075863	50	-69.37	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075863	50	-29.19	2602		11/9/2017	11/9/2017
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1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075863	50	-3.48	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075863	50	-4.74	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075863	50	-7.77	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075863	50	-2.15	2602		11/9/2017	11/9/2017
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1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075863	50	-79.67	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075863	50	-38.23	2602		11/9/2017	11/9/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075899	40	2.00	2602		11/10/2017	11/10/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075900	40	2.63	2602		11/10/2017	11/10/2017
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1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075902	40	0.22	2602		11/10/2017	11/10/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200075904	50	-12.40	2602		11/13/2017	11/10/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200075904	40	7.21	2602		11/13/2017	11/10/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200075904	50	-2.11	2602		11/13/2017	11/10/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200075904	40	2.09	2602		11/13/2017	11/10/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200075904	50	-4.14	2602		11/13/2017	11/10/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200075904	40	3.84	2605		11/13/2017	11/10/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200075904	40	14.30	2605		11/13/2017	11/10/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200075904	50	-11.40	2602		11/13/2017	11/10/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200075904	50	-70.88	2602		11/13/2017	11/10/2017
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1026	OL	40111200	11/13/2017	2017	11	ZJ	9200075904	50	-15.35	2602		11/13/2017	11/10/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200075904	50	-1.33	2602		11/13/2017	11/10/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200075904	40	10.43	2602		11/13/2017	11/10/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200075904	50	-2.85	2602		11/13/2017	11/10/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200075904	50	-378.57	2602		11/13/2017	11/10/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200075904	40	10.49	2602		11/13/2017	11/10/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200075904	50	-14,768.95	2602		11/13/2017	11/10/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075911	40	19.54	2602		11/10/2017	11/10/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075911	40	2.06	2602		11/10/2017	11/10/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075911	40	2.24	2602		11/10/2017	11/10/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075911	40	66.96	2602		11/10/2017	11/10/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075911	40	2.10	2602		11/10/2017	11/10/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075911	40	12.28	2602		11/10/2017	11/10/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075911	40	3.48	2602		11/10/2017	11/10/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075911	40	2.24	2602		11/10/2017	11/10/2017
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1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075914	50	-0.22	2602		11/10/2017	11/10/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075914	50	-2.63	2602		11/10/2017	11/10/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075914	50	-3.81	2602		11/10/2017	11/10/2017
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1026	OL	40111200	11/13/2017	2017	11	ZJ	9200075915	50	-48.46	2602		11/10/2017	11/10/2017
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1026	OL	40111200	11/13/2017	2017	11	ZJ	9200075915	50	-2.10	2602		11/10/2017	11/10/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200075915	50	-4.45	2602		11/10/2017	11/10/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200075915	50	-2.02	2602		11/10/2017	11/10/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200075962	50	-2.62	2602		11/14/2017	11/13/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200075962	50	-2.62	2602		11/14/2017	11/13/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200075962	50	-859.13	2602		11/14/2017	11/13/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200075962	50	-99.72	2605		11/14/2017	11/13/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200075962	50	-2.39	2602		11/14/2017	11/13/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200075962	50	-5.45	2602		11/14/2017	11/13/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200075962	40	2.88	2605		11/14/2017	11/13/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200075962	50	-34.43	2602		11/14/2017	11/13/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200075962	50	-11,704.48	2602		11/14/2017	11/13/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200075962	50	-3,059.16	2605		11/14/2017	11/13/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200075962	40	20.29	2602		11/14/2017	11/13/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200075962	50	-47.68	2602		11/14/2017	11/13/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200075962	50	-2.55	2602		11/14/2017	11/13/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200075962	40	1.77	2602		11/14/2017	11/13/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200075962	40	9.44	2605		11/14/2017	11/13/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200075962	50	-52.94	2605		11/14/2017	11/13/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200075962	40	0.63	2602		11/14/2017	11/13/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200075962	50	-37.13	2602		11/14/2017	11/13/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200076197	40	2.15	2602		11/9/2017	11/19/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200076198	40	1.10	2602		11/10/2017	11/19/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200075990	40	2.16	2602		11/13/2017	11/14/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200075990	40	0.20	2602		11/13/2017	11/14/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200075990	40	2.07	2602		11/13/2017	11/14/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200075990	40	2.07	2602		11/13/2017	11/14/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200075990	40	0.06	2602		11/13/2017	11/14/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200075990	40	1.95	2602		11/13/2017	11/14/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200075990	40	1.95	2602		11/13/2017	11/14/2017
1026	OL	40111200	11/7/2017	2017	11	ZJ	9200075991	40	1.43	2602		11/7/2017	11/14/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200075992	40	7.88	2602		11/9/2017	11/14/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200075993	40	0.06	2602		11/14/2017	11/14/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200075993	40	1.17	2602		11/14/2017	11/14/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200075998	50	-101.71	2605		11/15/2017	11/14/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200075998	40	2.16	2602		11/15/2017	11/14/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200075998	50	-1.47	2602		11/15/2017	11/14/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200075998	50	-8.28	2602		11/15/2017	11/14/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200075998	50	-14.85	2605		11/15/2017	11/14/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200075998	50	-185.77	2602		11/15/2017	11/14/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200075998	50	-6.00	2602		11/15/2017	11/14/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200075998	50	-1.17	2602		11/15/2017	11/14/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200075998	50	-2.07	2602		11/15/2017	11/14/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200075998	50	-2.07	2602		11/15/2017	11/14/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200075998	50	-4,724.20	2602		11/15/2017	11/14/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200075998	50	-6,645.18	2602		11/15/2017	11/14/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200075998	50	-3,185.13	2605		11/15/2017	11/14/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200075998	50	-47.72	2605		11/15/2017	11/14/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200075998	50	-1.95	2602		11/15/2017	11/14/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200075998	50	-347.80	2602		11/15/2017	11/14/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200075998	50	-1.95	2602		11/15/2017	11/14/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200076001	40	7.34	2602		11/14/2017	11/14/2017
1026	OL	40111200	11/1/2017	2017	11	ZJ	9200076002	40	10.49	2605		11/1/2017	11/14/2017
1026	OL	40111200	11/9/2017	2017	11	ZJ	9200076004	40	2.11	2602		11/9/2017	11/14/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200076005	40	6.12	2605		11/14/2017	11/14/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200076005	40	2.86	2605		11/14/2017	11/14/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200076005	40					

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	11/13/2017	2017	11	ZJ	9200076013	40	2.06	2602		11/13/2017	11/14/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200076013	40	15.43	2602		11/13/2017	11/14/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200076013	40	2.06	2602		11/13/2017	11/14/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200076013	40	4.00	2602		11/13/2017	11/14/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200076013	40	5.05	2602		11/13/2017	11/14/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200076013	40	25.92	2602		11/13/2017	11/14/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200076013	40	4.12	2602		11/13/2017	11/14/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200076013	40	2.20	2602		11/13/2017	11/14/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200076013	40	4.12	2602		11/13/2017	11/14/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200076013	40	3.48	2602		11/13/2017	11/14/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200076013	40	2.04	2602		11/13/2017	11/14/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200076013	40	2.20	2602		11/13/2017	11/14/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200076013	40	4.69	2602		11/13/2017	11/14/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200076013	40	1.59	2602		11/13/2017	11/14/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200076013	40	5.32	2602		11/13/2017	11/14/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200076013	40	2.20	2602		11/13/2017	11/14/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200076013	40	13.54	2602		11/13/2017	11/14/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200076015	40	2.07	2602		11/14/2017	11/14/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200076015	40	2.07	2602		11/14/2017	11/14/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200076018	40	14.52	2602		11/14/2017	11/14/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200076018	50	-0.86	2602		11/14/2017	11/14/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200076018	50	-7.34	2602		11/14/2017	11/14/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200076019	50	-3.47	2605		11/14/2017	11/14/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200076019	50	-2.86	2605		11/14/2017	11/14/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200076019	50	-2.86	2605		11/14/2017	11/14/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200076019	50	-2.23	2605		11/14/2017	11/14/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200076019	50	-6.21	2602		11/14/2017	11

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200076064	40	2.23	2602		11/15/2017	11/15/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200076073	40	2.18	2602		11/3/2017	11/15/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200076074	40	4.87	2602		11/6/2017	11/15/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200076079	40	2.85	2602		11/13/2017	11/15/2017
1026	OL	40111200	11/14/2017	2017	11	ZJ	9200076080	40	4.12	2602		11/14/2017	11/15/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200076081	40	2.69	2602		11/15/2017	11/15/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200076081	40	2.69	2602		11/15/2017	11/15/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200076081	40	7.25	2602		11/15/2017	11/15/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200076081	40	1.22	2602		11/15/2017	11/15/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200076081	40	13.54	2602		11/15/2017	11/15/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200076081	40	3.44	2602		11/15/2017	11/15/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200076081	40	3.27	2602		11/15/2017	11/15/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200076081	40	2.24	2602		11/15/2017	11/15/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200076081	40	11.03	2602		11/15/2017	11/15/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200076081	40	0.48	2602		11/15/2017	11/15/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200076081	40	3.47	2605		11/15/2017	11/15/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200076081	40	1.12	2602		11/15/2017	11/15/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200076081	40	21.76	2602		11/15/2017	11/15/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200076081	40	29.18	2602		11/15/2017	11/15/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200076081	40	2.85	2602		11/15/2017	11/15/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076082	40	8.24	2602		11/15/2017	11/15/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076082	40	5.36	2602		11/15/2017	11/15/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076082	40	7.43	2602		11/15/2017	11/15/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200076090	50	-2.07	2602		11/15/2017	11/15/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200076090	50	-0.14	2602		11/15/2017	11/15/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200076090	50	-1.13	2602		11/15/2017	11/15/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200076090	50	-2.79	2602		11/15/2017	11/15/2017
1026	OL	40111200	11/15/2017	2017	11	ZJ	9200076090	50	-2.15	2602		11/15/2017	11/1

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076128	40	5.38		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076128	40	5.96		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076128	40	5.36		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076128	40	4.69		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076128	40	5.99		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076128	40	8.52		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076128	40	3.48		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076128	40	16.05		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076128	40	5.05		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076128	40	8.31		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076128	40	6.00		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076128	40	19.20		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076128	40	47.59		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076128	40	6.97		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076128	40	2.10		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076138	50	-71.92		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076138	50	-37.11		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076138	50	-1.74		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076138	50	-72.26		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076138	50	-1.67		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076138	50	-72.27		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076138	50	-80.90		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076138	50	-1.52		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076138	50	-2.24		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076138	50	-2.24		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076138	50	-33.17		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076138	50	-73.02		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076140	50	-4.15		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076140	50	-2.11		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076140	50	-2.20		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076140	50	-2.10		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076140	50	-2.11		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076140	50	-0.61		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076140	50	-2.11		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076140	50	-24.12		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076140	50	-4.40		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076140	50	-2.54		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076140	50	-2.54		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076140	50	-2.32		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076140	50	-4.22		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076140	50	-2.48		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076140	50	-2.06		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076140	50	-33.56		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076140	50	-11.69		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076140	50	-2.24		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076140	50	-8.47		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076140	50	-4.08		2602	11/16/2017	11/16/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200076166	40	6.15		2602	11/6/2017	11/17/2017
1026	OL	40111200	11/13/2017	2017	11	ZJ	9200076167	40	2.11		2602	11/13/2017	11/17/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076168	40	3.48		2602	11/17/2017	11/17/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076168	40	5.69		2602	11/17/2017	11/17/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076168	40	2.24		2602	11/17/2017	11/17/2017
1026	OL	40111200	11/18/2017	2017	11	ZJ	9200076169	40	4.02		2602	11/17/2017	11/17/2017
1026	OL	40111200	11/18/2017	2017	11	ZJ	9200076169	40	3.48		2602	11/17/2017	11/17/2017
1026	OL	40111200	11/18/2017	2017	11	ZJ	9200076169	40	4.12		2602	11/17/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076175	50	-2.07		2602	11/20/2017	11/17/2017
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1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076175	50	-20.65		2602	11/20/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076175	50	-14.59		2605	11/20/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076175	50	-4.02		2602	11/20/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076175	50	-1.67		2602	11/20/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076175	40	0.84		2602	11/20/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076175	50	-4.12		2602	11/20/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076175	50	-0.06		2602	11/20/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076175	50	-2.11		2602	11/20/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076175	50	-15.12		2605	11/20/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076175	40	59.48		2602	11/20/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076175	50	-3.48		2602	11/20/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076175	50	-25.30		2602	11/20/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076175	40	0.27		2602	11/20/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076175	50	-88.41		2602	11/20/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076175	40	5.70		2602	11/20/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076175	50	-3.80		2602	11/20/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076175	50	-2.15		2602	11/20/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076175	50	-2,763.75		2602	11/20/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076175	40	11.67		2602	11/20/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076175	50	-3.48		2602	11/20/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076175	50	-8,857.33		2602	11/20/2017	11/17/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200076181	40	49.24		2602	11/8/2017	11/17/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076183	40	4.43		2605	11/15/2017	11/17/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076184	40	3.48		2602	11/17/2017	11/17/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076184	40	1.53		2602	11/17/2017	11/17/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076184	40	7.79		2605	11/17/2017	11/17/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076184	40	8.33		2602	11/17/2017	11/17/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076184	40	2.69	</			

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076184	40	26.38	2602		11/17/2017	11/17/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076184	40	4.31	2602		11/17/2017	11/17/2017
1026	OL	40111200	11/18/2017	2017	11	ZJ	9200076185	40	3.04	2605		11/18/2017	11/17/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076189	50	-3.00	2602		11/17/2017	11/17/2017
1026	OL	40111200	11/17/2017	2017	11	ZJ	9200076189	50	-2.24	2602		11/17/2017	11/17/2017
1026	OL	40111200	11/18/2017	2017	11	ZJ	9200076190	50	-9.85	2602		11/17/2017	11/17/2017
1026	OL	40111200	11/18/2017	2017	11	ZJ	9200076190	50	-6.33	2602		11/17/2017	11/17/2017
1026	OL	40111200	11/18/2017	2017	11	ZJ	9200076190	50	-13.44	2602		11/17/2017	11/17/2017
1026	OL	40111200	11/18/2017	2017	11	ZJ	9200076190	50	-4.87	2602		11/17/2017	11/17/2017
1026	OL	40111200	11/18/2017	2017	11	ZJ	9200076190	50	-2.00	2602		11/17/2017	11/17/2017
1026	OL	40111200	11/18/2017	2017	11	ZJ	9200076190	50	-6.97	2602		11/17/2017	11/17/2017
1026	OL	40111200	11/18/2017	2017	11	ZJ	9200076190	50	-5.65	2605		11/17/2017	11/17/2017
1026	OL	40111200	11/18/2017	2017	11	ZJ	9200076190	50	-9.26	2602		11/17/2017	11/17/2017
1026	OL	40111200	11/18/2017	2017	11	ZJ	9200076190	50	-1.99	2602		11/17/2017	11/17/2017
1026	OL	40111200	11/18/2017	2017	11	ZJ	9200076190	50	-1.99	2602		11/17/2017	11/17/2017
1026	OL	40111200	11/18/2017	2017	11	ZJ	9200076190	50	-1.99	2602		11/17/2017	11/17/2017
1026	OL	40111200	11/18/2017	2017	11	ZJ	9200076190	50	-1.99	2602		11/17/2017	11/17/2017
1026	OL	40111200	11/18/2017	2017	11	ZJ	9200076190	50	-6.15	2602		11/17/2017	11/17/2017
1026	OL	40111200	11/18/2017	2017	11	ZJ	9200076190	50	-0.85	2602		11/17/2017	11/17/2017
1026	OL	40111200	11/18/2017	2017	11	ZJ	9200076190	50	-2.11	2602		11/17/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076191	50	-3.47	2605		11/17/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076191	50	-2.11	2602		11/17/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076191	50	-3.26	2605		11/17/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076191	50	-3.43	2605		11/17/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076191	50	-4.22	2602		11/17/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076191	50	-4.22	2602		11/17/2017	11/17/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076191	50	-2.03	2602		11/17/2017	11

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076250	50	-0.16	2602		11/20/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076250	50	-7.04	2602		11/20/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076250	50	-0.82	2602		11/20/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076250	50	-0.16	2602		11/20/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076250	50	-0.93	2602		11/20/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076250	50	-1.83	2602		11/20/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076250	50	-1.55	2602		11/20/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076250	50	-0.80	2602		11/20/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076250	50	-1.22	2602		11/20/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076250	50	-0.28	2602		11/20/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076250	50	-0.80	2602		11/20/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076250	50	-0.80	2602		11/20/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076250	50	-0.80	2602		11/20/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076250	50	-0.81	2602		11/20/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076250	50	-0.80	2602		11/20/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076250	50	-0.80	2602		11/20/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076250	50	-2.07	2602		11/20/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076250	50	-1.45	2602		11/20/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076250	50	-1.45	2602		11/20/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076250	50	-1.45	2602		11/20/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076250	50	-1.57	2602		11/20/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076250	50	-1.95	2602		11/20/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076250	50	-1.45	2602		11/20/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076250	50	-1.95	2602		11/20/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076250	50	-1.95	2602		11/20/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076250	50	-2.03	2602		11/20/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076250	50	-2.24	2602		11/20/2017	11/2

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076305	50	-7,095.15		2602	11/22/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076305	50	-8.59		2602	11/22/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076305	40	8.86		2602	11/22/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076305	50	-5.36		2602	11/22/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076305	50	-4.92		2602	11/22/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076305	50	-1,447.95		2603	11/22/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076305	50	-175.50		2602	11/22/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076305	50	-656.00		2602	11/22/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076305	50	-2.34		2602	11/22/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076305	50	-6.67		2602	11/22/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076305	50	-6.04		2602	11/22/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076305	50	-9.75		2602	11/22/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076305	50	-7.40		2602	11/22/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076305	50	-84.69		2602	11/22/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076305	40	20.10		2602	11/22/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076305	50	-0.06		2602	11/22/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076305	50	-5.97		2602	11/22/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076305	40	0.13		2602	11/22/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076305	50	-9.76		2602	11/22/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076305	50	-6.50		2602	11/22/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076305	50	-1.47		2602	11/22/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076305	50	-2.57		2602	11/22/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076305	50	-17.29		2602	11/22/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076305	50	-7.40		2602	11/22/2017	11/21/2017
1026	OL	40111200	11/3/2017	2017	11	ZJ	9200076306	40	7.88		2602	11/3/2017	11/21/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200076310	40	1.47		2602	11/10/2017	11/21/2017
1026	OL	40111200	11/10/2017	2017	11	ZJ	9200076310	40	43.72		2602	11/10/2017	11/21/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076312	40	12.09		2605	11/16/2017	11/21/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076313	40	2.07		2602	11/20/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076314	50	-0.03		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076314	40	12.66		2605	11/21/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076314	40	2.11		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076314	40	12.72		2605	11/21/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076314	40	6.82		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076314	40	12.91		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076314	40	82.07		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076314	40	42.53		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076314	40	1.99		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076314	40	2.10		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076316	40	5.50		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076322	50	-2.15		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076322	50	-3.48		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076322	50	-2.69		2602	11/21/2017	11/21/2017
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1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076322	50	-2.85		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076322	50	-2.85		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076322	50	-158.25		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076322	50	-2.24		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076322	50	-0.71		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076322	50	-137.47		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	40	2.10		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-34.86		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-7.83		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-2.60		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-2.69		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-12.00		2605	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-1.63		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-2.24		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-12.40		2605	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-2.89		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-2.15		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-0.48		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-21.83		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-6.23		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-12.42		2605	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-2.43		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-78.44		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-2.85		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-3.27		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-2.07		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-11.90		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-1.95		2602	11/21/2017	11/21/2017
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1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-0.26		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-1.57		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-8.88		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-29.02		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-55.60		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-3.86		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-3.86		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-2.24		2602	11/21/2017	11/21/2017
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1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-6.99		2602	11/21/2017	11/21/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076323	50	-2				

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	11/27/2017	2017	11	ZJ	9200076354	50	-1.66	2605		11/27/2017	11/22/2017
1026	OL	40111200	11/27/2017	2017	11	ZJ	9200076354	50	-96.18	2602		11/27/2017	11/22/2017
1026	OL	40111200	11/27/2017	2017	11	ZJ	9200076354	40	9.30	2602		11/27/2017	11/22/2017
1026	OL	40111200	11/27/2017	2017	11	ZJ	9200076354	50	-2.20	2602		11/27/2017	11/22/2017
1026	OL	40111200	11/27/2017	2017	11	ZJ	9200076354	50	-46.35	2602		11/27/2017	11/22/2017
1026	OL	40111200	11/27/2017	2017	11	ZJ	9200076354	50	-1.24	2602		11/27/2017	11/22/2017
1026	OL	40111200	11/27/2017	2017	11	ZJ	9200076354	50	-5.38	2602		11/27/2017	11/22/2017
1026	OL	40111200	11/27/2017	2017	11	ZJ	9200076354	50	-5.05	2602		11/27/2017	11/22/2017
1026	OL	40111200	11/27/2017	2017	11	ZJ	9200076354	50	-2.24	2602		11/27/2017	11/22/2017
1026	OL	40111200	11/27/2017	2017	11	ZJ	9200076354	50	-9,642.57	2602		11/27/2017	11/22/2017
1026	OL	40111200	11/27/2017	2017	11	ZJ	9200076354	50	-2,979.13	2602		11/27/2017	11/22/2017
1026	OL	40111200	11/27/2017	2017	11	ZJ	9200076354	40	44.85	2602		11/27/2017	11/22/2017
1026	OL	40111200	11/27/2017	2017	11	ZJ	9200076354	50	-4.61	2602		11/27/2017	11/22/2017
1026	OL	40111200	11/27/2017	2017	11	ZJ	9200076354	50	-6.08	2602		11/27/2017	11/22/2017
1026	OL	40111200	11/27/2017	2017	11	ZJ	9200076354	50	-5.75	2602		11/27/2017	11/22/2017
1026	OL	40111200	11/27/2017	2017	11	ZJ	9200076354	50	-20.25	2603		11/27/2017	11/22/2017
1026	OL	40111200	11/27/2017	2017	11	ZJ	9200076354	50	-0.43	2602		11/27/2017	11/22/2017
1026	OL	40111200	11/6/2017	2017	11	ZJ	9200076357	40	5.31	2602		11/6/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076360	40	2.20	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076360	40	2.24	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076360	40	1.72	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/3/2017	2017	11	ZJ	9200076363	40	5.36	2602		11/3/2017	11/22/2017
1026	OL	40111200	11/8/2017	2017	11	ZJ	9200076365	40	4.63	2602		11/7/2017	11/22/2017
1026	OL	40111200	11/16/2017	2017	11	ZJ	9200076370	40	2.09	2602		11/15/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	2.07	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	0.80	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	0.81	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	0.80	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	1.57	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	1.22	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	1.95	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	1.95	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	0.82	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	1.83	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	2.03	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	1.95	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	1.95	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	1.55	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	0.12	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	1.45	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	0.28	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	0.16	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	1.45	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	1.45	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	1.45	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	0.16	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	0.16	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	0.16	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	1.45	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	1.45	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	1.45	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	0.80	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	0.16	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	0.80	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	0.80	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/21/2017	2017	11	ZJ	9200076371	40	2.07	2602		11/20/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076373	40	4.25	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076373	40	1.98	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076373	40	14.16	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076373	40	2.08	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076373	40	2.85	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076373	40	2.09	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076373	40	2.60	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076373	40	6.35	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076373	40	2.48	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076373	40	2.18	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076373	40	29.88	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076373	40	2.60	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076373	40	4.13	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076373	40	21.08	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076373	40	6.77	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076373	40	9.76	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076373	40	5.34	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076373	40	2.75	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076373	40	1.95	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076373	40	36.59	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076380	50	-2.15	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076380	50	-3.48	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076380	50	-3.48	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076380	50	-2.08	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076380	50	-1.24	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076380	40	27.21	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/22/2017	2017	11	ZJ	9200076380	50	-2.20	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/24/2017	2017	11	ZJ	9200076382	50	-1.09	2602			

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	11/24/2017	2017	11	ZJ	9200076382	50	-2.33	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/24/2017	2017	11	ZJ	9200076382	50	-2.06	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/24/2017	2017	11	ZJ	9200076382	50	-2.48	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/24/2017	2017	11	ZJ	9200076382	50	-2.68	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/24/2017	2017	11	ZJ	9200076382	50	-0.59	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/24/2017	2017	11	ZJ	9200076382	50	-2.32	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/24/2017	2017	11	ZJ	9200076382	50	-2.15	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/24/2017	2017	11	ZJ	9200076382	50	-2.15	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/24/2017	2017	11	ZJ	9200076382	50	-31.02	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/24/2017	2017	11	ZJ	9200076382	50	-2.32	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/24/2017	2017	11	ZJ	9200076382	50	-20.41	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/24/2017	2017	11	ZJ	9200076382	50	-2.18	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/24/2017	2017	11	ZJ	9200076382	50	-2.32	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/24/2017	2017	11	ZJ	9200076382	50	-2.62	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/24/2017	2017	11	ZJ	9200076382	50	-11.79	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/24/2017	2017	11	ZJ	9200076382	50	-1.78	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/24/2017	2017	11	ZJ	9200076382	50	-1.95	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/24/2017	2017	11	ZJ	9200076382	50	-2.21	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/24/2017	2017	11	ZJ	9200076382	50	-1.95	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/24/2017	2017	11	ZJ	9200076382	50	-29.20	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/24/2017	2017	11	ZJ	9200076382	50	-2.07	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/24/2017	2017	11	ZJ	9200076382	50	-2.07	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/24/2017	2017	11	ZJ	9200076382	50	-2.32	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/24/2017	2017	11	ZJ	9200076382	50	-6.15	2602		11/22/2017	11/22/2017
1026	OL	40111200	11/20/2017	2017	11	ZJ	9200076396	40	2.85	2602		11/20/2017	11/27/2017
1026	OL	40111200	11/27/2017	2017	11	ZJ	9200076397	50	-5.98	2602		11/27/2017	11/27/2017
1026	OL	40111200	11/28/2017	2017	11	ZJ	9200076398	50	-5.07	2602		11/27/2017	

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	11/29/2017	2017	11	ZI	9200076478	40	0.04		2602	11/29/2017	11/28/2017
1026	OL	40111200	11/29/2017	2017	11	ZI	9200076478	50	-2.05		2605	11/29/2017	11/28/2017
1026	OL	40111200	11/29/2017	2017	11	ZI	9200076478	50	-2.14		2602	11/29/2017	11/28/2017
1026	OL	40111200	11/29/2017	2017	11	ZI	9200076478	50	-2.14		2602	11/29/2017	11/28/2017
1026	OL	40111200	11/29/2017	2017	11	ZI	9200076478	40	6.48		2602	11/29/2017	11/28/2017
1026	OL	40111200	11/29/2017	2017	11	ZI	9200076478	50	-4.94		2605	11/29/2017	11/28/2017
1026	OL	40111200	11/29/2017	2017	11	ZI	9200076478	50	-16.40		2602	11/29/2017	11/28/2017
1026	OL	40111200	11/29/2017	2017	11	ZI	9200076478	50	-9,548.84		2602	11/29/2017	11/28/2017
1026	OL	40111200	11/29/2017	2017	11	ZI	9200076478	50	-614.98		2602	11/29/2017	11/28/2017
1026	OL	40111200	11/29/2017	2017	11	ZI	9200076478	50	-2.24		2602	11/29/2017	11/28/2017
1026	OL	40111200	11/29/2017	2017	11	ZI	9200076478	50	-2.07		2602	11/29/2017	11/28/2017
1026	OL	40111200	11/29/2017	2017	11	ZI	9200076478	50	-2.07		2602	11/29/2017	11/28/2017
1026	OL	40111200	11/29/2017	2017	11	ZI	9200076478	40	2.16		2602	11/29/2017	11/28/2017
1026	OL	40111200	11/7/2017	2017	11	ZI	9200076482	40	2.24		2602	11/7/2017	11/28/2017
1026	OL	40111200	11/14/2017	2017	11	ZI	9200076483	40	3.92		2602	11/14/2017	11/28/2017
1026	OL	40111200	11/20/2017	2017	11	ZI	9200076484	40	2.15		2602	11/20/2017	11/28/2017
1026	OL	40111200	11/22/2017	2017	11	ZI	9200076486	40	2.15		2602	11/22/2017	11/28/2017
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1026	OL	40111200	12/1/2017	2017	12	ZI	9200077008	40	2.07		2602	12/1/2017	12/12/2017
1026	OL	40111200	12/8/2017	2017	12	ZI	9200077009	40	2.15		2602	12/8/2017	12/12/2017
1026	OL	40111200	12/11/2017	2017	12	ZI	9200077010	40	5.54		2605	12/11/2017	12/12/2017
1026	OL	40111200	12/11/2017	2017	12	ZI	9200077010	40	2.11		2602	12/11/2017	12/12/2017
1026	OL	40111200	12/11/2017	2017	12	ZI	9200077010	40	0.34		2602	12/11/2017	12/12/2017
1026	OL	40111200	12/5/2017	2017	12	ZI	9200077015	40	14.79		2602	12/5/2017	12/12/2017
1026	OL	40111200	12/9/2017	2017	12	ZI	9200077017	40	4.74		2602	12/12/2017	12/12/2017
1026	OL	40111200	12/12/2017	2017	12	ZI	9200077018	40	3.48		2602	12/12/2017	12/12/2017
1026	OL	40111200	12/12/2017	2017</									

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	12/13/2017	2017	12	ZJ	9200077019	40	2.07		2602	12/12/2017	12/12/2017
1026	OL	40111200	12/13/2017	2017	12	ZJ	9200077019	40	7.25		2602	12/12/2017	12/12/2017
1026	OL	40111200	12/13/2017	2017	12	ZJ	9200077023	50	-2.63		2602	12/13/2017	12/12/2017
1026	OL	40111200	12/9/2017	2017	12	ZJ	9200077024	50	-2.85		2602	12/12/2017	12/12/2017
1026	OL	40111200	12/9/2017	2017	12	ZJ	9200077024	50	-2.24		2602	12/12/2017	12/12/2017
1026	OL	40111200	12/9/2017	2017	12	ZJ	9200077024	50	-9.31		2602	12/12/2017	12/12/2017
1026	OL	40111200	12/9/2017	2017	12	ZJ	9200077024	50	-8.59		2602	12/12/2017	12/12/2017
1026	OL	40111200	12/9/2017	2017	12	ZJ	9200077024	50	-5.12		2602	12/12/2017	12/12/2017
1026	OL	40111200	12/9/2017	2017	12	ZJ	9200077024	50	-4.59		2602	12/12/2017	12/12/2017
1026	OL	40111200	12/9/2017	2017	12	ZJ	9200077024	50	-4.74		2602	12/12/2017	12/12/2017
1026	OL	40111200	12/9/2017	2017	12	ZJ	9200077024	50	-7.43		2602	12/12/2017	12/12/2017
1026	OL	40111200	12/9/2017	2017	12	ZJ	9200077024	50	-0.85		2602	12/12/2017	12/12/2017
1026	OL	40111200	12/12/2017	2017	12	ZJ	9200077025	40	69.88		2602	12/12/2017	12/12/2017
1026	OL	40111200	12/12/2017	2017	12	ZJ	9200077025	50	-12.28		2602	12/12/2017	12/12/2017
1026	OL	40111200	12/12/2017	2017	12	ZJ	9200077025	50	-44.37		2602	12/12/2017	12/12/2017
1026	OL	40111200	12/13/2017	2017	12	ZJ	9200077026	50	-4.22		2602	12/12/2017	12/12/2017
1026	OL	40111200	12/13/2017	2017	12	ZJ	9200077026	50	-13.23		2602	12/12/2017	12/12/2017
1026	OL	40111200	12/13/2017	2017	12	ZJ	9200077026	50	-38.91		2602	12/12/2017	12/12/2017
1026	OL	40111200	12/13/2017	2017	12	ZJ	9200077026	50	-26.25		2602	12/12/2017	12/12/2017
1026	OL	40111200	12/13/2017	2017	12	ZJ	9200077026	50	-14.50		2602	12/12/2017	12/12/2017
1026	OL	40111200	12/13/2017	2017	12	ZJ	9200077026	50	-7.84		2605	12/12/2017	12/12/2017
1026	OL	40111200	12/13/2017	2017	12	ZJ	9200077026	50	-7.00		2605	12/12/2017	12/12/2017
1026	OL	40111200	12/13/2017	2017	12	ZJ	9200077026	50	-0.75		2602	12/12/2017	12/12/2017
1026	OL	40111200	12/13/2017	2017	12	ZJ	9200077026	50	-8.75		2602	12/12/2017	12/12/2017
1026	OL	40111200	12/13/2017	2017	12	ZJ	9200077026	50	-3.47		2605	12/12/2017	12/12/2017
1026	OL	40111200	12/13/2017	2017	12	ZJ	9200077026	50	-9.17		2602	12/12/2017	12/1

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077133	40	37.14		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077133	40	2.85		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077133	40	2.84		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077133	40	2.85		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077133	40	2.07		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077133	40	6.18		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077133	40	25.74		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077133	40	13.54		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077133	40	2.24		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077133	40	22.05		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077133	40	2.10		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077133	40	2.10		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077133	40	2.10		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077137	40	1.28		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077137	50	-2.15		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077137	50	-71.11		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077137	50	-2.32		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077137	40	32.33		2605	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-1.57		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-1.57		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-1.52		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-1.45		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-1.45		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-1.45		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-1.45		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-5.09		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-2.07		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-2.07		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-2.06		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-1.95		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-1.99		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-1.95		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-2.10		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-1.80		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-32.54		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-5.05		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-2.24		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-2.84		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-2.10		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-2.69		2602	12/14/2017	12/14/2017
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1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-22.77		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-2.11		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-39.78		2605	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-9.74		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-4.43		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-2.07		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-4.44		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-0.54		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-3.47		2605	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-3.47		2605	12/14/2017	12/14/2017
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1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-1.46		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-1.47		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-5.11		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-2.07		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-2.04		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-1.95		2602	12/14/2017	12/14/2017
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1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-1.95		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-1.22		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/15/2017	2017	12	ZJ	9200077138	50	-4.22		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077139	50	-150.30		2605	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077139	50	-2,935.41		2605	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077139	50	-26.08		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077139	50	-38.80		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077139	50	-3,553.18		2605	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077139	50	-8,572.10		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077139	50	-3,749.92		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077139	50	-163.80		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077139	50	-54.65		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077139	50	-2.15		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077139	50	-6.63		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077139	50	-2.07		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077139	50	-18.07		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077139	50	-5.72		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077139	50	-2.06		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077139	40	33.65		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/14/2017	2017	12	ZJ	9200077139	40	5.52		2602	12/14/2017	12/14/2017
1026	OL	40111200	12/18/2017	2017	12	ZJ	9200077179	50	-134.20		2602	12/18/2017	12/15/2017
1026	OL	40111200	12/18/2017	2017	12	ZJ	9200077179	50	-48.32		2602	12/18/2017	12/15/2017
1026	OL	40111200	12/18/2017	2017	12	ZJ	9200077179	50	-476.81		2602	12/18/2017	12/15/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	12/18/2017	2017	12	ZI	9200077183	40	0.20		2602	12/18/2017	12/15/2017
1026	OL	40111200	12/4/2017	2017	12	ZI	9200077190	40	11.08		2602	12/4/2017	12/15/2017
1026	OL	40111200	12/5/2017	2017	12	ZI	9200077191	40	5.36		2602	12/5/2017	12/15/2017
1026	OL	40111200	12/15/2017	2017	12	ZI	9200077194	40	59.77		2602	12/15/2017	12/15/2017
1026	OL	40111200	12/15/2017	2017	12	ZI	9200077194	40	4.12		2602	12/15/2017	12/15/2017
1026	OL	40111200	12/15/2017	2017	12	ZI	9200077194	40	3.48		2602	12/15/2017	12/15/2017
1026	OL	40111200	12/15/2017	2017	12	ZI	9200077194	40	13.24		2602	12/15/2017	12/15/2017
1026	OL	40111200	12/15/2017	2017	12	ZI	9200077194	40	36.16		2602	12/15/2017	12/15/2017
1026	OL	40111200	12/15/2017	2017	12	ZI	9200077194	40	5.92		2602	12/15/2017	12/15/2017
1026	OL	40111200	12/15/2017	2017	12	ZI	9200077194	40	44.67		2602	12/15/2017	12/15/2017
1026	OL	40111200	12/15/2017	2017	12	ZI	9200077194	40	18.57		2602	12/15/2017	12/15/2017
1026	OL	40111200	12/16/2017	2017	12	ZI	9200077195	40	2,668.60		2602	12/15/2017	12/15/2017
1026	OL	40111200	12/16/2017	2017	12	ZI	9200077195	50	-39.88		2602	12/15/2017	12/15/2017
1026	OL	40111200	12/15/2017	2017	12	ZI	9200077199	50	-2.15		2602	12/15/2017	12/15/2017
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1026	OL	40111200	12/15/2017	2017	12	ZI	9200077199	50	-5.36		2602	12/15/2017	12/15/2017
1026	OL	40111200	12/15/2017	2017	12	ZI	9200077199	50	-2.07		2602	12/15/2017	12/15/2017
1026	OL	40111200	12/16/2017	2017	12	ZI	9200077200	40	39.88		2602	12/15/2017	12/15/2017
1026	OL	40111200	12/16/2017	2017	12	ZI	9200077200	50	-2,668.60		2602	12/15/2017	12/15/2017
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1026	OL	40111200	12/18/2017	2017	12	ZI	9200077201	50	-1.13		2605	12/15/2017	12/15/2017
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1026	OL	40111200	12/18/2017	2017	12	ZI	9200077201	50	-2.21		2602	12/15/2017	12/15/2017
1026	OL	40111200	12/18/2017	2017	12	ZI	9200077201	50	-7.76		2602	12/15/2017	12/15/2017
1026	OL	40111200	12/18/2017	2017	12	ZI	9200077201	50	-2.85		2602	12/15/2017	12/15/2017
1026	OL	40111200	12/18/2017	2017	12	ZI	9200077201	50	-10.30		2602	12/15/2017	12/15/2017
1026	OL	40111200	12/18/2017	2017	12	ZI	9200077201	50	-13.09		2602	12/15/2017	12/15/2017
1026	OL	40111200	12/18/2017	2017	12	ZI	9200077201	50	-31.06		2602	12/15/2017	12/15/2017
1026	OL	40111200	12/18/2017	2017	12	ZI	9200077201	50	-3.47		2605	12/15/2017	12/15/2017
1026	OL	40111200	12/18/2017	2017	12	ZI	9200077201	50	-13.28		2602	12/15/2017	12/15/2017
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1026	OL	40111200	12/18/2017	2017	12	ZI	9200077201	50	-2.15		2602	12/15/2017	12/15/2017
1026	OL	40111200	12/18/2017	2017	12	ZI	9200077201	50	-2.24		2602	12/15/2017	12/15/2017
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1026	OL	40111200	12/18/2017	2017	12	ZI	9200077201	50	-0.56		2602	12/15/2017	12/15/2017
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1026	OL	40111200	12/19/2017	2017	12	ZI	9200077238	50	-3,286.14		2602	12/19/2017	12/18/2017
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1026	OL	40111200	12/19/2017	2017	12	ZI	9200077238	50	-21.45		2602	12/19/2017	12/18/2017
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1026	OL	40111200	12/19/2017	2017	12	ZI	9200077238	50	-3.86		2602	12/19/2017	12/18/2017
1026	OL	40111200	12/19/2017	2017	12	ZI	9200077238	40	18.41		2602	12/19/2017	12/18/2017
1026	OL	40111200	12/19/2017	2017	12	ZI	9200077238	50	-17.19		2605	12/19/2017	12/18/2017
1026	OL	40111200	12/19/2017	2017	12	ZI	9200077238	50	-27.30		2602	12/19/2017	12/18/2017
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1026	OL	40111200	12/19/2017	2017	12	ZI	9200077238	50	-45.76		2602	12/19/2017	12/18/2017
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1026	OL	40111200	12/19/2017	2017	12	ZI	9200077238	40	90.58		2602	12/19/2017	12/18/2017
1026	OL	40111200	12/19/2017	2017	12	ZI	9200077238	40	3.24		2602	12/19/2017	12/18/2017
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1026	OL	40111200	12/19/2017	2017	12	ZI	9200077238	50	-2.07		2602	12/19/2017	12/18/2017
1026	OL	40111200	12/19/2017	2017	12	ZI	9200077238	50	-4.54		2603	12/19/2017	12/18/2017
1026	OL	40111200	12/19/2017	2017	12	ZI	9200077238	50	-2.07		2602	12/19/2017	12/18/2017
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1026	OL	40111200	12/19/2017	2017	12	ZI	9200077238	50	-2.24		2602	12/19/2017	12/18/2017
1026	OL	40111200	12/19/2017	2017	12	ZI	9200077238	50	-2.24		2602	12/19/2017	12/18/2017
1026	OL	40111200	12/19/2017	2017	12	ZI	9200077238	50	-0.06		2602	12/19/2017	12/18/2017
1026	OL	40111200	12/19/2017	2017	12	ZI	9200077238	50	-6.00		2602	12/19/2017	12/18/2017
1026	OL	40111200	12/19/2017	2017	12	ZI	9200077238	50	-5.04		2602	12/19/2017	12/18/2017
1026	OL	40111200	12/19/2017	2017	12	ZI	9200077238	50	-5.36		2602	12/19/2017	12/18/2017
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1026	OL	40111200	12/19/2017	2017	12	ZI	9200077238	40	6.19		2602	12/19/2017	12/18/2017
1026	OL	40111200	12/19/2017	2017	12	ZI	9200077238	50	-7.25		2602	12/19/2017	12/18/2017
1026	OL	40111200	12/19/2017	2017	12	ZI	9200077238	50	-3.47		2605	12/19/2017	12/18/2017
1026	OL	40111200	12/19/2017	2017	12	ZI	9200077238	50	-41.42		2605	12/19/2017	12/18/2017
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1026	OL	40111200	12/14/2017	2017	12	ZI	9200077264	40	2.07		2602	12/14/2017	12/19/2017
1026	OL	40111200	12/18/2017	2017	12	ZI	9200077265	40	2.11		2602	12/18/2017	12/19/2017
1026	OL	40111200	12/18/2017	2017	12	ZI	9200077265	40	0.54		2602	12/18/2017	12/19/2017
1026	OL	40111200	12/18/2017	2017	12	ZI	9200077265	40	4.45		2602	12/18/2017	12/19/2017
1026	OL	40111200	12/18/2017	2017	12	ZI	9200077265	40	2.24		2602	12/18/2017	12/19/2017
1026	OL	40111200	12/18/2017	2017	12	ZI	9200077265	40	2.20		2602	12/18/2017	12/19/2017
1026	OL	40111200	12/18/2017	2017	12	ZI	9200077265	40	4.74		2602	12/18/2017	12/19/2017
1026	OL	40111200	12/18/2017	2017	12	ZI	9200077265	40	5.36		2602	12/18/2017	12/19/2017
1026	OL	40111200	12/18/2017	2017	12	ZI	9200077265	40	7.61		2602	12/18/2017	12/19/2017

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	12/19/2017	2017	12	ZJ	9200077275	40	1.41		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/19/2017	2017	12	ZJ	9200077276	40	2.06		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077277	50	-29.54		2605	12/20/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077277	40	6.96		2602	12/20/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077277	50	-8.58		2602	12/20/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077277	50	-6.81		2605	12/20/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077277	50	-0.70		2605	12/20/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077277	50	-12,136.00		2602	12/20/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077277	50	-279.89		2602	12/20/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077277	50	-215.54		2602	12/20/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077277	50	-612.72		2602	12/20/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077277	40	2.50		2602	12/20/2017	12/19/2017
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1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077277	50	-0.59		2602	12/20/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077277	50	-0.82		2602	12/20/2017	12/19/2017
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1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077277	40	13.98		2602	12/20/2017	12/19/2017
1026	OL	40111200	12/19/2017	2017	12	ZJ	9200077278	40	1.90		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/19/2017	2017	12	ZJ	9200077278	40	2.02		2602	12/19/2017	12/19/2017
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1026	OL	40111200	12/19/2017	2017	12	ZJ	9200077278	40	1.52		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/4/2017	2017	12	ZJ	9200077282	40	2.07		2602	12/4/2017	12/19/2017
1026	OL	40111200	12/6/2017	2017	12	ZJ	9200077283	40	2.07		2602	12/6/2017	12/19/2017
1026	OL	40111200	12/19/2017	2017	12	ZJ	9200077285	40	2.07		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/19/2017	2017	12	ZJ	9200077285	40	2.07		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/18/2017	2017	12	ZJ	9200077286	50	-12.17		2602	12/18/2017	12/19/2017
1026	OL	40111200	12/19/2017	2017	12	ZJ	9200077287	40	2.11		2602	12/18/2017	12/19/2017
1026	OL	40111200	12/8/2017	2017	12	ZJ	9200077293	40	12.28		2602	12/8/2017	12/19/2017
1026	OL	40111200	12/8/2017	2017	12	ZJ	9200077293	40	7.88		2602	12/8/2017	12/19/2017
1026	OL	40111200	12/19/2017	2017	12	ZJ	9200077294	40	6.63		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/19/2017	2017	12	ZJ	9200077294	40	3.04		2605	12/19/2017	12/19/2017
1026	OL	40111200	12/19/2017	2017	12	ZJ	9200077294	40	5.36		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/19/2017	2017	12	ZJ	9200077294	40	42.09		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/18/2017	2017	12	ZJ	9200077302	40	18.28		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/18/2017	2017	12	ZJ	9200077302	50	-32.15		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/18/2017	2017	12	ZJ	9200077302	40	24.37		2602	12/19/2017	12/19/2017
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1026	OL	40111200	12/19/2017	2017	12	ZJ	9200077303	50	-2.15		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/19/2017	2017	12	ZJ	9200077303	50	-3.48		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077304	50	-6.62		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077304	50	-30.55		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077304	50	-41.38		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077304	50	-2.07		2602	12/19/2017	12/19/2017
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1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077304	50	-2.13		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077304	50	-30.56		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077304	50	-1.58		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077304	50	-2.08		2602	12/19/2017	12/19/2017
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1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077304	50	-2.10		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077304	50	-2.06		2602	12/19/2017	12/19/2017
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1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077304	50	-1.62		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077304	50	-4.27		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077304	50	-7.44		2605	12/19/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077304	50	-3.04		2605	12/19/2017	12/19/2017
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1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077304	50	-2.08		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077304	50	-0.88		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077304	50	-2.11		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077304	50	-1.52		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077304	50	-1.47		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077304	50	-1.52		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077304	50	-1.47		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077304	50	-1.56		2602	12/19/2017	12/19/2017
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1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077304	50	-1.52		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077304	50	-1.47		2602	12/19/2017	12/19/2017
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1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077304	50	-2.06		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077304	50	-11.36		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/20/2017	2017	12	ZJ	9200077304	50	-4.18		2602	12/19/2017	12/19/2017
1026	OL	40111200	12/18/2017	2017	12	ZJ	9200077305	40	88.59		2602	12/18/2017	12/19/2017
1026	OL	40111200	12/19/2017	2017	12	ZJ	9200077306	50	-2.02		2602	12/18/2017	12/19/2017
1026	OL	40111200	12/19/2017	2017	12	ZJ	9200077306	50	-2.11		2602	12/18/2017	12/19/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	12/21/2017	2017	12	ZI	9200077346	40	32.12		2602	12/21/2017	12/20/2017
1026	OL	40111200	12/21/2017	2017	12	ZI	9200077346	50	-1.36		2602	12/21/2017	12/20/2017
1026	OL	40111200	12/21/2017	2017	12	ZI	9200077346	50	-27.03		2602	12/21/2017	12/20/2017
1026	OL	40111200	12/21/2017	2017	12	ZI	9200077346	50	-0.14		2602	12/21/2017	12/20/2017
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1026	OL	40111200	12/1/2017	2017	12	ZI	9200077351	40	3.82		2605	11/30/2017	12/20/2017
1026	OL	40111200	12/1/2017	2017	12	ZI	9200077352	40	38.04		2602	12/1/2017	12/20/2017
1026	OL	40111200	12/15/2017	2017	12	ZI	9200077356	40	9.36		2602	12/15/2017	12/20/2017
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1026	OL	40111200	12/20/2017	2017	12	ZI	9200077358	40	2.86		2602	12/20/2017	12/20/2017
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1026	OL	40111200	12/20/2017	2017	12	ZI	9200077358	40	56.95		2602	12/20/2017	12/20/2017
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1026	OL	40111200	12/1/2017	2017	12	ZI	9200077394	40	3.48		2602	12/1/2017	12/21/2017
1026	OL	40111200	12/8/2017	2017	12	ZI	9200077395	40	2.11		2602	12/8/2017	12/21/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40111200	12/21/2017	2017	12	ZJ	9200077400	40	1.45	2602		12/21/2017	12/21/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	1/13/2017	2017	1	ZI	9200065304	40	203.69		2602	1/13/2017	1/13/2017
1026	OL	40121200	1/13/2017	2017	1	ZI	9200065304	40	17.79		2602	1/13/2017	1/13/2017
1026	OL	40121200	1/13/2017	2017	1	ZI	9200065304	40	59.54		2602	1/13/2017	1/13/2017
1026	OL	40121200	1/13/2017	2017	1	ZI	9200065304	40	56.15		2602	1/13/2017	1/13/2017
1026	OL	40121200	1/13/2017	2017	1	ZI	9200065304	40	48.44		2602	1/13/2017	1/13/2017
1026	OL	40121200	1/13/2017	2017	1	ZI	9200065304	40	60.46		2602	1/13/2017	1/13/2017
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1026	OL	40121200	1/30/2017	2017	1	ZI	9200065801	50	-1.90		2602	1/27/2017	1/27/2017
1026	OL	40121200	1/30/2017	2017	1	ZI	9200065801	50	-265.54		2602	1/27/2017	1/27/2017
1026	OL	40121200	1/30/2017	2017	1	ZI	9200065801	50	-5.57		2602	1/27/2017	1/27/2017
1026	OL	40121200	1/30/2017	2017	1	ZI	9200065801	50	-7.99		2602	1/27/2017	1/27/2017
1026	OL	40121200	1/30/2017	2017	1	ZI	9200065801	50	-5.44		2603	1/27/2017	1/27/2017
1026	OL	40121200	1/25/2017	2017	1	ZI	9200065619	50	-349.44		2602	1/25/2017	1/24/2017
1026	OL	40121200	1/25/2017	2017	1	ZI	9200065619	50	-803.28		2602	1/25/2017	1/24/2017
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1026	OL	40121200	1/25/2017	2017	1	ZI	9200065619	50	-133.03		2602	1/25/2017	1/24/2017
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1026	OL	40121200	1/27/2017	2017	1	ZI	9200065785	40	20.75		2602	1/27/2017	1/27/2017
1026	OL	40121200	1/27/2017	2017	1	ZI	9200065785	40	2.01		2602	1/27/2017	1/27/2017
1026	OL	40121200	1/27/2017	2017	1	ZI	9200065785	40	1.85		2602	1/27/2017	1/27/2017
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1026	OL	40121200	1/4/2017	2017	1	ZI	9200064961	50	-4.03		2602	1/4/2017	1/4/2017
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1026	OL	40121200	1/9/2017	2017	1	ZI	9200065041	50	-2.28		2605	1/9/2017	1/6/2017
1026	OL	40121200	1/9/2017	2017	1	ZI	9200065041	40	10.10		2602	1/9/2017	1/6/2017
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1026	OL	40121200	1/9/2017	2017	1	ZI	9200065041	50	-7.83		2605	1/9/2017	1/6/2017
1026	OL	40121200	1/9/2017	2017	1	ZI	9200065041	50	-16.66		2602	1/9/2017	1/6/2017
1026	OL	40121200	1/25/2017	2017	1	ZI	9200065706	50	-17.64		2602	1/25/2017	1/25/2017
1026	OL	40121200	1/25/2017	2017	1	ZI	9200065706	50	-3.26		2602	1/25/2017	1/25/2017
1026	OL	40121200	1/26/2017	2017	1	ZI	9200065707	50	-3.80		2602	1/25/2017	1/25/2017
1026	OL	40121200	1/26/2017	2017	1	ZI	9200065707	50	-21.60		2605	1/25/2017	1/25/2017
1026	OL	40121200	1/26/2017	2017	1	ZI	9200065707	50	-2.03		2602	1/25/2017	1/25/2017
1026	OL	40121200	1/26/2017	2017	1	ZI	9200065707	50	-2.01		2602	1/25/2017	1/25/2017
1026	OL	40121200	1/26/2017	2017	1	ZI	9200065707	50	-7.24		2602	1/25/2017	1/25/2017
1026	OL	40121200	1/26/2017	2017	1	ZI	9200065707	50	-4.56		2602	1/25/2017	1/25/2017
1026	OL	40121200	1/26/2017	2017	1	ZI	9200065707	50	-5.60		2602	1/25/2017	1/25/2017
1026	OL	40121200	1/26/2017	2017	1	ZI	9200065707	50	-4.70		2602	1/25/2017	1/25/2017
1026	OL	40121200	1/5/2017	2017	1	ZI	9200064948	40	67.50		2602	1/5/2017	1/4/2017
1026	OL	40121200	1/5/2017	2017	1	ZI	9200064948	40	2.63		2605	1/5/2017	1/4/2017
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1026	OL	40121200	1/5/2017	2017	1	ZI	9200064948	50	-194.24		2605	1/5/2017	1/4/2017
1026	OL	40121200	1/4/2017	2017	1	ZI	9200064959	40	1.45		2602	1/4/2017	1/4/2017
1026	OL	40121200	1/4/2017	2017	1	ZI	9200064959	40	4.27		2602	1/4/2017	1/4/2017
1026	OL	40121200	1/4/2017	2017	1	ZI	9200064959	40	38.34		2602	1/4/2017	1/4/2017
1026	OL	40121200	1/2/2017	2017	1	ZI	9200064885	50	-72.71		2602	12/30/2016	12/30/2016
1026	OL	40121200	1/31/2017	2017	1	ZI	9200065838	50	-0.20		2602	1/31/2017	1/30/2017
1026	OL	40121200	1/31/2017	2017	1	ZI	9200065838	50	-16.19		2602	1/31/2017	1/30/2017
1026	OL	40121200	1/31/2017	2017	1	ZI	9200065838	50	-11.02		2602	1/31/2017	1/30/2017
1026	OL	40121200	1/31/2017	2017	1	ZI	9200065838	50	-4,051.17		2602	1/31/2017	1/30/2017
1026	OL	40121200	1/31/2017	2017	1	ZI	9200065838	50	-20.56		2602	1/31/2017	1/30/2017
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1026	OL	40121200	1/13/2017	2017	1	ZI	9200065496	40	36.47		2602	1/12/2017	1/19/2017
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1026	OL	40121200	1/20/2017	2017	1	ZI	9200065551	40	34.68		2602	1/20/2017	1/20/2017
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1026	OL	40121200	1/20/2017	2017	1	ZI	9200065551	40	31.52		2602	1/20/2017	1/20/2017
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1026	OL	40121200	1/20/2017	2017	1	ZI	9200065551	40	5.55		2602	1/20/2017	1/20/2017
1026	OL	40121200	1/20/2017	2017	1	ZI	9200065551	40	45.86		2602	1/20/2017	1/20/2017
1026	OL	40121200	1/20/2017	2017	1	ZI	9200065551	40	0.66		2602	1/20/2017	1/20/2017
1026	OL	40121200	1/20/2017	2017	1	ZI	9200065551	40	35.84		2602	1/20/2017	1/20/2017
1026	OL	40121200	1/30/2017	2017	1	ZI	9200065910	50	-478.83		2602	1/30/2017	1/31/2017
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1026	OL	40121200	1/31/2017	2017	1	ZI	9200065911	50	-7.08		2602	1/30/2017	1/31/2017
1026	OL	40121200	1/31/2017	2017	1	ZI	9200065911	50	-122.84		2602	1/30/2017	1/31/2017
1026	OL	40121200	1/31/2017	2017	1	ZI	9200065911	50	-2.01		2602	1/30/2017	1/31/2017
1026	OL	40121200	1/31/2017	2017	1	ZI	9200065911	50	-128.18		2602	1/30/2017	1/31/2017
1026	OL	40121200	1/31/2017	2017	1	ZI	9200065911	50	-161.20		2602	1/30/2017	1/31/2017
1026	OL	40121200	1/27/2017	2017	1	ZI	9200065798	40	18.60		2602	1/27/2017	1/27/2017
1026	OL	40121200	1/10/2017	2017	1	ZI	9200065152	50	-4.95		2602	1/9/2017	1/10/2017
1026	OL	40121200	1/10/2017	2017	1	ZI	9200065152						

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1026	OL	40121200	1/17/2017	2017	1	ZI	9200065379	50	-2.21		2602	1/17/2017	1/17/2017
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1026	OL	40121200	1/5/2017	2017	1	ZI	9200064949	40	12.12		2602	1/5/2017	1/4/2017
1026	OL	40121200	1/5/2017	2017	1	ZI	9200064949	50	-7.76		2602	1/5/2017	1/4/2017
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1026	OL	40121200	1/5/2017	2017	1	ZI	9200065003	40	187.07		2602	1/5/2017	1/5/2017
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1026	OL	40121200	1/5/2017	2017	1	ZI	9200065006	40	149.71		2602	1/5/2017	1/5/2017
1026	OL	40121200	1/5/2017	2017	1	ZI	9200065006	40	37.72		2602	1/5/2017	1/5/2017
1026	OL	40121200	1/5/2017	2017	1	ZI	9200065006	40	151.05		2602	1/5/2017	1/5/2017
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1026	OL	40121200	1/6/2017	2017	1	ZI	9200065009	50	-31.08		2602	1/5/2017	1/5/2017
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1026	OL	40121200	1/6/2017	2017	1	ZI	9200065009	50	-187.97		2602	1/5/2017	1/5/2017
1026	OL	40121200	1/6/2017	2017	1	ZI	9200065009	50	-6.74		2602	1/5/2017	1/5/2017
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1026	OL	40121200	1/19/2017	2017	1	ZI	9200065498	40	2.03		2602	1/19/2017	1/19/2017
1026	OL	40121200	1/4/2017	2017	1	ZI	9200065005	40	7.81		2602	1/3/2017	1/5/2017
1026	OL	40121200	1/12/2017	2017	1	ZI	9200065192	40	2.16		2602	1/12/2017	1/11/2017
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1026	OL	40121200	1/12/2017	2017	1	ZI	9200065192	50	-552.72		2602	1/12/2017	1/11/2017
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1026	OL	40121200	1/12/2017	2017	1	ZI	9200065192	50	-10.78		2602	1/12/2017	1/11/2017
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1026	OL	40121200	1/18/2017	2017	1	ZI	9200065357	50	-311.47		2602	1/18/2017	1/17/2017
1026	OL	40121200	1/18/2017	2017	1	ZI	9200065357	40	36.11		2602	1/18/2017	1/17/2017
1026	OL	40121200	1/18/2017	2017	1	ZI	9200065357	50	-444.62		2602	1/18/2017	1/17/2017
1026	OL	40121200	1/18/2017	2017	1	ZI	9200065358	50	-4,997.56		2602	1/18/2017	1/17/2017
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1026	OL	40121200	1/16/2017	2017	1	ZI	9200065396	50	-1,953.54		2602	1/16/2017	1/17/2017
1026	OL	40121200	1/17/2017	2017	1	ZI	9200065398	50	-129.20		2602	1/16/2017	1/17/2017
1026	OL	40121200	1/17/2017	2017	1	ZI	9200065398	50	-72.62		2602	1/16/2017	1/17/2017
1026	OL	40121200	1/17/2017	2017	1	ZI	9200065398	50	-74.07		2602	1/16/2017	1/17/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	1/30/2017	2017	1	ZI	9200065781	50	-115.87		2602	1/30/2017	1/27/2017
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1026	OL	40121200	1/30/2017	2017	1	ZI	9200065781	50	-3,710.80		2602	1/30/2017	1/27/2017
1026	OL	40121200	1/16/2017	2017	1	ZI	9200065384	40	44.40		2602	1/13/2017	1/17/2017
1026	OL	40121200	1/16/2017	2017	1	ZI	9200065384	40	41.32		2602	1/13/2017	1/17/2017
1026	OL	40121200	1/16/2017	2017	1	ZI	9200065384	40	43.04		2602	1/13/2017	1/17/2017
1026	OL	40121200	1/16/2017	2017	1	ZI	9200065384	40	63.68		2602	1/13/2017	1/17/2017
1026	OL	40121200	1/16/2017	2017	1	ZI	9200065384	40	72.50		2602	1/13/2017	1/17/2017
1026	OL	40121200	1/16/2017	2017	1	ZI	9200065384	40	10,585.09		2602	1/13/2017	1/17/2017
1026	OL	40121200	1/26/2017	2017	1	ZI	9200065690	50	-111.60		2602	1/26/2017	1/25/2017
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1026	OL	40121200	1/26/2017	2017	1	ZI	9200065690	50	-148.85		2602	1/26/2017	1/25/2017
1026	OL	40121200	1/10/2017	2017	1	ZI	9200065094	50	-1.70		2602	1/10/2017	1/9/2017
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1026	OL	40121200	1/10/2017	2017	1	ZI	9200065094	50	-8,370.88		2602	1/10/2017	1/9/2017
1026	OL	40121200	1/10/2017	2017	1	ZI	9200065094	50	-17.37		2605	1/10/2017	1/9/2017
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1026	OL	40121200	1/10/2017	2017	1	ZI	9200065094	50	-17.13		2602	1/10/2017	1/9/2017
1026	OL	40121200	1/10/2017	2017	1	ZI	9200065094	50	-1,109.44		2602	1/10/2017	1/9/2017
1026	OL	40121200	1/10/2017	2017	1	ZI	9200065094	50	-5.16		2605	1/10/2017	1/9/2017
1026	OL	40131200	1/11/2017	2017	1	ZI	9200065127	50	-438.85		2602	1/11/2017	1/10/2017
1026	OL	40131200	1/11/2017	2017	1	ZI	9200065127	50	-4.10		2602	1/11/2017	1/10/2017
1026	OL	40131200	1/13/2017	2017	1	ZI	9200065310	50	-135.37		2602	1/13/2017	1/13/2017
1026	OL	40131200	1/9/2017	2017	1	ZI	9200065056	50	-1,940.45		2602	1/6/2017	1/6/2017
1026	OL	40131200	1/18/2017	2017	1	ZI	9200065339	50	-36.14		2602	1/18/2017	1/16/2017
1026	OL	40131200	1/18/2017	2017	1	ZI	9200065339	50	-1,815.55		2602	1/18/2017	1/16/2017
1026	OL	40131200	1/24/2017	2017	1	ZI	9200065592	50	-70.33		2602	1/24/2017	1/23/2017
1026	OL	40131200	1/20/2017	2017	1	ZI	9200065758	50	-349.81		2602	1/19/2017	1/26/2017
1026	OL	40131200	1/3/2017	2017	1	ZI	9200064858	50	-1,979.21		2602	1/3/2017	12/30/2016
1026	OL	40131200	1/13/2017	2017	1	ZI	9200065254	50	-948.63		2602	1/12/2017	1/12/2017
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1026	OL	40131200	1/23/2017	2017	1	ZI	9200065539	50	-174.23		2602	1/23/2017	1/20/2017
1026	OL	40131200	1/23/2017	2017	1	ZI	9200065539	50	-35.91		2602	1/23/2017	1/20/2017
1026	OL	40131200	1/18/2017	2017	1	ZI	9200065651	50	-300.18		2602	1/18/2017	1/24/2017
1026	OL	40131200	1/24/2017	2017	1	ZI	9200065652	50	-3,488.83		2602	1/24/2017	1/24/2017
1026	OL	40131200	1/5/2017	2017	1	ZI	9200065887	40	23.92		2602	1/5/2017	1/31/2017
1026	OL	40131200	1/5/2017	2017	1	ZI	9200064962	50	-448.92		2602	1/3/2017	1/4/2017
1026	OL	40131200	1/5/2017	2017	1	ZI	9200064963	50	-2,075.77		2602	1/4/2017	1/4/2017
1026	OL	40131200	1/23/2017	2017	1	ZI	9200065656	50	-573.33		2602	1/23/2017	1/24/2017
1026	OL	40131200	1/17/2017	2017	1	ZI	9200065290	50	-4.13		2602	1/17/2017	1/13/2017
1026	OL	40131200	1/17/2017	2017	1	ZI	9200065290	50	-446.86		2602	1/17/2017	1/13/2017
1026	OL	40131200	1/12/2017	2017	1	ZI	9200065253	50	-799.45		2602	1/12/2017	1/12/2017
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1026	OL	40131200	1/27/2017	2017	1	ZI	9200065734	50	-7.29		2602	1/27/2017	1/26/2017
1026	OL	40131200	1/27/2017	2017	1	ZI	9200065734	50	-38.82		2602	1/27/2017	1/26/2017
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1026	OL	40131200	1/25/2017	2017	1	ZI	9200065619	50	-4.01		2602	1/25/2017	1/24/2017
1026	OL	40131200	1/25/2017	2017	1	ZI	9200065619	50	-282.35		2602	1/25/2017	1/24/2017
1026	OL	40131200	1/4/2017	2017	1	ZI	9200064961	50	-662.95		2602	1/4/2017	1/4/2017
1026	OL	40131200	1/31/2017	2017	1	ZI	9200065838	50	-2,313.53		2602	1/31/2017	1/30/2017
1026	OL	40131200	1/31/2017	2017	1	ZI	9200065900	50	-678.84		2602	1/31/2017	1/31/2017
1026	OL	40131200	1/18/2017	2017	1	ZI	9200065380	50	-1,451.80		2602	1/17/2017	1/17/2017
1026	OL	40131200	1/16/2017	2017	1	ZI	9200065397	50	-5,153.32		2602	1/17/2017	1/17/2017
1026	OL	40131200	1/5/2017	2017	1	ZI	9200064949	50	-352.11		2602	1/5/2017	1/4/2017
1026	OL	40131200	1/6/2017	2017	1	ZI	9200065009	50	-4,210.64		2602	1/5/2017	1/5/2017
1026	OL	40131200	1/6/2017	2017	1	ZI	9200064998	50	-29.82		2602	1/6/2017	1/5/2017
1026	OL	40131200	1/6/2017	2017	1	ZI	9200064998	50	-2.61		2605	1/6/2017	1/5/2017
1026	OL	40131200	1/18/2017	2017	1	ZI	9200065357	50	-362.62		2602	1/18/2017	1/17/2017
1026	OL	40131200	1/18/2017	2017	1	ZI	9200065357	50	-680.81		2602	1/18/2017	1/17/2017
1026	OL	40131200	1/16/2017	2017	1	ZI	9200065396	50	-505.50		2602	1/16/2017	1/17/2017
1026	OL	40131200	1/17/2017	2017	1	ZI	9200065398	50	-3,596.37		2602	1/16/2017	1/17/2017
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1026	OL	40131200	1/30/2017	2017	1	ZI	9200065781	50	-22.86		2602	1/30/2017	1/27/2017
1026	OL	40131200	1/26/2017	2017	1	ZI	9200065690	50	-59.07		2602	1/26/2017	1/25/2017
1026	OL	40131200	1/10/2017	2017	1	ZI	9200065094	50	-6.80		2602	1/10/2017	1/9/2017
1026	OL	40131200	1/10/2017	2017	1	ZI	9200065094	50	-73.52		2602	1/10/2017	1/9/2017
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1026	OL	40145200	1/24/2017	2017	1	ZI	9200065592	50	-0.60		2602	1/24/2017	1/23/2017
1026	OL	40145200	1/7/2017	2017	1	ZI	9200065049	40	3.59		2602	1/7/2017	1/6/2017
1026	OL	40145200	1/5/2017	2017	1	ZI	9200064963	50	-7.18		2602	1/4/2017	1/4/2017
1026	OL	40145200	1/4/2017	2017	1	ZI	9200064969	50	-96.92		2602	1/3/2017	1/4/2017
1026	OL	40145200	1/17/2017	2017	1	ZI	9200065290	50	-2.38		2602	1/17/2017	1/13/2017
1026	OL	40145200	1/5/2017	2017	1	ZI	9200065624	40	3.59		2602	1/5/2017	1/24/2017
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1026	OL	40145200	1/24/2017	2017	1	ZI	9200065626	40	1.69		2602	1/24/2017	1/24/2017
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1026	OL	40145200	1/13/2017	2017	1	ZI	9200065238	50	-1.19		2602	1/13/2017	1/12/2017
1026	OL	40145200	1/25/2017	2017	1	ZI	9200065619	40	31.45		2602	1/25/2017	1/24/2017
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1026	OL</												

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1026	OL	40145200	1/5/2017	2017	1	ZI	9200064949	50	-60.00		2602	1/5/2017	1/4/2017
1026	OL	40145200	1/12/2017	2017	1	ZI	9200065192	40	156.54		2602	1/12/2017	1/11/2017
1026	OL	40145200	1/20/2017	2017	1	ZI	9200065490	50	-1.19		2602	1/20/2017	1/19/2017
1026	OL	40145200	1/26/2017	2017	1	ZI	9200065690	40	38.59		2602	1/26/2017	1/25/2017
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1026	OL	40151200	1/11/2017	2017	1	ZI	9200065127	50	-721.62		2602	1/11/2017	1/10/2017
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1026	OL	40151200	1/4/2017	2017	1	ZI	9200064964	40	74.85		2602	1/4/2017	1/4/2017
1026	OL	40151200	1/18/2017	2017	1	ZI	9200065339	50	-2,087.54		2602	1/18/2017	1/16/2017
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1026	OL	40151200	1/18/2017	2017	1	ZI	9200065339	50	-4.99		2602	1/18/2017	1/16/2017
1026	OL	40151200	1/24/2017	2017	1	ZI	9200065592	50	-10.09		2602	1/24/2017	1/23/2017
1026	OL	40151200	1/24/2017	2017	1	ZI	9200065592	50	-453.14		2602	1/24/2017	1/23/2017
1026	OL	40151200	1/24/2017	2017	1	ZI	9200065592	50	-3.54		2602	1/24/2017	1/23/2017
1026	OL	40151200	1/3/2017	2017	1	ZI	9200064858	50	-65.48		2602	1/3/2017	12/30/2016
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1026	OL	40151200	1/3/2017	2017	1	ZI	9200064858	50	-97.75		2602	1/3/2017	12/30/2016
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1026	OL	40151200	1/17/2017	2017	1	ZI	9200065290	50	-81.44		2602	1/17/2017	1/13/2017
1026	OL	40151200	1/17/2017	2017	1	ZI	9200065290	50	-0.56		2602	1/17/2017	1/13/2017
1026	OL	40151200	1/17/2017	2017	1	ZI	9200065290	40	29.90		2602	1/17/2017	1/13/2017
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1026	OL	40151200	1/13/2017	2017	1	ZI	9200065238	50	-26.07		2602	1/13/2017	1/12/2017
1026	OL	40151200	1/13/2017	2017	1	ZI	9200065238	50	-214.66		2602	1/13/2017	1/12/2017
1026	OL	40151200	1/13/2017	2017	1	ZI	9200065238	50	-100.30		2602	1/13/2017	1/12/2017
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1026	OL	40151200	1/13/2017	2017	1	ZI	9200065238	50	-17.86		2602	1/13/2017	1/12/2017
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1026	OL	40151200	1/30/2017	2017	1	ZI	9200065801	50	-1,056.86		2602	1/27/2017	1/27/2017
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1026	OL	40151200	1/25/2017	2017	1	ZI	9200065619	50	-155.09		2602	1/25/2017	1/24/2017
1026	OL	40151200	1/25/2017	2017	1	ZI	9200065619	50	-32.90		2602	1/25/2017	1/24/2017
1026	OL	40151200	1/4/2017	2017	1	ZI	9200064961	50	-74.85		2602	1/4/2017	1/4/2017
1026	OL	40151200	1/9/2017	2017	1	ZI	9200065041	50	-2.77		2605	1/9/2017	1/6/2017
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1026	OL	40151200	1/2/2017	2017	1	ZI	9200064885	50	-1.87		2602	12/30/2016	12/30/2016
1026	OL	40151200	1/2/2017	2017	1	ZI	9200064885	50	-1.87		2602	12/30/2016	12/30/2016
1026	OL	40151200	1/31/2017	2017	1	ZI	9200065838	50	-1.80		2602	1/31/2017	1/30/2017
1026	OL	40151200	1/31/2017	2017	1	ZI	9200065838	50	-1,635.26		2602	1/31/2017	1/30/2017
1026	OL	40151200	1/31/2017	2017	1	ZI	9200065838	50	-9.59		2602	1/31/2017	1/30/2017
1026	OL	40151200	1/17/2017	2017	1	ZI	9200065548	40	0.56		2602	1/17/2017	1/20/2017
1026	OL	40151200	1/17/2017	2017	1	ZI	9200065548	40	111.85		2602	1/17/2017	1/20/2017
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1026	OL	40151200	1/5/2017	2017	1	ZI	9200064949	50	-5.72		2602	1/5/2017	1/4/2017
1026	OL	40151200	1/12/2017	2017	1	ZI	9200065192	50	-6.81		2602	1/12/2017	1/11/2017
1026	OL	40151200	1/12/2017	2017	1	ZI	9200065192	50	-888.24		2602	1/12/2017	1/11/2017
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1026	OL	40151200	1/6/2017	2017	1	ZI	9200064998	50	-24.99		2605	1/6/2017	1/5/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40151200	1/17/2017	2017	1	ZI	9200065398	50	-2,207.50		2602	1/16/2017	1/17/2017
1026	OL	40151200	1/20/2017	2017	1	ZI	9200065490	50	-276.53		2602	1/20/2017	1/19/2017
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1026	OL	40151200	1/30/2017	2017	1	ZI	9200065781	50	-884.52		2602	1/30/2017	1/27/2017
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1026	OL	40151200	1/26/2017	2017	1	ZI	9200065690	50	-10.38		2602	1/26/2017	1/25/2017
1026	OL	40151200	1/10/2017	2017	1	ZI	9200065094	40	38.25		2602	1/10/2017	1/9/2017
1026	OL	40151200	1/10/2017	2017	1	ZI	9200065094	50	-18.07		2602	1/10/2017	1/9/2017
1026	OL	40151200	1/10/2017	2017	1	ZI	9200065094	50	-359.02		2602	1/10/2017	1/9/2017
1026	OL	40151200	1/10/2017	2017	1	ZI	9200065094	50	-76.53		2605	1/10/2017	1/9/2017
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1026	OL	40161200	1/24/2017	2017	1	ZI	9200065652	50	-3,908.43		2602	1/24/2017	1/24/2017
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1026	OL	40161200	1/26/2017	2017	1	ZI	9200065707	50	-3,517.49		2602	1/25/2017	1/25/2017
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1026	OL	40171100	1/13/2017	2017	1	ZI	9200065238	50	-17.13		2602	1/13/2017	1/12/2017
1026	OL	40171100	1/18/2017	2017	1	ZI	9200065357	50	-48.14		2602	1/18/2017	1/17/2017
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1026	OL	40121200	2/28/2017	2017	2	ZI	9200066868	50	-25.76		2602	2/28/2017	2/28/2017
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1026	OL	40121200	2/9/2017	2017	2	ZI	9200066234	40	16.33		2602	2/9/2017	2/9/2017
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1026	OL	40121200	2/27/2017	2017	2	ZI	9200066884	40	957.39		2602	2/27/2017	2/28/2017
1026	OL	40121200	2/28/2017	2017	2	ZI	9200066885	40	63.33		2602	2/28/2017	2/28/2017
1026	OL	40121200	2/28/2017	2017	2	ZI	9200066885	40	5.21		2602	2/28/2017	2/28/2017
1026	OL	40121200	2/28/2017	2017	2	ZI	9200066885	40	5.17		2602	2/28/2017	2/28/2017
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1026	OL	40121200	2/28/2017	2017	2	ZI	9200066885	40	5.43		2602	2/28/2017	2/28/2017
1026	OL	40121200	2/28/2017	2017	2	ZI	9200066885	40	27.49		2602	2/28/2017	2/28/2017
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1026	OL	40121200	2/28/2017	2017	2	ZI	9200066885	40	5.60		2602	2/28/2017	2/28/2017
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1026	OL	40121200	2/3/2017	2017	2	ZI	9200066120	40	5.17		2602	2/2/2017	2/7/2017
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1026	OL	40121200	2/6/2017	2017	2	ZI	9200066121	40	24.76		2602	2/6/2017	2/7/2017
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1026	OL	40121200	2/9/2017	2017	2	ZI	9200066170	40	0.77		2602	2/9/2017	2/8/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	2/7/2017	2017	2	ZJ	9200066145	50	-2.02		2602	2/6/2017	2/7/2017
1026	OL	40121200	2/7/2017	2017	2	ZJ	9200066145	50	-10.76		2602	2/6/2017	2/7/2017
1026	OL	40121200	2/7/2017	2017	2	ZJ	9200066145	50	-10.71		2602	2/6/2017	2/7/2017
1026	OL	40121200	2/3/2017	2017	2	ZJ	9200065992	40	12.90		2602	2/3/2017	2/2/2017
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1026	OL	40121200	2/10/2017	2017	2	ZJ	9200066238	40	-16.33		2602	2/9/2017	2/9/2017
1026	OL	40121200	2/10/2017	2017	2	ZJ	9200066238	50	-3.50		2602	2/9/2017	2/9/2017
1026	OL	40121200	2/10/2017	2017	2	ZJ	9200066238	40	48.08		2602	2/9/2017	2/9/2017
1026	OL	40121200	2/10/2017	2017	2	ZJ	9200066238	50	-25.15		2602	2/9/2017	2/9/2017
1026	OL	40121200	2/10/2017	2017	2	ZJ	9200066238	50	-51.40		2602	2/9/2017	2/9/2017
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1026	OL	40121200	2/8/2017	2017	2	ZJ	9200066112	50	-838.60		2602	2/8/2017	2/7/2017
1026	OL	40121200	2/8/2017	2017	2	ZJ	9200066112	50	-6.88		2602	2/8/2017	2/7/2017
1026	OL	40121200	2/8/2017	2017	2	ZJ	9200066112	50	-507.43		2602	2/8/2017	2/7/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	2/8/2017	2017	2	ZI	9200066143	50	-2.99		2602	2/7/2017	2/7/2017
1026	OL	40121200	2/8/2017	2017	2	ZI	9200066143	50	-5.22		2602	2/7/2017	2/7/2017
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1026	OL	40121200	2/8/2017	2017	2	ZI	9200066143	50	-0.67		2602	2/7/2017	2/7/2017
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1026	OL	40121200	2/8/2017	2017	2	ZI	9200066143	50	-0.62		2602	2/7/2017	2/7/2017
1026	OL	40121200	2/8/2017	2017	2	ZI	9200066143	50	-5.24		2602	2/7/2017	2/7/2017
1026	OL	40121200	2/8/2017	2017	2	ZI	9200066143	50	-3.05		2602	2/7/2017	2/7/2017
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1026	OL	40121200	2/8/2017	2017	2	ZI	9200066143	50	-2.90		2602	2/7/2017	2/7/2017
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1026	OL	40121200	2/8/2017	2017	2	ZI	9200066143	50	-0.79		2602	2/7/2017	2/7/2017
1026	OL	40121200	2/8/2017	2017	2	ZI	9200066143	50	-2.94		2602	2/7/2017	2/7/2017
1026	OL	40121200	2/8/2017	2017	2	ZI	9200066143	50	-5.43		2602	2/7/2017	2/7/2017
1026	OL	40121200	2/8/2017	2017	2	ZI	9200066143	50	-5.26		2602	2/7/2017	2/7/2017
1026	OL	40121200	2/8/2017	2017	2	ZI	9200066143	50	-5.26		2602	2/7/2017	2/7/2017
1026	OL	40121200	2/13/2017	2017	2	ZI	9200066268	50	-6,306.07		2602	2/13/2017	2/10/2017
1026	OL	40121200	2/13/2017	2017	2	ZI	9200066268	50	-7.11		2602	2/13/2017	2/10/2017
1026	OL	40121200	2/13/2017	2017	2	ZI	9200066268	50	-3,277.83		2602	2/13/2017	2/10/2017
1026	OL	40121200	2/13/2017	2017	2	ZI	9200066268	50	-81.47		2602	2/13/2017	2/10/2017
1026	OL	40121200	2/21/2017	2017	2	ZI	9200066564	40	7.45		2602	2/21/2017	2/20/2017
1026	OL	40121200	2/21/2017	2017	2	ZI	9200066564	50	-4,467.46		2602	2/21/2017	2/20/2017
1026	OL	40121200	2/21/2017	2017	2	ZI	9200066564	40	22.70		2602	2/21/2017	2/20/2017
1026	OL	40121200	2/21/2017	2017	2	ZI	9200066564	50	-104.91		2602	2/21/2017	2/20/2017
1026	OL	40121200	2/21/2017	2017	2	ZI	9200066564	50	-808.75		2602	2/21/2017	2/20/2017
1026	OL	40121200	2/21/2017	2017	2	ZI	9200066564	50	-362.30		2602	2/21/2017	2/20/2017
1026	OL	40121200	2/21/2017	2017	2	ZI	9200066564	50	-7.59		2602	2/21/2017	2/20/2017
1026	OL	40121200	2/21/2017	2017	2	ZI	9200066564	50	-323.95		2602	2/21/2017	2/20/2017
1026	OL	40121200	2/21/2017	2017	2	ZI	9200066564	50	-19.08		2603	2/21/2017	2/20/2017
1026	OL	40121200	2/17/2017	2017	2	ZI	9200066478	50	-38.67		2602	2/17/2017	2/16/2017
1026	OL	40121200	2/17/2017	2017	2	ZI	9200066478	50	-217.62		2602	2/17/2017	2/16/2017
1026	OL	40121200	2/17/2017	2017	2	ZI	9200066478	50	-3,295.06		2602	2/17/2017	2/16/2017
1026	OL	40121200	2/17/2017	2017	2	ZI	9200066478	50	-669.27		2602	2/17/2017	2/16/2017
1026	OL	40121200	2/17/2017	2017	2	ZI	9200066478	50	-487.08		2602	2/17/2017	2/16/2017
1026	OL	40121200	2/27/2017	2017	2	ZI	9200066889	50	-957.39		2602	2/27/2017	2/28/2017
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1026	OL	40121200	2/28/2017	2017	2	ZI	9200066890	50	-1.37		2602	2/27/2017	2/28/2017
1026	OL	40121200	2/28/2017	2017	2	ZI	9200066890	50	-1.93		2602	2/27/2017	2/28/2017
1026	OL	40121200	2/28/2017	2017	2	ZI	9200066890	50	-19.44		2602	2/27/2017	2/28/2017
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1026	OL	40121200	2/28/2017	2017	2	ZI	9200066890	50	-1.85		2602	2/27/2017	2/28/2017
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1026	OL	40121200	2/24/2017	2017	2	ZI	9200066693	50	-2.72		2602	2/24/2017	2/23/2017
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1026	OL	40121200	2/24/2017	2017	2	ZI	9200066693	40	6.72		2602	2/24/2017	2/23/2017
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1026	OL	40121200	2/9/2017	2017	2	ZI	9200066182	50	-1.85		2602	2/8/2017	2/8/2017
1026	OL	40121200	2/9/2017	2017	2	ZI	9200066182	50	-1.27		2602	2/8/2017	2/8/2017
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1026	OL	40121200	2/9/2017	2017	2	ZI	9200066182	50	-52.24		2602	2/8/2017	2/8/2017
1026	OL	40121200	2/8/2017	2017	2	ZI	9200066142	50	-30.92		2602	2/7/2017	2/7/2017
1026	OL	40121200	2/8/2017	2017	2	ZI	9200066142	50	-18.37		2602	2/7/2017	2/7/2017
1026	OL	40121200	2/8/2017	2017	2	ZI	9200066142	50	-1.03		2602	2/7/2017	2/7/2017
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1026	OL	40121200	2/8/2017	2017	2	ZI	9200066142	50	-41.22		2602	2/7/2017	2/7/2017
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1026	OL	40121200	2/8/2017	2017	2	ZI	9200066142	50	-11.08		2602	2/7/2017	2/7/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	2/2/2017	2017	2	ZJ	9200065957	50	-2.01		2602	2/1/2017	2/1/2017
1026	OL	40121200	2/2/2017	2017	2	ZJ	9200065957	50	-3.83		2602	2/1/2017	2/1/2017
1026	OL	40121200	2/2/2017	2017	2	ZJ	9200065957	50	-1.92		2602	2/1/2017	2/1/2017
1026	OL	40121200	2/15/2017										

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	2/15/2017	2017	2	ZI	9200066427	40	5.51		2602	2/15/2017	2/15/2017
1026	OL	40121200	2/15/2017	2017	2	ZI	9200066427	40	17.59		2602	2/15/2017	2/15/2017
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1026	OL	40121200	2/15/2017	2017	2	ZI	9200066432	50	-8.02		2602	2/15/2017	2/15/2017
1026	OL	40121200	2/16/2017	2017	2	ZI	9200066433	50	-7.15		2602	2/15/2017	2/15/2017
1026	OL	40121200	2/16/2017	2017	2	ZI	9200066433	50	-107.28		2602	2/15/2017	2/15/2017
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1026	OL	40121200	2/16/2017	2017	2	ZI	9200066433	50	-2.70		2602	2/15/2017	2/15/2017
1026	OL	40121200	2/16/2017	2017	2	ZI	9200066433	50	-31.52		2602	2/15/2017	2/15/2017
1026	OL	40121200	2/16/2017	2017	2	ZI	9200066433	50	-17.53		2602	2/15/2017	2/15/2017
1026	OL	40121200	2/16/2017	2017	2	ZI	9200066433	50	-36.19		2602	2/15/2017	2/15/2017
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1026	OL	40121200	2/16/2017	2017	2	ZI	9200066433	50	-31.08		2602	2/15/2017	2/15/2017
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1026	OL	40121200	2/15/2017	2017	2	ZI	9200066597	40	42.50		2602	2/15/2017	2/21/2017
1026	OL	40121200	2/14/2017	2017	2	ZI	9200066385	50	-2.32		2602	2/13/2017	2/15/2017
1026	OL	40121200	2/6/2017	2017	2	ZI	9200066035	40	19.93		2602	2/6/2017	2/3/2017
1026	OL	40121200	2/6/2017	2017	2	ZI	9200066035	50	-4.73		2602	2/6/2017	2/3/2017
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1026	OL	40121200	2/6/2017	2017	2	ZI	9200066035	50	-1.90		2602	2/6/2017	2/3/2017
1026	OL	40121200	2/6/2017	2017	2	ZI	9200066035	50	-6.18		2602	2/6/2017	2/3/2017
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1026	OL	40121200	2/6/2017	2017	2	ZI	9200066035	50	-2.43		2605	2/6/2017	2/3/2017
1026	OL	40121200	2/6/2017	2017	2	ZI	9200066035	50	-7.57		2602	2/6/2017	2/3/2017
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1026	OL	40121200	2/6/2017	2017	2	ZI	9200066035	50	-10.49		2602	2/6/2017	2/3/2017
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1026	OL	40121200	2/2/2017	2017	2	ZI	9200065949	40	2.68		2602	2/2/2017	2/1/2017
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1026	OL	40121200	2/2/2017	2017	2	ZI	9200065949	50	-10.21		2602	2/2/2017	2/1/2017
1026	OL	40121200	2/2/2017	2017	2	ZI	9200065949	50	-1,615.84		2602	2/2/2017	2/1/2017
1026	OL	40121200	2/2/2017	2017	2	ZI	9200065949	50	-31.51		2602	2/2/2017	2/1/2017
1026	OL	40121200	2/3/2017	2017	2	ZI	9200066006	50	-2.95		2602	2/2/2017	2/2/2017
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1026	OL	40121200	2/3/2017	2017	2	ZI	9200066006	50	-5.60		2602	2/2/2017	2/2/2017
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1026	OL	40121200	2/3/2017	2017	2	ZI	9200066006	50	-3.11		2602	2/2/2017	2/2/2017
1026	OL	40121200	2/3/2017	2017	2	ZI	9200066006	50	-7.76		2602	2/2/2017	2/2/2017
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1026	OL	40121200	2/17/2017	2017	2	ZI	9200066536	40	7.39		2602	2/17/2017	2/17/2017
1026	OL	40121200	2/17/2017	2017	2	ZI	9200066536	40	7.81		2602	2/17/2017	2/17/2017
1026	OL	40121200	2/17/2017	2017	2	ZI	9200066536	40	111.01		2602	2/17/2017	2/17/2017
1026	OL	40121200	2/17/2017	2017	2	ZI	9200066536	40	7.05		2602	2/17/2017	2/17/2017
1026	OL	40121200	2/17/2017	2017	2	ZI	9200066539	50	-1,383.43		2602	2/17/2017	2/17/2017
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1026	OL	40121200	2/20/2017	2017	2	ZI	9200066540	50	-5.63		2602	2/17/2017	2/17/2017
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1026	OL	40121200	2/13/2017	2017	2	ZI	9200066283	50	-1.90		2602	2/10/2017	2/10/2017
1026	OL	40121200	2/13/2017	2017	2	ZI	9200066283	50	-34.79		2602	2/10/2017	2/10/2017
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1026	OL	40121200	2/13/2017	2017	2	ZI	9200066283	50	-2.01		2602	2/10/2017	2/10/2017
1026	OL	40121200	2/7/2017	2017	2	ZI	9200066080	50	-93.54		2605	2/7/2017	2/6/2017
1026	OL	40121200	2/7/2017	2017	2	ZI	9200066080	50	-5.19		2602	2/7/2017	2/6/2017
1026	OL	40121200	2/7/2017	2017	2	ZI	9200066080	50	-73.12		2605	2/7/2017	2/6/2017
1026	OL	40121200	2/7/2017	2017	2	ZI	9200066080	50	-9.40		2602	2/7/2017	2/6/2017
1026	OL	40121200	2/7/2017	2017	2	ZI	9200066080	50	-20.38		2602	2/7/2017	2/6/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	2/23/2017	2017	2	ZI	9200066647	40	8.03		2602	2/23/2017	2/22/2017
1026	OL	40121200	2/23/2017	2017	2	ZI	9200066647	40	13.16		2602	2/23/2017	2/22/2017
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1026	OL	40121200	2/27/2017	2017	2	ZI	9200066735	50	-175.86		2602	2/27/2017	2/24/2017
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1026	OL	40131200	2/9/2017	2017	2	ZI	9200066170	50	-105.08		2602	2/9/2017	2/8/2017
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1026	OL	40131200	2/17/2017	2017	2	ZI	9200066478	50	-2,231.97		2602	2/17/2017	2/16/2017
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1026	OL	40131200	2/10/2017	2017	2	ZI	9200066224	50	-1,105.09		2602	2/10/2017	2/9/2017
1026	OL	40131200	2/10/2017	2017	2	ZI	9200066224	50	-3.86		2602	2/10/2017	2/9/2017
1026	OL	40131200	2/1/2017	2017	2	ZI	9200065868	50	-118.67		2602	2/1/2017	1/31/2017
1026	OL	40131200	2/21/2017	2017	2	ZI	9200066527	50	-215.25		2602	2/21/2017	2/17/2017
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1026	OL	40131200	2/22/2017	2017	2	ZI	9200066593	50	-34.51		2602	2/22/2017	2/21/2017
1026	OL	40131200	2/24/2017	2017	2	ZI	9200066761	50	-3,133.90		2602	2/24/2017	2/24/2017
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1026	OL	40145200	2/16/2017	2017	2	ZI	9200066424	50	-0.60		2602	2/16/2017	2/15/2017
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1026	OL	40145200	2/15/2017	2017	2	ZI	9200066344	50	-2.38		2602	2/15/2017	2/15/2017
1026	OL	40145200	2/2/2017	2017	2	ZI	9200065949	40	38.31		2602	2/2/2017	2/1/2017
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1026	OL	40151200	2/8/2017	2017	2	ZI	9200066112	50	-4.86		2605	2/8/2017	2/7/2017
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1026	OL	40151200	2/17/2017	2017	2	ZI	9200066536	40	24.08		2602	2/17/2017	2/17/2017
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1026	OL	40151200	2/7/2017	2017	2	ZI	9200066080	50	-99.42		2602	2/7/2017	2/6/2017
1026	OL	40151200	2/23/2017	2017	2	ZI	9200066647	50	-3.38		2602	2/23/2017	2/22/2017
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1026	OL	40151200	2/27/2017	2017	2	ZI	9200066735	50	-324.92		2602	2/27/2017	2/24/2017
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1026	OL	40171100	2/16/2017	2017	2	ZI	9200066424	40	14.68		2602	2/16/2017	2/15/2017
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1026	OL	40121200	3/8/2017	2017	3	ZI	9200067144	50	-6.60		2602	3/7/2017	3/7/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	3/3/2017	2017	3	ZI	9200066988	50	-3.70		2602	3/3/2017	3/2/2017
1026	OL	40121200	3/3/2017	2017	3	ZI	9200066988	50	-153.66		2605	3/3/2017	3/2/2017
1026	OL	40121200	3/2/2017	2017	3	ZI	9200066997	50	-5.17		2602	3/1/2017	3/2/2017
1026	OL	40121200	3/2/2017	2017	3	ZI	9200066997	50	-37.06		2602	3/1/2017	3/2/2017
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1026	OL	40121200	3/2/2017	2017	3	ZI	9200066997	50	-5.60		2602	3/1/2017	3/2/2017
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1026	OL	40121200	3/2/2017	2017	3	ZI	9200066997	50	-9.71		2602	3/1/2017	3/2/2017
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1026	OL	40121200	3/2/2017	2017	3	ZI	9200066997	50	-7.02		2602	3/1/2017	3/2/2017
1026	OL	40121200	3/1/2017	2017	3	ZI	9200066996	50	-515.71		2602	3/1/2017	3/2/2017
1026	OL	40121200	3/1/2017	2017	3	ZI	9200066996	40	19.00		2602	3/1/2017	3/2/2017
1026	OL	40121200	3/10/2017	2017	3	ZI	9200067230	50	-2,906.39		2602	3/10/2017	3/9/2017
1026	OL	40121200	3/10/2017	2017	3	ZI	9200067230	50	-513.08		2602	3/10/2017	3/9/2017
1026	OL	40121200	3/10/2017	2017	3	ZI	9200067230	50	-61.72		2602	3/10/2017	3/9/2017
1026	OL	40121200	3/10/2017	2017	3	ZI	9200067230	50	-12.57		2602	3/10/2017	3/9/2017
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1026	OL	40121200	3/10/2017	2017	3	ZI	9200067241	50	-4.80		2602	3/9/2017	3/9/2017
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1026	OL	40121200	3/10/2017	2017	3	ZI	9200067241	50	-1.90		2602	3/9/2017	3/9/2017
1026	OL	40121200	3/10/2017	2017	3	ZI	9200067241	50	-1.87		2602	3/9/2017	3/9/2017
1026	OL	40121200	3/24/2017	2017	3	ZI	9200067800	40	2.09		2602	3/24/2017	3/28/2017
1026	OL	40121200	3/23/2017	2017	3	ZI	9200067621	40	43.84		2602	3/23/2017	3/22/2017
1026	OL	40121200	3/23/2017	2017	3	ZI	9200067621	40	62.74		2602	3/23/2017	3/22/2017
1026	OL	40121200	3/23/2017	2017	3	ZI	9200067621	50	-2,103.32		2602	3/23/2017	3/22/2017
1026	OL	40121200	3/23/2017	2017	3	ZI	9200067621	50	-436.21		2602	3/23/2017	3/22/2017
1026	OL	40121200	3/23/2017	2017	3	ZI	9200067621	50	-6,208.02		2602	3/23/2017	3/22/2017
1026	OL	40121200	3/23/2017	2017	3	ZI	9200067621	50	-4,081.24		2602	3/23/2017	3/22/2017
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1026	OL	40121200	3/23/2017	2017	3	ZI	9200067621	40	3.88		2602	3/23/2017	3/22/2017
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1026	OL	40121200	3/9/2017	2017	3	ZI	9200067198	50	-1.95		2602	3/8/2017	3/8/2017
1026	OL	40121200	3/9/2017	2017	3	ZI	9200067198	50	-2.02		2602	3/8/2017	3/8/2017
1026	OL	40121200	3/9/2017	2017	3	ZI	9200067198	50	-7.59		2602	3/8/2017	3/8/2017
1026	OL	40121200	3/9/2017	2017	3	ZI	9200067198	50	-1.85		2602	3/8/2017	3/8/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	3/14/2017	2017	3	ZJ	9200067379	40	8.55		2602	3/14/2017	3/14/2017
1026	OL	40121200	3/22/2017	2017	3	ZJ	9200067633	40	3.45		2602	3/22/2017	3/22/2017
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1026	OL	40121200	3/14/2017	2017	3	ZJ	9200067330	50	-173.59		2602	3/14/2017	3/13/2017
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1026	OL	40121200	3/14/2017	2017	3	ZJ	9200067330	50	-7,998.34		2602	3/14/2017	3/13/2017
1026	OL	40121200	3/14/2017	2017	3	ZJ	9200067330	50	-0.24		2602	3/14/2017	3/13/2017
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1026	OL	40121200	3/10/2017	2017	3	ZJ	9200067266	40	2.33		2602	3/10/2017	3/10/2017
1026	OL	40121200	3/10/2017	2017	3	ZJ	9200067266	40	49.73		2602	3/10/2017	3/10/2017
1026	OL	40121200	3/10/2017	2017	3	ZJ	9200067266	40	8.61		2602	3/10/2017	3/10/2017
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1026	OL	40121200	3/10/2017	2017	3	ZJ	9200067266	40	2.07		2602	3/10/2017	3/10/2017
1026	OL	40121200	3/10/2017	2017	3	ZJ	9200067266	40	1.03		2602	3/10/2017	3/10/2017
1026	OL	40121200	3/10/2017	2017	3	ZJ	9200067266	40	12.80		2602	3/10/2017	3/10/2017
1026	OL	40121200	3/10/2017	2017	3	ZJ	9200067273	40	127.47		2602	3/10/2017	3/10/2017
1026	OL	40121200	3/10/2017	2017	3	ZJ	9200067273	40	1.92		2602	3/10/2017	3/10/2017
1026	OL	40121200	3/10/2017	2017	3	ZJ	9200067273	40	1.92		2602	3/10/2017	3/10/2017
1026	OL	40121200	3/13/2017	2017	3	ZJ	9200067274	40	1.49		2602	3/10/2017	3/10/2017
1026	OL	40121200	3/13/2017	2017	3	ZJ	9200067274	40	49.73		2602	3/10/2017	3/10/2017
1026	OL	40121200	3/13/2017	2017	3	ZJ	9200067274	40	8.61		2602	3/10/2017	3/10/2017
1026	OL	40121200	3/10/2017	2017	3	ZJ	9200067280	50	-14.39		2602	3/10/2017	3/10/2017
1026	OL	40121200	3/10/2017	2017	3	ZJ	9200067280	50	-2.07		2602	3/10/2017	3/10/2017
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1026	OL	40121200	3/13/2017	2017	3	ZJ	9200067281	50	-21.40		2602	3/10/2017	3/10/2017
1026	OL	40121200	3/13/2017	2017	3	ZJ	9200067281	50	-84.43		2602	3/10/2017	3/10/2017
1026	OL	40121200	3/13/2017	2017	3	ZJ	9200067281	50	-91.01		2602	3/10/2017	3/10/2017
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1026	OL	40121200	3/20/2017	2017	3	ZJ	9200067512	50	-12.61		2602	3/17/2017	3/17/2017
1026	OL	40121200	3/20/2017	2017	3	ZJ	9200067512	50	-43.39		2602	3/17/2017	3/17/2017
1026	OL	40121200	3/23/2017	2017	3	ZJ	9200067513	50	-1.85		2602	3/17/2017	3/17/2017
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1026	OL	40121200	3/17/2017	2017	3	ZJ	9200067470	50	-24.70		2602	3/16/2017	3/16/2017
1026	OL	40121200	3/27/2017	2017	3	ZJ	9200067718	50	-4,286.84		2602	3/27/2017	3/24/2017
1026	OL	40121200	3/27										

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	3/27/2017	2017	3	ZJ	9200067766	40	1.90		2602	3/27/2017	3/27/2017
1026	OL	40121200	3/27/2017	2017	3	ZJ	9200067805	40	0.59		2602	3/27/2017	3/28/2017
1026	OL	40121200	3/27/2017	2017	3	ZJ	9200067832	50	-1.90		2602	3/27/2017	3/28/2017
1026	OL	40121200	3/27/2017	2017	3	ZJ	9200067832	40	30.34		2602	3/27/2017	3/28/2017
1026	OL	40121200	3/27/2017	2017	3	ZJ	9200067832	50	-1.97		2602	3/27/2017	3/28/2017
1026	OL	40121200	3/31/2017	2017	3	ZJ	9200067924	50	-204.66		2605	3/31/2017	3/30/2017
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1026	OL	40121200	3/31/2017	2017	3	ZJ	9200067972	50	-30.34		2602	3/31/2017	3/31/2017
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1026	OL	40121200	3/31/2017	2017	3	ZJ	9200067994	50	-4.36		2602	3/31/2017	3/31/2017
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1026	OL	40121200	3/31/2017	2017	3	ZJ	9200067994	50	-6.82		2602	3/31/2017	3/31/2017
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1026	OL	40121200	3/24/2017	2017	3	ZJ	9200067668	50	-5.67		2602	3/24/2017	3/23/2017
1026	OL	40121200	3/29/2017	2017	3	ZJ	9200067793	50	-145.15		2602	3/29/2017	3/28/2017
1026	OL	40121200	3/29/2017	2017	3	ZJ	9200067793	50	-3,264.82		2602	3/29/2017	3/28/2017
1026	OL	40121200	3/29/2017	2017	3	ZJ	9200067793	50	-0.90		2602	3/29/2017	3/28/2017
1026	OL	40121200	3/29/2017	2017	3	ZJ	9200067793	50	-7.82		2602	3/29/2017	3/28/2017
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1026	OL	40121200	3/29/2017	2017	3	ZJ	9200067879	40	1.45		2602	3/29/2017	3/29/2017
1026	OL	40121200	3/29/2017	2017	3	ZJ	9200067879	40	2.53		2602	3/29/2017	3/29/2017
1026	OL	40121200	3/29/2017	2017	3	ZJ	9200067879	40	1.92		2602	3/29/2017	3/29/2017
1026	OL	40121200	3/29/2017	2017	3	ZJ	9200067879	40	23.02		2602	3/29/2017	3/29/2017
1026	OL	40121200	3/29/2017	2017	3	ZJ	9200067879	40	2.77		2602	3/29/2017	3/29/2017
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1026	OL	40121200	3/29/2017	2017	3	ZJ	9200067896	50	-1.02		2602	3/29/2017	3/29/2017
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1026	OL	40121200	3/29/2017	2017	3	ZJ	9200067896	50	-1.85		2602	3/29/2017	3/29/2017
1026	OL	40121200	3/29/2017	2017	3	ZJ	9200067896	50	-0.19		2602	3/29/2017	3/29/2017
1026	OL	40121200	3/29/2017	2017	3	ZJ	9200067896	50	-0.19		2602	3/29/2017	3/29/2017
1026	OL	40121200	3/29/2017	2017	3	ZJ	9200067896	50	-1.98		2602	3/29/2017	3/29/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	3/30/2017	2017	3	ZJ	9200067897	50	-21.82	2602		3/29/2017	3/29/2017
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1026	OL	40121200	3/30/2017	2017	3	ZJ	9200067897	50	-17.75	2602		3/29/2017	3/29/2017
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1026	OL	40121200	3/30/2017	2017	3	ZJ	9200067898	50	-4.21	2602		3/29/2017	3/29/2017
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1026	OL	40121200	3/30/2017	2017	3	ZJ	9200067875	50	-1.29	2602		3/30/2017	3/29/2017
1026	OL	40121200	3/30/2017	2017	3	ZJ	9200067875	50	-255.67	2602		3/30/2017	3/29/2017
1026	OL	40121200	3/30/2017	2017	3	ZJ	9200067875	50	-2.33	2602		3/30/2017	3/29/2017
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1026	OL	40121200	3/30/2017	2017	3	ZJ	9200067946	50	-573.24	2602		3/30/2017	3/30/2017
1026	OL	40121200	3/31/2017	2017	3	ZJ	9200067947	50	-1.85	2602		3/30/2017	3/30/2017
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1026	OL	40121200	3/31/2017	2017	3	ZJ	9200067947	50	-6.07	2602		3/30/2017	3/30/2017
1026	OL	40121200	3/31/2017	2017	3	ZJ	9200067947	50	-27.95	2602		3/30/2017	3/30/2017
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1026	OL	40121200	3/31/2017	2017	3	ZJ	9200067947	50	-145.89	2602		3/30/2017	3/30/2017
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1026	OL	40121200	3/22/2017	2017	3	ZJ	9200067588	40	10.61	2602		3/21/2017	3/21/2017
1026	OL	40121200	3/22/2017	2017	3	ZJ	9200067588	50	-24.02	2602		3/21/2017	3/21/2017
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1026	OL	40121200	3/1/2017	2017	3	ZJ	9200066949	40	5.68	2602		3/1/2017	3/1/2017
1026	OL	40121200	3/1/2017	2017	3	ZJ	9200067270	40	27.65	2602		3/1/2017	3/10/2017
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1026	OL	40131200	3/30/2017	2017	3	ZI	9200067898	50	-8,347.58		2602	3/29/2017	3/29/2017
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1026	OL	40131200	3/30/2017	2017	3	ZI	9200067875	50	-25.25		2602	3/30/2017	3/29/2017
1026	OL	40131200	3/30/2017	2017	3	ZI	9200067875	50	-58.07		2602	3/30/2017	3/29/2017
1026	OL	40131200	3/17/2017	2017	3	ZI	9200067510	50	-3,353.81		2602	3/20/2017	3/17/2017
1026	OL	40131200	3/28/2017	2017	3	ZI	9200067768	50	-292.50		2602	3/28/2017	3/27/2017
1026	OL	40131200	3/28/2017	2017	3	ZI	9200067768	50	-4.27		2602	3/28/2017	3/27/2017
1026	OL	40131200	3/28/2017	2017	3	ZI	9200067835	50	-563.87		2602	3/28/2017	3/28/2017
1026	OL	40131200	3/28/2017	2017	3	ZI	9200067835	50	-551.85		2602	3/28/2017	3/28/2017
1026	OL	40131200	3/29/2017	2017	3	ZI	9200067836	50	-1,381.61		2602	3/28/2017	3/28/2017
1026	OL	40131200	3/23/2017	2017	3	ZI	9200067620	50	-3.86		2602	3/23/2017	3/22/2017
1026	OL	40131200	3/23/2017	2017	3	ZI	9200067687	50	-520.98		2602	3/23/2017	3/23/2017
1026	OL	40131200	3/24/2017	2017	3	ZI	9200067688	50	-1,038.65		2602	3/23/2017	3/23/2017
1026	OL	40131200	3/23/2017	2017	3	ZI	9200067895	50	-302.32		2602	3/23/2017	3/29/2017
1026	OL	40131200	3/20/2017	2017	3	ZI	9200067511	50	-287.58		2602	3/6/2017	3/17/2017
1026	OL	40131200	3/7/2017	2017	3	ZI	9200067092	50	-70.74		2602	3/7/2017	3/6/2017

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40145200	3/10/2017	2017	3	ZI	9200067230	50	-3.59		2602	3/10/2017	3/9/2017
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1026	OL	40145200	3/8/2017	2017	3	ZI	9200067129	40	19.02		2602	3/8/2017	3/7/2017
1026	OL	40145200	3/10/2017	2017	3	ZI	9200067241	50	-0.60		2602	3/9/2017	3/9/2017
1026	OL	40145200	3/27/2017	2017	3	ZI	9200067718	50	-0.60		2602	3/27/2017	3/24/2017
1026	OL	40145200	3/31/2017	2017	3	ZI	9200067924	50	-1.19		2602	3/31/2017	3/30/2017
1026	OL	40145200	3/23/2017	2017	3	ZI	9200067620	50	-1.19		2602	3/23/2017	3/22/2017
1026	OL	40145200	3/23/2017	2017	3	ZI	9200067620	50	-0.60		2602	3/23/2017	3/22/2017
1026	OL	40145200	3/23/2017	2017	3	ZI	9200067620	50	-3.57		2602	3/23/2017	3/22/2017
1026	OL	40145200	3/7/2017	2017	3	ZI	9200067092	50	-2.39		2602	3/7/2017	3/6/2017
1026	OL	40145200	3/2/2017	2017	3	ZI	9200066940	50	-1.19		2602	3/2/2017	3/1/2017
1026	OL	40151200	3/9/2017	2017	3	ZI	9200067235	40	8.46		2602	3/9/2017	3/9/2017
1026	OL	40151200	3/1/2017	2017	3	ZI	9200066836	50	-956.72		2602	3/1/2017	2/28/2017
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1026	OL	40151200	3/6/2017	2017	3	ZI	9200067038	50	-50.17		2602	3/6/2017	3/3/2017
1026	OL	40151200	3/6/2017	2017	3	ZI	9200067038	50	-173.82		2602	3/6/2017	3/3/2017
1026	OL	40151200	3/6/2017	2017	3	ZI	9200067038	50	-1,384.59		2602	3/6/2017	3/3/2017
1026	OL	40151200	3/3/2017	2017	3	ZI	9200066988	50	-191.48		2602	3/3/2017	3/2/2017
1026	OL	40151200	3/3/2017	2017	3	ZI	9200066988	50	-385.00		2602	3/3/2017	3/2/2017
1026	OL	40151200	3/3/2017	2017	3	ZI	9200066988	50	-24.29		2605	3/3/2017	3/2/2017
1026	OL	40151200	3/3/2017	2017	3	ZI	9200066988	50	-10.60		2605	3/3/2017	3/2/2017
1026	OL	40151200	3/3/2017	2017	3	ZI	9200066988	50	-10.40		2602	3/3/2017	3/2/2017
1026	OL	40151200	3/10/2017	2017	3	ZI	9200067230	50	-201.71		2602	3/10/2017	3/9/2017
1026	OL	40151200	3/8/2017	2017	3	ZI	9200067129	50	-2.12		2605	3/8/2017	3/7/2017
1026	OL	40151200	3/8/2017	2017	3	ZI	9200067129	50	-36.77		2605	3/8/2017	3/7/2017
1026	OL	40151200	3/8/2017	2017	3	ZI	9200067129	50	-6.00		2605	3/8/2017	3/7/2017
1026	OL	40151200	3/10/2017	2017	3	ZI	9200067241	50	-1.72		2602	3/9/2017	3/9/2017
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1026	OL	40151200	3/23/2017	2017	3	ZI	9200067621	50	-735.12		2602	3/23/2017	3/22/2017
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1026	OL	40151200	3/23/2017	2017	3	ZI	9200067621	50	-2,450.50		2602	3/23/2017	3/22/2017
1026	OL	40151200	3/23/2017	2017	3	ZI	9200067621	50	-570.39		2602	3/23/2017	3/22/2017
1026	OL	40151200	3/23/2017	2017	3	ZI	9200067621	50	-901.49		2602	3/23/2017	3/22/2017
1026	OL	40151200	3/23/2017	2017	3	ZI	9200067621	50	-27.60		2602	3/23/2017	3/22/2017
1026	OL	40151200	3/23/2017	2017	3	ZI	9200067621	50	-6,971.83		2602	3/23/2017	3/22/2017
1026	OL	40151200	3/23/2017	2017	3	ZI	9200067621	50	-47.97		2602	3/23/2017	3/22/2017
1026	OL	40151200	3/14/2017	2017	3	ZI	9200067330	50	-1.69		2602	3/14/2017	3/13/2017
1026	OL	40151200	3/14/2017	2017	3	ZI	9200067330	50	-235.88		2602	3/14/2017	3/13/2017
1026	OL	40151200	3/14/2017	2017	3	ZI	9200067330	50	-726.08		2602	3/14/2017	3/13/2017
1026	OL	40151200	3/14/2017	2017	3	ZI	9200067330	50	-1.69		2602	3/14/2017	3/13/2017
1026	OL	40151200	3/15/2017	2017	3	ZI	9200067373	50	-1.69		2602	3/14/2017	3/14/2017
1026	OL	40151200	3/15/2017	2017	3	ZI	9200067373	50	-1.70		2602	3/14/2017	3/14/2017
1026	OL	40151200	3/27/2017	2017	3	ZI	9200067718	50	-358.01		2602	3/27/2017	3/24/2017
1026	OL	40151200	3/27/2017	2017	3	ZI	9200067718	50	-1.85		2602	3/27/2017	3/24/2017
1026	OL	40151200	3/27/2017	2017	3	ZI	9200067718	50	-10.95		2602	3/27/2017	3/24/2017
1026	OL	40151200	3/27/2017	2017	3	ZI	9200067718	50	-2.49		2602	3/27/2017	3/24/2017
1026	OL	40151200	3/27/2017	2017	3	ZI	9200067824	40	2.63		2602	3/27/2017	3/28/2017
1026	OL	40151200	3/27/2017	2017	3	ZI	9200067832	50	-1.77		2602	3/27/2017	3/28/2017
1026	OL	40151200	3/27/2017	2017	3	ZI	9200067832	50	-1.69		2602	3/27/2017	3/28/2017
1026	OL	40151200	3/31/2017	2017	3	ZI	9200067924	50	-477.76		2602	3/31/2017	3/30/2017
1026	OL	40151200	3/31/2017	2017	3	ZI	9200067924	50	-2,034.42		2602	3/31/2017	3/30/2017
1026	OL	40151200	3/31/2017	2017	3	ZI	9200067924	50	-12.75		2605	3/31/2017	3/30/2017
1026	OL	40151200	3/24/2017	2017	3	ZI	9200067668	50	-186.40		2602	3/24/2017	3/23/2017
1026	OL	40151200	3/24/2017	2017	3	ZI	9200067668	50	-21.61		2602	3/24/2017	3/23/2017
1026	OL	40151200	3/24/2017	2017	3	ZI	9200067668	50	-33.95		2602	3/24/2017	3/23/2017
1026	OL	40151200	3/24/2017	2017	3	ZI	9200067727	40	1.83		2602	3/24/2017	3/24/2017
1026	OL	40151200	3/24/2017	2017	3	ZI	9200067727	40	9.67		2602	3/24/2017	3/24/2017
1026	OL	40151200	3/24/2017	2017	3	ZI	9200067727	40	1.83		2602	3/24/2017	3/24/2017
1026	OL	40151200	3/24/2017	2017	3	ZI	9200067727	50	-7.97		2602	3/24/2017	3/24/2017
1026	OL	40151200	3/24/2017	2017	3	ZI	9200067727	40	3.57		2602	3/24/2017	3/24/2017
1026	OL	40151200	3/24/2017	2017	3	ZI	9200067727	40	1.79		2602	3/24/2017	3/24/2017
1026	OL	40151200	3/24/2017	2017	3	ZI	9200067727	40	1.69		2602	3/24/2017	3/24/2017
1026	OL	40151200	3/27/2017	2017	3	ZI	9200067731	50	-3.57		2602	3/24/2017	3/24/2017
1026	OL	40151200	3/27/2017	2017	3	ZI	9200067731	50	-13.69		2602	3/24/2017	3/24/2017
1026	OL	40151200	3/27/2017	2017	3	ZI	9200067731	50	-27.60		2602	3/24/2017	3/24/2017
1026	OL	40151200	3/27/2017	2017	3	ZI	9200067731	50	-10.48		2602	3/24/2017	3/24/2017
1026	OL	40151200	3/27/2017	2017	3	ZI	9200067731	50	-11.83		2602	3/24/2017	3/24/2017
1026	OL	40151200	3/27/2017	2017	3	ZI	9200067731	50	-9.31		2602	3/24/2017	3/24/2017
1026	OL	40151200	3/29/2017	2017	3	ZI	9200067793	50	-272.43		2602	3/29/2017	3/28/2017
1026	OL	40151200	3/29/2017	2017	3	ZI	9200067793	50	-12.92		2602	3/29/2017	3/28/2017
1026	OL	40151200	3/30/2017	2017	3	ZI	9200067897	50	-1,391.43		2602	3/29/2017	3/29/2017
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1026	OL	40151200	3/13/2017	2017	3	ZI	9200067264	40	12.43		2602	3/13/2017	3/10/2017
1026	OL	40151200	3/13/2017	2017	3	ZI	9200067264	50	-785.24		2602	3/13/2017	3/10/2017
1026	OL	40151200	3/13/2017	2017	3	ZI	9200067264	50	-5.03		2602	3/13/2017	3/10/2017
1026	OL	40151200	3/30/2017	2017	3	ZI	9200067875	50	-108.10		2602	3/30/2017	3/29/2017
1026	OL	40151200	3/30/2017	2017	3	ZI	9200067875	50	-1,172.85		2602	3/30/2017	3/29/2017

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40151200	3/28/2017	2017	3	ZI	9200067835	50	-683.47		2602	3/28/2017	3/28/2017
1026	OL	40151200	3/29/2017	2017	3	ZI	9200067836	50	-741.04		2602	3/28/2017	3/28/2017
1026	OL	40151200	3/29/2017	2017	3	ZI	9200067836	50	-2,255.32		2602	3/28/2017	3/28/2017
1026	OL	40151200	3/24/2017	2017	3	ZI	9200067688	50	-332.34		2602	3/23/2017	3/23/2017
1026	OL	40151200	3/7/2017	2017	3	ZI	9200067092	50	-108.64		2605	3/7/2017	3/6/2017
1026	OL	40151200	3/7/2017	2017	3	ZI	9200067092	50	-591.38		2602	3/7/2017	3/6/2017
1026	OL	40151200	3/7/2017	2017	3	ZI	9200067092	50	-127.13		2602	3/7/2017	3/6/2017
1026	OL	40151200	3/7/2017	2017	3	ZI	9200067092	50	-11.37		2602	3/7/2017	3/6/2017
1026	OL	40151200	3/2/2017	2017	3	ZI	9200066939	50	-110.47		2602	3/2/2017	3/1/2017
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1026	OL	40151200	3/2/2017	2017	3	ZI	9200066940	50	-29.71		2602	3/2/2017	3/1/2017
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1026	OL	40151200	3/15/2017	2017	3	ZI	9200067376	40	3.45		2602	3/15/2017	3/14/2017
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1026	OL	40161200	3/30/2017	2017	3	ZI	9200067897	50	-3,385.92		2602	3/29/2017	3/29/2017
1026	OL	40161200	3/30/2017	2017	3	ZI	9200067898	50	-2,945.35		2602	3/29/2017	3/29/2017
1026	OL	40161200	3/23/2017	2017	3	ZI	9200067514	50	-790.51		2602	3/20/2017	3/17/2017
1026	OL	40161200	3/23/2017	2017	3	ZI	9200067620	50	-44.12		2602	3/23/2017	3/22/2017
1026	OL	40171100	3/23/2017	2017	3	ZI	9200067621	50	-87.38		2602	3/23/2017	3/22/2017
1026	OL	40171100	3/23/2017	2017	3	ZI	9200067621	50	-15.07		2602	3/23/2017	3/22/2017
1026	OL	40121200	4/26/2017	2017	4	ZI	9200068776	50	-16.09		2602	4/26/2017	4/25/2017
1026	OL	40121200	4/26/2017	2017	4	ZI	9200068776	50	-35.98		2602	4/26/2017	4/25/2017
1026	OL	40121200	4/26/2017	2017	4	ZI	9200068776	50	-6,713.89		2602	4/26/2017	4/25/2017
1026	OL	40121200	4/26/2017	2017	4	ZI	9200068776	50	-3,887.94		2602	4/26/2017	4/25/2017
1026	OL	40121200	4/7/2017	2017	4	ZI	9200068188	40	35.63		2602	4/6/2017	4/6/2017
1026	OL	40121200	4/6/2017	2017	4	ZI	9200068187	40	3.11		2602	4/6/2017	4/6/2017
1026	OL	40121200	4/7/2017	2017	4	ZI	9200068175	50	-1,099.99		2602	4/7/2017	4/6/2017
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1026	OL	40121200	4/7/2017	2017	4	ZI	9200068175	50	-3.06		2605	4/7/2017	4/6/2017
1026	OL	40121200	4/18/2017	2017	4	ZI	9200068771	40	42.88		2602	4/18/2017	4/25/2017
1026	OL	40121200	4/19/2017	2017	4	ZI	9200068772	40	5.48		2602	4/18/2017	4/25/2017
1026	OL	40121200	4/18/2017	2017	4	ZI	9200068773	40	41.81		2602	4/18/2017	4/25/2017
1026	OL	40121200	4/11/2017	2017	4	ZI	9200068269	50	-577.28		2602	4/11/2017	4/10/2017
1026	OL	40121200	4/11/2017	2017	4	ZI	9200068269	50	-4,087.47		2602	4/11/2017	4/10/2017
1026	OL	40121200	4/11/2017	2017	4	ZI	9200068269	50	-27.97		2602	4/11/2017	4/10/2017
1026	OL	40121200	4/11/2017	2017	4	ZI	9200068269	50	-2,288.54		2602	4/11/2017	4/10/2017
1026	OL	40121200	4/11/2017	2017	4	ZI	9200068269	40	2.01		2602	4/11/2017	4/10/2017
1026	OL	40121200	4/11/2017	2017	4	ZI	9200068269	50	-901.78		2602	4/11/2017	4/10/2017
1026	OL	40121200	4/6/2017	2017	4	ZI	9200068788	40	2.35		2602	4/6/2017	4/25/2017
1026	OL	40121200	4/14/2017	2017	4	ZI	9200068789	40	9.47		2602	4/14/2017	4/25/2017
1026	OL	40121200	4/7/2017	2017	4	ZI	9200068191	50	-56.55		2602	4/6/2017	4/6/2017
1026	OL	40121200	4/7/2017	2017	4	ZI	9200068191	50	-6.80		2605	4/6/2017	4/6/2017
1026	OL	40121200	4/7/2017	2017	4	ZI	9200068191	50	-4.65		2602	4/6/2017	4/6/2017
1026	OL	40121200	4/7/2017	2017	4	ZI	9200068191	50	-1.85		2602	4/6/2017	4/6/2017
1026	OL	40121200	4/6/2017	2017	4	ZI	9200068190	50	-58.74		2602	4/6/2017	4/6/2017
1026	OL	40121200	4/12/2017	2017	4	ZI	9200068785	40	2.34		2602	4/11/2017	4/25/2017
1026	OL	40121200	4/27/2017	2017	4	ZI	9200068878	40	24.46		2602	4/27/2017	4/27/2017
1026	OL	40121200	4/27/2017	2017	4	ZI	9200068878	40	7.37		2602	4/27/2017	4/27/2017
1026	OL	40121200	4/12/2017	2017	4	ZI	9200068304	50	-538.99		2602	4/12/2017	4/11/2017
1026	OL	40121200	4/12/2017	2017	4	ZI	9200068304	50	-4,728.74		2602	4/12/2017	4/11/2017
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1026	OL	40121200	4/12/2017	2017	4	ZI	9200068304	50	-11.74		2602	4/12/2017	4/11/2017
1026	OL	40121200	4/12/2017	2017	4	ZI	9200068304	50	-52.31		2602	4/12/2017	4/11/2017
1026	OL	40121200	4/12/2017	2017	4	ZI	9200068304	50	-444.19		2602	4/12/2017	4/11/2017
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1026	OL	40121200	4/12/2017	2017	4	ZI	9200068304	40	8.15		2602	4/12/2017	4/11/2017
1026	OL	40121200	4/12/2017	2017	4	ZI	9200068385	50	-2.49		2602	4/12/2017	4/12/2017
1026	OL	40121200	4/13/2017	2017	4	ZI	9200068386	50	-1.85		2602	4/12/2017	4/12/2017
1026	OL	40121200	4/13/2017	2017	4	ZI	9200068386	50	-1.85		2602	4/12/2017	4/12/2017
1026	OL	40121200	4/13/2017	2017	4	ZI	9200068386	50	-4.66		2602	4/12/2017	4/12/2017
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1026	OL	40121200	4/13/2017	2017	4	ZI	9200068386	50	-37.13		2602	4/12/2017	4/12/2017
1026	OL	40121200	4/13/2017	2017	4	ZI	9200068386	50	-7.06		2602	4/12/2017	4/12/2017
1026	OL	40121200	4/13/2017	2017	4	ZI	9200068386	50	-2.44		2602	4/12/2017	4/12/2017
1026	OL	40121200	4/13/2017	2017	4	ZI	9200068386	50	-2.11		2602	4/12/2017	4/12/2017
1026	OL	40121200	4/13/2017	2017	4	ZI	9200068386	50	-3.37		2602	4/12/2017	4/12/2017
1026	OL	40121200	4/4/2017	2017	4	ZI	9200068034	50	-1.90		2602	4/4/2017	4/3/2017
1026	OL	40121200	4/4/2017	2017	4	ZI	9200068034	50	-0.32		2602	4/4/2017	4/3/2017
1026	OL	40121200	4/4/2017	2017	4	ZI	9200068034	50	-1.05		2602	4/4/2017	4/3/2017
1026	OL	40121200	4/4/2017	2017	4	ZI	9200068034	50	-2.94		2605	4/4/2017	4/3/2017
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1026	OL	40121200	4/4/2017	2017	4	ZI	9200068034	50	-2.05		2602	4/4/2017	4/3/2017
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1026	OL	40121200	4/4/2017	2017	4	ZI	9200068034	50	-1.92		2602	4/4/2017	4/3/2017
1026	OL	40121200	4/4/2017	2017	4	ZI	9200068034	50	-65.66		2602	4/4/2017	4/3/2017
1026	OL	40121200	4/4/2017	2017	4	ZI	9200068034	50	-20.57		2602	4/4/2017	4/3/2017
1026	OL	40121200	4/4/2017	2017	4	ZI	9200068034	50	-1.90		2602	4/4/2017	4/3/2017
1026	OL	40121200	4/4/2017	2017	4	ZI	9200068034	50	-1.90		2602	4/4/2017	4/3/2017
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1026	OL	40121200	4/4/2017	2017	4	ZI	9200068034	50	-1.75		2602	4/4/2017	4/3/2017
1026	OL	40121200	4/4/2017	2017	4	ZI	9200068034	50	-8.54		2602	4/4/2017	4/3/2017
1026	OL	40121200	4/4/2017	2017	4	ZI	9200068034	50	-14.26		2602	4/4/2017	4/3/2017
1026	OL	40121200	4/4/2017	2017	4	ZI	9200068034	50	-2.09		2602	4/4/2017	4/3/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	4/5/2017	2017	4	ZJ	9200068101	50	-10.85	2602		4/4/2017	4/5/2017
1026	OL	40121200	4/20/2017	2017	4	ZJ	9200068605	50	-113.30	2602		4/20/2017	4/19/2017
1026	OL	40121200	4/20/2017	2017	4	ZJ	9200068605	50	-2.30	2602		4/20/2017	4/19/2017
1026	OL	40121200	4/20/2017	2017	4	ZJ	9200068605	50	-3.39	2602		4/20/2017	4/19/2017
1026	OL	40121200	4/20/2017	2017	4	ZJ	9200068605	50	-3.16	2602		4/20/2017	4/19/2017
1026	OL	40121200	4/20/2017	2017	4	ZJ	9200068605	50	-0.10	2602		4/20/2017	4/19/2017
1026	OL	40121200	4/20/2017	2017	4	ZJ	9200068605	50	-3.16	2602		4/20/2017	4/19/2017
1026	OL	40121200	4/20/2017	2017	4	ZJ	9200068605	50	-3.31	2602		4/20/2017	4/19/2017
1026	OL	40121200	4/20/2017	2017	4	ZJ	9200068605	50	-0.27	2602		4/20/2017	4/19/2017
1026	OL	40121200	4/20/2017	2017	4	ZJ	9200068605	50	-3.18	2602		4/20/2017	4/19/2017
1026	OL	40121200	4/20/2017	2017	4	ZJ	9200068605	50	-61.17	2602		4/20/2017	4/19/2017
1026	OL	40121200	4/20/2017	2017	4	ZJ	9200068605	50	-2,062.80	2602		4/20/2017	4/19/2017
1026	OL	40121200	4/20/2017	2017	4	ZJ	9200068605	50	-990.55	2602		4/20/2017	4/19/2017
1026	OL	40121200	4/20/2017	2017	4	ZJ	9200068605	50	-3.39	2602		4/20/2017	4/19/2017
1026	OL	40121200	4/20/2017	2017	4	ZJ	9200068605	50	-4,215.05	2602		4/20/2017	4/19/2017
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1026	OL	40121200	4/20/2017	2017	4	ZJ	9200068662	40	1.90	2602		4/20/2017	4/20/2017
1026	OL	40121200	4/20/2017	2017	4	ZJ	9200068662	40	5.05	2602		4/20/2017	4/20/2017
1026	OL	40121200	4/20/2017	2017	4	ZJ	9200068667	50	-2.49	2602		4/20/2017	4/20/2017
1026	OL	40121200	4/21/2017	2017	4	ZJ	9200068668	50	-1.95	2602		4/20/2017	4/20/2017
1026	OL	40121200	4/20/2017	2017	4	ZJ	9200068929	40	67.40	2602		4/20/2017	4/28/2017
1026	OL	40121200	4/11/2017	2017	4	ZJ	9200068306	40	11.74	2602		4/11/2017	4/11/2017
1026	OL	40121200	4/11/2017	2017	4	ZJ	9200068316	40	2.43	2605		4/11/2017	4/11/2017
1026	OL	40121200	4/12/2017	2017	4	ZJ	9200068317	40	2.43	2605		4/11/2017	4/11/2017
1026	OL	40121200	4/12/2017	2017	4	ZJ	9200068317	40	3.06	2605		4/11/2017	4/11/2017
1026	OL	40121200	4/12/2017	2017	4	ZJ	9200068324	50	-7.67	2602		4/11/2017	4/11/2017
1026	OL	40121200	4/12/2017	2017	4	ZJ	9200068324	50	-1.74	2602		4/11/2017	4/11/2017
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1026	OL	40121200	4/12/2017	2017	4	ZJ	9200068324	50	-0.82	2602		4/11/2017	4/11/2017
1026	OL	40121200	4/12/2017	2017	4	ZJ	9200068324	50	-2.12	2602		4/11/2017	4/11/2017
1026	OL	40121200	4/12/2017	2017	4	ZJ	9200068325	50	-5.17	2602		4/11/2017	4/11/2017
1026	OL	40121200	4/12/2017	2017	4	ZJ	9200068325	50	-2.54	2602		4/11/2017	4/11/2017
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1026	OL	40121200	4/12/2017	2017	4	ZJ	9200068325	50	-44.03	2602		4/11/2017	4/11/2017
1026	OL	40121200	4/12/2017	2017	4	ZJ	9200068325	50	-5.17	2602		4/11/2017	4/11/2017
1026	OL	40121200	4/12/2017	2017	4	ZJ	9200068325	50	-50.20	2602		4/11/2017	4/11/2017
1026	OL	40121200	4/12/2017	2017	4	ZJ	9200068325	50	-5.17	2602		4/11/2017	4/11/2017
1026	OL	40121200	4/12/2017	2017	4	ZJ	9200068325	50	-4.86	2605		4/11/2017	4/11/2017
1026	OL	40121200	4/12/2017	2017	4	ZJ	9200068325	50	-6.97	2602		4/11/2017	4/11/2017
1026	OL	40121200	4/12/2017	2017	4	ZJ	9200068325	50	-5.55	2602		4/11/2017	4/11/2017
1026	OL	40121200	4/12/2017	2017	4	ZJ	9200068325	50	-5.54	2602		4/11/2017	4/11/2017
1026	OL	40121200	4/12/2017	2017	4	ZJ	9200068325	50	-5.24	2602		4/11/2017	4/11/2017
1026	OL	40121200	4/12/2017	2017	4	ZJ	9200068325	50	-5.17	2602		4/11/2017	4/11/2017
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1026	OL	40121200	4/12/2017	2017	4	ZJ	9200068325	50	-6.12	2605		4/11/2017	4/11/2017
1026	OL	40121200	4/12/2017	2017	4	ZJ	9200068325	50	-5.22	2602		4/11/2017	4/11/2017
1026	OL	40121200	4/12/2017	2017	4	ZJ	9200068325	50	-5.17	2602		4/11/2017	4/11/2017
1026	OL	40121200	4/5/2017	2017	4	ZJ	9200068068	40	-17.75	2602		4/5/2017	4/4/2017
1026	OL	40121200	4/5/2017	2017	4	ZJ	9200068068	50	0.42	2602		4/5/2017	4/4/2017
1026	OL	40121200	4/5/2017	2017	4	ZJ	9200068068	50	-24.64	2602		4/5/2017	4/4/2017
1026	OL	40121200	4/5/2017	2017	4	ZJ	9200068068	50	-2,065.23	2602		4/5/2017	4/4/2017
1026	OL	40121200	4/5/2017	2017	4	ZJ	9200068068	50	-5.94	2602		4/5/2017	4/4/2017
1026	OL	40121200	4/5/2017	2017	4	ZJ	9200068068	40	6.32	2602		4/5/2017	4/4/2017
1026	OL	40121200	4/5/2017	2017	4	ZJ	9200068139	40	2.31	2605		4/5/2017	4/5/2017
1026	OL	40121200	4/5/2017	2017	4	ZJ	9200068139	40	6.36	2605		4/5/2017	4/5/2017
1026	OL	40121200	4/5/2017	2017	4	ZJ	9200068139	40	17.94	2602		4/5/2017	4/5/2017
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1026	OL	40121200	4/5/2017	2017	4	ZJ	9200068139	40	2.12	2605		4/5/2017	4/5/2017
1026	OL	40121200	4/5/2017	2017	4	ZJ	9200068139	40	81.05	2602		4/5/2017	4/5/2017
1026	OL	40121200	4/5/2017	2017	4	ZJ	9200068139	40	16.55	2602		4/5/2017	4/5/2017
1026	OL	40121200	4/5/2017	2017	4	ZJ	9200068139	40	2.27	2605		4/5/2017	4/5/2017
1026	OL	40121200	4/5/2017	2017	4	ZJ	9200068139	40	2.12	2605		4/5/2017	4/5/2017
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1026	OL	40121200	4/5/2017	2017	4	ZJ	9200068139	40	2.25	2605		4/5/2017	4/5/2017
1026	OL	40121200	4/5/2017	2017	4	ZJ	9200068139	40	17.18	2602		4/5/2017	4/5/2017
1026	OL	40121200	4/5/2017	2017	4	ZJ	9200068139	40	2.12	2605		4/5/2017	4/5/2017
1026	OL	40121200	4/6/2017	2017	4	ZJ	9200068142	50	-2.31	2605		4/5/2017	4/5/2017
1026	OL	40121200	4/6/2017	2017	4	ZJ	9200068142	50	-58.09	2602		4/5/2017	4/5/2017
1026	OL	40121200	4/6/2017	2017	4	ZJ	9200068142	50	-17.18	2602		4/5/2017	4/5/2017
1026	OL	40121200	4/6/2017	2017	4	ZJ	9200068142	50	-124.18	2602		4/5/2017	4/5/2017
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1026	OL	40121200	4/6/2017	2017	4	ZJ	9200068142	50	-2.12	2605		4/5/2017	4/5/2017
1026	OL	40121200	4/6/2017	2017	4	ZJ	9200068142	50	-2.25	2605		4/5/2017	4/5/2017
1026	OL	40121200	4/6/2017	2017	4	ZJ	9200068142	50	-2.12	2605		4/5/2017	4/5/2017
1026	OL	40121200	4/6/2017	2017	4	ZJ	9200068142	50	-1.03	2602		4/5/2017	4/5/2017
1026	OL	40121200	4/6/2017	2017	4	ZJ	9200068142	50	-57.41	2602		4/5/2017	4/5/2017
1026	OL	40121200	4/6/2017	2017	4	ZJ	9200068142	50	-2.12	2605		4/5/2017	4/5/2017
1026	OL	40121200	4/6/2017	2017	4	ZJ	9200068142	50	-2.27	2605		4/5/2017	4/5/2017
1026	OL	40121200	4/6/2017	2017	4	ZJ	9200068142	50	-2.12	2605		4/5/2017	4/5/2017
1026	OL	40121200	4/6/2017	2017	4	ZJ	9200068142	50	-17.94	2602		4/5/2017	4/5/2017
1026	OL	40121200	4/6/2017	2017	4	ZJ	9200068142	50	-2.12	2605		4/5/2017	4/5/2017
1026	OL	40121200	4/6/2017	2017	4	ZJ	9200068142	50	-2.55	2605		4/5/2017	4/5/2017
1026	OL	40121200	4/6/2017	2017	4	ZJ	9200068143	50	-2.24	2602		4/5/2017	4/5/2017
1026	OL	40121200	4/13/2017	2017	4	ZJ	9200068371	50	-98.19	2602		4/13/2017	4/12

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	4/13/2017	2017	4	ZJ	9200068421	40	27.89	2602		4/13/2017	4/13/2017
1026	OL	40121200	4/13/2017	2017	4	ZJ	9200068421	40	1.95	2602		4/13/2017	4/13/2017
1026	OL	40121200	4/13/2017	2017	4	ZJ	9200068421	40	30.26	2602		4/13/2017	4/13/2017
1026	OL	40121200	4/13/2017	2017	4	ZJ	9200068421	40	2.45	2602		4/13/2017	4/13/2017
1026	OL	40121200	4/13/2017	2017	4	ZJ	9200068421	40	28.25	2602		4/13/2017	4/13/2017
1026	OL	40121200	4/13/2017	2017	4	ZJ	9200068421	40	2.53	2602		4/13/2017	4/13/2017
1026	OL	40121200	4/13/2017	2017	4	ZJ	9200068421	40	25.47	2602		4/13/2017	4/13/2017
1026	OL	40121200	4/13/2017	2017	4	ZJ	9200068421	40	2.11	2602		4/13/2017	4/13/2017
1026	OL	40121200	4/13/2017	2017	4	ZJ	9200068421	40	28.67	2602		4/13/2017	4/13/2017
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1026	OL	40121200	4/13/2017	2017	4	ZJ	9200068421	40	1.95	2602		4/13/2017	4/13/2017
1026	OL	40121200	4/13/2017	2017	4	ZJ	9200068421	40	32.16	2602		4/13/2017	4/13/2017
1026	OL	40121200	4/13/2017	2017	4	ZJ	9200068428	40	34.24	2605		4/13/2017	4/13/2017
1026	OL	40121200	4/14/2017	2017	4	ZJ	9200068429	50	-2.51	2602		4/13/2017	4/13/2017
1026	OL	40121200	4/14/2017	2017	4	ZJ	9200068429	50	-2.05	2602		4/13/2017	4/13/2017
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1026	OL	40121200	4/14/2017	2017	4	ZJ	9200068429	50	-1.90	2602		4/13/2017	4/13/2017
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1026	OL	40121200	4/17/2017	2017	4	ZJ	9200068430	50	-41.81	2602		4/13/2017	4/13/2017
1026	OL	40121200	4/17/2017	2017	4	ZJ	9200068430	50	-27.02	2602		4/13/2017	4/13/2017
1026	OL	40121200	4/17/2017	2017	4	ZJ	9200068430	50	-39.48	2602		4/13/2017	4/13/2017
1026	OL	40121200	4/17/2017	2017	4	ZJ	9200068430	50	-36.99	2602		4/13/2017	4/13/2017
1026	OL	40121200	4/17/2017	2017	4	ZJ	9200068430	50	-36.06	2602		4/13/2017	4/13/2017
1026	OL	40121200	4/17/2017	2017	4	ZJ	9200068430	50	-35.64	2602		4/13/2017	4/13/2017
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1026	OL	40121200	4/13/2017	2017	4	ZJ	9200068966	40	0.71	2602		4/13/2017	4/28/2017
1026	OL	40121200	4/10/2017	2017	4	ZJ	9200068225	50	-2.82	2602		4/7/2017	4/8/2017
1026	OL	40121200	4/10/2017	2017	4	ZJ	9200068225	50	-9.31	2602		4/7/2017	4/8/2017
1026	OL	40121200	4/10/2017	2017	4	ZJ	9200068225	50	-6.62	2602		4/7/2017	4/8/2017
1026	OL	40121200	4/10/2017	2017	4	ZJ	9200068225	50	-5.89	2602		4/7/2017	4/8/2017
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1026	OL	40121200	4/7/2017	2017	4	ZJ	9200068226	40	1.85	2602		4/7/2017	4/8/2017
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1026	OL	40121200	4/3/2017	2017	4	ZJ	9200067970	50	-2.55	2605		4/3/2017	3/31/2017
1026	OL	40121200	4/3/2017	2017	4	ZJ	9200067970	50	-307.07	2602		4/3/2017	3/31/2017
1026	OL	40121200	4/3/2017	2017	4	ZJ	9200067970	40	10.68	2602		4/3/2017	3/31/2017
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1026	OL	40121200	4/4/2017	2017	4	ZJ	9200068039	40	2.09	2602		4/3/2017	4/4/2017
1026	OL	40121200	4/4/2017	2017	4	ZJ	9200068039	40	1.05	2602		4/3/2017	4/4/2017
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1026	OL	40121200	4/4/2017	2017	4	ZJ	9200068039	40	1.90	2602		4/3/2017	4/4/2017
1026	OL	40121200	4/4/2017	2017	4	ZJ	9200068039	40	1.75	2602		4/3/2017	4/4/2017
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1026	OL	40121200	4/4/2017	2017	4	ZJ	9200068039	40	0.35	2602		4/3/2017	4/4/2017
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1026	OL	40121200	4/4/2017	2017	4	ZJ	9200068090	50	-1.75	2602		4/3/2017	4/4/2017
1026	OL	40121200	4/4/2017	2017	4	ZJ	9200068090	50	-1.05	2602		4/3/2017	4/4/2017
1026	OL	40121200	4/4/2017	2017	4	ZJ	9200068090	50	-0.35	2602		4/3/2017	4/4/2017
1026	OL	40121200	4/4/2017	2017	4	ZJ	9200068090	50	-2.09	2602		4/3/2017	4/4/2017
1026	OL	40121200	4/4/2017	2017	4	ZJ	9200068090	50	-1.99	2602		4/3/2017	4/4/2017
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1026	OL	40121200	4/4/2017	2017	4	ZJ	9200068090	50	-1.90	2602		4/3/2017	4/4/2017
1026	OL	40121200	4/4/2017	2017	4	ZJ	9200068090	50	-1.90	2602		4/3/2017	4/4/2017
1026	OL	40121200	4/4/2017	2017	4	ZJ	9200068090	50	-1.90	2602		4/3/2017	4/4/2017
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1026	OL	40121200	4/4/2017	2017	4	ZJ	9200068090	50	-1.92	2602		4/3/2017	4/4/2017
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1026	OL	40121200	4/3/2017	2017	4	ZJ	9200067995	40	1.85	2602		3/31/2017	3/31/2017
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1026	OL	40121200	4/3/2017	2017	4	ZJ	9200067995	40	6.21	2602		3/31/2017	3/31/2017
1026	OL	40121200	4/3/2017	2017	4	ZJ	9200067995	40	6.21	2602		3/31/2017	3/31/2017
1026	OL	40121200	4/3/2017	2017	4	ZJ	9200067995	40	16.55	2602		3/31/2017	3/31/2017
1026	OL	40121200	4/3/2017	2017	4	ZJ	9200067995	50	-6.60	2602		3/31/2017	3/31/2017
1026	OL	40121200	4/3/2017	2017	4	ZJ	9200067995	40	2.01	2602		3/31/2017	3/31/2017
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1026	OL	40121200	4/3/2017	2017	4	ZJ	9200067995	40	1.86	2602		3/31/2017	3/31/2017
1026	OL	40121200	4/3/2017	2017	4	ZJ	9200067995	40	179.21	2602		3/31/2017	3/31/2017
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1026	OL	40121200	4/3/2017	2017	4	ZI	9200067999	40	6.21		2602	3/31/2017	3/31/2017
1026	OL	40121200	4/3/2017	2017	4	ZI	9200067999	50	-7.68		2602	3/31/2017	3/31/2017
1026	OL	40121200	4/3/2017	2017	4	ZI	9200067999	50	-8.54		2602	3/31/2017	3/31/2017
1026	OL	40121200	4/3/2017	2017	4	ZI	9200067999	50	-21.99		2602	3/31/2017	3/31/2017
1026	OL	40121200	4/3/2017	2017	4	ZI	9200067999	50	-7.69		2602	3/31/2017	3/31/2017
1026	OL	40121200	4/3/2017	2017	4	ZI	9200067999	50	-8.74		2602	3/31/2017	3/31/2017
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1026	OL	40121200	4/3/2017	2017	4	ZI	9200067999	50	-2.32		2602	3/31/2017	3/31/2017
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1026	OL	40121200	4/26/2017	2017	4	ZI	9200068857	40	7.43		2602	4/26/2017	4/27/2017
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1026	OL	40121200	4/27/2017	2017	4	ZI	9200068866	50	-5.30		2602	4/26/2017	4/27/2017
1026	OL	40121200	4/14/2017	2017	4	ZI	9200068410	50	-360.48		2602	4/14/2017	4/13/2017
1026	OL	40121200	4/14/2017	2017	4	ZI	9200068410	50	-13,281.31		2602	4/14/2017	4/13/2017
1026	OL	40121200	4/14/2017	2017	4	ZI	9200068410	50	-18,730.84		2602	4/14/2017	4/13/2017
1026	OL	40121200	4/14/2017	2017	4	ZI	9200068410	50	-2.44		2602	4/14/2017	4/13/2017
1026	OL	40121200	4/14/2017	2017	4	ZI	9200068410	50	-44.25		2602	4/14/2017	4/13/2017
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1026	OL	40121200	4/14/2017	2017	4	ZI	9200068470	40	9.69		2602	4/14/2017	4/14/2017
1026	OL	40121200	4/14/2017	2017	4	ZI	9200068474	50	-2.61		2602	4/14/2017	4/14/2017
1026	OL	40121200	4/14/2017	2017	4	ZI	9200068474	50	-1.99		2602	4/14/2017	4/14/2017
1026	OL	40121200	4/17/2017	2017	4	ZI	9200068476	50	-2.71		2602	4/14/2017	4/14/2017
1026	OL	40121200	4/17/2017	2017	4	ZI	9200068476	50	-8.64		2602	4/14/2017	4/14/2017
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1026	OL	40121200	4/17/2017	2017	4	ZI	9200068476	50	-1.89		2602	4/14/2017	4/14/2017
1026	OL	40121200	4/14/2017	2017	4	ZI	9200068552	40	2.00		2602	4/14/2017	4/18/2017
1026	OL	40121200	4/14/2017	2017	4	ZI	9200068607	40	6.73		2602	4/14/2017	4/19/2017
1026	OL	40121200	4/21/2017	2017	4	ZI	9200068663	40	2.49		2602	4/21/2017	4/20/2017
1026	OL	40121200	4/24/2017	2017	4	ZI	9200068713	50	-0.69		2602	4/21/2017	4/21/2017
1026	OL	40121200	4/21/2017	2017	4	ZI	9200068645	50	-1.85		2602	4/21/2017	4/20/2017
1026	OL	40121200	4/21/2017	2017	4	ZI	9200068645	50	-33.96		2602	4/21/2017	4/20/2017
1026	OL	40121200	4/21/2017	2017	4	ZI	9200068645	50	-29.58		2603	4/21/2017	4/20/2017
1026	OL	40121200	4/21/2017	2017	4	ZI	9200068645	50	-133.84		2602	4/21/2017	4/20/2017
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1026	OL	40121200	4/21/2017	2017	4	ZI	9200068645	50	-0.08		2602	4/21/2017	4/20/2017
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1026	OL	40121200	4/21/2017	2017	4	ZI	9200068645	50	-693.04		2602	4/21/2017	4/20/2017
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1026	OL	40121200	4/21/2017	2017	4	ZI	9200068645	50	-450.28		2602	4/21/2017	4/20/2017
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1026	OL	40121200	4/27/2017	2017	4	ZI	9200068847	50	-2.49		2602	4/27/2017	4/27/2017
1026	OL	40121200	4/27/2017	2017	4	ZI	9200068847	40	23.06		2602	4/27/2017	4/27/2017
1026	OL	40121200	4/27/2017	2017	4	ZI	9200068847	40	0.92		2602	4/27/2017	4/27/2017
1026	OL	40121200	4/27/2017	2017	4	ZI	9200068847	50	-3,380.67		2602	4/27/2017	4/27/2017
1026	OL	40121200	4/27/2017	2017	4	ZI	9200068847	40	7.72		2602	4/27/2017	4/27/2017
1026	OL	40121200	4/27/2017	2017	4	ZI	9200068847	50	-3,666.81		2602	4/27/2017	4/27/2017
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1026	OL	40121200	4/27/2017	2017	4	ZI	9200068887	40	3.39		2602	4/27/2017	4/27/2017
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1026	OL	40121200	4/27/2017	2017	4	ZI	9200068887	40	113.30		2602	4/27/2017	4/27/2017
1026	OL	40121200	4/27/2017	2017	4	ZI	9200068887	40	3.16		2602	4/27/2017	4/27/2017
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1026	OL	40121200	4/27/2017	2017	4	ZI	9200068887	40	3.31		2602	4/27/2017	4/27/2017
1026	OL	40121200	4/27/2017	2017	4	ZI	9200068887	40	2.30		2602	4/27/2017	4/27/2017
1026	OL	40121200	4/27/2017	2017	4	ZI	9200068887	40	1.87		2602	4/27/2017	4/27/2017
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1026	OL	40121200	4/27/2017	2017	4	ZI	9200068888	40	516.73		2602	4/27/2017	4/27/2017
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1026	OL	40121200	4/27/2017	2017	4	ZI	9200068889	40	24.06		2602	4/27/2017	4/27/2017
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1026	OL	40121200	4/27/2017	2017	4	ZI	9200068892	40	20.47		2602	4/27/2017	4/27/2017
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1026	OL	40121200	4/28/2017	2017	4	ZI	9200068917	50	-45.49		2602	4/27/2017	4/27/2017
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1026	OL	40121200	4/18/2017	2017	4	ZI	9200068511	50	-6,797.61		2602	4/18/2017	4/17/2017
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1026	OL	40121200	4/28/2017	2017	4	ZI	9200068900	50	-3,530.46		2602	4/28/2017	4/27/2017
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1026	OL	40121200	4/28/2017	2017	4	ZI	9200068900	50	-3.39		2602	4/28/2017	4/27/2017
1026	OL	401											

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40145200	4/3/2017	2017	4	ZI	9200067999	50	-43.06		2602	3/31/2017	3/31/2017
1026	OL	40145200	4/14/2017	2017	4	ZI	9200068410	50	-2.38		2602	4/14/2017	4/13/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40151200	4/7/2017	2017	4	ZI	9200068175	50	-65.62		2602	4/7/2017	4/6/2017
1026	OL	40151200	4/7/2017	2017	4	ZI	9200068175	50	-111.54		2602	4/7/2017	4/6/2017
1026	OL	40151200	4/7/2017	2017	4	ZI	9200068175	50	-3.06		2605	4/7/2017	4/6/2017
1026	OL	40151200	4/11/2017	2017	4	ZI	9200068269	50	-652.70		2602	4/11/2017	4/10/2017
1026	OL	40151200	4/11/2017	2017	4	ZI	9200068269	50	-101.50		2602	4/11/2017	4/10/2017
1026	OL	40151200	4/11/2017	2017	4	ZI	9200068269	50	-19.50		2602	4/11/2017	4/10/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068304	50	-883.21		2602	4/12/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068304	50	-77.42		2602	4/12/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068304	50	-68.42		2602	4/12/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068304	50	-10.48		2602	4/12/2017	4/11/2017
1026	OL	40151200	4/4/2017	2017	4	ZI	9200068034	50	-88.77		2605	4/4/2017	4/3/2017
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1026	OL	40151200	4/4/2017	2017	4	ZI	9200068034	50	-2.94		2605	4/4/2017	4/3/2017
1026	OL	40151200	4/4/2017	2017	4	ZI	9200068034	50	-5.69		2602	4/4/2017	4/3/2017
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1026	OL	40151200	4/20/2017	2017	4	ZI	9200068605	50	-353.71		2602	4/20/2017	4/19/2017
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1026	OL	40151200	4/20/2017	2017	4	ZI	9200068605	50	-164.41		2602	4/20/2017	4/19/2017
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1026	OL	40151200	4/20/2017	2017	4	ZI	9200068662	40	5.06		2602	4/20/2017	4/20/2017
1026	OL	40151200	4/21/2017	2017	4	ZI	9200068668	50	-4.74		2602	4/20/2017	4/20/2017
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1026	OL	40151200	4/11/2017	2017	4	ZI	9200068306	40	147.11		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/11/2017	2017	4	ZI	9200068306	40	15.17		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/11/2017	2017	4	ZI	9200068306	40	0.49		2602	4/11/2017	4/11/2017
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1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-1.74		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-2.05		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-1.97		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-1.81		2602	4/11/2017	4/11/2017
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1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-9.10		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-1.73		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-38.02		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-9.32		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-8.52		2602	4/11/2017	4/11/2017
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1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-1.73		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-1.73		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-2.02		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-8.87		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-20.73		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-6.17		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-8.64		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-36.96		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-26.87		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-2.22		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-18.99		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-16.43		2602	4/11/2017	4/11/2017
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1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-16.43		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-2.09		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-15.17		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-15.17		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-15.17		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-16.44		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-3.36		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-8.41		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-15.17		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-21.06		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-16.91		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/12/2017	2017	4	ZI	9200068324	50	-2.09		2602	4/11/2017	4/11/2017
1026	OL	40151200	4/5/2017	2017	4	ZI	9200068068	50	-169.99		2602	4/5/2017	4/4/2017
1026	OL	40151200	4/5/2017	2017	4	ZI	9200068068	50	-2.62		2605	4/5/2017	4/4/2017
1026	OL	40151200	4/5/2017	2017	4	ZI	9200068068	50	-62.49		2602	4/5/2017	4/4/2017
1026	OL	40151200	4/13/2017	2017	4	ZI	9200068371	50	-1,153.34		2602	4/13/2017	4/12/2017
1026	OL	40151200	4/13/2017	2017	4	ZI	9200068371	50	-25.82		2602	4/13/2017	4/12/2017
1026	OL	40151200	4/3/2017	2017	4	ZI	9200067970	50	-26.86		2605	4/3/2017	3/31/2017
1026	OL	40151200	4/3/2017	2017	4	ZI	9200067970	50	-34.96		2602	4/3/2017	3/31/2017
1026	OL	40151200	4/3/2017	2017	4	ZI	9200067970	50	-99.04		2602	4/3/2017	3/31/2017
1026	OL	40151200	4/3/2017	2017	4	ZI	9200067970	50	-90.06		2602	4/3/2017	3/31/2017
1026	OL	40151200	4/27/2017	2017	4	ZI	9200068866	50	-2.28		2602	4/26/2017	4/27/2017
1026	OL	40151200	4/27/2017	2017	4	ZI	9200068866	50	-1,127.02		2602	4/26/2017	4/27/2017
1026	OL	40151200	4/14/2017	2017	4	ZI	9200068410	50	-50.06		2602	4/14/2017	4/13/2017
1026	OL	40151200	4/14/2017	2017	4	ZI	9200068410	50	-2.28		2602	4/14/2017	4/13/2017
1026	OL	40151200	4/14/2017	2017	4	ZI	9200068410	50	-7,125.28		2602	4/14/2017	4/13/2017
1026	OL	40151200	4/14/2017	2017	4	ZI	9200068410	50	-2.22		2602	4/14/2017	4/13/2017
1026	OL	40151200	4/14/2017	2017	4	ZI	9200068474	50	-829.93		2602	4/14/2017	4/14/2017
1026	OL	40151200	4/15/2017	2017	4	ZI	9200068475	50	-1,135.31		2602	4/14/2017	4/14/2017
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1026	OL	40151200	4/21/2017	2017	4	ZI	9200068709	40	948.88		2602	4/21/2017	4/21/2017
1026	OL	40151200	4/21/2017	2017	4	ZI	9200068711	50	-948.88		2602	4/21/2017	4/21/2017
1026	OL	40151200	4/24/2017	2017	4	ZI	9200068713	50	-380.37		2602	4/21/2017	4/21/2017
1026	OL	40151200	4/21/2017	2017	4	ZI	9200068645	50	-85.78		2602	4/21/2017	4/20/2017
1026	OL	40151200	4/21/2017	2017	4	ZI	9200068645	50	-50.41		2602	4/21/2017	4/20/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40151200	4/27/2017	2017	4	ZI	9200068888	40	91.84		2602	4/27/2017	4/27/2017
1026	OL	40151200	4/27/2017	2017	4	ZI	9200068888	40	28.43		2602	4/27/2017	4/27/2017
1026	OL	40151200	4/18/2017	2017	4	ZI	9200068511	50	-218.73		2602	4/18/2017	4/17/2017
1026	OL	40151200	4/18/2017	2017	4	ZI	9200068511	50	-2,691.86		2602	4/18/2017	4/17/2017
1026	OL	40151200	4/19/2017	2017	4	ZI	9200068559	50	-921.45		2602	4/18/2017	4/18/2017
1026	OL	40151200	4/19/2017	2017	4	ZI	9200068540	50	-879.86		2602	4/19/2017	4/18/2017
1026	OL	40151200	4/19/2017	2017	4	ZI	9200068540	50	-204.53		2602	4/19/2017	4/18/2017
1026	OL	40151200	4/19/2017	2017	4	ZI	9200068540	50	-321.70		2602	4/19/2017	4/18/2017
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1026	OL	40151200	4/10/2017	2017	4	ZI	9200068209	50	-218.46		2602	4/10/2017	4/8/2017
1026	OL	40151200	4/10/2017	2017	4	ZI	9200068209	50	-124.08		2602	4/10/2017	4/8/2017
1026	OL	40151200	4/28/2017	2017	4	ZI	9200068900	50	-40.76		2602	4/28/2017	4/27/2017
1026	OL	40151200	4/28/2017	2017	4	ZI	9200068900	50	-166.77		2602	4/28/2017	4/27/2017
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1026	OL	40151200	4/28/2017	2017	4	ZI	9200068900	50	-97.54		2602	4/28/2017	4/27/2017
1026	OL	40151200	4/28/2017	2017	4	ZI	9200068900	50	-449.86		2602	4/28/2017	4/27/2017
1026	OL	40151200	4/28/2017	2017	4	ZI	9200068900	50	-437.13		2602	4/28/2017	4/27/2017
1026	OL	40151200	4/28/2017	2017	4	ZI	9200068900	50	-27.37		2602	4/28/2017	4/27/2017
1026	OL	40151200	4/25/2017	2017	4	ZI	9200068752	50	-8.72		2602	4/25/2017	4/24/2017
1026	OL	40151200	4/25/2017	2017	4	ZI	9200068752	50	-31.79		2602	4/25/2017	4/24/2017
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1026	OL	40151200	4/24/2017	2017	4	ZI	9200068694	50	-49.29		2602	4/24/2017	4/21/2017
1026	OL	40151200	4/25/2017	2017	4	ZI	9200068810	50	-1,532.90		2602	4/24/2017	4/26/2017
1026	OL	40151200	4/6/2017	2017	4	ZI	9200068129	50	-412.63		2602	4/6/2017	4/5/2017
1026	OL	40151200	4/6/2017	2017	4	ZI	9200068129	50	-30.15		2605	4/6/2017	4/5/2017
1026	OL	40151200	4/6/2017	2017	4	ZI	9200068129	50	-80.89		2605	4/6/2017	4/5/2017
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1026	OL	40151200	4/17/2017	2017	4	ZI	9200068457	50	-1,049.89		2602	4/17/2017	4/14/2017
1026	OL	40151200	4/17/2017	2017	4	ZI	9200068457	50	-6.37		2602	4/17/2017	4/14/2017
1026	OL	40151200	4/18/2017	2017	4	ZI	9200068556	50	-33.12		2602	4/17/2017	4/18/2017
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1026	OL	40161200	4/20/2017	2017	4	ZI	9200068605	50	-41.04		2602	4/20/2017	4/19/2017
1026	OL	40161200	4/27/2017	2017	4	ZI	9200068887	40	41.04		2602	4/27/2017	4/27/2017
1026	OL	40161200	4/28/2017	2017	4	ZI	9200068900	50	-55.15		2602	4/28/2017	4/27/2017
1026	OL	40161200	4/26/2017	2017	4	ZI	9200068812	50	-4,634.03		2602	4/25/2017	4/26/2017
1026	OL	40161200	4/21/2017	2017	4	ZI	9200068712	50	-3,873.99		2602	4/24/2017	4/21/2017
1026	OL	40171100	4/20/2017	2017	4	ZI	9200068605	50	-46.83		2602	4/20/2017	4/19/2017
1026	OL	40171100	4/11/2017	2017	4	ZI	9200068306	50	-1.66		2602	4/11/2017	4/11/2017
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1026	OL	40171100	4/18/2017	2017	4	ZI	9200068511	50	-41.26		2602	4/18/2017	4/17/2017
1026	OL	40171100	4/19/2017	2017	4	ZI	9200068540	50	-19.95		2602	4/19/2017	4/18/2017
1026	OL	40171100	4/28/2017	2017	4	ZI	9200068900	50	-63.51		2602	4/28/2017	4/27/2017
1026	OL	40121200	5/22/2017	2017	5	ZI	9200069840	50	-2.61		2602	5/23/2017	5/23/2017
1026	OL	40121200	5/23/2017	2017	5	ZI	9200069841	50	-703.57		2602	5/23/2017	5/23/2017
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1026	OL	40121200	5/24/2017	2017	5	ZI	9200069842	50	-49.90		2602	5/23/2017	5/23/2017
1026	OL	40121200	5/24/2017	2017	5	ZI	9200069842	50	-82.38		2602	5/23/2017	5/23/2017
1026	OL	40121200	5/24/2017	2017	5	ZI	9200069842	50	-8.48		2602	5/23/2017	5/23/2017
1026	OL	40121200	5/18/2017	2017	5	ZI	9200069617	50	-71.70		2602	5/18/2017	5/17/2017
1026	OL	40121200	5/18/2017	2017	5	ZI	9200069617	50	-4,872.74		2602	5/18/2017	5/17/2017
1026	OL	40121200	5/18/2017	2017	5	ZI	9200069617	50	-7,496.06		2602	5/18/2017	5/17/2017
1026	OL	40121200	5/18/2017	2017	5	ZI	9200069617	50	-2,050.12		2602	5/18/2017	5/17/2017
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1026	OL	40121200	5/23/2017	2017	5	ZI	9200069821	40	53.20		2602	5/23/2017	5/23/2017
1026	OL	40121200	5/3/2017	2017	5	ZI	9200069053	50	-13.93		2602	5/3/2017	5/2/2017
1026	OL	40121200	5/3/2017	2017	5	ZI	9200069053	50	-2.86		2605	5/3/2017	5/2/2017
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1026	OL	40121200	5/31/2017	2017	5	ZI	9200070066	50	-1,317.71		2602	5/31/2017	5/30/2017
1026	OL	40121200	5/31/2017	2017	5	ZI	9200070066	50	-18.97		2602	5/31/2017	5/30/2017
1026	OL	40121200	5/31/2017	2017	5	ZI	9200070066	50	-1,581.67		2602	5/31/2017	5/30/2017
1026	OL	40121200	5/31/2017	2017	5	ZI	9200070066	50	-377.97		2602	5/31/2017	5/30/2017
1026	OL	40121200	5/31/2017	2017	5	ZI	9200070066	40	0.09		2602	5/31/2017	5/30/2017
1026	OL	40121200	5/23/2017	2017	5	ZI	9200069783	50	-128.62		2602	5/23/2017	5/22/2017
1026	OL	40121200	5/23/2017	2017	5	ZI	9200069783	50	-94.36		2602	5/23/2017	5/22/2017
1026	OL	40121200	5/23/2017	2017	5	ZI	9200069783	50	-30.48		2602	5/23/2017	5/22/2017
1026	OL	40121200	5/23/2017	2017	5	ZI	9200069783	50	-15.94		2602	5/23/2017	5/22/2017
1026	OL	40121200	5/23/2017	2017	5	ZI	9200069783	50	-1,084.99		2602	5/23/2017	5/22/2017
1026	OL	40121200	5/23/2017	2017	5	ZI	9200069783	50	-30.41		2603	5/23/2017	5/22/2017
1026	OL	40121200	5/23/2017	2017	5	ZI	9200069783	50	-59.07		2602	5/23/2017	5/22/2017

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	5/8/2017	2017	5	ZI	9200069198	50	-30.88		2602	5/8/2017	5/5/2017
1026	OL	40121200	5/8/2017	2017	5	ZI	9200069198	50	-64.21		2602	5/8/2017	5/5/2017
1026	OL	40121200	5/8/2017	2017	5	ZI	9200069198	50	-82.85		2602	5/8/2017	5/5/2017
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1026	OL	40121200	5/5/2017	2017	5	ZI	9200069159	50	-70.14		2602	5/5/2017	5/4/2017
1026	OL	40121200	5/5/2017	2017	5	ZI	9200069159	50	-684.82		2602	5/5/2017	5/4/2017
1026	OL	40121200	5/5/2017	2017	5	ZI	9200069159	50	-2,004.11		2602	5/5/2017	5/4/2017
1026	OL	40121200	5/5/2017	2017	5	ZI	9200069159	50	-96.75		2602	5/5/2017	5/4/2017
1026	OL	40121200	5/5/2017	2017	5	ZI	9200069159	50	-114.73		2605	5/5/2017	5/4/2017
1026	OL	40121200	5/5/2017	2017	5	ZI	9200069159	50	-22.82		2602	5/5/2017	5/4/2017
1026	OL	40121200	5/30/2017	2017	5	ZI	9200070027	50	-7.76		2602	5/26/2017	5/26/2017
1026	OL	40121200	5/30/2017	2017	5	ZI	9200070027	50	-12.03		2602	5/26/2017	5/26/2017
1026	OL	40121200	5/30/2017	2017	5	ZI	9200070027	50	-1.37		2602	5/26/2017	5/26/2017
1026	OL	40121200	5/30/2017	2017	5	ZI	9200070027	50	-10.86		2602	5/26/2017	5/26/2017
1026	OL	40121200	5/30/2017	2017	5	ZI	9200070027	50	-182.16		2602	5/26/2017	5/26/2017
1026	OL	40121200	5/30/2017	2017	5	ZI	9200070027	50	-55.27		2602	5/26/2017	5/26/2017
1026	OL	40121200	5/30/2017	2017	5	ZI	9200070027	50	-3.50		2602	5/26/2017	5/26/2017
1026	OL	40121200	5/30/2017	2017	5	ZI	9200070027	50	-14.54		2602	5/26/2017	5/26/2017
1026	OL	40121200	5/30/2017	2017	5	ZI	9200070027	40	2.21		2602	5/26/2017	5/26/2017
1026	OL	40121200	5/17/2017	2017	5	ZI	9200069628	40	103.76		2602	5/17/2017	5/17/2017
1026	OL	40121200	5/15/2017	2017	5	ZI	9200069454	50	-848.12		2602	5/15/2017	5/12/2017
1026	OL	40121200	5/15/2017	2017	5	ZI	9200069454	50	-3,071.16		2602	5/15/2017	5/12/2017
1026	OL	40121200	5/15/2017	2017	5	ZI	9200069454	50	-4.54		2602	5/15/2017	5/12/2017
1026	OL	40121200	5/15/2017	2017	5	ZI	9200069454	50	-84.93		2602	5/15/2017	5/12/2017
1026	OL	40121200	5/15/2017	2017	5	ZI	9200069454	50	-10.08		2602	5/15/2017	5/12/2017
1026	OL	40121200	5/15/2017	2017	5	ZI	9200069454	50	-22.38		2602	5/15/2017	5/12/2017
1026	OL	40121200	5/12/2017	2017	5	ZI	9200069463	40	22.38		2602	5/12/2017	5/12/2017
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1026	OL	40121200	5/16/2017	2017	5	ZI	9200069513	40	26.51		2602	5/16/2017	5/15/2017
1026	OL	40121200	5/16/2017	2017	5	ZI	9200069513	50	-315.70		2602	5/16/2017	5/15/2017
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1026	OL	40121200	5/16/2017	2017	5	ZI	9200069513	40	31.79		2602	5/16/2017	5/15/2017
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1026	OL	40121200	5/16/2017	2017	5	ZI	9200069513	50	-2.08		2602	5/16/2017	5/15/2017
1026	OL	40121200	5/16/2017	2017	5	ZI	9200069513	40	30.13		2602	5/16/2017	5/15/2017
1026	OL	40121200	5/16/2017	2017	5	ZI	9200069513	40	24.82		2602	5/16/2017	5/15/2017
1026	OL	40121200	5/16/2017	2017	5	ZI	9200069513	50	-15,752.50		2602	5/16/2017	5/15/2017
1026	OL	40121200	5/16/2017	2017	5	ZI	9200069513	40	0.84		2602	5/16/2017	5/15/2017
1026	OL	40121200	5/16/2017	2017	5	ZI	9200069513	40	2.52		2602	5/16/2017	5/15/2017
1026	OL	40121200	5/16/2017	2017	5	ZI	9200069513	50	-42.86		2602	5/16/2017	5/15/2017
1026	OL	40121200	5/16/2017	2017	5	ZI	9200069513	50	-13.83		2602	5/16/2017	5/15/2017
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1026	OL	40121200	5/16/2017	2017	5	ZI	9200069513	50	-206.05		2602	5/16/2017	5/15/2017
1026	OL	40121200	5/18/2017	2017	5	ZI	9200069629	40	2.52		2602	5/17/2017	5/17/2017
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1026	OL	40121200	5/18/2017	2017	5	ZI	9200069634	50	-9.47		2602	5/17/2017	5/17/2017
1026	OL	40121200	5/31/2017	2017	5	ZI	9200070129	50	-181.89		2602	5/31/2017	5/31/2017
1026	OL	40121200	5/24/2017	2017	5	ZI	9200069812	50	-352.79		2602	5/24/2017	5/23/2017
1026	OL	40121200	5/24/2017	2017	5	ZI	9200069812	50	-2,110.32		2602	5/24/2017	5/23/2017
1026	OL	40121200	5/24/2017	2017	5	ZI	9200069812	50	-1,697.25		2602	5/24/2017	5/23/2017
1026	OL	40121200	5/24/2017	2017	5	ZI	9200069812	50	-5.45		2603	5/24/2017	5/23/2017
1026	OL	40121200	5/24/2017	2017	5	ZI	9200069812	50	-53.20		2602	5/24/2017	5/23/2017
1026	OL	40121200	5/24/2017	2017	5	ZI	9200069812	50	-49.98		2602	5/24/2017	5/23/2017
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1026	OL	40121200	5/22/2017	2017	5	ZI	9200069718	50	-126.36		2602	5/22/2017	5/19/2017
1026	OL	40121200	5/22/2017	2017	5	ZI	9200069718	40	6.90		2602	5/22/2017	5/19/2017
1026	OL	40121200	5/22/2017	2017	5	ZI	9200069718	50	-152.50		2602	5/22/2017	5/19/2017
1026	OL	40121200	5/22/2017	2017	5	ZI	9200069718	50	-112.64		2602	5/22/2017	5/19/2017
1026	OL	40121200	5/22/2017	2017	5	ZI	9200069718	50	-38.81		2602	5/22/2017	5/19/2017
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1026	OL	40121200	5/17/2017	2017	5	ZI	9200069535	40	4.48		2602	5/17/2017	5/16/2017
1026	OL	40121200	5/17/2017	2017	5	ZI	9200069535	50	-7,206.58		2602	5/17/2017	5/16/2017
1026	OL	40121200	5/17/2017	2017	5	ZI	9200069535	50	-1,137.45		2602	5/17/2017	5/16/2017
1026	OL	40121200	5/17/2017	2017	5	ZI	9200069535	50	-6.98		2602	5/17/2017	5/16/2017
1026	OL	40121200	5/17/2017	2017	5	ZI	9200069535	40	53.34		2602	5/17/2017	5/16/2017
1026	OL	40121200	5/17/2017	2017	5	ZI	9200069535	50	-4,035.45		2602	5/17/2017	5/16/2017
1026	OL	40121200	5/9/2017	2017	5	ZI	9200069260	50	-2.86		2605	5/9/2017	5/8/2017
1026	OL	40121200	5/9/2017	2017	5	ZI	9200069260	50	-46.45		2602	5/9/2017	5/8/2017
1026	OL	40121200	5/9/2017	2017	5	ZI	9200069260	50	-3.26		2605	5/9/2017	5/8/2017
1026	OL	40121200	5/9/2017	2017	5	ZI	9200069260	40	345.33		2602	5/9/2017	5/8/2017
1026	OL	40121200	5/9/2017	2017	5	ZI	9200069260	50	-1,871.07		2602	5/9/2017	5/8/2017
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1026	OL	40121200	5/9/2017	2017	5	ZI	9200069260	50	-2,593.23		2602	5/9/2017	5/8/2017
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1026	OL	40121200	5/9/2017	2017	5	ZI	9200069260	50	-6,075.26		2602	5/9/2017	5/8/2017
1026	OL	40121200	5/9/2017	2017	5	ZI	9200069260	50	-950.79		2602	5/9/2017	5/8/2017
1026	OL	40121200	5/9/2017	2017	5	ZI	9200069260	40	14.07		2602	5/9/2017	5/8/2017
1026	OL	40121200	5/10/2017	2017	5	ZI	9200069359	40	1.39		2602	5/10/2017	5/10/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	5/12/2017	2017	5	ZI	9200069399	50	-4.57		2602	5/12/2017	5/11/2017
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1026	OL	40121200	5/12/2017	2017	5	ZI	9200069399	50	-4.12		2602	5/12/2017	5/11/2017
1026	OL	40121200	5/12/2017	2017	5	ZI	9200069399	50	-0.96		2605	5/12/2017	5/11/2017
1026	OL	40121200	5/12/2017	2017	5	ZI	9200069399	50	-5,980.27		2602	5/12/2017	5/11/2017
1026	OL	40121200	5/19/2017	2017	5	ZI	9200069676	50	-1,398.37		2602	5/19/2017	5/18/2017
1026	OL	40121200	5/19/2017	2017	5	ZI	9200069676	50	-633.97		2602	5/19/2017	5/18/2017
1026	OL	40121200	5/19/2017	2017	5	ZI	9200069676	50	-817.15		2602	5/19/2017	5/18/2017
1026	OL	40121200	5/19/2017	2017	5	ZI	9200069676	50	-2.49		2602	5/19/2017	5/18/2017
1026	OL	40121200	5/19/2017	2017	5	ZI	9200069676	50	-2,496.12		2602	5/19/2017	5/18/2017
1026	OL	40121200	5/19/2017	2017	5	ZI	9200069676	50	-36.35		2602	5/19/2017	5/18/2017
1026	OL	40121200	5/19/2017	2017	5	ZI	9200069676	50	-24.12		2602	5/19/2017	5/18/2017
1026	OL	40121200	5/10/2017	2017	5	ZI	9200069284	50	-2,230.02		2602	5/10/2017	5/9/2017
1026	OL	40121200	5/10/2017	2017	5	ZI	9200069284	50	-637.79		2602	5/10/2017	5/9/2017
1026	OL	40121200	5/10/2017	2017	5	ZI	9200069284	50	-14.60		2602	5/10/2017	5/9/2017
1026	OL	40121200	5/10/2017	2017	5	ZI	9200069284	50	-5,518.92		2602	5/10/2017	5/9/2017
1026	OL	40121200	5/10/2017	2017	5	ZI	9200069284	50	-466.21		2602	5/10/2017	5/9/2017
1026	OL	40121200	5/10/2017	2017	5	ZI	9200069284	50	-382.75		2602	5/10/2017	5/9/2017
1026	OL	40121200	5/10/2017	2017	5	ZI	9200069284	50	-264.99		2602	5/10/2017	5/9/2017
1026	OL	40121200	5/10/2017	2017	5	ZI	9200069284	50	-2.86		2605	5/10/2017	5/9/2017
1026	OL	40121200	5/10/2017	2017	5	ZI	9200069284	40	0.07		2602	5/10/2017	5/9/2017
1026	OL	40121200	5/30/2017	2017	5	ZI	9200070003	50	-976.17		2602	5/30/2017	5/26/2017
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1026	OL	40121200	5/30/2017	2017	5	ZI	9200070003	50	-52.10		2602	5/30/2017	5/26/2017
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1026	OL	40121200	5/2/2017	2017	5	ZI	9200069076	50	-1,592.32		2602	5/2/2017	5/2/2017
1026	OL	40121200	5/2/2017	2017	5	ZI	9200069076	50	-784.90		2602	5/2/2017	5/2/2017
1026	OL	40121200	5/3/2017	2017	5	ZI	9200069077	50	-2.52		2602	5/2/2017	5/2/2017
1026	OL	40121200	5/3/2017	2017	5	ZI	9200069077	50	-1.15		2602	5/2/2017	5/2/2017
1026	OL	40121200	5/3/2017	2017	5	ZI	9200069077	50	-95.56		2602	5/2/2017	5/2/2017
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1026	OL	40121200	5/3/2017	2017	5	ZI	9200069077	50	-3.14		2602	5/2/2017	5/2/2017
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1026	OL	40121200	5/8/2017	2017	5	ZI	9200069218	50	-52.09		2602	5/5/2017	5/5/2017
1026	OL	40121200	5/8/2017	2017	5	ZI	9200069218	50	-10.31		2602	5/5/2017	5/5/2017
1026	OL	40121200	5/8/2017	2017	5	ZI	9200069218	50	-10.97		2602	5/5/2017	5/5/2017
1026	OL	40121200	5/8/2017	2017	5	ZI	9200069218	50	-33.37		2602	5/5/2017	5/5/2017
1026	OL	40121200	5/8/2017	2017	5	ZI	9200069218	50	-12.60		2602	5/5/2017	5/5/2017
1026	OL	40121200	5/8/2017	2017	5	ZI	9200069218	50	-14.37		2602	5/5/2017	5/5/2017
1026	OL	40121200	5/8/2017	2017	5	ZI	9200069218	50	-4.69		2602	5/5/2017	5/5/2017
1026	OL	40121200	5/8/2017	2017	5	ZI	9200069218	50	-9.07		2602	5/5/2017	5/5/2017
1026	OL	40121200	5/8/2017	2017	5	ZI	9200069218	50	-2.85		2602	5/5/2017	5/5/2017
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1026	OL	40121200	5/11/2017	2017	5	ZI	9200069420	40	5.03		2602	5/11/2017	5/11/2017
1026	OL	40121200	5/11/2017	2017	5	ZI	9200069420	40	1.95		2602	5/11/2017	5/11/2017
1026	OL	40121200	5/11/2017	2017	5	ZI	9200069420	40	2.06		2602	5/11/2017	5/11/2017
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1026	OL	40121200	5/5/2017	2017	5	ZI	9200069214	40	11.09		2602	5/5/2017	5/5/2017
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1026	OL	40121200	5/5/2017	2017	5	ZI	9200069214	40	82.85		2602	5/5/2017	5/5/2017
1026	OL	40121200	5/5/2017	2017	5	ZI	9200069214	40	11.85		2602	5/5/2017	5/5/2017
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1026	OL	40121200	5/5/2017	2017	5	ZI	9200069216	50	-12.37		2602	5/5/2017	5/5/2017
1026	OL	40121200	5/24/2017	2017	5	ZI	9200069904	40	21.40		2602	5/24/2017	5/25/2017
1026	OL	40121200	5/24/2017	2017	5	ZI	9200069912	40	122.62		2602	5/24/2017	5/25/2017
1026	OL	40121200	5/24/2017	2017	5	ZI	9200069912	40	706.18		2602	5/24/2017	5/25/2017
1026	OL	40121200	5/24/2017	2017	5	ZI	9200069914	50	-1.56		2602	5/24/2017	5/25/2017
1026	OL	40121200	5/24/2017	2017	5	ZI	9200069899	40	1.85		2602	5/24/2017	5/25/2017
1026	OL	40121200	5/24/2017	2017	5	ZI	9200069899	40	1.96		2602	5/24/2017	5/25/2017
1026	OL	40121200	5/24/2017	2017	5	ZI	9200069899	40	2.01		2602	5/24/2017	5/25/2017
1026	OL	40121200	5/24/2017	2017	5	ZI	9200069899	40	1.85		2602	5/24/2017	5/25/2017
1026	OL	40121200	5/24/2017	2017	5	ZI	9200069899	40	2.49		2602	5/24/2017	5/25/2017
1026	OL	40121200	5/10/2017	2017	5	ZI	9200069371	40	0.48		2602	5/10/2017	5/10/2017
1026	OL	40121200	5/10/2017	2017	5	ZI	9200069371	40	2.49		2602	5/10/2017	5/10/2017
1026	OL	40121200	5/10/2017	2017	5	ZI	9200069376	50	-1.39		2602	5/10/2017	5/10/2017
1026	OL	40121200	5/10/2017	2017	5	ZI	9200069376	50	-0.66		2602	5/10/2017	5/10/2017
1026	OL	40121200	5/10/2017	2017	5	ZI	9200069376	50	-0.93		2602	5/10/2017	5/10/2017
1026	OL	40121200	5/11/2017	2017	5	ZI	9200069377	50	-2.49		2602	5/10/2017	5/10/2017
1026	OL	40121200	5/11/2017	2017	5	ZI	9200069377	50	-307.25		2602	5/10/2017	5/10/2017
1026	OL	40121200	5/11/2017	2017	5	ZI	9200069377	50	-2.52		2602	5/10/2017	5/10/2017
1026	OL	40121200	5/11/2017	2017	5	ZI	9200069378	50	-14.45		2602	5/10/2017	5/10/2017
1026	OL	40121200	5/10/2017	2017	5	ZI	9200069895	40	0.66		2602	5/10/2017	5/25/2017
1026	OL	40121200	5/11/2017	2017	5	ZI	9200069337	50	-38.87		2602	5/11/2017	5/10/2017
1026	OL	40121200	5/11/2017	2017	5	ZI	9200069337	40	7.29		2602	5/11/2017	5/10/2017
1026	OL	40121200	5/11/2017	2017	5	ZI	9200069337	50	-762.87		2602	5/11/2017	5/10/2017
1026	OL	40121200	5/11/2017	2017	5	ZI	9200069337	50	-522.81		2602	5/11/2017	5/10/2017
1026	OL	40121200	5/11/2017	2017	5	ZI	9200069337	40	0.38		2602	5/11/2017	5/10/2017
1026	OL	40121200	5/11/2017	2017	5	ZI	9200069337	50	-10,536.02		2602	5/11/2017	5/10/2017
1026	OL	40121200	5/11/2017	2017	5	ZI	9200069337	50	-121.96		2602		

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	5/11/2017	2017	5	ZI	9200069411	40	3.50		2602	5/11/2017	5/11/2017
1026	OL	40121200	5/11/2017	2017	5	ZI	9200069427	50	-2.06		2602	5/11/2017	5/11/2017
1026	OL	40121200	5/11/2017	2017	5	ZI	9200069427	50	-2.61		2602	5/11/2017	5/11/2017
1026	OL	40121200	5/12/2017	2017	5	ZI	9200069428	50	-56.10		2602	5/11/2017	5/11/2017
1026	OL	40121200	5/12/2017	2017	5	ZI	9200069428	50	-4.84		2602	5/11/2017	5/11/2017
1026	OL	40121200	5/12/2017	2017	5	ZI	9200069428	50	-2.58		2602	5/11/2017	5/11/2017
1026	OL	40121200	5/12/2017	2017	5	ZI	9200069428	50	-5.04		2602	5/11/2017	5/11/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069865	50	-31.12		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069865	50	-53.78		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069865	50	-595.90		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069865	50	-3,863.63		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069865	50	-78.84		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069865	50	-350.91		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069867	50	-31.12		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069867	50	-8.48		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069867	50	-171.45		2602	5/25/2017	5/25/2017
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1026	OL	40121200	5/25/2017	2017	5	ZI	9200069867	50	-49.90		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069867	50	-595.90		2602	5/25/2017	5/25/2017
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1026	OL	40121200	5/25/2017	2017	5	ZI	9200069867	50	-2.04		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069867	50	-53.78		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069868	50	-82.38		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069868	50	-1,382.00		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069868	50	-2.49		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069869	40	19.84		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069869	40	324.91		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069869	40	302.87		2602	5/25/2017	5/25/2017
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1026	OL	40121200	5/25/2017	2017	5	ZI	9200069869	40	1.23		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069869	40	10.56		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069869	40	105.43		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069870	50	-1,382.00		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069870	50	-2.04		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069870	50	-31.12		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069870	50	-49.90		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069870	50	-19.84		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069870	50	-53.78		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069870	50	-3,987.81		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069870	50	-595.90		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069870	50	-8.48		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069870	50	-82.38		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069870	50	-78.84		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069870	50	-2.49		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069870	50	-171.45		2602	5/25/2017	5/25/2017
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1026	OL	40121200	5/25/2017	2017	5	ZI	9200069872	40	170.22		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069872	40	837.62		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069873	40	2.04		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069873	40	9.50		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069873	40	53.78		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069873	40	82.38		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069873	40	2,847.32		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069873	40	442.58		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069873	40	20.56		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069873	40	8.48		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069873	40	2.49		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069873	40	78.84		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069873	40	1,057.09		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069876	40	1,016.31		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069876	40	10.56		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069876	40	153.32		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069885	40	78.84		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069885	40	53.78		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069885	40	2,847.32		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069885	40	442.58		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069885	40	20.56		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069885	40	350.91		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/25/2017	2017	5	ZI	9200069967	40	20.35		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/26/2017	2017	5	ZI	9200069968	50	-1.99		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/26/2017	2017	5	ZI	9200069968	50	-0.08		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/26/2017	2017	5	ZI	9200069968	50	-58.18		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/26/2017	2017	5	ZI	9200069968	50	-1.97		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/26/2017	2017	5	ZI	9200069968	50	-163.12		2602	5/25/2017	5/25/2017
1026	OL	40121200	5/9/2017	2017	5	ZI	9200069315	50	-6.40		2602	5/9/2017	5/9/2017
1026	OL	40121200	5/10/2017	2017	5	ZI	9200069316	50	-2.49		2602	5/9/2017	5/9/2017
1026	OL	40121200	5/10/2017	2017	5	ZI	9200069316	50	-34.36		2602	5/9/2017	5/9/2017
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1026	OL	40121200	5/10/2017	2017	5	ZI	9200069316	50	-23.32		2602	5/9/2017	5/9/2017
1026	OL	40121200	5/10/2017	2017	5	ZI	9200069316	50	-4.35		2602	5/9/2017	5/9/2017
1026	OL	40121200	5/10/2017	2017	5	ZI	9200069316	50	-1.23		2602	5/9/2017	5/9/2017
1026	OL	40121200	5/10/2017	2017	5	ZI	9200069316	50	-68.14		2602	5/9/2017	5/9/2017
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1026	OL	40121200	5/1/2017	2017	5	ZI	9200068979	50	-0.71		2602	4/28/2017	4/28/2017
1026	OL	40											

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	5/2/2017	2017	5	ZI	9200069072	40	2.84		2602	5/2/2017	5/2/2017
1026	OL	40121200	5/2/2017	2017	5	ZI	9200069072	40	9.79		2602	5/2/2017	5/2/2017
1026	OL	40121200	5/3/2017	2017	5	ZI	9200069296	40	13.04		2602	5/2/2017	5/9/2017
1026	OL	40121200	5/2/2017	2017	5	ZI	9200069350	40	2.51		2602	5/2/2017	5/10/2017
1026	OL	40121200	5/1/2017	2017	5	ZI	9200068975	50	-1.63		2602	5/1/2017	4/28/2017
1026	OL	40121200	5/1/2017	2017	5	ZI	9200068975	50	-20.94		2602	5/1/2017	4/28/2017
1026	OL	40121200	5/1/2017	2017	5	ZI	9200068975	50	-27.31		2602	5/1/2017	4/28/2017
1026	OL	40121200	5/1/2017	2017	5	ZI	9200068975	50	-444.84		2602	5/1/2017	4/28/2017
1026	OL	40121200	5/1/2017	2017	5	ZI	9200068975	50	-372.06		2602	5/1/2017	4/28/2017
1026	OL	40121200	5/1/2017	2017	5	ZI	9200068975	50	-20.75		2602	5/1/2017	4/28/2017
1026	OL	40121200	5/1/2017	2017	5	ZI	9200068975	50	-27.52		2602	5/1/2017	4/28/2017
1026	OL	40121200	5/1/2017	2017	5	ZI	9200068975	50	-0.27		2602	5/1/2017	4/28/2017
1026	OL	40121200	5/1/2017	2017	5	ZI	9200068975	50	-1,181.14		2602	5/1/2017	4/28/2017
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1026	OL	40121200	5/1/2017	2017	5	ZI	9200068975	50	-726.78		2602	5/1/2017	4/28/2017
1026	OL	40121200	5/1/2017	2017	5	ZI	9200068975	50	-0.10		2602	5/1/2017	4/28/2017
1026	OL	40121200	5/1/2017	2017	5	ZI	9200068975	50	-7.05		2602	5/1/2017	4/28/2017
1026	OL	40121200	5/1/2017	2017	5	ZI	9200068975	50	-6,649.86		2602	5/1/2017	4/28/2017
1026	OL	40121200	5/1/2017	2017	5	ZI	9200068975	50	-3.66		2605	5/1/2017	4/28/2017
1026	OL	40121200	5/1/2017	2017	5	ZI	9200068976	50	-1.92		2602	5/1/2017	4/28/2017
1026	OL	40121200	5/1/2017	2017	5	ZI	9200068976	50	-12.38		2602	5/1/2017	4/28/2017
1026	OL	40121200	5/1/2017	2017	5	ZI	9200068976	50	-2.15		2602	5/1/2017	4/28/2017
1026	OL	40121200	5/1/2017	2017	5	ZI	9200068976	50	-1.87		2602	5/1/2017	4/28/2017
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1026	OL	40121200	5/1/2017	2017	5	ZI	9200068976	50	-109.08		2602	5/1/2017	4/28/2017
1026	OL	40121200	5/1/2017	2017	5	ZI	9200069074	50	-75.89		2602	5/1/2017	5/2/2017
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1026	OL	40121200	5/26/2017	2017	5	ZI	9200069947	50	-3,803.69		2602	5/26/2017	5/25/2017
1026	OL	40121200	5/26/2017	2017	5	ZI	9200069947	50	-32.93		2602	5/26/2017	5/25/2017
1026	OL	40121200	5/26/2017	2017	5	ZI	9200069947	50	-2,645.07		2602	5/26/2017	5/25/2017
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1026	OL	40121200	5/26/2017	2017	5	ZI	9200069947	50	-386.49		2602	5/26/2017	5/25/2017
1026	OL	40121200	5/19/2017	2017	5	ZI	9200069693	50	-3.16		2602	5/18/2017	5/18/2017
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1026	OL	40121200	5/19/2017	2017	5	ZI	9200069693	50	-3.34		2602	5/18/2017	5/18/2017
1026	OL	40121200	5/19/2017	2017	5	ZI	9200069693	50	-4.44		2602	5/18/2017	5/18/2017
1026	OL	40121200	5/19/2017	2017	5	ZI	9200069693	50	-3.47		2602	5/18/2017	5/18/2017
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1026	OL	40121200	5/19/2017	2017	5	ZI	9200069693	50	-4.37		2602	5/18/2017	5/18/2017
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1026	OL	40121200	5/17/2017	2017	5	ZI	9200069569	50	-49.54		2602	5/16/2017	5/16/2017
1026	OL	40121200	5/17/2017	2017	5	ZI	9200069569	50	-17.45		2602	5/16/2017	5/16/2017
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1026	OL	40121200	5/17/2017	2017	5	ZI	9200069569	50	-200.70		2602	5/16/2017	5/16/2017
1026	OL	40121200	5/17/2017	2017	5	ZI	9200069569	50	-1.15		2602	5/16/2017	5/16/2017
1026	OL	40121200	5/17/2017	2017	5	ZI	9200069569	50	-3.64		2602	5/16/2017	5/16/2017
1026	OL	40121200	5/16/2017	2017	5	ZI	9200069666	40	2.58		2602	5/16/2017	5/18/2017
1026	OL	40121200	5/4/2017	2017	5	ZI	9200069116	50	-39.56		2602	5/4/2017	5/3/2017
1026	OL	40121200	5/4/2017	2017	5	ZI	9200069116	50	-165.74		2602	5/4/2017	5/3/2017
1026	OL	40121200	5/4/2017	2017	5	ZI	9200069116	50	-4,715.25		2602	5/4/2017	5/3/2017
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1026	OL	40121200	5/4/2017	2017	5	ZI	9200069116	50	-2.86		2605	5/4/2017	5/3/2017
1026	OL	40121200	5/4/2017	2017	5	ZI	9200069116	50	-213.01		2602	5/4/2017	5/3/2017
1026	OL	40121200	5/4/2017	2017	5	ZI	9200069116	50	-6.22		2602	5/4/2017	5/3/2017
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1026	OL	40121200	5/4/2017	2017	5	ZI	9200069170	50	-0.93		2602	5/4/2017	5/4/2017
1026	OL	40121200	5/5/2017	2017	5	ZI	9200069171	50	-27.40		2602	5/4/2017	5/4/2017
1026	OL	40121200	5/8/2017	2017	5	ZI	9200069172	50	-15.08		2602	5/4/2017	5/4/2017
1026	OL	40121200	5/8/2017	2017	5	ZI	9200069172	50	-22.24		2602	5/4/2017	5/4/2017
1026	OL	40121200	5/8/2017	2017	5	ZI	9200069172	50	-19.06		2602	5/4/2017	5/4/2017
1026	OL	40121200	5/8/2017	2017	5	ZI	9200069172	50	-22.83		2602	5/4/2017	5/4/2017
1026	OL	40121200	5/3/2017	2017	5	ZI	9200069121	40	84.67		2602	5/3/2017	5/3/2017
1026	OL	40121200	5/3/2017	2017	5	ZI	9200069121	40	6.30		2602	5/3/2017	5/3/2017
1026	OL	40121200	5/3/2017	2017	5	ZI	9200069121	40	3.14		2602	5/3/2017	5/3/2017
1026	OL	40121200	5/3/2017	2017	5	ZI	9200069124	50	-3.66		2602	5/3/2017	5/3/2017
1026	OL	40121200	5/3/2017	2017	5	ZI	9200069124	50	-753.43		2602	5/3/2017	5/3/2017
1026	OL	40121200	5/3/2017	2017	5	ZI	9200069124	50	-4.49		2602	5/3/2017	5/3/2017
1026	OL	40121200	5/3/2017	2017	5	ZI	9200069887	40	78.84		2602	5/3/2017	5/25/2017
1026	OL	40121200	5/15/2017	2017	5	ZI	9200069477	50	-518.07		2602	5/12/2017	5/12/2017
1026	OL	40121200	5/15/2017	2017	5	ZI	9200069477	50	-2.19		2602	5/12/2017	5/12/2017
1026	OL	40121200	5/15/2017	2017	5	ZI	9200069477	50	-5.28		2602	5/12/2017	5/12/2017
1026	OL	40121200	5/15/2017	2017	5	ZI	9200069477	50	-81.34		2602	5/12/2017	5/12/2017
1026	OL	40121200	5/15/2017	2017	5	ZI	9200069477	50	-1.97		2602	5/12/2017	5/12/2017
1026	OL	401											

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	5/31/2017	2017	5	ZI	9200070084	50	-43.24		2602	5/30/2017	5/31/2017
1026	OL	40121200	5/31/2017	2017	5	ZI	9200070084	50	-1.80		2602	5/30/2017	5/31/2017
1026	OL	40121200	5/31/2017	2017	5	ZI	9200070084	50	-6.98		2602	5/30/2017	5/31/2017
1026	OL	40121200	5/31/2017	2017	5	ZI	9200070084	50	-1.47		2602	5/30/2017	5/31/2017
1026	OL	40121200	5/31/2017	2017	5	ZI	9200070084	50	-2.49		2602	5/30/2017	5/31/2017
1026	OL	40121200	5/31/2017	2017	5	ZI	9200070084	50	-26.53		2602	5/30/2017	5/31/2017
1026	OL	40121200	5/30/2017	2017	5	ZI	9200070092	40	2.90		2602	5/30/2017	5/31/2017
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1026	OL	40121200	5/30/2017	2017	5	ZI	9200070092	40	34.41		2602	5/30/2017	5/31/2017
1026	OL	40121200	5/24/2017	2017	5	ZI	9200069903	40	324.91		2602	5/23/2017	5/25/2017
1026	OL	40121200	5/24/2017	2017	5	ZI	9200069903	40	39.51		2602	5/23/2017	5/25/2017
1026	OL	40121200	5/24/2017	2017	5	ZI	9200069903	40	171.45		2602	5/23/2017	5/25/2017
1026	OL	40121200	5/24/2017	2017	5	ZI	9200069911	40	2.04		2602	5/23/2017	5/25/2017
1026	OL	40121200	5/24/2017	2017	5	ZI	9200069911	40	10.39		2602	5/23/2017	5/25/2017
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1026	OL	40121200	5/24/2017	2017	5	ZI	9200069911	40	82.38		2602	5/23/2017	5/25/2017
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1026	OL	40121200	5/22/2017	2017	5	ZI	9200069744	40	9.24		2602	5/19/2017	5/19/2017
1026	OL	40121200	5/19/2017	2017	5	ZI	9200069747	50	-85.78		2602	5/19/2017	5/19/2017
1026	OL	40121200	5/22/2017	2017	5	ZI	9200069749	50	-9.24		2602	5/19/2017	5/19/2017
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1026	OL	40121200	5/17/2017	2017	5	ZI	9200069667	40	2.49		2602	5/17/2017	5/18/2017
1026	OL	40131200	5/24/2017	2017	5	ZI	9200069842	50	-1,749.73		2602	5/23/2017	5/23/2017
1026	OL	40131200	5/18/2017	2017	5	ZI	9200069617	50	-1,535.39		2602	5/18/2017	5/17/2017
1026	OL	40131200	5/18/2017	2017	5	ZI	9200069617	50	-743.28		2602	5/18/2017	5/17/2017
1026	OL	40131200	5/3/2017	2017	5	ZI	9200069053	50	-361.39		2602	5/3/2017	5/2/2017
1026	OL	40131200	5/3/2017	2017	5	ZI	9200069053	50	-2,351.59		2602	5/3/2017	5/2/2017
1026	OL	40131200	5/31/2017	2017	5	ZI	9200070066	50	-100.56		2602	5/31/2017	5/30/2017
1026	OL	40131200	5/31/2017	2017	5	ZI	9200070066	50	-55.41		2602	5/31/2017	5/30/2017
1026	OL	40131200	5/23/2017	2017	5	ZI	9200069783	50	-46.38		2602	5/23/2017	5/22/2017
1026	OL	40131200	5/23/2017	2017	5	ZI	9200069783	50	-105.99		2602	5/23/2017	5/22/2017
1026	OL	40131200	5/23/2017	2017	5	ZI	9200069783	50	-10.36		2602	5/23/2017	5/22/2017
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1026	OL	40131200	5/12/2017	2017	5	ZI	9200069472	40	3.86		2602	5/12/2017	5/12/2017
1026	OL	40131200	5/12/2017	2017	5	ZI	9200069472	40	3.86		2602	5/12/2017	5/12/2017
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1026	OL	40131200	5/12/2017	2017	5	ZI	9200069472	40	5.18		2602	5/12/2017	5/12/2017
1026	OL	40131200	5/12/2017	2017	5	ZI	9200069472	40	4.13		2602	5/12/2017	5/12/2017
1026	OL	40131200	5/1/2017	2017	5	ZI	9200070113	40	5.18		2602	5/1/2017	5/31/2017
1026	OL	40131200	5/31/2017	2017	5	ZI	9200070114	40	4.64		2602	5/31/2017	5/31/2017
1026	OL	40131200	5/31/2017	2017	5	ZI	9200070114	40	3.86		2602	5/31/2017	5/31/2017
1026	OL	40131200	5/31/2017	2017	5	ZI	9200070114	40	3.23		2602	5/31/2017	5/31/2017
1026	OL	40131200	5/31/2017	2017	5	ZI	9200070114	40	3.87		2602	5/31/2017	5/31/2017
1026	OL	40131200	5/31/2017	2017	5	ZI	9200070114	40	4.18		2602	5/31/2017	5/31/2017
1026	OL	40131200	5/31/2017	2017	5	ZI	9200070114	40	4.18		2602	5/31/2017	5/31/2017
1026	OL	40131200	5/16/2017	2017	5	ZI	9200069513	50	-523.64		2602	5/16/2017	5/15/2017
1026	OL	40131200	5/24/2017	2017	5	ZI	9200069812	50	-142.48		2602	5/24/2017	5/23/2017
1026	OL	40131200	5/22/2017	2017	5	ZI	9200069718	50	-1,593.86		2602	5/22/2017	5/19/2017
1026	OL	40131200	5/9/2017	2017	5	ZI	9200069260	50	-121.74		2602	5/9/2017	5/8/2017
1026	OL	40131200	5/12/2017	2017	5	ZI	9200069399	50	-208.97		2602	5/12/2017	5/11/2017
1026	OL	40131200	5/19/2017	2017	5	ZI	9200069676	50	-1,442.00		2602	5/19/2017	5/18/2017
1026	OL	40131200	5/19/2017	2017	5	ZI	9200069676	50	-46.41		2602	5/19/2017	5/18/2017
1026	OL	40131200	5/10/2017	2017	5	ZI	9200069284	50	-144.99		2602	5/10/2017	5/9/2017
1026	OL	40131200	5/10/2017	2017	5	ZI	9200069284	50	-5.18		2602	5/10/2017	5/9/2017
1026	OL	40131200	5/30/2017	2017	5	ZI	9200070003	50	-46.45		2602	5/30/2017	5/26/2017
1026	OL	40131200	5/30/2017	2017	5	ZI	9200070003	50	-5.18		2602	5/30/2017	5/26/2017
1026	OL	40131200	5/30/2017	2017	5	ZI	9200070003	50	-69.62		2602	5/30/2017	5/26/2017
1026	OL	40131200	5/3/2017	2017	5	ZI	9200069077	50	-49.23		2602	5/2/2017	5/2/2017
1026	OL	40131200	5/3/2017	2017	5	ZI	9200069077	50	-3,356.55		2602	5/2/2017	5/2/2017
1026	OL	40131200	5/3/2017	2017	5	ZI	9200069077	50	-431.26		2602	5/2/2017	5/2/2017
1026	OL	40131200	5/8/2017	2017	5	ZI	9200069217	50	-385.85		2602	5/1/2017	5/5/2017
1026	OL	40131200	5/8/2017	2017	5	ZI	9200069218	50	-5,130.63		2602	5/5/2017	5/5/2017
1026	OL	40131200	5/26/2017	2017	5	ZI	9200069963	40	4,234.29		2602	5/25/2017	5/25/2017
1026	OL	40131200	5/25/2017	2017	5	ZI	9200069915	50	-4,234.29		2602	5/24/2017	5/25/2017
1026	OL	40131200	5/25/2017	2017	5	ZI	9200069884	40	4,234.29		2602	5/24/2017	5/25/2017
1026	OL	40131200	5/10/2017	2017	5	ZI	9200069371	40	1,091.70		2602	5/10/2017	5/10/2017
1026	OL	40131200	5/10/2017	2017	5	ZI	9200069371	40	1,256.55		2602	5/10/2017	5/10/2017
1026	OL	40131200	5/10/2017	2017	5	ZI	9200069371	40	1,940.45		2602	5/10/2017	5/10/2017
1026	OL	40131200	5/10/2017	2017	5	ZI	9200069371	40	864.70		2602	5/10/2017	5/10/2017
1026	OL	40131200	5/10/2017	2017	5	ZI	9200069371	40	948.95		2602	5/10/2017	5/10/2017
1026	OL	40131200	5/10/2017	2017	5	ZI	9200069371	40	1,196.10		2602	5/10/2017	5/10/2017
1026	OL	40131200	5/10/2017	2017	5	ZI	9200069371	40	930.53		2602	5/10/2017	5/10/2017
1026	OL	40131200	5/11/2017	2017	5	ZI	9200069337	50	-962.89		2602	5/11/2017	5/10/2017
1026	OL	40131200	5/25/2017	2017	5	ZI	9200069865	50	-107.17		2602	5/25/2017	5/25/2017
1026	OL	40131200	5/25/2017	2017	5	ZI	9200069867	50	-107.17		2602	5/25/2017	5/25/2017
1026	OL	40131200	5/25/2017	2017	5	ZI	9200069870	50	-107.17		2602	5/25/2017	5/25/2017
1026	OL	40131200	5/25/2017	2017	5	ZI	9200069873	40	107.17		2602	5/25/2017	5/25/2017
1026	OL	40131200	5/25/2017	2017	5	ZI	9200069885	40	107.17		2602	5/25/2017	5/25/2017
1026	OL	40131200	5/26/2017	2017	5	ZI	9200069968	50	-1,749.73		2602	5/25/2017	5/25/2017
1026	OL	40131200	5/26/2017	2017	5	ZI	9200069968	50	-8,637.02		2602	5/25/2017	5/25/2017
1026	OL	40131200	5/9/2017	2017	5	ZI	9200069315	50	-2,790.60		2602	5/9/2017	5/9/2017
1026	OL	40131200	5/9/2017	2017	5	ZI	9200069315	50	-1,635.47		2602	5/9/2017	5/9/2017
1026	OL	40131200	5/9/2017	2017	5	ZI	9200069370	40	2,790.60		2602	5/9/2017	5/10/2017
1026	OL	40131200	5/9/2017	2017	5	ZI	9200069370	40	1,635.47		2602	5/9/2017	5/10/2017

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40131200	5/26/2017	2017	5	ZI	9200069947	50	-283.23		2602	5/26/2017	5/25/2017
1026	OL	40131200	5/26/2017	2017	5	ZI	9200069947	50	-27.58		2602	5/26/2017	5/25/2017
1026	OL	40131200	5/18/2017	2017	5	ZI	9200069692	50	-1,370.53		2602	5/18/2017	5/18/2017
1026	OL	40131200	5/22/2017	2017	5	ZI	9200069748	50	-389.25		2602	5/18/2017	5/19/2017
1026	OL	40131200	5/17/2017	2017	5	ZI	9200069569	50	-4,550.38		2602	5/16/2017	5/16/2017
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1026	OL	40131200	5/4/2017	2017	5	ZI	9200069116	50	-962.16		2602	5/4/2017	5/3/2017
1026	OL	40131200	5/4/2017	2017	5	ZI	9200069116	50	-3.26		2605	5/4/2017	5/3/2017
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1026	OL	40145200	5/24/2017	2017	5	ZI	9200069812	50	-0.60		2602	5/24/2017	5/23/2017
1026	OL	40145200	5/24/2017	2017	5	ZI	9200069812	40	35.00		2602	5/24/2017	5/23/2017
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1026	OL	40151200	5/18/2017	2017	5	ZI	9200069617	40	4.30		2602	5/18/2017	5/17/2017
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1026	OL	40151200	5/3/2017	2017	5	ZI	9200069053	50	-15.10		2602	5/3/2017	5/2/2017
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1026	OL	40151200	5/31/2017	2017	5	ZI	9200070066	50	-26.64		2602	5/31/2017	5/30/2017
1026	OL	40151200	5/23/2017	2017	5	ZI	9200069783	50	-32.37		2602	5/23/2017	5/22/2017
1026	OL	40151200	5/23/2017	2017	5	ZI	9200069783	50	-48.79		2602	5/23/2017	5/22/2017
1026	OL	40151200	5/23/2017	2017	5	ZI	9200069783	50	-167.47		2602	5/23/2017	5/22/2017
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1026	OL	40151200	5/15/2017	2017	5	ZI	9200069454	50	-682.36		2602	5/15/2017	5/12/2017
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1026	OL	40151200	5/15/2017	2017	5	ZI	9200069454	50	-21.73		2602	5/15/2017	5/12/2017
1026	OL	40151200	5/16/2017	2017	5	ZI	9200069513	50	-5,331.21		2602	5/16/2017	5/15/2017
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1026	OL	40151200	5/16/2017	2017	5	ZI	9200069513	50	-39.70		2602	5/16/2017	5/15/2017
1026	OL	40151200	5/18/2017	2017	5	ZI	9200069634	50	-6.10		2602	5/17/2017	5/17/2017
1026	OL	40151200	5/18/2017	2017	5	ZI	9200069634	50	-2,455.02		2602	5/17/2017	5/17/2017
1026	OL	40151200	5/18/2017	2017	5	ZI	9200069634	50	-2.28		2602	5/17/2017	5/17/2017
1026	OL	40151200	5/31/2017	2017	5	ZI	9200070129	50	-761.54		2602	5/31/2017	5/31/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40151200	5/12/2017	2017	5	ZI	9200069399	50	-102.05		2602	5/12/2017	5/11/2017
1026	OL	40151200	5/12/2017	2017	5	ZI	9200069399	50	-664.18		2602	5/12/2017	5/11/2017
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1026	OL	40151200	5/30/2017	2017	5	ZI	9200070003	50	-864.82		2602	5/30/2017	5/26/2017
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1026	OL	40151200	5/11/2017	2017	5	ZI	9200069337	50	-862.14		2602	5/11/2017	5/10/2017
1026	OL	40151200	5/12/2017	2017	5	ZI	9200069428	50	-4.95		2602	5/11/2017	5/11/2017
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1026	OL	40151200	5/2/2017	2017	5	ZI	9200069021	50	-159.64		2602	5/2/2017	5/1/2017
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1026	OL	40151200	5/1/2017	2017	5	ZI	9200068975	50	-123.44		2602	5/1/2017	4/28/2017
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1026	OL	40151200	5/26/2017	2017	5	ZI	9200069947	50	-378.02		2602	5/26/2017	5/25/2017
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1026	OL	40151200	5/18/2017	2017	5	ZI	9200069688	40	260.58		2602	5/18/2017	5/18/2017
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1026	OL	40151200	5/17/2017	2017	5	ZI	9200069569	50	-1,479.74		2602	5/16/2017	5/16/2017
1026	OL	40151200	5/4/2017	2017	5	ZI	9200069116	50	-52.45		2602	5/4/2017	5/3/2017
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1026	OL	40151200	5/3/2017	2017	5	ZI	9200069121	40	9.47		2602	5/3/2017	5/3/2017
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1026	OL	40151200	5/3/2017	2017	5	ZI	9200069121	40	9.59		2602	5/3/2017	5/3/2017
1026	OL	40151200	5/3/2017	2017	5	ZI	9200069121	40	34.96		2602	5/3/2017	5/3/2017
1026	OL	40151200	5/3/2017	2017	5	ZI	9200069121	40	106.36		2602	5/3/2017	5/3/2017
1026	OL	40151200	5/30/2017	2017	5	ZI	9200070083	50	-57.63		2602	5/30/2017	5/31/2017
1026	OL	40151200	5/30/2017	2017	5	ZI	9200070083	50	-194.54		2602	5/30/2017	5/31/2017
1026	OL	40151200	5/30/2017	2017	5	ZI	9200070083	50	-776.51		2602	5/30/2017	5/31/2017
1026	OL	40151200	5/24/2017	2017	5	ZI	9200069911	40	1,309.71		2602	5/23/2017	5/25/2017
1026	OL	40151200	5/19/2017	2017	5	ZI	92						

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40161200	5/31/2017	2017	5	ZI	9200070084	50	-10,735.73		2602	5/30/2017	5/31/2017
1026	OL	40161200	5/31/2017	2017	5	ZI	9200070093	40	6,435.85		2602	5/30/2017	5/31/2017
1026	OL	40161200	5/24/2017	2017	5	ZI	9200069911	40	4,441.67		2602	5/23/2017	5/25/2017
1026	OL	40171100	5/16/2017	2017	5	ZI	9200069513	50	-25.42		2602	5/16/2017	5/15/2017
1026	OL	40171100	5/16/2017	2017	5	ZI	9200069513	40	10.84		2602	5/16/2017	5/15/2017
1026	OL	40171100	5/16/2017	2017	5	ZI	9200069513	40	3.83		2602	5/16/2017	5/15/2017
1026	OL	40171100	5/18/2017	2017	5	ZI	9200069634	50	-19.88		2602	5/17/2017	5/17/2017
1026	OL	40171100	5/17/2017	2017	5	ZI	9200069535	50	-81.61		2602	5/17/2017	5/16/2017
1026	OL	40121200	6/23/2017	2017	6	ZI	9200070973	50	-680.80		2602	6/23/2017	6/23/2017
1026	OL	40121200	6/26/2017	2017	6	ZI	9200070974	50	-18.53		2602	6/23/2017	6/23/2017
1026	OL	40121200	6/26/2017	2017	6	ZI	9200070974	50	-43.75		2602	6/23/2017	6/23/2017
1026	OL	40121200	6/7/2017	2017	6	ZI	9200070295	50	-101.27		2605	6/7/2017	6/6/2017
1026	OL	40121200	6/7/2017	2017	6	ZI	9200070295	50	-5.72		2605	6/7/2017	6/6/2017
1026	OL	40121200	6/7/2017	2017	6	ZI	9200070295	50	-606.73		2602	6/7/2017	6/6/2017
1026	OL	40121200	6/7/2017	2017	6	ZI	9200070295	50	-49.06		2602	6/7/2017	6/6/2017
1026	OL	40121200	6/7/2017	2017	6	ZI	9200070295	50	-7.83		2602	6/7/2017	6/6/2017
1026	OL	40121200	6/7/2017	2017	6	ZI	9200070295	50	-6,351.00		2602	6/7/2017	6/6/2017
1026	OL	40121200	6/12/2017	2017	6	ZI	9200070651	40	79.63		2602	6/12/2017	6/15/2017
1026	OL	40121200	6/8/2017	2017	6	ZI	9200070908	40	2.52		2602	6/8/2017	6/22/2017
1026	OL	40121200	6/22/2017	2017	6	ZI	9200070911	40	2.49		2602	6/22/2017	6/22/2017
1026	OL	40121200	6/22/2017	2017	6	ZI	9200070911	40	2.36		2602	6/22/2017	6/22/2017
1026	OL	40121200	6/5/2017	2017	6	ZI	9200070308	50	-620.59		2602	6/5/2017	6/6/2017
1026	OL	40121200	6/6/2017	2017	6	ZI	9200070309	50	-0.59		2602	6/5/2017	6/6/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070109	40	2.73		2602	6/1/2017	5/31/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070109	50	-8.26		2602	6/1/2017	5/31/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070109	40	18.76		2602	6/1/2017	5/31/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070109	50	-4,164.93		2602	6/1/2017	5/31/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070109	50	-1,331.16		2602	6/1/2017	5/31/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070109	50	-335.51		2602	6/1/2017	5/31/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070109	40	0.04		2602	6/1/2017	5/31/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070109	40	0.06		2602	6/1/2017	5/31/2017
1026	OL	40121200	6/5/2017	2017	6	ZI	9200070305	40	2.49		2602	6/5/2017	6/6/2017
1026	OL	40121200	6/5/2017	2017	6	ZI	9200070305	40	2.52		2602	6/5/2017	6/6/2017
1026	OL	40121200	6/8/2017	2017	6	ZI	9200070353	40	13.03		2602	6/8/2017	6/7/2017
1026	OL	40121200	6/8/2017	2017	6	ZI	9200070353	50	-29.20		2602	6/8/2017	6/7/2017
1026	OL	40121200	6/8/2017	2017	6	ZI	9200070353	50	-6,856.03		2602	6/8/2017	6/7/2017
1026	OL	40121200	6/8/2017	2017	6	ZI	9200070353	50	-2.86		2605	6/8/2017	6/7/2017
1026	OL	40121200	6/8/2017	2017	6	ZI	9200070353	50	-469.50		2602	6/8/2017	6/7/2017
1026	OL	40121200	6/8/2017	2017	6	ZI	9200070353	50	-6.52		2605	6/8/2017	6/7/2017
1026	OL	40121200	6/8/2017	2017	6	ZI	9200070353	40	10.66		2602	6/8/2017	6/7/2017
1026	OL	40121200	6/8/2017	2017	6	ZI	9200070353	50	-22.20		2602	6/8/2017	6/7/2017
1026	OL	40121200	6/8/2017	2017	6	ZI	9200070353	40	4.80		2602	6/8/2017	6/7/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070844	50	-2,470.28		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070844	40	6.39		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070844	40	8.47		2602	6/21/2017	6/21/2017
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1026	OL	40121200	6/21/2017	2017	6	ZI	9200070844	50	-101.32		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070844	50	-35.90		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/19/2017	2017	6	ZI	9200070711	50	-2.49		2602	6/16/2017	6/16/2017
1026	OL	40121200	6/6/2017	2017	6	ZI	9200070312	40	10.98		2602	6/6/2017	6/6/2017
1026	OL	40121200	6/6/2017	2017	6	ZI	9200070312	40	2.52		2602	6/6/2017	6/6/2017
1026	OL	40121200	6/6/2017	2017	6	ZI	9200070312	40	13.04		2602	6/6/2017	6/6/2017
1026	OL	40121200	6/19/2017	2017	6	ZI	9200070696	40	5.79		2602	6/19/2017	6/16/2017
1026	OL	40121200	6/19/2017	2017	6	ZI	9200070696	50	-2,095.70		2602	6/19/2017	6/16/2017
1026	OL	40121200	6/19/2017	2017	6	ZI	9200070696	50	-5,167.77		2602	6/19/2017	6/16/2017
1026	OL	40121200	6/19/2017	2017	6	ZI	9200070696	50	-1,426.98		2602	6/19/2017	6/16/2017
1026	OL	40121200	6/19/2017	2017	6	ZI	9200070696	50	-92.38		2602	6/19/2017	6/16/2017
1026	OL	40121200	6/19/2017	2017	6	ZI	9200070696	50	-1,101.78		2602	6/19/2017	6/16/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070841	40	20.56		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070841	40	2.33		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070841	40	2.07		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070841	40	1.03		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070841	40	14.39		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/9/2017	2017	6	ZI	9200070452	40	2.61		2602	6/9/2017	6/9/2017
1026	OL	40121200	6/9/2017	2017	6	ZI	9200070452	40	22.19		2602	6/9/2017	6/9/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070842	40	14.39		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070842	40	2.33		2602	6/21/2017	6/21/2017
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1026	OL	40121200	6/21/2017	2017	6	ZI	9200070842	40	2.07		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070842	40	1.03		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070842	50	-40.38		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070843	40	1.03		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070843	40	20.56		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070843	50	-40.38		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070843	40	14.39		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070843	40	2.33		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070843	40	2.07		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/5/2017	2017	6	ZI	9200070301	40	2.49		2602	6/5/2017	6/6/2017
1026	OL	40121200	6/22/2017	2017	6	ZI	9200070917	50	-42.79		2602	6/22/2017	6/22/2017
1026	OL	40121200	6/23/2017	2017	6	ZI	9200070918	50	-2.34		2602	6/22/2017	6/22/2017
1026	OL	40121200	6/23/2017	2017	6	ZI	9200070918	50	-22.24		2602	6/22/2017	6/22/2017
1026	OL	40121200	6/23/2017	2017	6	ZI	9200070918	50	-2.49		2602	6/22/2017	6/22/2017
1026	OL	40121200	6/23/2017	2017	6	ZI	9200070918	50	-2.52		2602	6/22/2017	6/22/2017
1026	OL	40121200	6/23/2017	2017	6	ZI	9200070918	50	-2.55		2602	6/22/2017	6/22/2017
1026	OL	40121200	6/9/2017	2017	6	ZI	9200070420	50	-7.53		2605	6/8/2017	6/8/2017
1026	OL	40121200	6/9/2017	2017	6	ZI	9200070420	50	-2.10		2602	6/8/2017	6/8/2017
1026	OL	40121200	6/9/2017	2017	6	ZI	9200070420	50	-2.54		2602		

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	6/7/2017	2017	6	ZI	9200070317	50	-10.97		2602	6/6/2017	6/6/2017
1026	OL	40121200	6/7/2017	2017	6	ZI	9200070317	50	-2.29		2602	6/6/2017	6/6/2017
1026	OL	40121200	6/12/2017	2017	6	ZI	9200070446	50	-312.89		2602	6/12/2017	6/9/2017
1026	OL	40121200	6/12/2017	2017	6	ZI	9200070446	50	-313.93		2602	6/12/2017	6/9/2017
1026	OL	40121200	6/12/2017	2017	6	ZI	9200070446	40	5.82		2602	6/12/2017	6/9/2017
1026	OL	40121200	6/12/2017	2017	6	ZI	9200070446	50	-14,972.58		2602	6/12/2017	6/9/2017
1026	OL	40121200	6/12/2017	2017	6	ZI	9200070446	50	-94.74		2602	6/12/2017	6/9/2017
1026	OL	40121200	6/20/2017	2017	6	ZI	9200070753	50	-6,154.40		2602	6/20/2017	6/19/2017
1026	OL	40121200	6/20/2017	2017	6	ZI	9200070753	50	-3,036.61		2602	6/20/2017	6/19/2017
1026	OL	40121200	6/20/2017	2017	6	ZI	9200070753	50	-698.38		2602	6/20/2017	6/19/2017
1026	OL	40121200	6/20/2017	2017	6	ZI	9200070753	50	-8.20		2602	6/20/2017	6/19/2017
1026	OL	40121200	6/20/2017	2017	6	ZI	9200070753	50	-179.20		2602	6/20/2017	6/19/2017
1026	OL	40121200	6/26/2017	2017	6	ZI	9200070948	50	-16.64		2602	6/26/2017	6/23/2017
1026	OL	40121200	6/26/2017	2017	6	ZI	9200070948	50	-313.07		2602	6/26/2017	6/23/2017
1026	OL	40121200	6/26/2017	2017	6	ZI	9200070948	50	-16.89		2602	6/26/2017	6/23/2017
1026	OL	40121200	6/26/2017	2017	6	ZI	9200070948	50	-3,550.17		2602	6/26/2017	6/23/2017
1026	OL	40121200	6/26/2017	2017	6	ZI	9200070948	50	-76.47		2602	6/26/2017	6/23/2017
1026	OL	40121200	6/7/2017	2017	6	ZI	9200070369	40	2.55		2602	6/7/2017	6/7/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070130	50	-2.49		2602	5/31/2017	5/31/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070130	50	-65.90		2602	5/31/2017	5/31/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070130	50	-122.00		2602	5/31/2017	5/31/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070130	50	-22.24		2602	5/31/2017	5/31/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070130	50	-18.43		2602	5/31/2017	5/31/2017
1026	OL	40121200	6/23/2017	2017	6	ZI	9200070901	50	-11,147.46		2602	6/23/2017	6/22/2017
1026	OL	40121200	6/23/2017	2017	6	ZI	9200070901	50	-2.52		2602	6/23/2017	6/22/2017
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1026	OL	40121200	6/23/2017	2017	6	ZI	9200070901	50	-29.38		2602	6/23/2017	6/22/2017
1026	OL	40121200	6/23/2017	2017	6	ZI	9200070901	50	-59.33		2602	6/23/2017	6/22/2017
1026	OL	40121200	6/23/2017	2017	6	ZI	9200070901	50	-2.49		2602	6/23/2017	6/22/2017
1026	OL	40121200	6/23/2017	2017	6	ZI	9200070901	50	-37.55		2603	6/23/2017	6/22/2017
1026	OL	40121200	6/23/2017	2017	6	ZI	9200070901	50	-21.91		2602	6/23/2017	6/22/2017
1026	OL	40121200	6/12/2017	2017	6	ZI	9200070460	50	-9.95		2602	6/9/2017	6/9/2017
1026	OL	40121200	6/12/2017	2017	6	ZI	9200070460	50	-11.24		2602	6/9/2017	6/9/2017
1026	OL	40121200	6/12/2017	2017	6	ZI	9200070460	50	-2.52		2602	6/9/2017	6/9/2017
1026	OL	40121200	6/12/2017	2017	6	ZI	9200070460	50	-300.32		2602	6/9/2017	6/9/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070854	40	51.47		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070854	40	431.61		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070854	50	-7.88		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070854	40	407.62		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070854	40	81.77		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070854	40	63.11		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070854	50	-14.12		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/27/2017	2017	6	ZI	9200071070	40	8.72		2602	6/27/2017	6/27/2017
1026	OL	40121200	6/28/2017	2017	6	ZI	9200071071	50	-1.85		2602	6/27/2017	6/27/2017
1026	OL	40121200	6/28/2017	2017	6	ZI	9200071071	50	-1.94		2602	6/27/2017	6/27/2017
1026	OL	40121200	6/28/2017	2017	6	ZI	9200071071	50	-0.66		2602	6/27/2017	6/27/2017
1026	OL	40121200	6/28/2017	2017	6	ZI	9200071071	50	-378.00		2602	6/27/2017	6/27/2017
1026	OL	40121200	6/28/2017	2017	6	ZI	9200071071	50	-395.62		2602	6/27/2017	6/27/2017
1026	OL	40121200	6/28/2017	2017	6	ZI	9200071071	50	-9.51		2602	6/27/2017	6/27/2017
1026	OL	40121200	6/28/2017	2017	6	ZI	9200071071	50	-390.00		2602	6/27/2017	6/27/2017
1026	OL	40121200	6/28/2017	2017	6	ZI	9200071071	50	-90.60		2602	6/27/2017	6/27/2017
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1026	OL	40121200	6/28/2017	2017	6	ZI	9200071071	50	-27.40		2602	6/27/2017	6/27/2017
1026	OL	40121200	6/28/2017	2017	6	ZI	9200071071	50	-2.52		2602	6/27/2017	6/27/2017
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1026	OL	40121200	6/28/2017	2017	6	ZI	9200071071	50	-2.49		2602	6/27/2017	6/27/2017
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1026	OL	40121200	6/6/2017	2017	6	ZI	9200070316	50	-13.56		2602	6/6/2017	6/6/2017
1026	OL	40121200	6/6/2017	2017	6	ZI	9200070316	50	-16.88		2602	6/6/2017	6/6/2017
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1026	OL	40121200	6/6/2017	2017	6	ZI	9200070316	50	-32.14		2602	6/6/2017	6/6/2017
1026	OL	40121200	6/6/2017	2017	6	ZI	9200070316	50	-58.09		2602	6/6/2017	6/6/2017
1026	OL	40121200	6/6/2017	2017	6	ZI	9200070316	50	-25.03		2602	6/6/2017	6/6/2017
1026	OL	40121200	6/6/2017	2017	6	ZI	9200070316	50	-2.49		2602	6/6/2017	6/6/2017
1026	OL	40121200	6/6/2017	2017	6	ZI	9200070316	50	-26.37		2602	6/6/2017	6/6/2017
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1026	OL	40121200	6/6/2017	2017	6	ZI	9200070316	50	-215.13		2602	6/6/2017	6/6/2017
1026	OL	40121200	6/6/2017	2017	6	ZI	9200070316	50	-47.32		2602	6/6/2017	6/6/2017
1026	OL	40121200	6/6/2017	2017	6	ZI	9200070316	50	-60.85		2602	6/6/2017	6/6/2017
1026	OL	40121200	6/6/2017	2017	6	ZI	9200070316	50	-24.49		2602	6/6/2017	6/6/2017
1026	OL	40121200	6/6/2017	2017	6	ZI	9200070316	50	-41.76		2602	6/6/2017	6/6/2017
1026	OL	40121200	6/6/2017	2017	6	ZI	9200070316	50	-25.76		2602	6/6/2017	6/6/2017
1026	OL	40121200	6/6/2017	2017	6	ZI	9200070316	50	-83.19		2602	6/6/2017	6/6/2017
1026	OL	40121200	6/6/2017	2017	6	ZI	9200070316	50	-24.45		2602	6/6/2017	6/6/2017
1026	OL	40121200	6/6/2017	2017	6	ZI	9200070316	50	-39.61		2602	6/6/2017	6/6/2017
1026	OL	40121200	6/6/2017	2017	6	ZI	9200070316	50	-46.14		2602	6/6/2017	6/6/2017
1026	OL	40121200	6/6/2017	2017	6	ZI	9200070316	50	-48.58		2602	6/6/2017	6/6/2017
1026	OL	40121200	6/6/2017	2017	6	ZI	9200070316	50	-83.93		2602	6/6/2017	6/6/2017
1026	OL	40121200	6/22/2017	2017	6	ZI	9200070855	40	47.82		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/22/2017	2017	6	ZI	9200070856	40	5.72		2602	6/22/2017	6/21/2017
1026	OL	40121200	6/8/2017	2017	6	ZI	9200070419	50	-2.52		2602	6/8/2017	6/8/2017
1026	OL	40121200	6/2/2017	2017	6	ZI	9200071044	40	15.09		2602	6/2/2017	6/27/2017
1026	OL	40121200	6/26/2017	2017	6	ZI	9200071050	40	75.45		2602	6/26/2017	6/27/2017
1026	OL	40121200	6/26/2017	2017	6	ZI	9200071050	40	48.43		2602	6/26/2017	6/27/2017
1026	OL	40121200	6/26/2017	2017	6	ZI	9200071050	40	70.18		2602	6/	

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	6/20/2017	2017	6	ZI	9200070795	50	-1.80		2602	6/19/2017	6/20/2017
1026	OL	40121200	6/5/2017	2017	6	ZI	9200070200	40	3.77		2602	6/5/2017	6/2/2017
1026	OL	40121200	6/5/2017	2017	6	ZI	9200070200	50	-6.12		2605	6/5/2017	6/2/2017
1026	OL	40121200	6/5/2017	2017	6	ZI	9200070200	50	-3,274.78		2602	6/5/2017	6/2/2017
1026	OL	40121200	6/5/2017	2017	6	ZI	9200070200	50	-519.69		2602	6/5/2017	6/2/2017
1026	OL	40121200	6/5/2017	2017	6	ZI	9200070200	40	2.99		2602	6/5/2017	6/2/2017
1026	OL	40121200	6/5/2017	2017	6	ZI	9200070200	50	-615.74		2602	6/5/2017	6/2/2017
1026	OL	40121200	6/5/2017	2017	6	ZI	9200070200	40	15.23		2602	6/5/2017	6/2/2017
1026	OL	40121200	6/5/2017	2017	6	ZI	9200070200	50	-32.43		2602	6/5/2017	6/2/2017
1026	OL	40121200	6/5/2017	2017	6	ZI	9200070200	50	-66.13		2605	6/5/2017	6/2/2017
1026	OL	40121200	6/22/2017	2017	6	ZI	9200070861	50	-24.41		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/22/2017	2017	6	ZI	9200070861	50	-2.58		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/22/2017	2017	6	ZI	9200070861	50	-2.49		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/22/2017	2017	6	ZI	9200070861	50	-6.27		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/22/2017	2017	6	ZI	9200070861	50	-86.91		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/22/2017	2017	6	ZI	9200070861	50	-71.73		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070171	40	46.14		2602	6/1/2017	6/1/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070171	40	60.85		2602	6/1/2017	6/1/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070171	40	32.14		2602	6/1/2017	6/1/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070171	40	25.76		2602	6/1/2017	6/1/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070171	40	25.03		2602	6/1/2017	6/1/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070171	40	207.53		2602	6/1/2017	6/1/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070171	40	24.45		2602	6/1/2017	6/1/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070171	40	28.39		2602	6/1/2017	6/1/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070171	40	41.76		2602	6/1/2017	6/1/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070171	40	26.37		2602	6/1/2017	6/1/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070171	40	83.93		2602	6/1/2017	6/1/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070171	40	55.57		2602	6/1/2017	6/1/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070171	40	69.63		2602	6/1/2017	6/1/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070171	40	83.19		2602	6/1/2017	6/1/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070171	40	24.49		2602	6/1/2017	6/1/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070171	40	15.09		2602	6/1/2017	6/1/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070171	40	48.58		2602	6/1/2017	6/1/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070171	40	47.32		2602	6/1/2017	6/1/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070171	40	6.69		2602	6/1/2017	6/1/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070171	40	16.88		2602	6/1/2017	6/1/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070171	40	58.09		2602	6/1/2017	6/1/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070171	40	39.61		2602	6/1/2017	6/1/2017
1026	OL	40121200	6/27/2017	2017	6	ZI	9200071008	40	4.23		2602	6/27/2017	6/26/2017
1026	OL	40121200	6/27/2017	2017	6	ZI	9200071008	40	9.00		2602	6/27/2017	6/26/2017
1026	OL	40121200	6/27/2017	2017	6	ZI	9200071008	50	-3,317.52		2602	6/27/2017	6/26/2017
1026	OL	40121200	6/27/2017	2017	6	ZI	9200071008	40	2.15		2602	6/27/2017	6/26/2017
1026	OL	40121200	6/27/2017	2017	6	ZI	9200071008	50	-4,559.70		2602	6/27/2017	6/26/2017
1026	OL	40121200	6/27/2017	2017	6	ZI	9200071008	40	11.62		2602	6/27/2017	6/26/2017
1026	OL	40121200	6/15/2017	2017	6	ZI	9200070661	40	2.32		2602	6/15/2017	6/15/2017
1026	OL	40121200	6/15/2017	2017	6	ZI	9200070661	50	-635.52		2602	6/15/2017	6/15/2017
1026	OL	40121200	6/15/2017	2017	6	ZI	9200070661	50	-1,622.07		2602	6/15/2017	6/15/2017
1026	OL	40121200	6/1/2017	2017	6	ZI	9200070174	50	-620.37		2602	6/1/2017	6/1/2017
1026	OL	40121200	6/2/2017	2017	6	ZI	9200070175	50	-3.27		2602	6/1/2017	6/1/2017
1026	OL	40121200	6/2/2017	2017	6	ZI	9200070175	50	-15.64		2602	6/1/2017	6/1/2017
1026	OL	40121200	6/2/2017	2017	6	ZI	9200070175	50	-2.80		2602	6/1/2017	6/1/2017
1026	OL	40121200	6/28/2017	2017	6	ZI	9200071037	40	0.09		2602	6/28/2017	6/27/2017
1026	OL	40121200	6/28/2017	2017	6	ZI	9200071037	50	-6,491.00		2602	6/28/2017	6/27/2017
1026	OL	40121200	6/28/2017	2017	6	ZI	9200071037	50	-243.13		2602	6/28/2017	6/27/2017
1026	OL	40121200	6/28/2017	2017	6	ZI	9200071037	50	-1,038.84		2602	6/28/2017	6/27/2017
1026	OL	40121200	6/28/2017	2017	6	ZI	9200071037	40	0.06		2602	6/28/2017	6/27/2017
1026	OL	40121200	6/28/2017	2017	6	ZI	9200071037	40	21.44		2602	6/28/2017	6/27/2017
1026	OL	40121200	6/28/2017	2017	6	ZI	9200071121	50	-8.89		2602	6/28/2017	6/28/2017
1026	OL	40121200	6/28/2017	2017	6	ZI	9200071121	50	-638.97		2602	6/28/2017	6/28/2017
1026	OL	40121200	6/28/2017	2017	6	ZI	9200071121	40	70.51		2602	6/28/2017	6/28/2017
1026	OL	40121200	6/28/2017	2017	6	ZI	9200071121	50	-44.44		2602	6/28/2017	6/28/2017
1026	OL	40121200	6/28/2017	2017	6	ZI	9200071121	40	28.72		2602	6/28/2017	6/28/2017
1026	OL	40121200	6/28/2017	2017	6	ZI	9200071121	50	-28.72		2602	6/28/2017	6/28/2017
1026	OL	40121200	6/29/2017	2017	6	ZI	9200071122	50	-48.03		2602	6/28/2017	6/28/2017
1026	OL	40121200	6/29/2017	2017	6	ZI	9200071122	50	-57.77		2602	6/28/2017	6/28/2017
1026	OL	40121200	6/29/2017	2017	6	ZI	9200071122	50	-1.15		2602	6/28/2017	6/28/2017
1026	OL	40121200	6/29/2017	2017	6	ZI	9200071167	40	57.77		2602	6/28/2017	6/29/2017
1026	OL	40121200	6/13/2017	2017	6	ZI	9200070545	40	6.15		2602	6/13/2017	6/14/2017
1026	OL	40121200	6/13/2017	2017	6	ZI	9200070545	40	3.14		2602	6/13/2017	6/14/2017
1026	OL	40121200	6/13/2017	2017	6	ZI	9200070553	40	25.03		2602	6/13/2017	6/14/2017
1026	OL	40121200	6/13/2017	2017	6	ZI	9200070553	40	21.33		2602	6/13/2017	6/14/2017
1026	OL	40121200	6/13/2017	2017	6	ZI	9200070553	40	20.94		2602	6/13/2017	6/14/2017
1026	OL	40121200	6/13/2017	2017	6	ZI	9200070553	40	2.52		2602	6/13/2017	6/14/2017
1026	OL	40121200	6/13/2017	2017	6	ZI	9200070553	40	2.03		2602	6/13/2017	6/14/2017
1026	OL	40121200	6/13/2017	2017	6	ZI	9200070553	40	51.11		2602	6/13/2017	6/14/2017
1026	OL	40121200	6/13/2017	2017	6	ZI	9200070553	40	2.03		2602	6/13/2017	6/14/2017
1026	OL	40121200	6/13/2017	2017	6	ZI	9200070553	40	1.85		2602	6/13/2017	6/14/2017
1026	OL	40121200	6/13/2017	2017	6	ZI	9200070553	40	19.88		2602	6/13/2017	6/14/2017
1026	OL	40121200	6/13/2017	2017	6	ZI	9200070553	40	20.75		2602	6/13/2017	6/14/2017
1026	OL	40121200	6/13/2017	2017	6	ZI	9200070553	40	2.43		2605	6/13/2017	6/14/2017
1026	OL	40121200	6/13/2017	2017	6	ZI	9200070553	40	3.06		2605	6/13/2017	6/14/2017
1026	OL	40121200	6/13/2017	2017	6	ZI	9200070553	40	1.87		2602	6/13/2017	6/14/2017
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1026	OL	40121200	6/14/2017	2017	6	ZI	9200070554	40	4.69		2602	6/13/2017	6/14/2017
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1026	OL	40121200	6/13/2017	2017	6	ZI	9200070557	50	-63.98		2602	6/13/2017	

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	6/14/2017	2017	6	ZI	9200070558	50	-1.85		2602	6/13/2017	6/14/2017
1026	OL	40121200	6/14/2017	2017	6	ZI	9200070558	50	-1.08		2602	6/13/2017	6/14/2017
1026	OL	40121200	6/14/2017	2017	6	ZI	9200070558	50	-17.62		2602	6/13/2017	6/14/2017
1026	OL	40121200	6/14/2017	2017	6	ZI	9200070558	50	-5.00		2602	6/13/2017	6/14/2017
1026	OL	40121200	6/14/2017	2017	6	ZI	9200070558	50	-15.07		2602	6/13/2017	6/14/2017
1026	OL	40121200	6/14/2017	2017	6	ZI	9200070558	50	-1.97		2602	6/13/2017	6/14/2017
1026	OL	40121200	6/14/2017	2017	6	ZI	9200070558	50	-2.52		2602	6/13/2017	6/14/2017
1026	OL	40121200	6/14/2017	2017	6	ZI	9200070558	50	-4.69		2602	6/13/2017	6/14/2017
1026	OL	40121200	6/14/2017	2017	6	ZI	9200070558	50	-3.06		2605	6/13/2017	6/14/2017
1026	OL	40121200	6/14/2017	2017	6	ZI	9200070558	50	-3.26		2605	6/13/2017	6/14/2017
1026	OL	40121200	6/14/2017	2017	6	ZI	9200070558	50	-2.52		2602	6/13/2017	6/14/2017
1026	OL	40121200	6/14/2017	2017	6	ZI	9200070558	50	-2.43		2605	6/13/2017	6/14/2017
1026	OL	40121200	6/14/2017	2017	6	ZI	9200070558	50	-3.26		2605	6/13/2017	6/14/2017
1026	OL	40121200	6/29/2017	2017	6	ZI	9200071100	40	10.95		2602	6/29/2017	6/28/2017
1026	OL	40121200	6/29/2017	2017	6	ZI	9200071100	50	-217.17		2602	6/29/2017	6/28/2017
1026	OL	40121200	6/29/2017	2017	6	ZI	9200071100	50	-3,196.39		2602	6/29/2017	6/28/2017
1026	OL	40121200	6/29/2017	2017	6	ZI	9200071100	50	-288.04		2602	6/29/2017	6/28/2017
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1026	OL	40121200	6/29/2017	2017	6	ZI	9200071155	40	1.34		2602	6/29/2017	6/29/2017
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1026	OL	40121200	6/29/2017	2017	6	ZI	9200071155	40	2.49		2602	6/29/2017	6/29/2017
1026	OL	40121200	6/29/2017	2017	6	ZI	9200071168	40	78.73		2602	6/29/2017	6/29/2017
1026	OL	40121200	6/29/2017	2017	6	ZI	9200071168	40	3.14		2602	6/29/2017	6/29/2017
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1026	OL	40121200	6/29/2017	2017	6	ZI	9200071168	40	56.13		2602	6/29/2017	6/29/2017
1026	OL	40121200	6/29/2017	2017	6	ZI	9200071168	40	86.91		2602	6/29/2017	6/29/2017
1026	OL	40121200	6/30/2017	2017	6	ZI	9200071169	40	2.61		2602	6/29/2017	6/29/2017
1026	OL	40121200	6/30/2017	2017	6	ZI	9200071169	40	2.58		2602	6/29/2017	6/29/2017
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1026	OL	40121200	6/29/2017	2017	6	ZI	9200071174	50	-43.22		2602	6/29/2017	6/29/2017
1026	OL	40121200	6/29/2017	2017	6	ZI	9200071174	40	19.04		2602	6/29/2017	6/29/2017
1026	OL	40121200	6/29/2017	2017	6	ZI	9200071174	50	-1,050.37		2602	6/29/2017	6/29/2017
1026	OL	40121200	6/30/2017	2017	6	ZI	9200071175	50	-46.86		2602	6/29/2017	6/29/2017
1026	OL	40121200	6/30/2017	2017	6	ZI	9200071175	50	-48.95		2602	6/29/2017	6/29/2017
1026	OL	40121200	6/30/2017	2017	6	ZI	9200071175	50	-44.78		2602	6/29/2017	6/29/2017
1026	OL	40121200	6/30/2017	2017	6	ZI	9200071175	50	-5.08		2602	6/29/2017	6/29/2017
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1026	OL	40121200	6/2/2017	2017	6	ZI	9200070157	50	-118.86		2602	6/2/2017	6/1/2017
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1026	OL	40121200	6/2/2017	2017	6	ZI	9200070216	50	-14.41		2602	6/2/2017	6/2/2017
1026	OL	40121200	6/2/2017	2017	6	ZI	9200070216	50	-6.31		2602	6/2/2017	6/2/2017
1026	OL	40121200	6/5/2017	2017	6	ZI	9200070219	50	-16.12		2602	6/2/2017	6/2/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	6/21/2017	2017	6	ZI	9200070815	50	-13.90		2602	6/20/2017	6/20/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070815	50	-31.52		2602	6/20/2017	6/20/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070815	50	-50.51		2602	6/20/2017	6/20/2017
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1026	OL	40121200	6/21/2017	2017	6	ZI	9200070815	50	-51.38		2602	6/20/2017	6/20/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070815	50	-39.97		2602	6/20/2017	6/20/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070815	50	-1,365.06		2602	6/20/2017	6/20/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070815	50	-2.61		2602	6/20/2017	6/20/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070815	50	-40.57		2602	6/20/2017	6/20/2017
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1026	OL	40121200	6/27/2017	2017	6	ZI	9200071063	40	2.52		2602	6/27/2017	6/27/2017
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1026	OL	40121200	6/6/2017	2017	6	ZI	9200070256	50	-1,315.52		2602	6/6/2017	6/5/2017
1026	OL	40121200	6/6/2017	2017	6	ZI	9200070256	50	-1,570.98		2602	6/6/2017	6/5/2017
1026	OL	40121200	6/6/2017	2017	6	ZI	9200070256	50	-455.63		2602	6/6/2017	6/5/2017
1026	OL	40121200	6/6/2017	2017	6	ZI	9200070256	50	-17.84		2602	6/6/2017	6/5/2017
1026	OL	40121200	6/6/2017	2017	6	ZI	9200070602	40	5.74		2602	6/6/2017	6/14/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070775	50	-162.75		2602	6/21/2017	6/20/2017
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1026	OL	40121200	6/21/2017	2017	6	ZI	9200070860	50	-6.21		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070860	40	121.14		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070860	50	-6.99		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070860	50	-23.28		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070860	40	14.12		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/21/2017	2017	6	ZI	9200070860	50	-26.89		2602	6/21/2017	6/21/2017
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1026	OL	40121200	6/21/2017	2017	6	ZI	9200070860	50	-27.40		2602	6/21/2017	6/21/2017
1026	OL	40121200	6/19/2017	2017	6	ZI	9200070780	40	8.20		2602	6/19/2017	6/20/2017
1026	OL	40121200	6/27/2017	2017	6	ZI	9200071074	50	-45.30		2602	6/26/2017	6/27/2017
1026	OL	40121200	6/27/2017	2017	6	ZI	9200071074	50	-12.80		2602	6/26/2017	6/27/2017
1026	OL	40121200	6/27/2017	2017	6	ZI	9200071074	50	-41.05		2602	6/26/2017	6/27/2017
1026	OL	40121200	6/27/2017	2017	6	ZI	9200071074	50	-22.43		2602	6/26/2017	6/27/2017
1026	OL	40121200	6/27/2017	2017	6	ZI	9200071074	50	-7.61		2602	6/26/2017	6/27/2017
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1026	OL	40121200	6/26/2017	2017	6	ZI	9200071146	40	43.22		2602	6/26/2017	6/29/2017
1026	OL	40121200	6/9/2017	2017	6	ZI	9200070409	40	20.25		2602	6/9/2017	6/8/2017
1026	OL	40121200	6/9/2017	2017	6	ZI	9200070409	40	3.63		2602	6/9/2017	6/8/2017
1026	OL	40121200	6/9/2017	2017	6	ZI	9200070409	50	-153.00		2602	6/9/2017	6/8/2017
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1026	OL	40121200	6/9/2017	2017	6	ZI	9200070409	50	-3,582.39		2602	6/9/2017	6/8/2017
1026	OL	40121200	6/9/2017	2017	6	ZI	9200070409	50	-2.55		2602	6/9/2017	6/8/2017
1026	OL	40121200	6/15/2017	2017	6	ZI	9200070592	50	-836.42		2602	6/15/2017	6/14/2017
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1026	OL	40121200	6/15/2017	2017	6	ZI	9200071039	40	9.51		2602	6/15/2017	6/27/2017
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1026	OL	40121200	6/16/2017	2017	6	ZI	9200070647	50	-1,560.48		2602	6/16/2017	6/15/2017
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1026	OL	40121200	6/16/2017	2017	6	ZI	9200070647	50	-1,705.56		2602	6/16/2017	6/15/2017
1026	OL	40131200	6/26/2017	2017	6	ZI	9200070974	50	-46.38		2602	6/23/2017	6/23/2017
1026	OL	40131200	6/26/2017	2017	6	ZI	9200070974	50	-46.38		2602	6/23/2017	6/23/2017
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1026	OL	40131200	6/8/2017	2017	6	ZI	9200070353	50	-107.05		2602	6/8/2017	6/7/2017
1026	OL	40131200	6/21/2017	2017	6	ZI	9200070844	50	-14.57		2602	6/21/2017	6/21/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40131200	6/26/2017	2017	6	ZI	9200070948	50	-117.26		2602	6/26/2017	6/23/2017
1026	OL	40131200	6/23/2017	2017	6	ZI	9200070901	50	-1,653.85		2602	6/23/2017	6/22/2017
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1026	OL	40131200	6/28/2017	2017	6	ZI	9200071071	50	-1,745.47		2602	6/27/2017	6/27/2017
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1026	OL	40131200	6/16/2017	2017	6	ZI	9200070662	50	-6,004.75		2602	6/15/2017	6/15/2017
1026	OL	40131200	6/19/2017	2017	6	ZI	9200070794	50	-1,358.00		2602	6/19/2017	6/20/2017
1026	OL	40131200	6/5/2017	2017	6	ZI	9200070200	50	-3.26		2605	6/5/2017	6/2/2017
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1026	OL	40131200	6/28/2017	2017	6	ZI	9200071037	50	-5.22		2602	6/28/2017	6/27/2017
1026	OL	40131200	6/28/2017	2017	6	ZI	9200071037	50	-5.18		2602	6/28/2017	6/27/2017
1026	OL	40131200	6/14/2017	2017	6	ZI	9200070558	50	-1,319.38		2602	6/13/2017	6/14/2017
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1026	OL	40131200	6/29/2017	2017	6	ZI	9200071100	50	-18.44		2602	6/29/2017	6/28/2017
1026	OL	40131200	6/30/2017	2017	6	ZI	9200071157	50	-2,283.80		2602	6/30/2017	6/29/2017
1026	OL	40131200	6/30/2017	2017	6	ZI	9200071226	50	-3,157.72		2602	6/30/2017	6/30/2017
1026	OL	40131200	6/2/2017	2017	6	ZI	9200070157	50	-150.53		2602	6/2/2017	6/1/2017
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1026	OL	40131200	6/9/2017	2017	6	ZI	9200070409	50	-178.56		2602	6/9/2017	6/8/2017
1026	OL	40131200	6/9/2017	2017	6	ZI	9200070409	50	-5.18		2602	6/9/2017	6/8/2017
1026	OL	40131200	6/15/2017	2017	6	ZI	9200070592	50	-870.02		2602	6/15/2017	6/14/2017
1026	OL	40131200	6/15/2017	2017	6	ZI	9200070592	50	-201.59		2602	6/15/2017	6/14/2017
1026	OL	40145200	6/8/2017	2017	6	ZI	9200070353	50	-0.60		2602	6/8/2017	6/7/2017
1026	OL	40145200	6/23/2017	2017	6	ZI	9200070901	50	-0.60		2602	6/23/2017	6/22/2017
1026	OL	40145200	6/5/2017	2017	6	ZI	9200070200	50	-2.39		2602	6/5/2017	6/2/2017
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1026	OL	40145200	6/14/2017	2017	6	ZI	9200070542	40	0.43		2602	6/14/2017	6/14/2017
1026	OL	40145200	6/14/2017	2017	6	ZI	9200070542	50	-1.19		2602	6/14/2017	6/14/2017
1026	OL	40145200	6/2/2017	2017	6	ZI	9200070157	50	-0.13		2602	6/2/2017	6/1/2017
1026	OL	40145200	6/21/2017	2017	6	ZI	9200070775	50	-1.19		2602	6/21/2017	6/20/2017
1026	OL	40145200	6/15/2017	2017	6	ZI	9200070592	50	-2.38		2602	6/15/2017	6/14/2017
1026	OL	40145200	6/16/2017	2017	6	ZI	9200070647	50	-0.60		2602	6/16/2017	6/15/2017
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1026	OL	40151200	6/1/2017	2017	6	ZI	9200070109	50	-53.39		2602	6/1/2017	5/31/2017
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1026	OL	40151200	6/8/2017	2017	6	ZI	9200070353	50	-3.26		2605	6/8/2017	6/7/2017
1026	OL	40151200	6/8/2017	2017	6	ZI	9200070353	50	-210.01		2602	6/8/2017	6/7/2017
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1026	OL	40151200	6/19/2017	2017	6	ZI	9200070696	50	-129.76		2602	6/19/2017	6/16/2017
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1026	OL	40151200	6/19/2017	2017	6	ZI	9200070696	40	29.47		2602	6/19/2017	6/16/2017
1026	OL	40151200	6/19/2017	2017	6	ZI	9200070696	50	-514.49		2602	6/19/2017	6/16/2017
1026	OL	40151200	6/19/2017	2017	6	ZI	9200070696	50	-2,772.91		2602	6/19/2017	6/16/2017
1026	OL	40151200	6/9/2017	2017	6	ZI	9200070452	40	2.39		2602	6/9/2017	6/9/2017
1026	OL	40151200	6/22/2017	2017	6	ZI	9200070917	50	-1,261.57		2602	6/22/2017	6/22/2017
1026	OL	40151200	6/16/2017	2017	6	ZI	9200070965	40	40.02		2602	6/16/2017	6/23/2017
1026	OL	40151200	6/12/2017	2017	6	ZI	9200070446	50	-51.69		2602	6/12/2017	6/9/2017
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1026	OL	40151200	6/12/2017	2017	6	ZI	9200070446	50	-813.28		2602	6/12/2017	6/9/2017
1026	OL	40151200	6/20/2017	2017	6	ZI	9200070753	50	-229.93		2602	6/20/2017	6/19/2017
1026	OL	40151200	6/20/2017	2017	6	ZI	9200070753	50	-896.74		2602	6/20/2017	6/19/2017
1026	OL	40151200	6/20/2017	2017	6	ZI	9200070753	50	-280.38		2602	6/20/2017	6/19/2017
1026	OL	40151200	6/26/2017	2017	6	ZI	9200070948	50	-62.53		2602	6/26/2017	6/23/2017
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1026	OL	40151200	6/1/2017	2017	6	ZI	9200070130	50	-34.36		2602	5/31/2017	5/31/2017
1026	OL	40151200	6/23/2017	2017	6	ZI	9200070901	50	-291.64		2602	6/23/2017	6/22/2017
1026	OL	40151200	6/23/2017	2017	6	ZI	9200070901	50	-2.39		2602	6/23/2017	6/22/2017
1026	OL	40151200	6/23/2017	2017	6	ZI	9200070901	50	-2.56		2602	6/23/2017	6/22/2017
1026	OL	40151200	6/12/2017	2017	6	ZI	9200070460	50	-2.28		2602	6/9/2017	6/9/2017
1026	OL	40151200	6/12/2017	2017	6	ZI	9200070460	50	-2.28		2602	6/9/2017	6/9/2017
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1026	OL	40151200	6/28/2017	2017	6	ZI	9200071071	50	-30.83		2602	6/27/2017	6/27/2017
1026	OL	40151200	6/28/2017	2017	6	ZI	9200071071	50	-45.63		2602	6/27/2017	6/27/2017
1026	OL	40151200	6/28/2017	2017	6	ZI	9200071071	50	-1,003.77		2602	6/27/2017	6/27/2017
1026	OL	40151200	6/8/2017	2017	6	ZI	9200070419	50	-124.03		2605	6/8/2017	6/8/2017
1026	OL	40151200	6/16/2017	2017	6	ZI	9200070662	50	-2,320.12		2602	6/15/2017	6/15/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40151200	6/15/2017	2017	6	ZI	9200070661	50	-1,537.86		2602	6/15/2017	6/15/2017
1026	OL	40151200	6/28/2017	2017	6	ZI	9200071037	50	-2.28		2602	6/28/2017	6/27/2017
1026	OL	40151200	6/28/2017	2017	6	ZI	9200071037	50	-21.61		2602	6/28/2017	6/27/2017
1026	OL	40151200	6/28/2017	2017	6	ZI	9200071037	50	-11.40		2602	6/28/2017	6/27/2017
1026	OL	40151200	6/28/2017	2017	6	ZI	9200071037	50	-763.31		2602	6/28/2017	6/27/2017
1026	OL	40151200	6/28/2017	2017	6	ZI	9200071065	40	21.61		2602	6/28/2017	6/27/2017
1026	OL	40151200	6/28/2017	2017	6	ZI	9200071121	50	-1,131.57		2602	6/28/2017	6/28/2017
1026	OL	40151200	6/29/2017	2017	6	ZI	9200071100	50	-43.12		2602	6/29/2017	6/28/2017
1026	OL	40151200	6/29/2017	2017	6	ZI	9200071100	50	-757.92		2602	6/29/2017	6/28/2017
1026	OL	40151200	6/29/2017	2017	6	ZI	9200071174	50	-776.45		2602	6/29/2017	6/29/2017
1026	OL	40151200	6/30/2017	2017	6	ZI	9200071157	50	-25.04		2602	6/30/2017	6/29/2017
1026	OL	40151200	6/30/2017	2017	6	ZI	9200071157	50	-2,450.77		2602	6/30/2017	6/29/2017
1026	OL	40151200	6/14/2017	2017	6	ZI	9200070542	50	-4.56		2602	6/14/2017	6/14/2017
1026	OL	40151200	6/14/2017	2017	6	ZI	9200070542	50	-229.77		2602	6/14/2017	6/14/2017
1026	OL	40151200	6/14/2017	2017	6	ZI	9200070542	50	-1,212.17		2602	6/14/2017	6/14/2017
1026	OL	40151200	6/14/2017	2017	6	ZI	9200070542	50	-202.30		2602	6/14/2017	6/14/2017
1026	OL	40151200	6/2/2017	2017	6	ZI	9200070157	50	-4.83		2602	6/2/2017	6/1/2017
1026	OL	40151200	6/2/2017	2017	6	ZI	9200070157	50	-64.70		2602	6/2/2017	6/1/2017
1026	OL	40151200	6/2/2017	2017	6	ZI	9200070157	50	-132.45		2602	6/2/2017	6/1/2017
1026	OL	40151200	6/2/2017	2017	6	ZI	9200070157	50	-17.70		2605	6/2/2017	6/1/2017
1026	OL	40151200	6/5/2017	2017	6	ZI	9200070799	40	71.49		2602	6/5/2017	6/20/2017
1026	OL	40151200	6/21/2017	2017	6	ZI	9200070815	50	-55.00		2602	6/20/2017	6/20/2017
1026	OL	40151200	6/21/2017	2017	6	ZI	9200070815	50	-1,229.77		2602	6/20/2017	6/20/2017
1026	OL	40151200	6/6/2017	2017	6	ZI	9200070256	50	-114.16		2605	6/6/2017	6/5/2017
1026	OL	40151200	6/6/2017	2017	6	ZI	9200070256	50	-104.50		2602	6/6/2017	6/5/2017
1026	OL	40151200	6/6/2017	2017	6	ZI	9200070256	50	-2.42		2602	6/6/2017	6/5/2017
1026	OL	40151200	6/6/2017	2017	6	ZI	9200070256	50	-6.37		2602	6/6/2017	6/5/2017
1026	OL	40151200	6/21/2017	2017	6	ZI	9200070775	50	-245.97		2602	6/21/2017	6/20/2017
1026	OL	40151200	6/21/2017	2017	6	ZI	9200070775	50	-506.58		2602	6/21/2017	6/20/2017
1026	OL	40151200	6/21/2017	2017	6	ZI	9200070775	50	-181.00		2602	6/21/2017	6/20/2017
1026	OL	40151200	6/21/2017	2017	6	ZI	9200070775	50	-56.51		2602	6/21/2017	6/20/2017
1026	OL	40151200	6/9/2017	2017	6	ZI	9200070409	40	33.19		2602	6/9/2017	6/8/2017
1026	OL	40151200	6/9/2017	2017	6	ZI	9200070409	50	-352.86		2602	6/9/2017	6/8/2017
1026	OL	40151200	6/9/2017	2017	6	ZI	9200070409	50	-366.80		2602	6/9/2017	6/8/2017
1026	OL	40151200	6/9/2017	2017	6	ZI	9200070409	40	26.53		2602	6/9/2017	6/8/2017
1026	OL	40151200	6/15/2017	2017	6	ZI	9200070592	50	-6,038.83		2602	6/15/2017	6/14/2017
1026	OL	40151200	6/15/2017	2017	6	ZI	9200070592	50	-6.37		2602	6/15/2017	6/14/2017
1026	OL	40151200	6/15/2017	2017	6	ZI	9200070592	50	-38.93		2602	6/15/2017	6/14/2017
1026	OL	40151200	6/16/2017	2017	6	ZI	9200070647	50	-1,084.94		2602	6/16/2017	6/15/2017
1026	OL	40151200	6/16/2017	2017	6	ZI	9200070647	50	-1,288.96		2602	6/16/2017	6/15/2017
1026	OL	40151200	6/16/2017	2017	6	ZI	9200070647	50	-145.73		2602	6/16/2017	6/15/2017
1026	OL	40161200	6/29/2017	2017	6	ZI	9200071122	50	-24,465.43		2602	6/28/2017	6/28/2017
1026	OL	40161200	6/29/2017	2017	6	ZI	9200071167	40	24,465.43		2602	6/28/2017	6/29/2017
1026	OL	40161200	6/14/2017	2017	6	ZI	9200070558	50	-1,998.30		2602	6/13/2017	6/14/2017
1026	OL	40161200	6/29/2017	2017	6	ZI	9200071168	40	4,441.67		2602	6/29/2017	6/29/2017
1026	OL	40161200	6/30/2017	2017	6	ZI	9200071175	50	-3,952.91		2602	6/29/2017	6/29/2017
1026	OL	40161200	6/30/2017	2017	6	ZI	9200071175	50	-2,695.65		2602	6/29/2017	6/29/2017
1026	OL	40161200	6/21/2017	2017	6	ZI	9200070815	50	-4,666.98		2602	6/20/2017	6/20/2017
1026	OL	40161200	6/21/2017	2017	6	ZI	9200070775	50	-55.15		2602	6/21/2017	6/20/2017
1026	OL	40171100	6/19/2017	2017	6	ZI	9200070696	50	-39.80		2602	6/19/2017	6/16/2017
1026	OL	40171100	6/14/2017	2017	6	ZI	9200070542	50	-40.45		2602	6/14/2017	6/14/2017
1026	OL	40171100	6/16/2017	2017	6	ZI	9200070647	50	-44.81		2602	6/16/2017	6/15/2017
1026	OL	40121200	7/25/2017	2017	7	ZI	9200072027	40	3.66		2602	7/25/2017	7/25/2017
1026	OL	40121200	7/25/2017	2017	7	ZI	9200072027	40	4.17		2602	7/25/2017	7/25/2017
1026	OL	40121200	7/25/2017	2017	7	ZI	9200072027	40	13.00		2602	7/25/2017	7/25/2017
1026	OL	40121200	7/25/2017	2017	7	ZI	9200072027	40	1.97		2602	7/25/2017	7/25/2017
1026	OL	40121200	7/25/2017	2017	7	ZI	9200072027	40	3.14		2602	7/25/2017	7/25/2017
1026	OL	40121200	7/25/2017	2017	7	ZI	9200072027	40	514.09		2602	7/25/2017	7/25/2017
1026	OL	40121200	7/25/2017	2017	7	ZI	9200072027	40	145.77		2602	7/25/2017	7/25/2017
1026	OL	40121200	7/25/2017	2017	7	ZI	9200072027	40	13.98		2602	7/25/2017	7/25/2017
1026	OL	40121200	7/10/2017	2017	7	ZI	9200071501	40	23.23		2602	7/10/2017	7/11/2017
1026	OL	40121200	7/10/2017	2017	7	ZI	9200071501	40	11.77		2602	7/10/2017	7/11/2017
1026	OL	40121200	7/10/2017	2017	7	ZI	9200071501	40	57.93		2602	7/10/2017	7/11/2017
1026	OL	40121200	7/10/2017	2017	7	ZI	9200071501	40	12.43		2602	7/10/2017	7/11/2017
1026	OL	40121200	7/10/2017	2017	7	ZI	9200071501	40	10.97		2602	7/10/2017	7/11/2017
1026	OL	40121200	7/11/2017	2017	7	ZI	9200071502	40	152.74		2602	7/10/2017	7/11/2017
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1026	OL	40121200	7/3/2017	2017	7	ZI	9200071315	40	23.05		2602	7/3/2017	7/5/2017
1026	OL	40121200	7/18/2017	2017	7	ZI	9200071762	40	6.79		2602	7/18/2017	7/18/2017
1026	OL	40121200	7/12/2017	2017	7	ZI	9200071524	50	-90.34		2602	7/11/2017	7/11/2017
1026	OL	40121200	7/12/2017	2017	7	ZI	9200071524	50	-0.41		2602	7/11/2017	7/11/2017
1026	OL	40121200	7/12/2017	2017	7	ZI	9200071524	50	-4.98		2602	7/11/2017	7/11/2017
1026	OL	40121200	7/12/2017	2017	7	ZI	9200071524	50	-23.93		2602	7/11/2017	7/11/2017
1026	OL	40121200	7/12/2017	2017	7	ZI	9200071524	50	-2.88		2602	7/11/2017	7/11/2017
1026	OL	40121200	7/12/2017	2017	7	ZI	9200071524	50	-7.31		2602	7/11/2017	7/11/2017
1026	OL	40121200	7/12/2017	2017	7	ZI	9200071524	50	-14.73		2602	7/11/2017	7/11/2017
1026	OL	40121200	7/12/2017	2017	7	ZI	9200071524	50	-58.69		2602	7/11/2017	7/11/2017
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1026	OL	40121200	7/12/2017	2017	7	ZI	9200071750	40	2.56		2602	7/12/2017	7/18/2017
1026	OL	40121200	7/17/2017	2017	7	ZI	9200071751	40	53.20		2602	7/17/2017	7/18/2017
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1026	OL	40121200	7/17/2017	2017	7	ZI	9200071751	40	48.70		2602	7/17/2017	7/18/2017
1026	OL	40121200	7/18/2017	2017	7	ZI	9200072079	40	37.60		2602	7/18/2017	7/26/2017
1026	OL	40121200	7/26/2017	2017	7	ZI	9200072083	40	12.80		2602	7/26/2017	7/26/2017
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1026	OL	40121200	7/5/2017	2017	7	ZI	9200071328	50	-1.95		2602	7/3/2017	7/5/2017
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1026	OL	40121200	7/6/2017	2017	7	ZI	9200071323	50	-42.53		2602	7/5/2017	7/5/2017
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1026	OL	40121200	7/20/2017	2017	7	ZI	9200071813	50	-1,498.19		2602	7/20/2017	7/19/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	7/14/2017	2017	7	ZI	9200071661	40	26.02		2602	7/14/2017	7/14/2017
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1026	OL	40121200	7/27/2017	2017	7	ZI	9200072090	50	-72.29		2602	7/26/2017	7/26/2017
1026	OL	40121200	7/27/2017	2017	7	ZI	9200072090	50	-7.20		2602	7/26/2017	7/26/2017
1026	OL	40121200	7/27/2017	2017	7	ZI	9200072090	50	-36.58		2602	7/26/2017	7/26/2017
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1026	OL	40121200	7/27/2017	2017	7	ZI	9200072090	50	-20.87		2602	7/26/2017	7/26/2017
1026	OL	40121200	7/27/2017	2017	7	ZI	9200072090	50	-17.30		2602	7/26/2017	7/26/2017
1026	OL	40121200	7/27/2017	2017	7	ZI	9200072090	50	-15.35		2602	7/26/2017	7/26/2017
1026	OL	40121200	7/27/2017	2017	7	ZI	9200072090	50	-6.04		2602	7/26/2017	7/26/2017
1026	OL	40121200	7/27/2017	2017	7	ZI	9200072090	50	-9.02		2602	7/26/2017	7/26/2017
1026	OL	40121200	7/27/2017	2017	7	ZI	9200072090	50	-51.65		2602	7/26/2017	7/26/2017
1026	OL	40121200	7/27/2017	2017	7	ZI	9200072090	50	-6.04		2602	7/26/2017	7/26/2017
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1026	OL	40121200											

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	7/19/2017	2017	7	ZI	9200071770	50	-2.61		2602	7/18/2017	7/18/2017
1026	OL	40121200	7/19/2017	2017	7	ZI	9200071770	50	-1.87		2602	7/18/2017	7/18/2017
1026	OL	40121200	7/19/2017	2017	7	ZI	9200071770	50	-3.66		2602	7/18/2017	7/18/2017
1026	OL	40121200	7/19/2017	2017	7	ZI	9200071770	50	-2.50		2602	7/18/2017	7/18/2017
1026	OL	40121200	7/19/2017	2017	7	ZI	9200071770	50	-1.99		2602	7/18/2017	7/18/2017
1026	OL	40121200	7/25/2017	2017	7	ZI	9200071971	50	-514.09		2602	7/25/2017	7/24/2017
1026	OL	40121200	7/25/2017	2017	7	ZI	9200071971	50	-41.81		2602	7/25/2017	7/24/2017
1026	OL	40121200	7/25/2017	2017	7	ZI	9200071971	50	-14.06		2602	7/25/2017	7/24/2017
1026	OL	40121200	7/25/2017	2017	7	ZI	9200071971	50	-2.77		2602	7/25/2017	7/24/2017
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1026	OL	40121200	7/25/2017	2017	7	ZI	9200071971	50	-494.02		2602	7/25/2017	7/24/2017
1026	OL	40121200	7/25/2017	2017	7	ZI	9200071971	50	-321.96		2602	7/25/2017	7/24/2017
1026	OL	40121200	7/25/2017	2017	7	ZI	9200071971	50	-4,882.48		2602	7/25/2017	7/24/2017
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1026	OL	40121200	7/26/2017	2017	7	ZI	9200071994	50	-5,761.97		2602	7/26/2017	7/25/2017
1026	OL	40121200	7/26/2017	2017	7	ZI	9200071994	50	-61.61		2602	7/26/2017	7/25/2017
1026	OL	40121200	7/26/2017	2017	7	ZI	9200071994	50	-2,069.89		2602	7/26/2017	7/25/2017
1026	OL	40121200	7/26/2017	2017	7	ZI	9200071994	50	-503.62		2602	7/26/2017	7/25/2017
1026	OL	40121200	7/5/2017	2017	7	ZI	9200071329	50	-5.74		2602	7/3/2017	7/5/2017
1026	OL	40121200	7/5/2017	2017	7	ZI	9200071329	50	-6.79		2602	7/3/2017	7/5/2017
1026	OL	40121200	7/21/2017	2017	7	ZI	9200071885	50	-18.97		2602	7/20/2017	7/20/2017
1026	OL	40121200	7/21/2017	2017	7	ZI	9200071885	50	-5.10		2602	7/20/2017	7/20/2017
1026	OL	40121200	7/21/2017	2017	7	ZI	9200071885	50	-59.87		2602	7/20/2017	7/20/2017
1026	OL	40121200	7/21/2017	2017	7	ZI	9200071885	50	-2.61		2602	7/20/2017	7/20/2017
1026	OL	40121200	7/21/2017	2017	7	ZI	9200071885	50	-2.58		2602	7/20/2017	7/20/2017
1026	OL	40121200	7/21/2017	2017	7	ZI	9200071885	50	-2.58		2602	7/20/2017	7/20/2017
1026	OL	40121200	7/18/2017	2017	7	ZI	9200071713	50	-495.68		2602	7/18/2017	7/17/2017
1026	OL	40121200	7/18/2017	2017	7	ZI	9200071713	50	-48.04		2602	7/18/2017	7/17/2017
1026	OL	40121200	7/18/2017	2017	7	ZI	9200071713	50	-3,131.04		2602	7/18/2017	7/17/2017
1026	OL	40121200	7/18/2017	2017	7	ZI	9200071713	50	-68.90		2602	7/18/2017	7/17/2017
1026	OL	40121200	7/18/2017	2017	7	ZI	9200071713	50	-861.89		2602	7/18/2017	7/17/2017
1026	OL	40121200	7/18/2017	2017	7	ZI	9200071713	50	-4.17		2602	7/18/2017	7/17/2017
1026	OL	40121200	7/18/2017	2017	7	ZI	9200071713	50	-21,385.81		2602	7/18/2017	7/17/2017
1026	OL	40121200	7/18/2017	2017	7	ZI	9200071713	40	23.62		2602	7/18/2017	7/17/2017
1026	OL	40121200	7/18/2017	2017	7	ZI	9200071713	40	3.16		2602	7/18/2017	7/17/2017
1026	OL	40121200	7/18/2017	2017	7	ZI	9200071713	50	-53.20		2602	7/18/2017	7/17/2017
1026	OL	40121200	7/18/2017	2017	7	ZI	9200071713	50	-8.87		2602	7/18/2017	7/17/2017
1026	OL	40121200	7/18/2017	2017	7	ZI	9200071713	40	0.59		2602	7/18/2017	7/17/2017
1026	OL	40121200	7/18/2017	2017	7	ZI	9200071713	50	-0.41		2602	7/18/2017	7/17/2017
1026	OL	40121200	7/11/2017	2017	7	ZI	9200071466	50	-130.15		2605	7/11/2017	7/10/2017
1026	OL	40121200	7/11/2017	2017	7	ZI	9200071466	50	-2,829.45		2602	7/11/2017	7/10/2017
1026	OL	40121200	7/11/2017	2017	7	ZI	9200071466	50	-6,881.21		2602	7/11/2017	7/10/2017
1026	OL	40121200	7/11/2017	2017	7	ZI	9200071466	50	-3.26		2605	7/11/2017	7/10/2017
1026	OL	40121200	7/11/2017	2017	7	ZI	9200071466	40	1.37		2602	7/11/2017	7/10/2017
1026	OL	40121200	7/11/2017	2017	7	ZI	9200071466	50	-2.49		2602	7/11/2017	7/10/2017
1026	OL	40121200	7/11/2017	2017	7	ZI	9200071466	40	9.68		2602	7/11/2017	7/10/2017
1026	OL	40121200	7/11/2017	2017	7	ZI	9200071466	40	47.87		2602	7/11/2017	7/10/2017
1026	OL	40121200	7/11/2017	2017	7	ZI	9200071466	50	-50.25		2602	7/11/2017	7/10/2017
1026	OL	40121200	7/11/2017	2017	7	ZI	9200071466	40	16.54		2602	7/11/2017	7/10/2017
1026	OL	40121200	7/11/2017	2017	7	ZI	9200071466	40	29.77		2602	7/11/2017	7/10/2017
1026	OL	40121200	7/11/2017	2017	7	ZI	9200071466	50	-91.10		2602	7/11/2017	7/10/2017
1026	OL	40121200	7/11/2017	2017	7	ZI	9200071466	50	-111.01		2605	7/11/2017	7/10/2017
1026	OL	40121200	7/17/2017	2017	7	ZI	9200071768	50	-2.55		2602	7/18/2017	7/18/2017
1026	OL	40121200	7/7/2017	2017	7	ZI	9200071377	50	-51.03		2602	7/6/2017	7/6/2017
1026	OL	40121200	7/20/2017	2017	7	ZI	9200071884	50	-1.88		2602	7/20/2017	7/20/2017
1026	OL	40121200	7/24/2017	2017	7	ZI	9200071935	50	-13.98		2602	7/21/2017	7/21/2017
1026	OL	40121200	7/24/2017	2017	7	ZI	9200071935	50	-2.49		2602	7/21/2017	7/21/2017
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1026	OL	40121200	7/17/2017	2017	7	ZI	9200071933	50	-2.52		2602	7/21/2017	7/21/2017
1026	OL	40121200	7/17/2017	2017	7	ZI	9200071933	50	-2.52		2602	7/21/2017	7/21/2017
1026	OL	40121200	7/21/2017	2017	7	ZI	9200071926	40	3.38		2602	7/21/2017	7/21/2017
1026	OL	40121200	7/20/2017	2017	7	ZI	9200071831	50	-2.49		2602	7/19/2017	7/19/2017
1026	OL	40121200	7/20/2017	2017	7	ZI	9200071831	50	-6.95		2602	7/19/2017	7/19/2017
1026	OL	40121200	7/20/2017	2017	7	ZI	9200071831	50	-0.41		2602	7/19/2017	7/19/2017
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1026	OL	40121200	7/20/2017	2017	7	ZI	9200071831	50	-408.31		2602	7/19/2017	7/19/2017
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1026	OL	40121200	7/20/2017	2017	7	ZI	9200071831	40	0.06		2602	7/19/2017	7/19/2017
1026	OL	40121200	7/27/2017	2017	7	ZI	9200072065	50	-128.08		2602	7/27/2017	7/26/2017
1026	OL	40121200	7/27/2017	2017	7	ZI	9200072065	50	-112.31		2602	7/27/2017	7/26/2017
1026	OL	40121200	7/27/2017	2017	7	ZI	9200072065	50	-3,106.86		2602	7/27/2017	7/26/2017
1026	OL	40121200	7/27/2017	2017	7	ZI	9200072065	50	-24.32		2602	7/27/2017	7/26/2017
1026	OL	40121200	7/27/2017	2017	7	ZI	9200072065	40	6.82		2602	7/27/2017	7/26/2017
1026	OL	40121200	7/27/2017	2017	7	ZI	9200072065	50	-2.49		2602	7/27/2017	7/26/2017
1026	OL	40121200	7/27/2017	2017	7	ZI	9200072065	40	0.01		2602	7/27/2017	7/26/2017
1026	OL	40121200	7/3/2017	2017	7	ZI	9200071227	50	-15.60		2602	6/30/2017	6/30/2017
1026	OL	40121200	7/3/2017	2017	7	ZI	9200071227	50	-15.60		2602	6/30/2017	6/30/2017
1026	OL	40121200	7/3/2017	2017	7	ZI	9200071227	50	-18.20		2602	6/30/2017	6/30/2017
1026	OL	40121200	7/13/2017	2017	7	ZI	9200071581	50	-3.59		2602	7/12/2017	7/12/2017
1026	OL	40121200	7/13/2017	2017	7	ZI	9200071581	50	-2.84		2602	7/12/2017	7/12/2017
1026	OL	40121200	7/3/2017	2017	7	ZI	9200071203	50	-511.79		2602	7/3/2017	6/30/2017
1026	OL	40121200	7/3/2017	2017	7	ZI	9200071203	50	-285.53		2602	7/3/2017	6/30/2017
1026	OL	40121200	7/3/2017	2017	7	ZI	9200071203	50	-200.22		2602	7/3/2017	6/30/2017
1026	OL	40121200	7/13/2017	2017	7	ZI	9200071564	40	85.35		2602	7/13/2017	7/12/2017
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1026	OL	40121200											

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	7/14/2017	2017	7	ZJ	9200071671	50	-2.75		2602	7/14/2017	7/14/2017
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1026	OL	40121200	7/17/2017	2017	7	ZJ	9200071673	50	-9.81		2602	7/14/2017	7/14/2017
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1026	OL	40121200	7/17/2017	2017	7	ZJ	9200071673	50	-19.36		2602	7/14/2017	7/14/2017
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1026	OL	40121200	7/17/2017	2017	7	ZJ	9200071673	50	-1.93		2602	7/14/2017	7/14/2017
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1026	OL	40121200	7/17/2017	2017	7	ZJ	9200071673	50	-19.56		2602	7/14/2017	7/14/2017
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1026	OL	40121200	7/17/2017	2017	7	ZJ	9200071673	50	-22.31		2602	7/14/2017	7/14/2017
1026	OL	40121200	7/17/2017	2017	7	ZJ	9200071673	50	-20.14		2602	7/14/2017	7/14/2017
1026	OL	40121200	7/17/2017	2017	7	ZJ	9200071673	50	-18.58		2602	7/14/2017	7/14/2017
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1026	OL	40121200	7/17/2017	2017	7	ZJ	9200071673	50	-15.21		2602	7/14/2017	7/14/2017
1026	OL	40121200	7/17/2017	2017	7	ZJ	9200071673	50	-1.78		2602	7/14/2017	7/14/2017
1026	OL	40121200	7/17/2017	2017	7	ZJ	9200071673	50	-27.58		2602	7/14/2017	7/14/2017
1026	OL	40121200	7/17/2017	2017	7	ZJ	9200071673	50	-1.78		2602	7/14/2017	7/14/2017
1026	OL	40121200	7/17/2017	2017	7	ZJ	9200071673	50	-1.81		2602	7/14/2017	7/14/2017
1026	OL	40121200	7/17/2017	2017	7	ZJ	9200071673	50	-1.81		2602	7/14/2017	7/14/2017
1026	OL	40121200	7/17/2017	2017	7	ZJ	9200071673	50	-10.03		2602	7/14/2017	7/14/2017
1026	OL	40121200	7/17/2017	2017	7	ZJ	9200071673	50	-10.03		2602	7/14/2017	7/14/2017
1026	OL	40121200	7/17/2017	2017	7	ZJ	9200071673	50	-1.81		2602	7/14/2017	7/14/2017
1026	OL	40121200	7/17/2017	2017	7	ZJ	9200071673	50	-1.81		2602	7/14/2017	7/14/2017
1026	OL	40121200	7/17/2017	2017	7	ZJ	9200071673	50	-1.73		2602	7/14/2017	7/14/2017
1026	OL	40121200	7/17/2017	2017	7	ZJ	9200071673	50	-1.25		2602	7/14/2017	7/14/2017
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1026	OL	40121200	7/17/2017	2017	7	ZJ	9200071673	50	-4.96		2602	7/14/2017	7/14/2017
1026	OL	40121200	7/17/2017	2017	7	ZJ	9200071673	50	-19.61		2602	7/14/2017	7/14/2017
1026	OL	40121200	7/17/2017	2017	7	ZJ	9200071673	50	-1.73		2602	7/14/2017	7/14/2017
1026	OL	40121200	7/17/2017	2017	7	ZJ	9200071673	50	-10.32		2602	7/14/2017	7/14/2017
1026	OL	40121200	7/17/2017	2017	7	ZJ	9200071673	50	-10.66		2602	7/14/2017	7/14/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40151200	7/6/2017	2017	7	ZI	9200071302	50	-166.04		2602	7/6/2017	7/5/2017
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1026	OL	40151200	7/3/2017	2017	7	ZI	9200071227	50	-27.19		2602	6/30/2017	6/30/2017
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1026	OL	40121200	8/1/2017	2017	8	ZI	9200072243	50	-83.48		2602	7/31/2017	8/1/2017
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1026	OL	40121200	8/2/2017	2017	8	ZI	9200072279	50	-106.94		2602	8/2/2017	8/1/2017
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1026	OL	40121200	8/1/2017	2017	8	ZI	9200072281	40	83.54		2602	8/1/2017	8/1/2017
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1026	OL	40121200	8/2/2017	2017	8	ZI	9200072289	50	-1.87		2602	8/1/2017	8/1/2017
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1026	OL	40121200	8/2/2017	2017	8	ZI	9200072289	40	4.81		2602	8/1/2017	8/1/2017
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1026	OL	40121200	8/3/2017	2017	8	ZI	9200072344	50	-167.47		2602	8/3/2017	8/2/2017
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1026	OL	40121200	8/3/2017	2017	8	ZI	9200072352	50	-163.94		2602	8/2/2017	8/2/2017
1026	OL	40121200	8/3/2017	2017	8	ZI	9200072352	50	-262.94		2602	8/2/2017	8/2/2017
1026	OL	40121200	8/3/2017	2017	8	ZI	9200072352	50	-0.25		2602	8/2/2017	8/2/2017
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1026	OL	40121200	8/4/2017	2017	8	ZI	9200072402	50	-59.39		2602	8/4/2017	8/3/2017
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1026	OL	40121200	8/7/2017	2017	8	ZI	9200072476	50	-15.39		2602	8/7/2017	8/4/2017
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1026	OL	40121200	8/7/2017	2017	8	ZI	9200072491	50	-5.04		2602	8/4/2017	8/4/2017
1026	OL	40121200	8/7/2017	2017	8	ZI	9200072491	50	-10.20		2602	8/4/2017	8/4/2017
1026	OL	40121200	8/7/2017	2017	8	ZI	9200072491	50	-10.72		2602	8/4/2017	8/4/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	8/18/2017	2017	8	ZI	9200073163	40	44.97		2602	8/18/2017	8/22/2017
1026	OL	40121200	8/22/2017	2017	8	ZI	9200073164	40	23.32		2602	8/21/2017	8/22/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	8/23/2017	2017	8	ZI	9200073176	50	-126.70		2602	8/22/2017	8/22/2017
1026	OL	40121200	8/23/2017	2017	8	ZI	9200073176	40	1.17		2602	8/22/2017	8/22/2017
1026	OL	40121200	8/23/2017	2017	8	ZI	9200073176	50	-21.33		2602	8/22/2017	8/22/2017
1026	OL	40121200	8/23/2017	2017	8	ZI	9200073176	50	-543.50		2602	8/22/2017	8/22/2017
1026	OL	40121200	8/23/2017	2017	8	ZI	9200073176	50	-111.48		2602	8/22/2017	8/22/2017
1026	OL	40121200	8/23/2017	2017	8	ZI	9200073176	50	-2.49		2602	8/22/2017	8/22/2017
1026	OL	40121200	8/23/2017	2017	8	ZI	9200073176	50	-120.97		2602	8/22/2017	8/22/2017
1026	OL	40121200	8/23/2017	2017	8	ZI	9200073176	50	-207.65		2602	8/22/2017	8/22/2017
1026	OL	40121200	8/23/2017	2017	8	ZI	9200073176	50	-130.28		2602	8/22/2017	8/22/2017
1026	OL	40121200	8/22/2017	2017	8	ZI	9200073178	50	-32.91		2602	8/21/2017	8/22/2017
1026	OL	40121200	8/24/2017	2017	8	ZI	9200073205	50	-8,492.94		2602	8/24/2017	8/23/2017
1026	OL	40121200	8/24/2017	2017	8	ZI	9200073205	50	-22.33		2602	8/24/2017	8/23/2017
1026	OL	40121200	8/24/2017	2017	8	ZI	9200073205	50	-22.31		2602	8/24/2017	8/23/2017
1026	OL	40121200	8/24/2017	2017	8	ZI	9200073205	50	-2,558.32		2602	8/24/2017	8/23/2017
1026	OL	40121200	8/24/2017	2017	8	ZI	9200073205	40	0.05		2602	8/24/2017	8/23/2017
1026	OL	40121200	8/24/2017	2017	8	ZI	9200073205	50	-2.61		2602	8/24/2017	8/23/2017
1026	OL	40121200	8/24/2017	2017	8	ZI	9200073205	40	1.17		2602	8/24/2017	8/23/2017
1026	OL	40121200	8/24/2017	2017	8	ZI	9200073205	50	-45.41		2602	8/24/2017	8/23/2017
1026	OL	40121200	8/24/2017	2017	8	ZI	9200073205	50	-2.49		2602	8/24/2017	8/23/2017
1026	OL	40121200	8/24/2017	2017	8	ZI	9200073205	50	-0.03		2602	8/24/2017	8/23/2017
1026	OL	40121200	8/23/2017	2017	8	ZI	9200073223	40	22.24		2602	8/23/2017	8/23/2017
1026	OL	40121200	8/23/2017	2017	8	ZI	9200073223	40	22.24		2602	8/23/2017	8/23/2017
1026	OL	40121200	8/24/2017	2017	8	ZI	9200073226	50	-41.74		2602	8/23/2017	8/23/2017
1026	OL	40121200	8/24/2017	2017	8	ZI	9200073226	50	-2.75		2602	8/23/2017	8/23/2017
1026	OL	40121200	8/24/2017	2017	8	ZI	9200073226	50	-32.02		2602	8/23/2017	8/23/2017
1026	OL	40121200	8/24/2017	2017	8	ZI	9200073226	50	-0.64		2602	8/23/2017	8/23/2017
1026	OL	40121200	8/24/2017	2017	8	ZI	9200073226	50	-3.14		2602	8/23/2017	8/23/2017
1026	OL	40121200	8/25/2017	2017	8	ZI	9200073260	40	1.68		2602	8/25/2017	8/24/2017
1026	OL	40121200	8/25/2017	2017	8	ZI	9200073260	40	1.68		2602	8/25/2017	8/24/2017
1026	OL	40121200	8/25/2017	2017	8	ZI	9200073260	50	-29.76		2602	8/25/2017	8/24/2017
1026	OL	40121200	8/25/2017	2017	8	ZI	9200073260	50	-288.25		2602	8/25/2017	8/24/2017
1026	OL	40121200	8/25/2017	2017	8	ZI	9200073260	50	-0.03		2602	8/25/2017	8/24/2017
1026	OL	40121200	8/25/2017	2017	8	ZI	9200073260	50	-3,468.95		2602	8/25/2017	8/24/2017
1026	OL	40121200	8/25/2017	2017	8	ZI	9200073260	50	-505.28		2602	8/25/2017	8/24/2017
1026	OL	40121200	8/25/2017	2017	8	ZI	9200073260	50	-747.03		2602	8/25/2017	8/24/2017
1026	OL	40121200	8/25/2017	2017	8	ZI	9200073260	40	0.06		2602	8/25/2017	8/24/2017
1026	OL	40121200	8/23/2017	2017	8	ZI	9200073269	40	543.50		2602	8/22/2017	8/24/2017
1026	OL	40121200	8/24/2017	2017	8	ZI	9200073270	40	262.20		2602	8/24/2017	8/24/2017
1026	OL	40121200	8/24/2017	2017	8	ZI	9200073280	50	-680.57		2602	8/24/2017	8/24/2017
1026	OL	40121200	8/24/2017	2017	8	ZI	9200073280	50	-1,091.67		2602	8/24/2017	8/24/2017
1026	OL	40121200	8/24/2017	2017	8	ZI	9200073280	50	-0.41		2602	8/24/2017	8/24/2017
1026	OL	40121200	8/24/2017	2017	8	ZI	9200073280	50	-886.23		2602	8/24/2017	8/24/2017
1026	OL	40121200	8/25/2017	2017	8	ZI	9200073281	50	-51.97		2602	8/24/2017	8/24/2017
1026	OL	40121200	8/28/2017	2017	8	ZI	9200073311	40	1.08		2602	8/28/2017	8/25/2017
1026	OL	40121200	8/28/2017	2017	8	ZI	9200073311	40	1.65		2602	8/28/2017	8/25/2017
1026	OL	40121200	8/28/2017	2017	8	ZI	9200073311	50	-0.53		2602	8/28/2017	8/25/2017
1026	OL	40121200	8/28/2017	2017	8	ZI	9200073311	50	-227.49		2602	8/28/2017	8/25/2017
1026	OL	40121200	8/28/2017	2017	8	ZI	9200073311	50	-3,696.85		2602	8/28/2017	8/25/2017
1026	OL	40121200	8/28/2017	2017	8	ZI	9200073311	50	-2.37		2605	8/28/2017	8/25/2017
1026	OL	40121200	8/28/2017	2017	8	ZI	9200073311	50	-893.39		2602	8/28/2017	8/25/2017
1026	OL	40121200	8/28/2017	2017	8	ZI	9200073311	40	4.24		2602	8/28/2017	8/25/2017
1026	OL	40121200	8/28/2017	2017	8	ZI	9200073311	40	0.06		2602	8/28/2017	8/25/2017
1026	OL	40121200	8/28/2017	2017	8	ZI	9200073311	50	-130.07		2602	8/28/2017	8/25/2017
1026	OL	40121200	8/28/2017	2017	8	ZI	9200073311	50	-4.75		2602	8/28/2017	8/25/2017
1026	OL	40121200	8/25/2017	2017	8	ZI	9200073317	40	26.71		2602	8/25/2017	8/25/2017
1026	OL	40121200	8/3/2017	2017	8	ZI	9200073319	40	4.75		2602	8/3/2017	8/25/2017
1026	OL	40121200	8/24/2017	2017	8	ZI	9200073330	50	-18.41		2602	8/25/2017	8/25/2017
1026	OL	40121200	8/26/2017	2017	8	ZI	9200073332	50	-87.75		2602	8/25/2017	8/25/2017
1026	OL	40121200	8/26/2017	2017	8	ZI	9200073332	50	-9.50		2602	8/25/2017	8/25/2017
1026	OL	40121200	8/26/2017	2017	8	ZI	9200073332	50	-25.68		2602	8/25/2017	8/25/2017
1026	OL	40121200	8/26/2017	2017	8	ZI	9200073332	50	-4.30		2602	8/25/2017	8/25/2017
1026	OL	40121200	8/28/2017	2017	8	ZI	9200073334	50	-23.01		2602	8/25/2017	8/25/2017
1026	OL	40121200	8/28/2017	2017	8	ZI	9200073334	40	0.62		2602	8/25/2017	8/25/2017
1026	OL	40121200	8/23/2017	2017	8	ZI	9200073343	40	10.67		2602	8/23/2017	8/28/2017
1026	OL	40121200	8/24/2017	2017	8	ZI	9200073344	40	26.35		2602	8/24/2017	8/28/2017
1026	OL	40121200	8/28/2017	2017	8	ZI	9200073345	40	41.01		2602	8/28/2017	8/28/2017
1026	OL	40121200	8/28/2017	2017	8	ZI	9200073345	40	14.94		2602	8/28/2017	8/28/2017
1026	OL	40121200	8/29/2017	2017	8	ZI	9200073366	50	-74.71		2602	8/29/2017	8/28/2017
1026	OL	40121200	8/29/2017	2017	8	ZI	9200073366	50	-46.07		2602	8/29/2017	8/28/2017
1026	OL	40121200	8/29/2017	2017	8	ZI	9200073366	50	-14.94		2602	8/29/2017	8/28/2017
1026	OL	40121200	8/29/2017	2017	8	ZI	9200073366	50	-579.29		2602	8/29/2017	8/28/2017
1026	OL	40121200	8/29/2017	2017	8	ZI	9200073366	50	-11.82		2602	8/29/2017	8/28/2017
1026	OL	40121200	8/29/2017	2017	8	ZI	9200073366	50	-14.94		2602	8/29/2017	8/28/2017
1026	OL	40121200	8/29/2017	2017	8	ZI	9200073366	50	-111.42		2602	8/29/2017	8/28/2017
1026	OL	40121200	8/29/2017	2017	8	ZI	9200073366	50	-0.08		2602	8/29/2017	8/28/2017
1026	OL	40121200	8/29/2017	2017	8	ZI	9200073366	50	-6,966.87		2602	8/29/2017	8/28/2017
1026	OL	40121200	8/29/2017	2017	8	ZI	9200073366	50	-12.07		2602	8/29/2017	8/28/2017
1026	OL	40121200	8/29/2017	2017	8	ZI	9200073366	40	7.63		2602	8/29/2017	8/28/2017
1026	OL	40121200	8/29/2017	2017	8	ZI	9200073366	50	-94.14		2602	8/29/2017	8/28/2017
1026	OL	40121200	8/29/2017	2017	8	ZI	9200073366	40	17.32		2602	8/29/2017	8/28/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073399	50	-296.91		2602	8/30/2017	8/29/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073399	50	-14.79		2602	8/30/2017	8/29/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073399	50	-118.68		2602	8/30/2017	8/29/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073399	50	-7.05		2602	8/30/2017	8/29/2017
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1026													

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	8/29/2017	2017	8	ZI	9200073425	40	51.56		2602	8/29/2017	8/29/2017
1026	OL	40121200	8/29/2017	2017	8	ZI	9200073425	40	17.73		2602	8/29/2017	8/29/2017
1026	OL	40121200	8/29/2017	2017	8	ZI	9200073425	40	2.55		2602	8/29/2017	8/29/2017
1026	OL	40121200	8/29/2017	2017	8	ZI	9200073428	50	-13.86		2602	8/29/2017	8/29/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073429	50	-2.58		2602	8/29/2017	8/29/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073429	50	-378.00		2602	8/29/2017	8/29/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073429	50	-288.55		2602	8/29/2017	8/29/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073429	50	-194.18		2602	8/29/2017	8/29/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073429	50	-15.18		2602	8/29/2017	8/29/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073429	50	-1.37		2602	8/29/2017	8/29/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073429	50	-211.71		2602	8/29/2017	8/29/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073429	50	-59.51		2602	8/29/2017	8/29/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073429	50	-2.55		2602	8/29/2017	8/29/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073429	50	-217.93		2602	8/29/2017	8/29/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073429	50	-51.03		2602	8/29/2017	8/29/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073429	50	-2.52		2602	8/29/2017	8/29/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073429	50	-6.95		2602	8/29/2017	8/29/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073429	50	-287.35		2602	8/29/2017	8/29/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073429	50	-6.41		2602	8/29/2017	8/29/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073429	50	-192.10		2602	8/29/2017	8/29/2017
1026	OL	40121200	8/29/2017	2017	8	ZI	9200073435	50	-47.63		2602	8/28/2017	8/29/2017
1026	OL	40121200	8/29/2017	2017	8	ZI	9200073435	50	-22.24		2602	8/28/2017	8/29/2017
1026	OL	40121200	8/29/2017	2017	8	ZI	9200073435	50	-41.82		2602	8/28/2017	8/29/2017
1026	OL	40121200	8/29/2017	2017	8	ZI	9200073435	50	-37.31		2602	8/28/2017	8/29/2017
1026	OL	40121200	8/29/2017	2017	8	ZI	9200073435	50	-10.42		2602	8/28/2017	8/29/2017
1026	OL	40121200	8/29/2017	2017	8	ZI	9200073435	50	-11.96		2602	8/28/2017	8/29/2017
1026	OL	40121200	8/29/2017	2017	8	ZI	9200073435	50	-2.52		2602	8/28/2017	8/29/2017
1026	OL	40121200	8/31/2017	2017	8	ZI	9200073467	50	-62.72		2602	8/31/2017	8/30/2017
1026	OL	40121200	8/31/2017	2017	8	ZI	9200073467	50	-5,977.41		2602	8/31/2017	8/30/2017
1026	OL	40121200	8/31/2017	2017	8	ZI	9200073467	50	-309.76		2602	8/31/2017	8/30/2017
1026	OL	40121200	8/25/2017	2017	8	ZI	9200073487	40	0.82		2602	8/25/2017	8/30/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073489	40	2.14		2602	8/30/2017	8/30/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073489	40	2.04		2602	8/30/2017	8/30/2017
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1026	OL	40121200	8/30/2017	2017	8	ZI	9200073489	40	3.11		2602	8/30/2017	8/30/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073489	40	3.11		2602	8/30/2017	8/30/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073489	40	1.23		2602	8/30/2017	8/30/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073489	40	1.29		2602	8/30/2017	8/30/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073489	40	5.50		2602	8/30/2017	8/30/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073489	40	1.92		2602	8/30/2017	8/30/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073489	40	6.46		2602	8/30/2017	8/30/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073489	40	2.09		2602	8/30/2017	8/30/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073489	40	3.50		2602	8/30/2017	8/30/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073489	40	2.53		2602	8/30/2017	8/30/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073489	40	2.33		2602	8/30/2017	8/30/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073489	40	2.77		2602	8/30/2017	8/30/2017
1026	OL	40121200	8/30/2017	2017	8	ZI	9200073495	50	-1,051.10		2602	8/30/2017	8/31/2017
1026	OL	40121200	8/31/2017	2017	8	ZI	9200073496	50	-3.11		2602	8/30/2017	8/31/2017
1026	OL	40121200	8/31/2017	2017	8	ZI	9200073496	50	-2.09		2602	8/30/2017	8/31/2017
1026	OL	40121200	8/31/2017	2017	8	ZI	9200073496	50	-3.11		2602	8/30/2017	8/31/2017
1026	OL	40121200	8/31/2017	2017	8	ZI	9200073496	50	-2.52		2602	8/30/2017	8/31/2017
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1026	OL	40121200	8/31/2017	2017	8	ZI	9200073496	50	-1.54		2602	8/30/2017	8/31/2017
1026	OL	40121200	8/31/2017	2017	8	ZI	9200073496	50	-2.17		2602	8/30/2017	8/31/2017
1026	OL	40121200	8/31/2017	2017	8	ZI	9200073496	50	-1.92		2602	8/30/2017	8/31/2017
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1026	OL	40121200	8/31/2017	2017	8	ZI	9200073496	50	-3.50		2602	8/30/2017	8/31/2017
1026	OL	40121200	8/31/2017	2017	8	ZI	9200073496	50	-1.23		2602	8/30/2017	8/31/2017
1026	OL	40121200	8/31/2017	2017	8	ZI	9200073496	50	-2.55		2602	8/30/2017	8/31/2017
1026	OL	40121200	8/31/2017	2017	8	ZI	9200073496	50	-46.70		2602	8/30/2017	8/31/2017
1026	OL	40121200	8/31/2017	2017	8	ZI	9200073496	50	-1.29		2602	8/30/2017	8/31/2017
1026	OL	40121200	8/31/2017	2017	8	ZI	9200073496	50	-2.22		2602	8/30/2017	8/31/2017
1026	OL	40121200	8/31/2017	2017	8	ZI	9200073496	50	-1.97		2602	8/30/2017	8/31/2017
1026	OL	40121200	8/31/2017	2017	8	ZI	9200073496	50	-3.80		2602	8/30/2017	8/31/2017
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1026	OL	40131200	8/1/2017	2017	8	ZI	9200072231	50	-27.81		2602	8/1/2017	7/31/2017
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1026	OL	40131200	8/2/2017	2017	8	ZI	9200072289	50	-412.86		2602	8/1/2017	8/1/2017
1026	OL	40131200	8/3/2017	2017	8	ZI	9200072344	50	-20.61		2602	8/3/2017	8/2/2017
1026	OL	40131200	8/2/2017	2017	8	ZI	9200072351	50	-1,812.17		2602	8/2/2017	8/2/2017
1026	OL	40131200	8/3/2017	2017	8	ZI	9200072352	50	-4,767.92		2602	8/2/2017	8/2/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40131200	8/16/2017	2017	8	ZI	9200072889	50	-470.93		2602	8/16/2017	8/15/2017
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1026	OL	40131200	8/17/2017	2017	8	ZI	9200072952	50	-509.86		2602	8/17/2017	8/16/2017
1026	OL	40131200	8/18/2017	2017	8	ZI	9200073012	50	-1,013.90		2602	8/18/2017	8/17/2017
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1026	OL	40131200	8/18/2017	2017	8	ZI	9200073017	50	-10,622.89		2602	8/17/2017	8/17/2017
1026	OL	40131200	8/21/2017	2017	8	ZI	9200073061	50	-292.43		2602	8/21/2017	8/18/2017
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1026	OL	40131200	8/18/2017	2017	8	ZI	9200073072	50	-1,606.37		2602	8/18/2017	8/18/2017
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1026	OL	40131200	8/22/2017	2017	8	ZI	9200073115	50	-65.60		2602	8/22/2017	8/21/2017
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1026	OL	40131200	8/25/2017	2017	8	ZI	9200073260	50	-376.40		2602	8/25/2017	8/24/2017
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1026	OL	40131200	8/31/2017	2017	8	ZI	9200073467	50	-5.32		2602	8/31/2017	8/30/2017
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1026	OL	40131200	8/30/2017	2017	8	ZI	9200073489	40	1,258.77		2602	8/30/2017	8/30/2017
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1026	OL	40145200	8/4/2017	2017	8	ZI	9200072483	40	3.59		2602	8/4/2017	8/4/2017
1026	OL	40145200	8/4/2017	2017	8	ZI	9200072489	50	-3.59		2602	8/4/2017	8/4/2017
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1026	OL	40145200	8/9/2017	2017	8	ZI	9200072599	50	-0.60		2602	8/9/2017	8/8/2017
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1026	OL	40145200	8/8/2017	2017	8	ZI	9200072603	40	3.59		2602	8/8/2017	8/8/2017
1026	OL	40145200	8/15/2017	2017	8	ZI	9200072848	40	5.52		2602	8/15/2017	8/14/2017
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1026	OL	40145200	8/18/2017	2017	8	ZI	9200073012	40	44.76		2602	8/18/2017	8/17/2017
1026	OL	40145200	8/22/2017	2017	8	ZI	9200073115	40	176.16		2602	8/22/2017	8/21/2017
1026	OL	40145200	8/23/2017	2017	8	ZI	9200073140	40	44.70		2602	8/23/2017	8/22/2017
1026	OL	40145200	8/23/2017	2017	8	ZI	9200073140	50	-1.19		2602	8/23/2017	8/22/2017
1026	OL	40145200	8/24/2017	2017	8	ZI	9200073205	50	-0.60		2602	8/24/2017	8/23/2017
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1026	OL	40145200	8/31/2017	2017	8	ZI	9200073467	50	-1.19		2602	8/31/2017	8/30/2017
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1026	OL	40151200	8/7/2017	2017	8	ZI	9200072476	50	-116.66		2602	8/7/2017	8/4/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40151200	8/17/2017	2017	8	ZI	9200073016	50	-2,312.34		2602	8/17/2017	8/17/2017
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1026	OL	40151200	8/23/2017	2017	8	ZI	9200073140	50	-745.01		2602	8/23/2017	8/22/2017
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1026	OL	40151200	8/23/2017	2017	8	ZI	9200073176	50	-1.58		2602	8/22/2017	8/22/2017
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1026	OL												

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1026	OL	40121200	9/14/2017	2017	9	ZI	9200073876	40	7.31		2602	9/14/2017	9/14/2017
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1026	OL	40121200	9/20/2017	2017	9	ZI	9200073986	40	11.08		2602	9/20/2017	9/19/2017
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1026	OL	40121200	9/20/2017	2017	9	ZI	9200073986	50	-614.19		2602	9/20/2017	9/19/2017
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1026	OL	40121200	9/19/2017	2017	9	ZI	9200074004	50	-1.85		2602	9/19/2017	9/19/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	9/19/2017	2017	9	ZI	9200074004	50	-2.49		2602	9/19/2017	9/19/2017
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1026	OL	40121200	9/20/2017	2017	9	ZI	9200074005	50	-70.46		2602	9/19/2017	9/19/2017
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1026	OL	40121200	9/21/2017	2017	9	ZI	9200074039	50	-3,239.64		2602	9/21/2017	9/20/2017
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1026	OL	40121200	9/22/2017	2017	9	ZI	9200074088	50	-11.62		2603	9/22/2017	9/22/2017
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1026	OL	40121200	9/21/2017	2017	9	ZI	9200074104	40	2.58		2602	9/21/2017	9/22/2017
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1026	OL	40121200	9/21/2017	2017	9	ZI	9200074104	40	10.95		2602	9/21/2017	9/22/2017
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1026	OL	40121200	9/22/2017	2017	9	ZI	9200074156	50	-1.75		2602	9/22/2017	9/22/2017
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1026	OL												

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1026	OL	40145200	9/12/2017	2017	9	ZI	9200073756	50	-0.60		2602	9/12/2017	9/11/2017
1026	OL	40145200	9/12/2017	2017	9	ZI	9200073756	40	87.84		2602	9/12/2017	9/11/2017
1026	OL	40145200	9/12/2017	2017	9	ZI	9200073756	50	-2.39		2602	9/12/2017	9/11/2017
1026	OL	40145200	9/12/2017	2017	9	ZI	9200073756	40	88.14		2602	9/12/2017	9/11/2017
1026	OL	40145200	9/13/2017	2017	9	ZI	9200073785	40	87.76		2602	9/13/2017	9/12/2017
1026	OL	40145200	9/13/2017	2017	9	ZI	9200073785	40	45.60		2602	9/13/2017	9/12/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40151200	9/1/2017	2017	9	ZI	9200073527	50	-147.80		2602	9/1/2017	8/31/2017
1026	OL	40151200	9/1/2017	2017	9	ZI	9200073527	50	-94.42		2602	9/1/2017	8/31/2017
1026	OL	40151200	9/5/2017	2017	9	ZI	9200073565	50	-166.47		2602	9/5/2017	9/1/2017
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1026	OL	40151200	9/5/2017	2017	9	ZI	9200073565	50	-2.32		2602	9/5/2017	9/1/2017
1026	OL	40151200	9/6/2017	2017	9	ZI	9200073642	40	44.23		2602	9/6/2017	9/6/2017
1026	OL	40151200	9/6/2017	2017	9	ZI	9200073642	40	40.75		2602	9/6/2017	9/6/2017
1026	OL	40151200	9/7/2017	2017	9	ZI	9200073651	50	-182.03		2602	9/6/2017	9/6/2017
1026	OL	40151200	9/7/2017	2017	9	ZI	9200073651	50	-179.33		2602	9/6/2017	9/6/2017
1026	OL	40151200	9/7/2017	2017	9	ZI	9200073651	50	-2.97		2602	9/6/2017	9/6/2017
1026	OL	40151200	9/7/2017	2017	9	ZI	9200073651	50	-40.79		2602	9/6/2017	9/6/2017
1026	OL	40151200	9/7/2017	2017	9	ZI	9200073651	50	-42.56		2602	9/6/2017	9/6/2017
1026	OL	40151200	9/12/2017	2017	9	ZI	9200073756	50	-15.50		2605	9/12/2017	9/11/2017
1026	OL	40151200	9/12/2017	2017	9	ZI	9200073756	50	-248.23		2602	9/12/2017	9/11/2017
1026	OL	40151200	9/12/2017	2017	9	ZI	9200073756	50	-51.05		2605	9/12/2017	9/11/2017
1026	OL	40151200	9/12/2017	2017	9	ZI	9200073756	50	-356.16		2605	9/12/2017	9/11/2017
1026	OL	40151200	9/12/2017	2017	9	ZI	9200073756	50	-2.36		2602	9/12/2017	9/11/2017
1026	OL	40151200	9/12/2017	2017	9	ZI	9200073756	50	-234.71		2602	9/12/2017	9/11/2017
1026	OL	40151200	9/12/2017	2017	9	ZI	9200073756	50	-777.18		2602	9/12/2017	9/11/2017
1026	OL	40151200	9/12/2017	2017	9	ZI	9200073756	50	-656.92		2602	9/12/2017	9/11/2017
1026	OL	40151200	9/12/2017	2017	9	ZI	9200073756	50	-653.66		2602	9/12/2017	9/11/2017
1026	OL	40151200	9/13/2017	2017	9	ZI	9200073785	50	-380.27		2602	9/13/2017	9/12/2017
1026	OL	40151200	9/13/2017	2017	9	ZI	9200073785	50	-79.68		2602	9/13/2017	9/12/2017
1026	OL	40151200	9/13/2017	2017	9	ZI	9200073785	50	-6.43		2605	9/13/2017	9/12/2017
1026	OL	40151200	9/13/2017	2017	9	ZI	9200073785	50	-11.81		2605	9/13/2017	9/12/2017
1026	OL	40151200	9/14/2017	2017	9	ZI	9200073830	50	-1,094.97		2602	9/14/2017	9/13/2017
1026	OL	40151200	9/14/2017	2017	9	ZI	9200073830	50	-278.58		2602	9/14/2017	9/13/2017
1026	OL	40151200	9/14/2017	2017	9	ZI	9200073830	50	-3.44		2605	9/14/2017	9/13/2017
1026	OL	40151200	9/14/2017	2017	9	ZI	9200073830	50	-61.75		2602	9/14/2017	9/13/2017
1026	OL	40151200	9/14/2017	2017	9	ZI	9200073830	50	-20.57		2602	9/14/2017	9/13/2017
1026	OL	40151200	9/13/2017	2017	9	ZI	9200073839	40	2.32		2602	9/13/2017	9/13/2017
1026	OL	40151200	9/14/2017	2017	9	ZI	9200073843	50	-2.39		2602	9/13/2017	9/13/2017
1026	OL	40151200	9/14/2017	2017	9	ZI	9200073843	50	-2.28		2602	9/13/2017	9/13/2017
1026	OL	40151200	9/15/2017	2017	9	ZI	9200073865	50	-1,023.80		2602	9/15/2017	9/14/2017
1026	OL	40151200	9/15/2017	2017	9	ZI	9200073865	50	-82.75		2602	9/15/2017	9/14/2017
1026	OL	40151200	9/15/2017	2017	9	ZI	9200073865	50	-32.03		2602	9/15/2017	9/14/2017
1026	OL	40151200	9/18/2017	2017	9	ZI	9200073900	50	-419.91		2602	9/18/2017	9/16/2017
1026	OL	40151200	9/18/2017	2017	9	ZI	9200073900	50	-9.13		2602	9/18/2017	9/16/2017
1026	OL	40151200	9/18/2017	2017	9	ZI	9200073900	50	-2,541.93		2602	9/18/2017	9/16/2017
1026	OL	40151200	9/19/2017	2017	9	ZI	9200073949	50	-81.13		2602	9/19/2017	9/18/2017
1026	OL	40151200	9/19/2017	2017	9	ZI	9200073949	50	-6,072.82		2602	9/19/2017	9/18/2017
1026	OL	40151200	9/19/2017	2017	9	ZI	9200073949	50	-3,633.50		2602	9/19/2017	9/18/2017
1026	OL	40151200	9/19/2017	2017	9	ZI	9200073949	50	-355.14		2602	9/19/2017	9/18/2017
1026	OL	40151200	9/20/2017	2017	9	ZI	9200073986	50	-820.05		2602	9/20/2017	9/19/2017
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1026	OL	40151200	9/20/2017	2017	9	ZI	9200073986	50	-869.07		2602	9/20/2017	9/19/2017
1026	OL	40151200	9/20/2017	2017	9	ZI	9200073986	50	-1,266.08		2602	9/20/2017	9/19/2017
1026	OL	40151200	9/20/2017	2017	9	ZI	9200073986	50	-29.83		2602	9/20/2017	9/19/2017
1026	OL	40151200	9/20/2017	2017	9	ZI	9200073986	40	42.87		2602	9/20/2017	9/19/2017
1026	OL	40151200	9/19/2017	2017	9	ZI	9200074004	50	-715.18		2602	9/19/2017	9/19/2017
1026	OL	40151200	9/19/2017	2017	9	ZI	9200074004	50	-1,122.56		2602	9/19/2017	9/19/2017
1026	OL	40151200	9/21/2017	2017	9	ZI	9200074039	50	-824.12		2602	9/21/2017	9/20/2017
1026	OL	40151200	9/21/2017	2017	9	ZI	9200074039	50	-17.27		2602	9/21/2017	9/20/2017
1026	OL	40151200	9/21/2017	2017	9	ZI	9200074039	50	-236.26		2602	9/21/2017	9/20/2017
1026	OL	40151200	9/22/2017	2017	9	ZI	9200074088	50	-7.06		2602	9/22/2017	9/22/2017
1026	OL	40151200	9/22/2017	2017	9	ZI	9200074088	50	-216.99		2602	9/22/2017	9/22/2017
1026	OL	40151200	9/21/2017	2017	9	ZI	9200074106	50	-5,605.27		2602	9/21/2017	9/22/2017
1026	OL	40151200	9/21/2017	2017	9	ZI	9200074106	50	-724.27		2602	9/21/2017	9/22/2017
1026	OL	40151200	9/25/2017	2017	9	ZI	9200074140	50	-159.58		2602	9/25/2017	9/22/2017
1026	OL	40151200	9/25/2017	2017	9	ZI	9200074140	40	92.04		2602	9/25/2017	9/22/2017
1026	OL	40151200	9/25/2017	2017	9	ZI	9200074140	50	-23.43		2602	9/25/2017	9/22/2017
1026	OL	40151200	9/25/2017	2017	9	ZI	9200074140	50	-6.78		2602	9/25/2017	9/22/2017
1026	OL	40151200	9/25/2017	2017	9	ZI	9200074140	50	-31.21		2602	9/25/2017	9/22/2017
1026	OL	40151200	9/25/2017	2017	9	ZI	9200074140	50	-800.83		2602	9/25/2017	9/22/2017
1026	OL	40151200	9/25/2017	2017	9	ZI	9200074140	50	-381.89		2602	9/25/2017	9/22/2017
1026	OL	40151200	9/22/2017	2017	9	ZI	9200074149	40	6.48		2602	9/22/2017	9/22/2017
1026	OL	40151200	9/22/2017	2017	9	ZI	9200074149	40	6.40		2602	9/22/2017	9/22/2017
1026	OL	40151200	9/22/2017	2017	9	ZI	9200074149	40	6.40		2602	9/22/2017	9/22/2017
1026	OL	40151200	9/22/2017	2017	9	ZI	9200074149	40	6.67		2602	9/22/2017	9/22/2017
1026	OL	40151200	9/22/2017	2017	9	ZI	9200074149	40	6.44		2602	9/22/2017	9/22/2017
1026	OL	40151200	9/23/2017	2017	9	ZI	9200074157	50	-6.44		2602	9/22/2017	9/22/2017
1026	OL	40151200	9/23/2017	2017	9	ZI	9200074157	50	-6.40		2602	9/22/2017	9/22/2017
1026	OL	40151200	9/23/2017	2017	9	ZI	9200074157	50	-6.40		2602	9/22/2017	9/22/2017
1026	OL	40151200	9/23/2017	2017	9	ZI	9200074157	50	-616.39		2602	9/22/2017	9/22/2017
1026	OL	40151200	9/23/2017	2017	9	ZI	9200074157	50	-6.40		2602	9/22/2017	9/22/2017
1026	OL	40151200	9/23/2017	2017	9	ZI	9200074157	50	-6.67		2602	9/22/2017	9/22/2017
1026	OL	40151200	9/26/2017	2017	9	ZI	9200074197	50	-85.19		2602	9/26/2017	9/25/2017
1026	OL	40151200	9/26/2017	2017	9	ZI	9200074197	50	-115.28		2602	9/26/2017	9/25/2017
1026	OL	40151200	9/26/2017	2017	9	ZI	9200074197	50	-81.70		2602	9/26/2017	9/25/2017
1026	OL	40151200	9/26/2017	2017	9	ZI	9200074197	50	-7.90		2602	9/26/2017	9/25/2017
1026	OL	40151200	9/27/2017	2017	9	ZI	9200074222	50	-298.90		2602	9/27/2017	9/26/2017
1026	OL	40151200	9/27/2017	2017	9	ZI	9200074222	50	-838.10		2602	9/27/2017	9/26/2017
1026	OL	40151200	9/26/2017	2017	9	ZI	9200074238	40	4.52		2602	9/26/2017	9/26/2017
1026	OL	40151200	9/26/2017	2017	9	ZI	9200074245	50	-1,050.70		2602	9/26/2017	9/26/2017
1026	OL	40151200	9/27/2017	2017	9	ZI	9200074246	50	-4.07		2602	9/26/2017	9/26/2017
1026	OL	4											

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
1026	OL	40151200	9/27/2017	2017	9	ZI	9200074302	50	-3,052.28		2602	9/27/2017	9/27/2017
1026	OL	40151200	9/27/2017	2017	9	ZI	9200074302	50	-995.13		2602	9/27/2017	9/27/2017
1026	OL	40151200	9/29/2017	2017	9	ZI	9200074321	50	-982.94		2602	9/29/2017	9/28/2017
1026	OL	40151200	9/29/2017	2017	9	ZI	9200074321	50	-4.86		2602	9/29/2017	9/28/2017
1026	OL	40161200	9/7/2017	2017	9	ZI	9200073651	50	-4,459.75		2602	9/6/2017	9/6/2017
1026	OL	40161200	9/14/2017	2017	9	ZI	9200073804	50	-3,920.80		2602	9/12/2017	9/12/2017
1026	OL	40161200	9/22/2017	2017	9	ZI	9200074088	50	-58.73		2602	9/22/2017	9/22/2017
1026	OL	40161200	9/27/2017	2017	9	ZI	9200074246	50	-5,500.73		2602	9/26/2017	9/26/2017
1026	OL	40161200	9/29/2017	2017	9	ZI	9200074359	50	-6,147.43		2602	9/28/2017	9/28/2017
1026	OL	40171100	9/19/2017	2017	9	ZI	9200073949	50	-20.36		2602	9/19/2017	9/18/2017
1026	OL	40171100	9/19/2017	2017	9	ZI	9200073949	50	-45.96		2602	9/19/2017	9/18/2017
1026	OL	40171100	9/20/2017	2017	9	ZI	9200073986	50	-73.64		2602	9/20/2017	9/19/2017
1026	OL	40121200	10/2/2017	2017	10	ZI	9200074383	50	-1,013.28		2602	10/2/2017	9/29/2017
1026	OL	40121200	10/2/2017	2017	10	ZI	9200074383	50	-43.21		2602	10/2/2017	9/29/2017
1026	OL	40121200	10/2/2017	2017	10	ZI	9200074383	50	-60.12		2602	10/2/2017	9/29/2017
1026	OL	40121200	10/2/2017	2017	10	ZI	9200074383	50	-60.33		2602	10/2/2017	9/29/2017
1026	OL	40121200	10/2/2017	2017	10	ZI	9200074383	50	-69.17		2602	10/2/2017	9/29/2017
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1026	OL	40121200	10/2/2017	2017	10	ZI	9200074383	40	27.99		2602	10/2/2017	9/29/2017
1026	OL	40121200	10/2/2017	2017	10	ZI	9200074383	40	0.20		2602	10/2/2017	9/29/2017
1026	OL	40121200	10/2/2017	2017	10	ZI	9200074383	50	-1.92		2602	10/2/2017	9/29/2017
1026	OL	40121200	10/3/2017	2017	10	ZI	9200074440	50	-12.61		2602	10/3/2017	10/2/2017
1026	OL	40121200	10/3/2017	2017	10	ZI	9200074440	40	20.65		2602	10/3/2017	10/2/2017
1026	OL	40121200	10/3/2017	2017	10	ZI	9200074440	40	12.21		2602	10/3/2017	10/2/2017
1026	OL	40121200	10/3/2017	2017	10	ZI	9200074440	50	-1.04		2602	10/3/2017	10/2/2017
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1026	OL	40121200	10/3/2017	2017	10	ZI	9200074440	50	-1,749.47		2602	10/3/2017	10/2/2017
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1026	OL	40121200	10/3/2017	2017	10	ZI	9200074440	40	3.94		2602	10/3/2017	10/2/2017
1026	OL	40121200	10/3/2017	2017	10	ZI	9200074440	50	-43.69		2602	10/3/2017	10/2/2017
1026	OL	40121200	10/3/2017	2017	10	ZI	9200074440	40	55.18		2602	10/3/2017	10/2/2017
1026	OL	40121200	10/3/2017	2017	10	ZI	9200074440	40	8.96		2602	10/3/2017	10/2/2017
1026	OL	40121200	10/3/2017	2017	10	ZI	9200074440	50	-6.86		2602	10/3/2017	10/2/2017
1026	OL	40121200	10/3/2017	2017	10	ZI	9200074440	50	-14.81		2602	10/3/2017	10/2/2017
1026	OL	40121200	10/4/2017	2017	10	ZI	9200074461	50	-1,779.13		2602	10/4/2017	10/3/2017
1026	OL	40121200	10/4/2017	2017	10	ZI	9200074461	50	-17.90		2602	10/4/2017	10/3/2017
1026	OL	40121200	10/4/2017	2017	10	ZI	9200074461	50	-5.30		2602	10/4/2017	10/3/2017
1026	OL	40121200	10/4/2017	2017	10	ZI	9200074461	50	-224.91		2602	10/4/2017	10/3/2017
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1026	OL	40121200	10/2/2017	2017	10	ZI	9200074462	40	13.93		2602	10/2/2017	10/3/2017
1026	OL	40121200	10/2/2017	2017	10	ZI	9200074468	40	25.35		2602	10/2/2017	10/3/2017
1026	OL	40121200	10/2/2017	2017	10	ZI	9200074471	40	0.87		2602	10/2/2017	10/3/2017
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1026	OL	40121200	10/3/2017	2017	10	ZI	9200074476	50	-7.84		2602	10/3/2017	10/3/2017
1026	OL	40121200	10/4/2017	2017	10	ZI	9200074477	50	-0.53		2602	10/3/2017	10/3/2017
1026	OL	40121200	10/4/2017	2017	10	ZI	9200074477	50	-58.09		2602	10/3/2017	10/3/2017
1026	OL	40121200	10/4/2017	2017	10	ZI	9200074477	50	-2.65		2602	10/3/2017	10/3/2017
1026	OL	40121200	10/4/2017	2017	10	ZI	9200074477	50	-245.59		2602	10/3/2017	10/3/2017
1026	OL	40121200	10/4/2017	2017	10	ZI	9200074477	50	-1.75		2602	10/3/2017	10/3/2017
1026	OL	40121200	10/4/2017	2017	10	ZI	9200074477	50	-44.33		2602	10/3/2017	10/3/2017
1026	OL	40121200	10/4/2017	2017	10	ZI	9200074477	50	-2.52		2602	10/3/2017	10/3/2017
1026	OL	40121200	10/4/2017	2017	10	ZI	9200074477	50	-0.17		2602	10/3/2017	10/3/2017
1026	OL	40121200	10/4/2017	2017	10	ZI	9200074477	50	-6.44		2602	10/3/2017	10/3/2017
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1026	OL	40121200	10/3/2017	2017	10	ZI	9200074481	40	13.04		2602	10/3/2017	10/3/2017
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1026	OL	40121200	10/3/2017	2017	10	ZI	9200074481	40	56.67		2602	10/3/2017	10/3/2017
1026	OL	40121200	10/5/2017	2017	10	ZI	9200074516	50	-43.80		2602	10/5/2017	10/4/2017
1026	OL	40121200	10/5/2017	2017	10	ZI	9200074516	40	9.24		2602	10/5/2017	10/4/2017
1026	OL	40121200	10/5/2017	2017	10	ZI	9200074516	50	-8.91		2602	10/5/2017	10/4/2017
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1026	OL	40121200	10/5/2017	2017	10	ZI	9200074516	40	1.85		2602	10/5/2017	10/4/2017
1026	OL	40121200	10/5/2017	2017	10	ZI	9200074516	40	2.42		2602	10/5/2017	10/4/2017
1026	OL	40121200	10/5/2017	2017	10	ZI	9200074516	50	-3,743.08		2602	10/5/2017	10/4/2017
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1026	OL	40121200	10/4/2017	2017	10	ZI	9200074522	40	0.57		2602	10/4/2017	10/4/2017
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1026	OL	40121200	10/4/2017	2017	10	ZI	9200074524	40	11.74		2602	10/4/2017	10/4/2017
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1026	OL	40121200	10/5/2017	2017	10	ZI	9200074525	50	-6.67		2602	10/4/2017	10/4/2017
1026	OL	40121200	10/5/2017	2017	10	ZI	9200074525	50	-2.49		2602	10/4/2017	10/4/2017
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1026	OL	40121200	10/6/2017	2017	10	ZI	9200074566	50	-2,818.66		2602	10/6/2017	10/5/

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	10/6/2017	2017	10	ZI	9200074576	50	-2.53		2602	10/5/2017	10/5/2017
1026	OL	40121200	10/6/2017	2017	10	ZI	9200074576	50	-2.49		2602	10/5/2017	10/5/2017
1026	OL	40121200	10/6/2017	2017	10	ZI	9200074617	40	80.16		2602	10/6/2017	10/6/2017
1026	OL	40121200	10/6/2017	2017	10	ZI	9200074617	40	139.76		2602	10/6/2017	10/6/2017
1026	OL	40121200	10/6/2017	2017	10	ZI	9200074617	40	47.80		2602	10/6/2017	10/6/2017
1026	OL	40121200	10/6/2017	2017	10	ZI	9200074617	40	201.05		2602	10/6/2017	10/6/2017
1026	OL	40121200	10/9/2017	2017	10	ZI	9200074621	50	-32.20		2602	10/9/2017	10/6/2017
1026	OL	40121200	10/9/2017	2017	10	ZI	9200074621	50	-4,288.67		2602	10/9/2017	10/6/2017
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1026	OL	40121200	10/10/2017	2017	10	ZI	9200074655	50	-279.62		2605	10/10/2017	10/9/2017
1026	OL	40121200	10/10/2017	2017	10	ZI	9200074655	50	-4,038.92		2602	10/10/2017	10/9/2017
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1026	OL	40121200	10/10/2017	2017	10	ZI	9200074655	50	-2.69		2602	10/10/2017	10/9/2017
1026	OL	40121200	10/11/2017	2017	10	ZI	9200074678	40	14.24		2602	10/11/2017	10/10/2017
1026	OL	40121200	10/11/2017	2017	10	ZI	9200074678	50	-195.23		2602	10/11/2017	10/10/2017
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1026	OL	40121200	10/11/2017	2017	10	ZI	9200074690	40	4.41		2602	10/11/2017	10/11/2017
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1026	OL	40121200	10/12/2017	2017	10	ZI	9200074724	50	-110.65		2605	10/12/2017	10/11/2017
1026	OL	40121200	10/12/2017	2017	10	ZI	9200074724	50	-4.19		2602	10/12/2017	10/11/2017
1026	OL	40121200	10/12/2017	2017	10	ZI	9200074724	50	-519.82		2602	10/12/2017	10/11/2017
1026	OL	40121200	10/12/2017	2017	10	ZI	9200074724	50	-14,144.94		2602	10/12/2017	10/11/2017
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1026	OL	40121200	10/11/2017	2017	10	ZI	9200074744	40	2.72		2602	10/11/2017	10/11/2017
1026	OL	40121200	10/11/2017	2017	10	ZI	9200074744	40	18.77		2602	10/11/2017	10/11/2017
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1026	OL	40121200	10/12/2017	2017	10	ZI	9200074749	50	-2.58		2602	10/11/2017	10/11/2017
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1026	OL	40121200	10/12/2017	2017	10	ZI	9200074749	50	-2.65		2602	10/11/2017	10/11/2017
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1026	OL	40121200	10/13/2017	2017	10	ZI	9200074789	50	-8,493.20		2602	10/13/2017	10/12/2017
1026	OL	40121200	10/13/2017	2017	10	ZI	9200074789	50	-7.09		2602	10/13/2017	10/12/2017
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1026	OL	40121200	10/13/2017	2017	10	ZI	9200074806	50	-1.90		2602	10/12/2017	10/12/2017
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1026	OL	40121200	10/13/2017	2017	10	ZI	9200074806	50	-2.62		2602	10/12/2017	10/12/2017
1026	OL	40121200	10/13/2017	2017	10	ZI	9200074806	50	-2.03		2602	10/12/2017	10/12/2017
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1026	OL	40121200	10/13/2017	2017	10	ZI	9200074806	50	-5.99		2602	10/12/2017	10/12/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	10/17/2017	2017	10	ZI	9200074899	40	0.07		2602	10/17/2017	10/16/2017
1026	OL	40121200	10/17/2017	2017	10	ZI	9200074899	40	0.03		2602	10/17/2017	10/16/2017
1026	OL	40121200	10/17/2017	2017	10	ZI	9200074899	50	-0.63		2602	10/17/2017	10/16/2017
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1026	OL	40121200	10/18/2017	2017	10	ZI	9200074935	50	-46.59		2602	10/18/2017	10/17/2017
1026	OL	40121200	10/18/2017	2017	10	ZI	9200074935	50	-8,278.03		2602	10/18/2017	10/17/2017
1026	OL	40121200	10/18/2017	2017	10	ZI	9200074935	50	-10,752.90		2602	10/18/2017	10/17/2017
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1026	OL	40121200	10/18/2017	2017	10	ZI	9200074935	50	-1,056.51		2602	10/18/2017	10/17/2017
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1026	OL	40121200	10/18/2017	2017	10	ZI	9200074952	50	-1.55		2602	10/17/2017	10/17/2017
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1026	OL	40121200	10/18/2017	2017	10	ZI	9200074952	50	-0.87		2602	10/17/2017	10/17/2017
1026	OL	40121200	10/18/2017	2017	10	ZI	9200074952	50	-4.14		2602	10/17/2017	10/17/2017
1026	OL	40121200	10/18/2017	2017	10	ZI	9200074952	50	-2.99		2602	10/17/2017	10/17/2017
1026	OL	40121200	10/18/2017	2017	10	ZI	9200074952	40	15.63		2602	10/17/2017	10/17/2017
1026	OL	40121200	10/18/2017	2017	10	ZI	9200074952	50	-9.09		2602	10/17/2017	10/17/2017
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1026	OL	40121200	10/19/2017	2017	10	ZI	9200074999	50	-132.41		2602	10/19/2017	10/18/2017
1026	OL	40121200	10/19/2017	2017	10	ZI	9200074999	50	-2,878.72		2602	10/19/2017	10/18/2017
1026	OL	40121200	10/19/2017	2017	10	ZI	9200074999	50	-6,771.03		2602	10/19/2017	10/18/2017
1026	OL	40121200	10/19/2017	2017	10	ZI	9200074999	50	-3,144.22		2602	10/19/2017	10/18/2017
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1026	OL	40121200	10/18/2017	2017	10	ZI	9200075006	40	1.92		2602	10/18/2017	10/18/2017
1026	OL	40121200	10/18/2017	2017	10	ZI	9200075006	40	2.49		2602	10/18/2017	10/18/2017
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1026	OL	40121200	10/19/2017	2017	10	ZI	9200075080	40	2.63		2602	10/19/2017	10/19/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	10/20/2017	2017	10	ZI	9200075093	50	-2.52		2602	10/19/2017	10/19/2017
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1026	OL	40121200	10/27/2017	2017	10	ZI	9200075344	50	-36.45		2602	10/26/2017	10/26/2017
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1026	OL	40121200	10/27/2017	2017	10	ZI	9200075389	40	7.39		2602	10/27/2017	10/27/2017
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1026	OL	40121200	10/31/2017	2017	10	ZI	9200075457	50	-471.07		2602	10/30/2017	10/31/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	10/31/2017	2017	10	ZJ	9200075508	40	36.22	2602		10/31/2017	10/31/2017
1026	OL	40121200	10/31/2017	2017	10	ZJ	9200075508	40	24.01	2602		10/31/2017	10/31/2017
1026	OL	40121200	10/31/2017	2017	10	ZJ	9200075508	40	39.05	2602		10/31/2017	10/31/2017
1026	OL	40121200	10/31/2017	2017	10	ZJ	9200075508	40	2.43	2605		10/31/2017	10/31/2017
1026	OL	40121200	10/31/2017	2017	10	ZJ	9200075508	40	10.95	2602		10/31/2017	10/31/2017
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1026	OL	40121200	10/31/2017	2017	10	ZJ	9200075508	40	10.95	2602		10/31/2017	10/31/2017
1026	OL	40121200	10/31/2017	2017	10	ZJ	9200075508	40	38.25	2602		10/31/2017	10/31/2017
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1026	OL	40131200	10/18/2017	2017	10	ZI	9200074935	50	-803.09		2602	10/18/2017	10/17/2017
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1026	OL	40145200	10/5/2017	2017	10	ZI	9200074516	50	-2.39		2602	10/5/2017	10/4/2017
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1026	OL	40145200	10/18/2017	2017	10	ZI	9200074935	40	49.71		2602	10/18/2017	10/17/2017
1026	OL	40145200	10/19/2017	2017	10	ZI	9200074999	40	38.87		2602	10/19/2017	10/18/2017
1026	OL	40145200	10/20/2017	2017	10	ZI	9200075074	40	10.10		2602	10/20/2017	10/19/2017
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1026	OL	40145200	10/23/2017	2017	10	ZI	9200075124	50	-1.19		2602	10/23/2017	10/20/2017
1026	OL	40145200	10/25/2017	2017	10	ZI	9200075196	40	88.68		2602	10/25/2017	10/24/2017
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1026	OL	40145200	10/25/2017	2017	10	ZI	9200075196	50	-2.52		2602	10/25/2017	10/24/2017
1026	OL	40145200	10/25/2017	2017	10	ZI	9200075196	50	-0.60		2602	10/25/2017	10/24/2017
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1026	OL	40151200	10/12/2017	2017	10	ZI	9200074724	50	-768.97		2602	10/12/2017	10/11/2017
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1026	OL	40151200	10/24/2017	2017	10	ZI	9200075173	50	-215.72		2602	10/24/2017	10/23/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	11/1/2017	2017	11	ZJ	9200075559	40	78.96		2602	11/1/2017	11/1/2017
1026	OL	40121200	11/1/2017	2017	11	ZJ	9200075561	40	2.49		2602	11/1/2017	11/1/2017
1026	OL	40121200	11/1/2017	2017	11	ZJ	9200075561	40	2.49		2602	11/1/2017	11/1/2017
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1026	OL	40121200	11/1/2017	2017	11	ZJ	9200075561	40	1.85	2602		11/1/2017	11/1/2017
1026	OL	40121200	11/1/2017	2017	11	ZJ	9200075561	40	1.85	2602		11/1/2017	11/1/2017
1026	OL	40121200	11/1/2017	2017	11	ZJ	9200075561	40	1.85	2602		11/1/2017	11/1/2017
1026	OL	40121200	11/2/2017	2017	11	ZJ	9200075565	50	-1.94	2602		11/1/2017	11/1/2017
1026	OL	40121200	11/2/2017	2017	11	ZJ	9200075565	50	-2.65	2602		11/1/2017	11/1/2017
1026	OL	40121200	11/2/2017	2017	11	ZJ	9200075565	50	-2.65	2602		11/1/2017	11/1/2017
1026	OL	40121200	11/2/2017	2017	11	ZJ	9200075565	50	-1.88	2602		11/1/2017	11/1/2017
1026	OL	40121200	11/2/2017	2017	11	ZJ	9200075565	50	-2.01	2602		11/1/2017	11/1/2017
1026	OL	40121200	11/2/2017	2017	11	ZJ	9200075565	50	-2.01	2602		11/1/2017	11/1/2017
1026	OL	40121200	11/2/2017	2017	11	ZJ	9200075565	50	-2.54	2602		11/1/2017	11/1/2017
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1026	OL	40121200	11/2/2017	2017	11	ZJ	9200075565	50	-1.85	2602		11/1/2017	11/1/2017
1026	OL	40121200	11/3/2017	2017	11	ZJ	9200075600	50	-2.65	2602		11/3/2017	11/2/2017
1026	OL	40121200	11/3/2017	2017	11	ZJ	9200075600	50	-35.14	2602		11/3/2017	11/2/2017
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1026	OL	40121200	11/3/2017	2017	11	ZJ	9200075600	50	-2.65	2602		11/3/2017	11/2/2017
1026	OL	40121200	11/3/2017	2017	11	ZJ	9200075600	50	-2.49	2602		11/3/2017	11/2/2017
1026	OL	40121200	11/3/2017	2017	11	ZJ	9200075600	50	-2,459.12	2602		11/3/2017	11/2/2017
1026	OL	40121200	11/3/2017	2017	11	ZJ	9200075600	50	-464.13	2602		11/3/2017	11/2/2017
1026	OL	40121200	11/2/2017	2017	11	ZJ	9200075606	40	1.56	2602		11/2/2017	11/2/2017
1026	OL	40121200	11/2/2017	2017	11	ZJ	9200075606	40	17.52	2602		11/2/2017	11/2/2017
1026	OL	40121200	11/2/2017	2017	11	ZJ	9200075606	40	0.82	2602		11/2/2017	11/2/2017
1026	OL	40121200	11/2/2017	2017	11	ZJ	9200075606	40	2.65	2602		11/2/2017	11/2/2017
1026	OL	40121200	11/2/2017	2017	11	ZJ	9200075610	50	-931.74	2602		11/2/2017	11/2/2017
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1026	OL	40121200	11/3/2017	2017	11	ZJ	9200075629	50	-23.55	2602		11/3/2017	11/3/2017
1026	OL	40121200	11/3/2017	2017	11	ZJ	9200075629	50	-0.04	2602		11/3/2017	11/3/2017
1026	OL	40121200	11/3/2017	2017	11	ZJ	9200075629	40	17.87	2602		11/3/2017	11/3/2017
1026	OL	40121200	11/3/2017	2017	11	ZJ	9200075629	50	-4.81	2602		11/3/2017	11/3/2017
1026	OL	40121200	11/3/2017	2017	11	ZJ	9200075642	50	-4.81	2602		11/3/2017	11/3/2017
1026	OL	40121200	11/3/2017	2017	11	ZJ	9200075642	40	17.87	2602		11/3/2017	11/3/2017
1026	OL	40121200	11/3/2017	2017	11	ZJ	9200075642	50	-23.55	2602		11/3/2017	11/3/2017
1026	OL	40121200	11/3/2017	2017	11	ZJ	9200075642	50	-0.04	2602		11/3/2017	11/3/2017
1026	OL	40121200	11/6/2017	2017	11	ZJ	9200075646	40	0.06	2602		11/6/2017	11/3/2017
1026	OL	40121200	11/6/2017	2017	11	ZJ	9200075646	40	2.80	2602		11/6/2017	11/3/2017
1026	OL	40121200	11/6/2017	2017	11	ZJ	9200075646	50	-3.52	2602		11/6/2017	11/3/2017
1026	OL	40121200	11/6/2017	2017	11	ZJ	9200075646	40	0.07	2602		11/6/2017	11/3/2017
1026	OL	40121200	11/6/2017	2017	11	ZJ	9200075646	50	-4,367.35	2602		11/6/2017	11/3/2017
1026	OL	40121200	11/6/2017	2017	11	ZJ	9200075646	50	-2.76	2602		11/6/2017	11/3/2017
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1026	OL	40121200	11/6/2017	2017	11	ZJ	9200075646	50	-3.04	2602		11/6/2017	11/3/2017
1026	OL	40121200	11/6/2017	2017	11	ZJ	9200075646	50	-10.60	2602		11/6/2017	11/3/2017
1026	OL	40121200	11/3/2017	2017	11	ZJ	9200075660	40	9.62	2602		11/3/2017	11/3/2017
1026	OL	40121200	11/3/2017	2017	11	ZJ	9200075660	40	47.10	2602		11/3/2017	11/3/2017
1026	OL	40121200	11/3/2017	2017	11	ZJ	9200075660	50	-35.74	2602		11/3/2017	11/3/2017
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1026	OL	40121200	11/3/2017	2017	11	ZJ	9200075660	50	-864.41	2602		11/3/2017	11/3/2017
1026	OL	40121200	11/3/2017	2017	11	ZJ	9200075660	40	0.08	2602		11/3/2017	11/3/2017
1026	OL	40121200	11/6/2017	2017	11	ZJ	9200075662	50	-2.52	2602		11/3/2017	11/3/2017
1026	OL	40121200	11/6/2017	2017	11	ZJ	9200075662	50	-2.69	2602		11/3/2017	11/3/2017
1026	OL	40121200	11/6/2017	2017	11	ZJ	9200075662	50	-1.95	2602		11/3/2017	11/3/2017
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1026	OL	40121200	11/6/2017	2017	11	ZJ	9200075662	50	-2.47	2602		11/3/2017	11/3/2017
1026	OL	40121200	11/6/2017	2017	11	ZJ	9200075662	50	-2.52	2602		11/3/2017	11/3/2017
1026	OL	40121200	11/6/2017	2017	11	ZJ	9200075662	50	-1.87	2602		11/3/2017	11/3/2017
1026	OL	40121200	11/6/2017	2017	11	ZJ	9200075662	50	-2.52	2602		11/3/2017	11/3/2017
1026	OL	40121200	11/6/2017	2017	11	ZJ	9200075662	50	-1.89	2602		11/3/2017	11/3/2017
1026	OL	40121200	11/6/2017	2017	11	ZJ	9200075662	50	-2.52	2602		11/3/2017	11/3/2017
1026	OL	40121200	11/9/2017	2017	11	ZJ	9200075664	50	-2.76	2602		11/3/2017	11/3/2017
1026	OL	40121200	11/9/2017	2017	11	ZJ	9200075664	50	-134.76	2602		11/3/2017	11/3/2017
1026	OL	40121200	11/9/2017	2017	11	ZJ	9200075664	50	-1.22	2602		11/3/2017	11/3/2017
1026	OL	40121200	11/9/2017	2017	11	ZJ	9200075664	50	-11.47	2602		11/3/2017	11/3/2017
1026	OL	40121200	11/7/2017	2017	11	ZJ	9200075702	50	-2.58	2602		11/7/2017	11/6/2017
1026	OL	40121200	11/7/2017	2017	11	ZJ	9200075702	50	-375.08	2602		11/7/2017	11/6/2017
1026	OL	40121200	11/7/2017	2017	11	ZJ	9200075702	50	-25.32	2602		11/7/2017	11/6/2017
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1026	OL	40121200	11/7/2017	2017	11	ZJ	9200075702	50	-1,144.13	2602		11/7/2017	11/6/2017
1026	OL	40121200	11/7/2017	2017	11	ZJ	9200075702	50	-45.41	2602		11/7/2017	11/6/2017
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1026	OL	40121200	11/7/2017	2017	11	ZJ	9200075702	50	-2.72	2602		11/7/2017	11/6/2017
1026	OL	40121200	11/8/2017	2017	11	ZJ	9200075732	50	-29.16	2602		11/8/2017	11/7/2017
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1026	OL	40121200	11/9/2017	2017	11	ZI	9200075818	50	-59.23		2602	11/8/2017	11/8/2017
1026	OL	40121200	11/10/2017	2017	11	ZI	9200075844	50	-317.80		2602	11/10/2017	11/9/2017
1026	OL	40121200	11/10/2017	2017	11	ZI	9200075844	50	-148.92		2602	11/10/2017	11/9/2017
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1026	OL	40121200	11/10/2017	2017	11	ZI	9200075844	40	10.55		2602	11/10/2017	11/9/2017
1026	OL	40121200	11/10/2017	2017	11	ZI	9200075844	50	-302.72		2605	11/10/2017	11/9/2017
1026	OL	40121200	11/9/2017	2017	11	ZI	9200075853	40	1.57		2602	11/9/2017	11/9/2017
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1026	OL	40121200	11/13/2017	2017	11	ZI	9200075904	50	-82.00		2605	11/13/2017	11/10/2017
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1026	OL	40121200	11/10/2017	2017	11	ZI	9200075911	40	139.79		2602	11/10/2017	11/10/2017
1026	OL	40121200	11/10/2017	2017	11	ZI	9200075911	40	105.40		2602	11/10/2017	11/10/2017
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1026	OL	40121200	11/13/2017	2017	11	ZI	9200075915	50	-51.13		2602	11/10/2017	11/10/2017
1026	OL	40121200	11/13/2017	2017	11	ZI	9200075915	50	-51.22		2602	11/10/2017	11/10/2017
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1026	OL	40121200	11/15/2017	2017	11	ZI	9200075998	50	-772.33		2602	11/15/2017	11/14/2017
1026	OL	40121200	11/15/2017	2017	11	ZI	9200075998	50	-22,180.10		2602	11/15/2017	11/14/2017
1026	OL	40121200	11/15/2017	2017	11	ZI	9200075998	50	-3,518.12		2602	11/15/2017	11/14/2017
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1026	OL	40121200	11/15/2017	2017	11	ZI	9200075998	50	-97.05		2605	11/15/2017	11/14/2017
1026	OL	40121200	11/15/2017	2017	11	ZI	9200075998	40	49.21		2602	11/15/2017	11/14/2017
1026	OL	40121200	11/15/2017	2017	11	ZI	9200075998	50	-45.16		2602	11/15/2017	11/14/2017
1026	OL	40121200	11/15/2017	2017	11	ZI	9200075998	40	121.51		2602	11/15/2017	11/14/2017
1026	OL	40121200	11/15/2017	2017	11	ZI	9200075998	40	5.54		2602	11/15/2017	11/14/2017
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1026	OL	40121200	11/14/2017	2017	11	ZI	9200076005	40	7.01		2602	11/14/2017	11/14/2017
1026	OL	40121200	11/14/2017	2017	11	ZI	9200076005	40	37.14		2602	11/14/2017	11/14/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	11/13/2017	2017	11	ZJ	9200076013	40	2.69		2602	11/13/2017	11/14/2017
1026	OL	40121200	11/13/2017	2017	11	ZJ	9200076013	40	2.72		2602	11/13/2017	11/14/2017
1026	OL	40121200	11/13/2017	2017	11	ZJ	9200076013	40	2.67		2602	11/13/2017	11/14/2017
1026	OL	40121200	11/14/2017	2017	11	ZJ	9200076014	40	541.18		2602	11/13/2017	11/14/2017
1026	OL	40121200	11/14/2017	2017	11	ZJ	9200076018	50	-1,077.26		2602	11/14/2017	11/14/2017
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1026	OL	40121200	11/15/2017	2017	11	ZJ	9200076019	50	-2.72		2602	11/14/2017	11/14/2017
1026	OL	40121200	11/15/2017	2017	11	ZJ	9200076019	50	-14.41		2602	11/14/2017	11/14/2017
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1026	OL	40121200	11/14/2017	2017	11	ZJ	9200076025	50	-253.72		2602	11/13/2017	11/14/2017
1026	OL	40121200	11/14/2017	2017	11	ZJ	9200076025	50	-180.27		2602	11/13/2017	11/14/2017
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1026	OL	40121200	11/13/2017	2017	11	ZJ	9200076044	40	2.65		2602	11/13/2017	11/15/2017
1026	OL	40121200	11/16/2017	2017	11	ZJ	9200076058	40	8.31		2602	11/16/2017	11/15/2017
1026	OL	40121200	11/16/2017	2017	11	ZJ	9200076058	50	-6.67		2602	11/16/2017	11/15/2017
1026	OL	40121200	11/16/2017	2017	11	ZJ	9200076058	40	3.33		2602	11/16/2017	11/15/2017
1026	OL	40121200	11/16/2017	2017	11	ZJ	9200076058	50	-5.56		2602	11/16/2017	11/15/2017
1026	OL	40121200	11/16/2017	2017	11	ZJ	9200076058	50	-230.28		2602	11/16/2017	11/15/2017
1026	OL	40121200	11/16/2017	2017	11	ZJ	9200076058	40	2.22		2602	11/16/2017	11/15/2017
1026	OL	40121200	11/16/2017	2017	11	ZJ	9200076058	50	-818.61		2602	11/16/2017	11/15/2017
1026	OL	40121200	11/16/2017	2017	11	ZJ	9200076058	50	-6,014.57		2602	11/16/2017	11/15/2017
1026	OL	40121200	11/16/2017	2017	11	ZJ	9200076058	40	1.11		2602	11/16/2017	11/15/2017
1026	OL	40121200	11/16/2017	2017	11	ZJ	9200076058	50	-2,831.33		2602	11/16/2017	11/15/2017
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1026	OL	40121200	11/3/2017	2017	11	ZJ	9200076061	40	5.56		2602	11/3/2017	11/15/2017
1026	OL	40121200	11/15/2017	2017	11	ZJ	9200076064	40	26.96		2602	11/15/2017	11/15/2017
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1026	OL	40121200	11/15/2017	2017	11	ZJ	9200076064	40	5.39		2602	11/15/2017	11/15/2017
1026	OL	40121200	11/9/2017	2017	11	ZJ	9200076077	40	11.47		2602	11/3/2017	11/15/2017
1026	OL	40121200	11/15/2017	2017	11	ZJ	9200076081	40	46.62		2602	11/15/2017	11/15/2017
1026	OL	40121200	11/15/2017	2017	11	ZJ	9200076081	40	6.12		2602	11/15/2017	11/15/2017
1026	OL	40121200	11/15/2017	2017	11	ZJ	9200076081	40	49.66		2602	11/15/2017	11/15/2017
1026	OL	40121200	11/15/2017	2017	11	ZJ	9200076081	40	44.40		2602	11/15/2017	11/15/2017
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1026	OL	40121200	11/15/2017	2017	11	ZJ	9200076090	50	-4,069.17		2602	11/15/2017	11/15/2017
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1026	OL	40121200	11/16/2017	2017	11	ZJ	9200076091	50	-44.33		2602	11/15/2017	11/15/2017
1026	OL	40121200	11/16/2017	2017	11	ZJ	9200076091	50	-4.05		2602	11/15/2017	11/15/2017
1026	OL	40121200	11/16/2017	2017	11	ZJ	9200076091	50	-44.41		2602	11/15/2017	11/15/2017
1026	OL	40121200	11/16/2017	2017	11	ZJ	9200076091	50	-99.51		2602	11/15/2017	11/15/2017
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1026	OL	40121200	11/16/2017	2017	11	ZJ	9200076091	50	-15.55		2602	11/15/2017	11/15/2017
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1026	OL	40121200	11/20/2017	2017	11	ZJ	9200076175	50	-144.05		2602	11/20/2017	11/17/2017
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1026	OL	40121200	11/17/2017	2017	11	ZJ	9200076184	40	374.65		2602	11/17/2017	11/17/2017
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1026	OL	40121200	11/18/2017	2017	11	ZJ	9200076190	50	-14.76		2602	11/17/2017	11/17/2017
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1026	OL	40121200	11/20/2017	2017	11	ZJ	9200076254	40	193.45		2602	11/20/2017	11/21/2017
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1026	OL	40121200	11/21/2017	2017	11	ZJ	9200076314	40	6.98		2602	11/21/2017	11/21/2017
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1026	OL	40121200	11/21/2017	2017	11	ZJ	9200076314	50	-11.08		2602	11/21/2017	11/21/2017
1026	OL	40121200	11/21/2017	2017	11	ZJ	9200076314	40	6.95		2602	11/21/2017	11/21/2017
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1026	OL	40121200	11/21/2017	2017	11	ZJ	9200076314	40	13.07		2602	11/21/2017	11/21/2017
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1026	OL	40121200	11/21/2017	2017	11	ZJ	9200076314	40	5.75		2602	11/21/2017	11/21/2017
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1026	OL	40121200	11/21/2017	2017	11	ZJ	9200076314	40	12.28		2602	11/21/2017	11/21/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	11/22/2017	2017	11	ZI	9200076373	40	2.76		2602	11/22/2017	11/22/2017
1026	OL	40121200	11/22/2017	2017	11	ZI	9200076373	40	33.86		2602	11/22/2017	11/22/2017
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1026	OL	40121200	11/24/2017	2017	11	ZI	9200076382	50	-14.93		2602	11/22/2017	11/22/2017
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1026	OL	40121200	11/24/2017	2017	11	ZI	9200076382	50	-5.65		2602	11/22/2017	11/22/2017
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1026	OL	40121200	11/28/2017	2017	11	ZI	9200076444	50	-418.97		2602	11/28/2017	11/28/2017
1026	OL	40121200	11/29/2017	2017	11	ZI	9200076478	50	-832.87		2602	11/29/2017	11/28/2017
1026	OL	40121200	11/29/2017	2017	11	ZI	9200076478	50	-2,705.78		2602	11/29/2017	11/28/2017
1026	OL	40121200	11/29/2017	2017	11	ZI	9200076478	50	-44.53		2602	11/29/2017	11/28/2017
1026	OL	40121200	11/29/2017	2017	11	ZI	9200076478	40	31.30		2602	11/29/2017	11/28/2017
1026	OL	40121200	11/10/2017	2017	11	ZI	9200076489	40	20.35		2602	11/10/2017	11/28/2017
1026	OL	40121200	11/28/2017	2017	11	ZI	9200076500	40	32.09		2602	11/28/2017	11/28/2017
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1026	OL	40121200	11/29/2017	2017	11	ZI	9200076505	50	-2.78		2602	11/28/2017	11/28/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	11/29/2017	2017	11	ZI	9200076571	40	83.29		2602	11/29/2017	11/29/2017
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1026	OL	40121200	11/30/2017	2017	11	ZI	9200076583	50	-56.39		2602	11/29/2017	11/29/2017
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1026	OL	40131200	11/3/2017	2017	11	ZI	9200075600	50	-101.38		2602	11/3/2017	11/2/2017
1026	OL	40131200	11/3/2017	2017	11	ZI	9200075611	50	-210.27		2602	11/2/2017	11/2/2017
1026	OL	40131200	11/3/2017	2017	11	ZI	9200075660	50	-1,632.13		2602	11/3/2017	11/3/2017
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1026	OL	40131200	11/6/2017	2017	11	ZI	9200075662	50	-878.94		2602	11/3/2017	11/3/2017
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1026	OL	40131200	11/9/2017	2017	11	ZI	9200075802	50	-138.84		2602	11/9/2017	11/8/2017
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1026	OL	40131200	11/13/2017	2017	11	ZI	9200075904	50	-944.10		2602	11/13/2017	11/10/2017
1026	OL	40131200	11/15/2017	2017	11	ZI	9200075998	50	-1,046.01		2602	11/15/2017	11/14/2017
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1026	OL	40131200	11/22/2017	2017	11	ZI	9200076305	50	-40.25		2602	11/22/2017	11/21/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40145200	11/29/2017	2017	11	ZJ	9200076505	40	18.14	2602		11/28/2017	11/28/2017
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1026	OL</												

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1026	OL	40151200	11/1/2017	2017	11	ZJ	9200075487	50	-34.33	2602		11/1/2017	10/31/2017
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1026	OL	40151200	11/2/2017	2017	11	ZJ	9200075557	50	-639.35	2602		11/2/2017	11/1/2017
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1026	OL	40151200	11/3/2017	2017	11	ZJ	9200075600	50	-185.02	2602		11/3/2017	11/2/2017
1026	OL	40151200	11/3/2017	2017	11	ZJ	9200075600	50	-2.72	2602		11/3/2017	11/2/2017
1026	OL	40151200	11/2/2017	2017	11	ZJ	9200075610	50	-91.36	2602		11/2/2017	11/2/2017
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1026	OL	40151200	11/6/2017	2017	11	ZJ	9200075646	50	-373.02	2602		11/6/2017	11/3/2017
1026	OL	40151200	11/6/2017	2017	11	ZJ	9200075646	50	-4.86	2602		11/6/2017	11/3/2017
1026	OL	40151200	11/7/2017	2017	11	ZJ	9200075702	50	-1.43	2602		11/7/2017	11/6/2017
1026	OL	40151200	11/7/2017	2017	11	ZJ	9200075702	50	-2.72	2602		11/7/2017	11/6/2017
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1026	OL	40151200	11/8/2017	2017	11	ZI	9200075810	40	22.94		2602	11/8/2017	11/8/2017
1026	OL	40151200	11/8/2017	2017	11	ZI	9200075810	40	68.96		2602	11/8/2017	11/8/2017
1026	OL	40151200	11/8/2017	2017	11	ZI	9200075810	40	62.03		2602	11/8/2017	11/8/2017
1026	OL	40151200	11/8/2017	2017	11	ZI	9200075810	40	37.68		2602	11/8/2017	11/8/2017
1026	OL	40151200	11/9/2017	2017	11	ZI	9200075811	40	48.33		2602	11/8/2017	11/8/2017
1026	OL	40151200	11/8/2017	2017	11	ZI	9200075817	50	-21.15		2602	11/8/2017	11/8/2017
1026	OL	40151200	11/8/2017	2017	11	ZI	9200075817	50	-21.75		2602	11/8/2017	11/8/2017
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1026	OL	40151200	11/9/2017	2017	11	ZI	9200075818	50	-71.27		2602	11/8/2017	11/8/2017
1026	OL	40151200	11/9/2017	2017	11	ZI	9200075818	50	-32.13		2602	11/8/2017	11/8/2017
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1026	OL	40151200	11/10/2017	2017	11	ZI	9200075844	50	-12.73		2605	11/10/2017	11/9/2017
1026	OL	40151200	11/10/2017	2017	11	ZI	9200075863	50	-152.69		2602	11/9/2017	11/9/2017
1026	OL	40151200	11/13/2017	2017	11	ZI	9200075904	50	-63.02		2605	11/13/2017	11/10/2017
1026	OL	40151200	11/13/2017	2017	11	ZI	9200075904	50	-2.43		2602	11/13/2017	11/10/2017
1026	OL	40151200	11/13/2017	2017	11	ZI	9200075904	40	1.85		2602	11/13/2017	11/10/2017
1026	OL	40151200	11/13/2017	2017	11	ZI	9200075904	50	-2.43		2602	11/13/2017	11/10/2017
1026	OL	40151200	11/13/2017	2017	11	ZI	9200075904	50	-3.04		2605	11/13/2017	11/10/2017
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1026	OL	40151200	11/14/2017	2017	11	ZI	9200075962	50	-15.99		2602	11/14/2017	11/13/2017
1026	OL	40151200	11/14/2017	2017	11	ZI	9200075962	50	-2.43		2602	11/14/2017	11/13/2017
1026	OL	40151200	11/14/2017	2017	11	ZI	9200075962	50	-9.36		2602	11/14/2017	11/13/2017
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1026	OL	40151200	11/14/2017	2017	11	ZI	9200075962	50	-274.78		2605	11/14/2017	11/13/2017
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1026	OL	40151200	11/15/2017	2017	11	ZI	9200075998	50	-11.72		2605	11/15/2017	11/14/2017
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1026	OL	40151200	11/15/2017	2017	11	ZI	9200075998	50	-3.04		2605	11/15/2017	11/14/2017
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1026	OL	40151200	11/15/2017	2017	11	ZI	9200075998	40	7.71		2602	11/15/2017	11/14/2017
1026	OL	40151200	11/15/2017	2017	11	ZI	9200075998	50	-9.24		2602	11/15/2017	11/14/2017
1026	OL	40151200	11/13/2017	2017	11	ZI	9200076024	50	-5.71		2602	11/13/2017	11/14/2017
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1026	OL	40151200	11/16/2017	2017	11	ZI	9200076058	50	-1,472.30		2602	11/16/2017	11/15/2017
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1026	OL	40151200	11/15/2017	2017	11	ZI	9200076090	50	-916.99		2602	11/15/2017	11/15/2017
1026	OL	40151200	11/16/2017	2017	11	ZI	9200076091	50	-3,404.72		2602	11/15/2017	11/15/2017
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1026	OL	40151200	11/17/2017	2017	11	ZI	9200076114	50	-314.47		2602	11/17/2017	11/16/2017
1026	OL	40151200	11/17/2017	2017	11	ZI	9200076114	50	-630.79		2602	11/17/2017	11/16/2017
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1026	OL	40151200	11/16/2017	2017	11	ZI	9200076128	40	6.48		2602	11/16/2017	11/16/2017
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1026	OL	40151200	11/17/2017	2017	11	ZI	9200076129	40	11.66		2602	11/16/2017	11/16/2017
1026	OL	40151200	11/17/2017	2017	11	ZI	9200076129	40	8.11		2602	11/16/2017	11/16/2017
1026	OL	40151200	11/17/2017	2017	11	ZI	9200076129	40	6.57		2602	11/16/2017	11/16/2017
1026	OL	40151200	11/17/2017	2017	11	ZI	9200076140	50	-13.03		2602	11/16/2017	11/16/2017
1026	OL	40151200	11/17/2017	2017	11	ZI	9200076140	50	-18.44		2602	11/16/2017	11/16/2017
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1026	OL	40151200	11/20/2017	2017	11	ZI	9200076175	50	-148.60		2602	11/20/2017	11/17/2017
1026	OL	40151200	11/20/2017	2017	11	ZI	9200076175	50	-46.17		2602	11/20/2017	11/17/2017
1026	OL	40151200	11/20/2017	2017	11	ZI	9200076175	50	-552.13		2602	11/20/2017	11/17/2017
1026	OL	40151200	11/20/2017	2017	11	ZI	9200076175	50	-408.46		2602	11/20/2017	11/17/2017
1026	OL	40151200	11/18/2017	2017	11	ZI	9200076190	50	-48.35		2602	11/17/2017	11/17/2017
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1026	OL	40151200	11/22/2017	2017	11	ZI	9200076305	50	-2.43		2602	11/22/2017	11/21/2017
1026	OL	40151200	11/22/2017	2017	11	ZI	9200076305	50	-145.71		2602	11/22/2017	11/21/2017
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1026	OL	40151200	11/22/2017	2017	11	ZI	9200076323	50	-65.75		2602	11/21/2017	11/21/2017
1026	OL	40151200	11/22/2017	2017	11	ZI	9200076323	50	-128.47		2602	11/21/2017	11/21/2017
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1026	OL	40151200	11/27/2017	2017	11	ZI	9200076354	50	-9.95		2602	11/27/2017	11/22/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	12/1/2017	2017	12	ZI	9200076644	40	15.72		2602	11/30/2017	11/30/2017
1026	OL	40121200	12/4/2017	2017	12	ZI	9200076679	50	-262.18		2602	12/4/2017	12/1/2017
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1026	OL	40121200	12/4/2017	2017	12	ZI	9200076679	50	-1,235.38		2602	12/4/2017	12/1/2017
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1026	OL	40121200	12/1/2017	2017	12	ZI	9200076682	40	0.43		2602	12/1/2017	12/1/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	12/14/2017	2017	12	ZI	9200077139	50	-3.18		2602	12/14/2017	12/14/2017
1026	OL	40121200	12/14/2017	2017	12	ZI	9200077139	50	-17.90		2602	12/14/2017	12/14/2017
1026	OL	40121200	12/18/2017	2017	12	ZI	9200077179	50	-157.34		2602	12/18/2017	12/15/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	12/18/2017	2017	12	ZJ	9200077201	40	1.10		2602	12/15/2017	12/15/2017
1026	OL	40121200	12/18/2017	2017	12	ZJ	9200077201	50	-33.62		2602	12/15/2017	12/15/2017
1026	OL	40121200	12/18/2017	2017	12	ZJ	9200077201	50	-38.74		2602	12/15/2017	12/15/2017
1026	OL	40121200	12/18/2017	2017	12	ZJ	9200077201	50	-40.37		2602	12/15/2017	12/15/2017
1026	OL	40121200	12/18/2017	2017	12	ZJ	9200077201	50	-1.46		2602	12/15/2017	12/15/2017
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1026	OL	40121200	12/18/2017	2017	12	ZJ	9200077201	50	-17.77		2602	12/15/2017	12/15/2017
1026	OL	40121200	12/19/2017	2017	12	ZJ	9200077238	50	-2,117.17		2602	12/19/2017	12/18/2017
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1026	OL	40121200	12/19/2017	2017	12	ZJ	9200077238	50	-166.26		2602	12/19/2017	12/18/2017
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1026	OL	40121200	12/19/2017	2017	12	ZJ	9200077238	50	-4.07		2602	12/19/2017	12/18/2017
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1026	OL	40121200	12/20/2017	2017	12	ZJ	9200077277	50	-489.63		2602	12/20/2017	12/19/2017
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1026	OL	40121200	12/20/2017	2017	12	ZJ	9200077277	50	-459.69		2602	12/20/2017	12/19/2017
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1026	OL	40121200	12/19/2017	2017	12	ZJ	9200077294	40	25.62		2602	12/19/2017	12/19/2017
1026	OL	40121200	12/19/2017	2017	12	ZJ	9200077294	40	459.69		2602	12/19/2017	12/19/2017
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1026	OL	40121200	12/19/2017	2017	12	ZJ	9200077297	40	2.65		2602	12/19/2017	12/19/2017
1026	OL	40121200	12/19/2017	2017	12	ZJ	9200077297	40	2.69		2602	12/19/2017	12/19/2017
1026	OL	40121200	12/19/2017	2017	12	ZJ	9200077297	40	2.52		2602	12/19/2017	12/19/2017
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1026	OL	40121200	12/19/2017	2017	12	ZJ	9200077297	40	1.85		2602	12/19/2017	12/19/2017
1026	OL	40121200	12/19/2017	2017	12	ZJ	9200077297	40	1.85		2602	12/19/2017	12/19/2017
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1026	OL	40121200	12/20/2017	2017	12	ZJ	9200077304	50	-143.27		2602	12/19/2017	12/19/2017
1026	OL	40121200	12/20/2017	2017	12	ZJ	9200077304	50	-44.92		2602	12/19/2017	12/19/2017
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1026	OL	40121200	12/20/2017	2017	12	ZJ	9200077304	50	-104.62		2602	12/19/2017	12/19/2017
1026	OL	40121200	12/20/2017	2017	12	ZJ	9200077304	50	-149.83		2602	12/19/2017	12/19/2017
1026	OL	40121200	12/20/2017	2017	12	ZJ	9200077304	50	-1.94		2602	12/19/2017	12/19/2017
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1026	OL	40121200	12/20/2017	2017	12	ZJ	9200077304	50	-1.87		2602	12/19/2017	12/19/2017
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1026	OL	40121200	12/20/2017	2017	12	ZJ	9200077304	50	-8.49		2602	12/19/2017	12/19/2017
1026	OL	40121200	12/20/2017	2017	12	ZJ	9200077304	50	-16.10		2602	12/19/2017	12/19/2017
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1026	OL	40121200	12/21/2017	2017	12	ZJ	9200077346	50	-33.55		2602	12/21/2017	12/20/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	12/20/2017	2017	12	ZJ	9200077360	40	67.11		2602	12/20/2017	12/20/2017
1026	OL	40121200	12/20/2017	2017	12	ZJ	9200077360	40	62.48		2602	12/20/2017	12/20/2017
1026	OL	40121200	12/20/2017	2017	12	ZJ	9200077360	40	169.16		2602	12/20/2017	12/20/2017
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1026	OL	40121200	12/20/2017	2017	12	ZJ	9200077360	40	54.19		2602	12/20/2017	12/20/2017
1026	OL	40121200	12/20/2017	2017	12	ZJ	9200077360	40	60.85		2602	12/20/2017	12/20/2017
1026	OL	40121200	12/20/2017	2017	12	ZJ	9200077360	40	56.62		2602	12/20/2017	12/20/2017
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1026	OL	40121200	12/20/2017	2017	12	ZJ	9200077370	50	-60.85		2602	12/20/2017	12/20/2017
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1026	OL	40121200	12/20/2017	2017	12	ZJ	9200077370	50	-64.92		2602	12/20/2017	12/20/2017
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1026	OL	40121200	12/20/2017	2017	12	ZJ	9200077370	50	-12.15		2602	12/20/2017	12/20/2017
1026	OL	40121200	12/20/2017	2017	12	ZJ	9200077370	50	-127.06		2602	12/20/2017	12/20/2017
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1026	OL	40121200	12/26/2017	2017	12	ZJ	9200077463	50	-14.44		2602	12/22/2017	12/22/2017
1026	OL	40121200	12/26/2017	2017	12	ZJ	9200077463	50	-17.17		2602	12/22/2017	12/22/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40121200	12/28/2017	2017	12	ZJ	9200077555	50	-5.48		2602	12/27/2017	12/27/2017
1026	OL	40121200	12/28/2017	2017	12	ZJ	9200077555	50	-5.41		2602	12/27/2017	12/27/2017
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1026	OL	40121200	12/26/2017	2017	12	ZJ	9200077556	50	-712.25		2602	12/26/2017	12/27/2017
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1026	OL	40121200	12/27/2017	2017	12	ZJ	9200077557	50	-44.49		2602	12/26/2017	12/27/2017
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1026	OL	40121200	12/28/2017	2017	12	ZJ	9200077593	40	6.95		2602	12/28/2017	12/28/2017
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1026	OL	40121200	12/29/2017	2017	12	ZJ	9200077608	50	-2.65		2602	12/28/2017	12/28/2017
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1026	OL	40121200	12/29/2017	2017	12	ZJ	9200077624	40	22.10		2602	12/29/2017	12/29/2017
1026	OL	40121200	12/6/2017	2017	12	ZJ	9200077653	40	120.26		2602	12/5/2017	12/29/2017
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1026	OL	40121200	12/6/2017	2017	12	ZJ	9200077653	40	489.53		2602	12/5/2017	12/29/2017
1026	OL	40121200	12/27/2017	2017	12	ZJ	9200077661	40	18.32		2602	12/27/2017	12/29/2017
1026	OL	40121200	12/29/2017	2017	12	ZJ	9200077663	40	3.89		2602	12/29/2017	12/29/2017
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1026	OL	40121200	12/29/2017	2017	12	ZJ	9200077667	50	-123.36		2602	12/29/2017	12/29/2017
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Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
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1026	OL	40131200	12/29/2017	2017	12	ZI	9200077590	50	-5.52		2602	12/29/2017	12/28/2017
1026	OL	40131200	12/28/2017	2017	12	ZI	9200077607	50	-198.29		2602	12/28/2017	12/28/2017
1026	OL	40131200	12/28/2017	2017	12	ZI	9200077607	50	-669.59		2602	12/28/2017	12/28/2017
1026	OL	40145200	12/4/2017	2017	12	ZI	9200076679	40	195.58		2602	12/4/2017	12/1/2017
1026	OL	40145200	12/5/2017	2017	12	ZI	9200076725	50	-32.90		2602	12/5/2017	12/4/2017
1026	OL	40145200	12/6/2017	2017	12	ZI	9200076760	40	415.15		2602	12/6/2017	12/5/2017
1026	OL	40145200	12/8/2017	2017	12	ZI	9200076875	40	180.99		2602	12/8/2017	12/7/2017
1026	OL	40145200	12/8/2017	2017	12	ZI	9200076875	50	-8.23		2602	12/8/2017	12/7/2017
1026	OL	40145200	12/14/2017	2017	12	ZI	9200077085	50	-32.90		2602	12/13/2017	12/13/2017
1026	OL	40145200	12/14/2017	2017	12	ZI	9200077139	40	180.27		2602	12/14/2017	12/14/2017
1026	OL	40145200	12/14/2017	2017	12	ZI	9200077139	50	-16.44		2602	12/14/2017	12/14/2017
1026	OL	40145200	12/14/2017	2017	12	ZI	9200077139	50	-40.53		2602	12/14/2017	12/14/2017
1026	OL	40145200	12/14/2017	2017	12	ZI	9200077139	50	-49.32		2602	12/14/2017	12/14/2017
1026	OL	40145200	12/21/2017	2017	12	ZI	9200077346	50	-16.44		2602	12/21/2017	12/20/2017
1026	OL	40145200	12/22/2017	2017	12	ZI	9200077392	50	-2.16		2602	12/22/2017	12/21/2017
1026	OL	40145200	12/27/2017	2017	12	ZI	9200077500	40	171.26		2602	12/27/2017	12/26/2017
1026	OL	40145200	12/29/2017	2017	12	ZI	9200077608	50	-139.12		2602	12/28/2017	12/28/2017
1026	OL	40151200	12/1/2017	2017	12	ZI	9200076615	50	-46.76		2602	12/1/2017	11/30/2017
1026	OL	40151200	12/1/2017	2017	12	ZI	9200076615	50	-2,359.05		2602	12/1/2017	11/30/2017
1026	OL	40151200	12/1/2017	2017	12	ZI	9200076615	50	-10.88		2602	12/1/2017	11/30/2017
1026	OL	40151200	12/1/2017	2017	12	ZI	9200076615	50	-578.97		2602	12/1/2017	11/30/2017
1026	OL	40151200	12/4/2017	2017	12	ZI	9200076679	50	-185.88		2602	12/4/2017	12/1/2017
1026	OL	40151200	12/4/2017	2017	12	ZI	9200076679	50	-171.64		2602	12/4/2017	12/1/2017
1026	OL	40151200	12/4/2017	2017	12	ZI	9200076679	50	-2.46		2602	12/4/2017	12/1/2017
1026	OL	40151200	12/1/2017	2017	12	ZI	9200076683	40	31.92		2602	12/1/2017	12/1/2017
1026	OL	40151200	12/1/2017	2017	12	ZI	9200076686	50	-717.97		2602	12/1/2017	12/1/2017
1026	OL	40151200	12/4/2017	2017	12	ZI	9200076687	50	-27.19		2602	12/1/2017	12/1/2017
1026	OL	40151200	12/4/2017	2017	12	ZI	9200076687	50	-50.20		2602	12/1/2017	12/1/2017
1026	OL	40151200	12/5/2017	2017	12	ZI	9200076725	50	-202.73		2602	12/5/2017	12/4/2017
1026	OL	40151200	12/5/2017	2017	12	ZI	9200076725	50	-560.30		2602	12/5/2017	12/4/2017
1026	OL	40151200	12/5/2017	2017	12	ZI	9200076725	50	-24.16		2602	12/5/2017	12/4/2017
1026	OL	40151200	12/5/2017	2017	12	ZI	9200076725	50	-16.68		2602	12/5/2017	12/4/2017
1026	OL	40151200	12/6/2017	2017	12	ZI	9200076760	50	-2.72		2602	12/6/2017	12/5/2017
1026	OL	40151200	12/6/2017	2017	12	ZI	9200076760	50	-365.29		2602	12/6/2017	12/5/2017
1026	OL	40151200	12/6/2017	2017	12	ZI	9200076771	50	-2.72		2602	12/5/2017	12/5/2017
1026	OL	40151200	12/6/2017	2017	12	ZI	9200076771	50	-2.43		2602	12/5/2017	12/5/2017
1026	OL	40151200	12/6/2017	2017	12	ZI	9200076771	50	-2.46		2602	12/5/2017	12/5/2017
1026	OL	40151200	12/6/2017	2017	12	ZI	9200076775	40	2.43		2602	12/5/2017	12/5/2017
1026	OL	40151200	12/7/2017	2017	12	ZI	9200076818	50	-150.08		2602	12/7/2017	12/6/2017
1026	OL	40151200	12/8/2017	2017	12	ZI	9200076875	50	-667.51		2602	12/8/2017	12/7/2017
1026	OL	40151200	12/8/2017	2017	12	ZI	9200076875	50	-115.13		2602	12/8/2017	12/7/2017
1026	OL	40151200	12/8/2017	2017	12	ZI	9200076875	50	-149.03		2602	12/8/2017	12/7/2017
1026	OL	40151200	12/11/2017	2017	12	ZI	9200076919	50	-202.18		2602	12/11/2017	12/8/2017
1026	OL	40151200	12/11/2017	2017	12	ZI	9200076919	50	-227.22		2602	12/11/2017	12/8/2017
1026	OL	40151200	12/12/2017	2017	12	ZI	9200076972	50	-480.94		2602	12/12/2017	12/11/2017
1026	OL	40151200	12/12/2017	2017	12	ZI	9200076972	50	-84.75		2602	12/12/2017	12/11/2017
1026	OL	40151200	12/12/2017	2017	12	ZI	9200076972	50	-16.08		2602	12/12/2017	12/11/2017
1026	OL	40151200	12/12/2017	2017	12	ZI	9200076972	50	-62.09		2602	12/12/2017	12/11/2017
1026	OL	40151200	12/13/2017	2017	12	ZI	9200077001	50	-1,867.85		2602	12/13/2017	12/12/2017
1026	OL	40151200	12/13/2017	2017	12	ZI	9200077001	50	-82.55		2602	12/13/2017	12/12/2017
1026	OL	40151200	12/13/2017	2017	12	ZI	9200077001	50	-7.29		2602	12/13/2017	12/12/2017
1026	OL	40151200	12/13/2017	2017	12	ZI	9200077001	50	-55.15		2602	12/13/2017	12/12/2017
1026	OL	40151200	12/13/2017	2017	12	ZI	9200077001	50	-12.51		2605	12/13/2017	12/12/2017
1026	OL	40151200	12/9/2017	2017	12	ZI	9200077024	50	-27.94		2602	12/12/2017	12/12/2017
1026	OL	40151200	12/13/2017	2017	12	ZI	9200077026	50	-117.49		2602	12/12/2017	12/12/2017
1026	OL	40151200	12/15/2017	2017	12	ZI	9200077119	50	-4,488.02		2602	12/15/2017	12/14/2017
1026	OL	40151200	12/15/2017	2017	12	ZI	9200077119	50	-16.11		2602	12/15/2017	12/14/2017
1026	OL	40151200	12/14/2017	2017	12	ZI	9200077139	50	-119.09		2605	12/14/2017	12/14/2017
1026	OL	40151200	12/14/2017	2017	12	ZI	9200077139	50	-50.14		2605	12/14/2017	12/14/2017
1026	OL	40151200	12/14/2017	2017	12	ZI	9200077139	50	-3.04		2605	12/14/2017	12/14/2017
1026	OL	40151200	12/14/2017	2017	12	ZI	9200077139	50	-2.43		2602	12/14/2017	12/14/2017
1026	OL	40151200	12/14/2017	2017	12	ZI	9200077139	50	-16.00		2602	12/14/2017	12/14/2017

Company	Ledger	Account	Posting Date	Fiscal Year	Posting Period	Document Type	Document Number	Posting Key	Amount in local currency	Text	Profit Cent	Document Date	Entry Date
1026	OL	40151200	12/19/2017	2017	12	ZJ	9200077238	50	-134.90		2602	12/19/2017	12/18/2017
1026	OL	40151200	12/19/2017	2017	12	ZJ	9200077238	50	-121.89		2602	12/19/2017	12/18/2017
1026	OL	40151200	12/19/2017	2017	12	ZJ	9200077238	50	-169.05		2602	12/19/2017	12/18/2017
1026	OL	40151200	12/19/2017	2017	12	ZJ	9200077238	50	-317.09		2602	12/19/2017	12/18/2017
1026	OL	40151200	12/19/2017	2017	12	ZJ	9200077238	50	-2,617.83		2602	12/19/2017	12/18/2017
1026	OL	40151200	12/20/2017	2017	12	ZJ	9200077277	50	-6.78		2602	12/20/2017	12/19/2017
1026	OL	40151200	12/20/2017	2017	12	ZJ	9200077277	50	-2.43		2602	12/20/2017	12/19/2017
1026	OL	40151200	12/20/2017	2017	12	ZJ	9200077277	50	-719.96		2602	12/20/2017	12/19/2017
1026	OL	40151200	12/20/2017	2017	12	ZJ	9200077277	50	-890.94		2602	12/20/2017	12/19/2017
1026	OL	40151200	12/20/2017	2017	12	ZJ	9200077304	50	-47.35		2602	12/19/2017	12/19/2017
1026	OL	40151200	12/20/2017	2017	12	ZJ	9200077304	50	-73.31		2602	12/19/2017	12/19/2017
1026	OL	40151200	12/21/2017	2017	12	ZJ	9200077346	50	-534.72		2602	12/21/2017	12/20/2017
1026	OL	40151200	12/21/2017	2017	12	ZJ	9200077346	50	-148.44		2602	12/21/2017	12/20/2017
1026	OL	40151200	12/21/2017	2017	12	ZJ	9200077346	50	-661.96		2602	12/21/2017	12/20/2017
1026	OL	40151200	12/20/2017	2017	12	ZJ	9200077370	50	-917.83		2602	12/20/2017	12/20/2017
1026	OL	40151200	12/21/2017	2017	12	ZJ	9200077372	50	-1,832.86		2602	12/20/2017	12/20/2017
1026	OL	40151200	12/22/2017	2017	12	ZJ	9200077392	50	-94.93		2602	12/22/2017	12/21/2017
1026	OL	40151200	12/22/2017	2017	12	ZJ	9200077392	50	-294.61		2602	12/22/2017	12/21/2017
1026	OL	40151200	12/22/2017	2017	12	ZJ	9200077392	50	-15.71		2602	12/22/2017	12/21/2017
1026	OL	40151200	12/22/2017	2017	12	ZJ	9200077392	50	-781.40		2602	12/22/2017	12/21/2017
1026	OL	40151200	12/26/2017	2017	12	ZJ	9200077440	50	-18.53		2602	12/26/2017	12/22/2017
1026	OL	40151200	12/26/2017	2017	12	ZJ	9200077440	50	-2.43		2602	12/26/2017	12/22/2017
1026	OL	40151200	12/26/2017	2017	12	ZJ	9200077440	50	-21.70		2602	12/26/2017	12/22/2017
1026	OL	40151200	12/26/2017	2017	12	ZJ	9200077440	50	-30.91		2602	12/26/2017	12/22/2017
1026	OL	40151200	12/22/2017	2017	12	ZJ	9200077461	50	-1,229.53		2602	12/22/2017	12/22/2017
1026	OL	40151200	12/26/2017	2017	12	ZJ	9200077463	50	-935.21		2602	12/22/2017	12/22/2017
1026	OL	40151200	12/28/2017	2017	12	ZJ	9200077523	40	8.45		2602	12/28/2017	12/27/2017
1026	OL	40151200	12/28/2017	2017	12	ZJ	9200077523	50	-364.63		2602	12/28/2017	12/27/2017
1026	OL	40151200	12/28/2017	2017	12	ZJ	9200077523	50	-178.64		2602	12/28/2017	12/27/2017
1026	OL	40151200	12/27/2017	2017	12	ZJ	9200077554	50	-1,532.57		2602	12/27/2017	12/27/2017
1026	OL	40151200	12/28/2017	2017	12	ZJ	9200077555	50	-1.87		2602	12/27/2017	12/27/2017
1026	OL	40151200	12/26/2017	2017	12	ZJ	9200077556	50	-1,005.26		2602	12/26/2017	12/27/2017
1026	OL	40151200	12/26/2017	2017	12	ZJ	9200077556	50	-1,541.29		2602	12/26/2017	12/27/2017
1026	OL	40151200	12/29/2017	2017	12	ZJ	9200077590	50	-16.00		2602	12/29/2017	12/28/2017
1026	OL	40151200	12/29/2017	2017	12	ZJ	9200077590	50	-1,373.82		2602	12/29/2017	12/28/2017
1026	OL	40151200	12/29/2017	2017	12	ZJ	9200077590	50	-12.18		2602	12/29/2017	12/28/2017
1026	OL	40161200	12/20/2017	2017	12	ZJ	9200077277	50	-58.73		2602	12/20/2017	12/19/2017
1026	OL	40161200	12/26/2017	2017	12	ZJ	9200077556	50	-5,541.45		2602	12/26/2017	12/27/2017
1026	OL	40161200	12/26/2017	2017	12	ZJ	9200077556	40	0.64		2602	12/26/2017	12/27/2017
1026	OL	40161200	12/26/2017	2017	12	ZJ	9200077556	50	-3,945.19		2602	12/26/2017	12/27/2017
1026	OL	40161200	12/28/2017	2017	12	ZJ	9200077607	50	-424.43		2602	12/28/2017	12/28/2017
1026	OL	40171100	12/18/2017	2017	12	ZJ	9200077179	50	-67.47		2602	12/18/2017	12/15/2017
1026	OL	40171100	12/19/2017	2017	12	ZJ	9200077238	50	-42.92		2602	12/19/2017	12/18/2017
1026	OL	40171100	12/27/2017	2017	12	ZJ	9200077539	40	20.51		2602	12/27/2017	12/27/2017
1026	OL	40171100	12/27/2017	2017	12	ZJ	9200077539	40	22.20		2602	12/27/2017	12/27/2017
1026	OL	40171100	12/27/2017	2017	12	ZJ	9200077539	40	19.21		2602	12/27/2017	12/27/2017
1026	OL	40171100	12/27/2017	2017	12	ZJ	9200077539	40	22.20		2602	12/27/2017	12/27/2017
1026	OL	40171100	12/28/2017	2017	12	ZJ	9200077555	50	-20.40		2602	12/27/2017	12/27/2017
1026	OL	40171100	12/28/2017	2017	12	ZJ	9200077555	50	-20.43		2602	12/27/2017	12/27/2017
1026	OL	40171100	12/28/2017	2017	12	ZJ	9200077555	50	-20.37		2602	12/27/2017	12/27/2017
1026	OL	40171100	12/28/2017	2017	12	ZJ	9200077555	50	-20.48		2602	12/27/2017	12/27/2017
1026	OL	40171100	12/28/2017	2017	12	ZJ	9200077555	50	-19.08		2602	12/27/2017	12/27/2017

**TENNESSEE AMERICAN WATER COMPANY
DOCKET NO. 18-00022
THIRD DISCOVERY REQUEST OF THE
CONSUMER ADVOCATE AND PROTECTION DIVISION**

Responsible Witness: **Linda C. Bridwell**

Question:

20. Regarding the response to CPAD 1-7, confirm that the referenced work order is actually R26-02D1.15-P-003-CN, rather than the referenced R12-02D1.15-003-CN. If this is not confirmed, identify where this reimbursement is reflected within the TAWC workpapers.

Response:

The response to Item 7 of the CPAD's First Discovery Request in this docket should have referenced work order # as R26-02D1.15-P-0003-CN. This was an unintentional typo in the prior response.

**TENNESSEE AMERICAN WATER COMPANY
DOCKET NO. 18-00022
THIRD DISCOVERY REQUEST OF THE
CONSUMER ADVOCATE AND PROTECTION DIVISION**

Responsible Witness: **Brent E. O'Neill**

Question:

21. When TAWC prepares its budget filing, does it net anticipated governmental reimbursements against its projected costs when determining its net investment subject to the capital riders? If not provide the rationale for not including such estimates in the budget process and explain how ratepayers are protected from excessive budget charges.

Response:

Yes, when TAWC prepares its budget filing it captures the reimbursements of main relocations that the Company is aware will occur during that period. TAWC does not net out the reimbursement on the budget line, specifically the Line D Mains – Relocated. More specifically, TAWC indicates the full cost of the anticipated work associated with the relocation of a main in Line D Mains – Relocated. If a reimbursement is expected on a particular project, TAWC will indicate the reimbursement as a Contribution in its budget filing as indicated on the Capital Expenditure Plan. In this way, the Gross budget amount will reflect the level of work that the company expects and the Net budget amount will reflect the overall budget following the receipt of reimbursements.

**TENNESSEE AMERICAN WATER COMPANY
DOCKET NO. 18-00022
THIRD DISCOVERY REQUEST OF THE
CONSUMER ADVOCATE AND PROTECTION DIVISION**

Responsible Witness: **Linda C. Bridwell**

Question:

22. Refer to "TAW_APP_SCH1_2017" and to "TAW_2017_Capital_Rider_Recon." Specifically, refer to the tab "WKP PTR&CF" in the "TAW_APP_SCH1_2017" file and the "Exhibit Reconciliation" tab in the "TAW_2017_Capital_Rider_Recon" file. Provide a comprehensive explanation why the budget file uses a different property tax rate than is used to calculate Property Taxes within the reconciliation file.

Response:

The property tax rate in the recon file has inadvertently been overstated by .00065% due to a zero missing in the fourth decimal place. This unintentional typo results in a rounding difference of \$307 for 2017.

**TENNESSEE AMERICAN WATER COMPANY
DOCKET NO. 18-00022
THIRD DISCOVERY REQUEST OF THE
CONSUMER ADVOCATE AND PROTECTION DIVISION**

Responsible Witness: **Linda C. Bridwell**

Question:

23. Provide an update to the "Proposed Sheet No. 12- Riders Twelfth Revision" as included with the Petition to include the updated PCOP Percentage from Docket 18-00009.

Response:

Please refer to the attachment.

CLASSIFICATION OF SERVICE**SUMMARY OF RIDERS****1. Applicability**

In addition to the other charges provided for in this Tariff under Service Classifications Residential, Commercial, Industrial, Other Public Authority, Sales for Resale, and Private Fire, a Qualified Infrastructure Improvement Program ("QIIP") Rider, an Economic Development Investment Program Rider ("EDI"), a Safety and Environmental Compliance Program Rider (SEC"), and Production Costs and Other Pass-Throughs Rider ("PCOP") will apply to customers in all service areas.

2. The Percentage of Riders and Reconciliations

For the Riders defined in the tariffs:

QIIP	10.05 %	
EDI	0.41 %	
<u>SEC</u>	<u>5.97 %</u>	
Subtotal of all Capital Recovery Riders	16.43 %	
QIIP Annual Reconciliation Percentage	2.484 %	(I)
EDI Annual Reconciliation Percentage	-0.053 %	(D)
<u>SEC Annual Reconciliation Percentage</u>	<u>-0.059 %</u>	(D)
Subtotal of all Reconciliation Percentages	2.372 %	(I)
Total of Capital Recovery Riders and Reconciliation Percentages	18.802%	(I)
PCOP	-1.25 %	

(D) Indicates Decrease

(I) Indicates Increase

ISSUED: June 1, 2018 EFFECTIVE: August 23, 2018

BY:

Valoria Armstrong
PRESIDENT

109 Wiehl Street
Chattanooga, Tennessee 37403

**TENNESSEE AMERICAN WATER COMPANY
DOCKET NO. 18-00022
THIRD DISCOVERY REQUEST OF THE
CONSUMER ADVOCATE AND PROTECTION DIVISION**

Responsible Witness: **Linda C. Bridwell**

Question:

24. Provide a sample of a typical residential customer's bill.

Response:

 Please refer to the attached.

ADDRESS AND PHONE NUMBER CHANGE REQUEST FORM

Please let us know if we need to update your contact information in our records. NOTE: If you are moving or need to make a name change, please contact our customer service center at the phone number listed on the front of this bill. Updates to your contact information can also be made through our online web self-service tool, My H2O Online at www.amwater.com/myh2o.

Mailing Address 1

Mailing Address 2

City, State and Zip

Telephone Number

()

PROJECT WATER HELP

☐ Yes, I would like to lend a hand to customers in need by contributing to the PROJECT WATER HELP in the amount of \$ _____ per billing period. I understand this amount will be added to my water bill until further notice.

Sign up for our automatic payment program, and pay your bill on time, every time. No stamps required! To learn more, visit us online at www.amwater.com/myh2o.

WAYS TO PAY YOUR BILL

Auto Pay Program: Pay your bill automatically on time, every time by signing up for a free electronic payment transfer from your bank account. Sign up at amwater.com/myh2o.

Online: Pay anytime through our payment partner at amwater.com/billpay. There is a \$1.95 vendor service fee for per transaction. To avoid this fee, log on to amwater.com/myh2o and pay by e-check.

Phone: Pay anytime through our payment partner's automated phone system at 1-855-748-6066. A \$1.95 vendor service fee applies to all transactions.

Mail: Return your check or money order, along with the pre-addressed payment stub, in the envelope provided with your bill.

In Person: We have agreements with local businesses to accept payments on our behalf. For a list of authorized payment locations, visit amwater.com or call us at 1-866-736-6420

- Please send written correspondence to Customer Service at PO

Box 578, Alton, IL 62002-0578. Be sure to include your name, account number, service address, mailing address and phone number including area code. Please do not include payment along with your correspondence.

- With all correspondence, please include your name, account number, service address, mailing address and telephone number with area code.
- The enclosed envelope is for payment only. Including correspondence in this envelope may delay processing of both your payment and your correspondence.
- Paying by check authorizes American Water to send the information from your check electronically to your bank for payment. The transaction will appear on your bank statement. The physical check will not be presented to your financial institution or returned to you..

**TENNESSEE AMERICAN WATER COMPANY
DOCKET NO. 18-00022
THIRD DISCOVERY REQUEST OF THE
CONSUMER ADVOCATE AND PROTECTION DIVISION**

Responsible Witness: **Linda C. Bridwell**

Question:

25. Confirm that TAWC has only capitalized 50% of incentive compensation applicable to 2017 capital expenditures as outlined in the rebuttal testimony of Linda Bridwell in Docket No. 17-00020.

Response:

TAWC only capitalized 50% of incentive compensation applicable to 2017 capital expenditures as outlined in my testimony in Docket No. 17-00020.

**TENNESSEE AMERICAN WATER COMPANY
DOCKET NO. 18-00022
THIRD DISCOVERY REQUEST OF THE
CONSUMER ADVOCATE AND PROTECTION DIVISION**

Responsible Witness: **Linda C. Bridwell**

Question:

26. Refer to CPAD Attachment 1 to this Discovery Request. CPAD Attachment 1 is a subject of work orders from the “TAW_R_CPADDR2_NUM001 Attachment.xlsx” provided by the Company on May 16th, 2018. For each of the work orders shown in CPAD Attachment 1, provide the supporting invoices or other supporting documentation for these charges.

Response:

Please refer to the attachment files referenced below for each work order. Each attachment file begins with the title “TAW_R_CPADDR3_NUM026_060118”.

R26-02D1.17-P-0007 – Attachment 1 for cost summary and transactions. Attachment 1A for invoices.

R26-02R1.17-P-0002 – Attachment 2 for cost summary and transactions. Attachment 2A for invoices.

R26-02A1.17-P-0003 – Attachment 3 for cost summary and transactions. Attachment 3A for invoices.

I26-020032-01 – Attachment 4 for cost summary and transactions. Attachment 4A for invoices.

R26-02Q1.17-P-0017 – Attachment 5 for cost summary and transactions. Attachment 5A for invoices.

Tennessee-American Water Company
Docket #18-00022
Response to TAW_R_CPADDR3_026
Cost Summary Related to Work Order #R26-02D1.17-P-0007

Work Order	Cost Type	Amount	Amount
R26-02D1.17-P-0007	Additions	2,037,926.97	\$2,037,926.97
	Removals	-	17,854.13
	CIAC	(1,718,549.38)	(1,718,549.38)
			<u>\$337,231.72</u>

Work Order	General Cost Type	General Cost Description	Amount
R26-02D1.17-P-0007	Labor	Labor & Related Costs	\$21,949.89
	Inventory	Materials Issued from Inventory	57.63
	Invoices	Contracted Services & Non-Inventory Materials	217,921.98
	Salvage	Salvage/Scrap Receipts	0.00
	AFUDC	Allowance for Funds Used During Construction	73,488.35
	Capital Accrual	Cost Accruals Related to Construction	0.00
	Overhead	Indirect Overhead	<u>23,813.87</u>
			<u>\$337,231.72</u>

From recon file "TAW_2017_CapRider_Cost_Detail Source: Powerplant

company_c	work_order_number	charge_type	external_cost_element	cost_element	charge_mo_yr	gl_accoun nt	external_gl_acc ount	closed_month _number	vendor_inform ation	work_order_description	in_service_date	amount	Type	Rider	Cost Type
1026-Tennessee Ameri	R26-02D1.17-P-0007	AFUDC Debt	85000000	AFUDC Debt	9/1/2017 0:00	10600000	10700000	201709		East Brainerd TDOT Project	8/1/2017 0:00	37,137.19	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Contracted Services	53150000	Contr Svc-Other	9/1/2017 0:00	10600000	10700000	201709		East Brainerd TDOT Project	8/1/2017 0:00	56,826.95	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Labor Overhead	68535100	SUTA Cap Credits	8/1/2017 0:00	10600000	10700000	201708		East Brainerd TDOT Project	8/1/2017 0:00	237.05	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Labor Overhead	68532100	FUTA Cap Credits	8/1/2017 0:00	10600000	10700000	201708		East Brainerd TDOT Project	8/1/2017 0:00	22,205.50	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Labor	50109900	Labor Cap Credits	9/1/2017 0:00	10600000	10700000	201709		East Brainerd TDOT Project	8/1/2017 0:00	0.00	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Labor Overhead	50421100	401k Exp Cap Credits	9/1/2017 0:00	10600000	10700000	201709		East Brainerd TDOT Project	8/1/2017 0:00	(17.21)	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Labor Overhead	50422100	DCP Exp Cap Credits	9/1/2017 0:00	10600000	10700000	201709		East Brainerd TDOT Project	8/1/2017 0:00	517.00	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Labor Overhead	50426100	Retiree Med Cap Cr	8/1/2017 0:00	10600000	10700000	201708		East Brainerd TDOT Project	8/1/2017 0:00	33,617.64	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Materials & Supplies	52000000	M&S Natural Account	8/1/2017 0:00	10600000	10700000	201708		East Brainerd TDOT Project	8/1/2017 0:00	14.33	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Overhead	52801100	Indirect OH Clearing	8/1/2017 0:00	10600000	10700000	201708		East Brainerd TDOT Project	8/1/2017 0:00	10,421.08	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	AFUDC Debt	85000000	AFUDC Debt	8/1/2017 0:00	10600000	10700000	201708		East Brainerd TDOT Project	8/1/2017 0:00	929.97	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Contracted Services	53110000	Contr Svc-Eng	8/1/2017 0:00	10600000	10700000	201708		East Brainerd TDOT Project	8/1/2017 0:00	2,406.30	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Other	55000100	Trans Cap Credits	9/1/2017 0:00	10600000	10700000	201709		East Brainerd TDOT Project	8/1/2017 0:00	(56,147.58)	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Other	55000100	Trans Cap Credits	8/1/2017 0:00	10600000	10700000	201708		East Brainerd TDOT Project	8/1/2017 0:00	56,880.47	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Overhead	52801100	Indirect OH Clearing	9/1/2017 0:00	10600000	10700000	201709		East Brainerd TDOT Project	8/1/2017 0:00	11,154.28	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Labor Overhead	50510100	PBOP Cap Credits	9/1/2017 0:00	10600000	10700000	201709		East Brainerd TDOT Project	8/1/2017 0:00	1,606.88	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Labor Overhead	50550100	Group Ins Cap Credits	8/1/2017 0:00	10600000	10700000	201708		East Brainerd TDOT Project	8/1/2017 0:00	69.01	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Other	55720100	Ins W/C Cap Credits	8/1/2017 0:00	10600000	10700000	201708		East Brainerd TDOT Project	8/1/2017 0:00	197.22	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	AFUDC Equity	70510000	AFUDC-Equity	8/1/2017 0:00	10600000	10700000	201708		East Brainerd TDOT Project	8/1/2017 0:00	0.98	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Labor Overhead	50550100	Group Ins Cap Credits	9/1/2017 0:00	10600000	10700000	201709		East Brainerd TDOT Project	8/1/2017 0:00	2,467.41	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Other	52535100	Meals Nondeductible	8/1/2017 0:00	10600000	10700000	201708		East Brainerd TDOT Project	8/1/2017 0:00	1,652.55	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	AFUDC Equity	70510000	AFUDC-Equity	9/1/2017 0:00	10600000	10700000	201709		East Brainerd TDOT Project	8/1/2017 0:00	35,420.21	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Contracted Services	53110000	Contr Svc-Eng	9/1/2017 0:00	10600000	10700000	201709		East Brainerd TDOT Project	8/1/2017 0:00	144,206.39	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Contracted Services	53150000	Contr Svc-Other	8/1/2017 0:00	10600000	10700000	201708		East Brainerd TDOT Project	8/1/2017 0:00	53.52	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Labor Overhead	50426100	Retiree Med Cap Cr	9/1/2017 0:00	10600000	10700000	201709		East Brainerd TDOT Project	8/1/2017 0:00	(33,601.81)	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Labor Overhead	50610100	Pension Cap Credits	9/1/2017 0:00	10600000	10700000	201709		East Brainerd TDOT Project	8/1/2017 0:00	(145,913.70)	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Labor Overhead	68533100	FICA Cap Credits	9/1/2017 0:00	10600000	10700000	201709		East Brainerd TDOT Project	8/1/2017 0:00	(35,424.00)	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Labor Overhead	50510100	PBOP Cap Credits	8/1/2017 0:00	10600000	10700000	201708		East Brainerd TDOT Project	8/1/2017 0:00	60.00	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Labor Overhead	50422100	DCP Exp Cap Credits	8/1/2017 0:00	10600000	10700000	201708		East Brainerd TDOT Project	8/1/2017 0:00	(1.21)	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Licenses, Permits & Misc Fees	62520800	Misc Maint Permits	8/1/2017 0:00	10600000	10700000	201708		East Brainerd TDOT Project	8/1/2017 0:00	698.99	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Other	55720100	Ins W/C Cap Credits	9/1/2017 0:00	10600000	10700000	201709		East Brainerd TDOT Project	8/1/2017 0:00	39.83	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Other	52535100	Meals Nondeductible	9/1/2017 0:00	10600000	10700000	201709		East Brainerd TDOT Project	8/1/2017 0:00	(1,599.37)	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Labor Overhead	68532100	FUTA Cap Credits	9/1/2017 0:00	10600000	10700000	201709		East Brainerd TDOT Project	8/1/2017 0:00	(22,204.58)	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Labor Overhead	50421100	401k Exp Cap Credits	8/1/2017 0:00	10600000	10700000	201708		East Brainerd TDOT Project	8/1/2017 0:00	373.92	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Labor Overhead	50610100	Pension Cap Credits	8/1/2017 0:00	10600000	10700000	201708		East Brainerd TDOT Project	8/1/2017 0:00	146,612.69	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Labor	50109900	Labor Cap Credits	8/1/2017 0:00	10600000	10700000	201708		East Brainerd TDOT Project	8/1/2017 0:00	12,869.73	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Labor Overhead	68535100	SUTA Cap Credits	9/1/2017 0:00	10600000	10700000	201709		East Brainerd TDOT Project	8/1/2017 0:00	(241.85)	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Labor Overhead	68533100	FICA Cap Credits	8/1/2017 0:00	10600000	10700000	201708		East Brainerd TDOT Project	8/1/2017 0:00	36,314.04	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Licenses, Permits & Misc Fees	62520800	Misc Maint Permits	9/1/2017 0:00	10600000	10700000	201709		East Brainerd TDOT Project	8/1/2017 0:00	(501.77)	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Materials & Supplies	52000000	M&S Natural Account	9/1/2017 0:00	10600000	10700000	201709		East Brainerd TDOT Project	8/1/2017 0:00	39.54	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007	Other	52801500	Dev Fund Const Clrg	8/1/2017 0:00	10600000	10700000	201708		East Brainerd TDOT Project	8/1/2017 0:00	1,718,549.38	D	QIIP	Additions
1026-Tennessee Ameri	R26-02D1.17-P-0007-CN	CIAC Non-Taxable	72802100	CIAC Rcpt Non-SrvClr	8/1/2017 0:00	27100000	27117000	201708		East Brainerd TDOT Project	8/1/2017 0:00	(1,688,672.79)	D	QIIP	CIAC
1026-Tennessee Ameri	R26-02D1.17-P-0007-CO	CIAC Taxable	72802000	CIAC Rcpt Svcs Clrg	8/1/2017 0:00	27100000	27127000	201708		East Brainerd TDOT Project	8/1/2017 0:00	(29,876.59)	D	QIIP	CIAC

Tennessee-American Water Company
Docket #18-00022
Response to TAW_R_CPADDR3_026
Cost Detail Related to Work Order #R26-02D1.17-P-0007

Source: SAP

Company Code	Object	Document Type	Document Number	Cost Element	Cost element descr.	Val/COArea Crpy	Posting Date	Created on	Partner object	Offsetting acct no.	Name of offsetting account	Period	Fiscal Year
1026	R26-02D1.17-P-0007	SA	1005430778	72802100	CIAC Receipt Non-Services Clearing	-1,688,672.79	8/28/2017	8/31/2017		52801500	Dev Fund Const Clrg	8	2017
1026	R26-02D1.17-P-0007	SA	1005430778	72802000	CIAC Receipt Services Clearing	-29,876.59	8/28/2017	8/31/2017		52801500	Dev Fund Const Clrg	8	2017
1026	R26-02D1.17-P-0007	SA	1005430778	52801500	Dev Funded Const Clearing	1,718,549.38	8/28/2017	8/31/2017		72802100	CIAC Rcpt Non-SrvClr	8	2017
1026	R26-02D1.17-P-0007	SL	1005459954	52801100	Indirect Overhead Clearing	43,745.24	8/31/2017	9/1/2017		10780110	CWIP-EngClearDist OH	8	2017
1026	R26-02D1.17-P-0007	SL	1005459954	52805100	Indirect Overhead RWIP Clearing	3,056.42	8/31/2017	9/1/2017		10780110	CWIP-EngClearDist OH	8	2017
1026	R26-02D1.17-P-0007	UI	1005464365	85000000	AFUDC Debt	1,642.10	8/31/2017	9/5/2017		18503000	RA-ITRTR-AFUDC CWIP	8	2017
1026	R26-02D1.17-P-0007	UI	1005464365	70510000	AFUDC - Equity	1,487.39	8/31/2017	9/5/2017		18503000	RA-ITRTR-AFUDC CWIP	8	2017
1026	R26-02D1.17-P-0007	SA	1005465623	52801100	Indirect Overhead Clearing	-33,406.11	8/31/2017	9/5/2017		52801100	Indirect OH Clearing	8	2017
1026	R26-02D1.17-P-0007	SA	1005465623	70510000	AFUDC - Equity	-1,487.39	8/31/2017	9/5/2017		52801100	Indirect OH Clearing	8	2017
1026	R26-02D1.17-P-0007	SA	1005465623	85000000	AFUDC Debt	-1,642.10	8/31/2017	9/5/2017		52801100	Indirect OH Clearing	8	2017
1026	R26-02D1.17-P-0007	SL	1005558752	52805100	Indirect Overhead RWIP Clearing	-874.81	9/30/2017	10/2/2017		52801100	Indirect OH Clearing	9	2017
1026	R26-02D1.17-P-0007	SL	1005558752	52801100	Indirect Overhead Clearing	-12,520.74	9/30/2017	10/2/2017		52801100	Indirect OH Clearing	9	2017
1026	R26-02D1.09-P-0006	ZY	1000000438	70510000	AFUDC - Equity	103.01	12/31/2009	7/20/2012		29999999	999 Line JE Clearg	12	2009
1026	R26-02D1.09-P-0006	ZY	1000000438	85000000	AFUDC Debt	115.02	12/31/2009	7/20/2012		29999999	999 Line JE Clearg	12	2009
1026	R26-02D1.09-P-0006	ZY	1000000438	52801100	Indirect Overhead Clearing	1,579.46	12/31/2009	7/20/2012		29999999	999 Line JE Clearg	12	2009
1026	R26-02D1.09-P-0006	ZY	1000000438	53150000	Contract Svc-Other - Natural Account	6,472.68	12/31/2009	7/20/2012		29999999	999 Line JE Clearg	12	2009
1026	R26-02D1.09-P-0006	ZY	1000000438	52801100	Indirect Overhead Clearing	9.46	12/31/2009	7/20/2012		29999999	999 Line JE Clearg	12	2009
1026	R26-02D1.09-P-0006	ZY	1000000438	50550000	Group Insurance Expense	11.68	12/31/2009	7/20/2012		29999999	999 Line JE Clearg	12	2009
1026	R26-02D1.09-P-0006	ZY	1000000438	50100000	Labor Natural Account	23.30	12/31/2009	7/20/2012		29999999	999 Line JE Clearg	12	2009
1026	R26-02D1.09-P-0006	ZY	1000000733	70510000	AFUDC - Equity	28.08	3/31/2010	7/20/2012		88106000	CAP Move-CCNC	3	2010
1026	R26-02D1.09-P-0006	ZY	1000000733	53150000	Contract Svc-Other - Natural Account	1,085.67	3/31/2010	7/20/2012		88106000	CAP Move-CCNC	3	2010
1026	R26-02D1.09-P-0006	ZY	1000000733	85000000	AFUDC Debt	31.35	3/31/2010	7/20/2012		88106000	CAP Move-CCNC	3	2010
1026	R26-02D1.09-P-0006	ZY	1000000733	52801100	Indirect Overhead Clearing	111.50	3/31/2010	7/20/2012		88106000	CAP Move-CCNC	3	2010
1026	R26-02D1.09-P-0006	ZY	1000000734	52500000	Misc Exp (O&M) - Natural Acct	260.86	4/30/2010	7/20/2012		29999999	999 Line JE Clearg	4	2010
1026	R26-02D1.09-P-0006	ZY	1000000734	52801100	Indirect Overhead Clearing	865.20	4/30/2010	7/20/2012		29999999	999 Line JE Clearg	4	2010
1026	R26-02D1.09-P-0006	ZY	1000000734	50100000	Labor Natural Account	55.55	4/30/2010	7/20/2012		29999999	999 Line JE Clearg	4	2010
1026	R26-02D1.09-P-0006	ZY	1000000734	70510000	AFUDC - Equity	44.78	4/30/2010	7/20/2012		29999999	999 Line JE Clearg	4	2010
1026	R26-02D1.09-P-0006	ZY	1000000734	50550000	Group Insurance Expense	25.40	4/30/2010	7/20/2012		29999999	999 Line JE Clearg	4	2010
1026	R26-02D1.09-P-0006	ZY	1000000734	53150000	Contract Svc-Other - Natural Account	8,343.65	4/30/2010	7/20/2012		29999999	999 Line JE Clearg	4	2010
1026	R26-02D1.09-P-0006	ZY	1000000734	85000000	AFUDC Debt	50.00	4/30/2010	7/20/2012		29999999	999 Line JE Clearg	4	2010
1026	R26-02D1.09-P-0006	ZY	1000001018	52801100	Indirect Overhead Clearing	701.26	5/31/2010	7/20/2012		29999999	999 Line JE Clearg	5	2010
1026	R26-02D1.09-P-0006	ZY	1000001018	52500000	Misc Exp (O&M) - Natural Acct	(260.86)	5/31/2010	7/20/2012		53150000	Contr Svc-Other	5	2010
1026	R26-02D1.09-P-0006	ZY	1000001018	50550000	Group Insurance Expense	11.04	5/31/2010	7/20/2012		29999999	999 Line JE Clearg	5	2010
1026	R26-02D1.09-P-0006	ZY	1000001018	70510000	AFUDC - Equity	71.57	5/31/2010	7/20/2012		29999999	999 Line JE Clearg	5	2010
1026	R26-02D1.09-P-0006	ZY	1000001018	85000000	AFUDC Debt	79.91	5/31/2010	7/20/2012		29999999	999 Line JE Clearg	5	2010
1026	R26-02D1.09-P-0006	ZY	1000001018	50100000	Labor Natural Account	11.07	5/31/2010	7/20/2012		29999999	999 Line JE Clearg	5	2010
1026	R26-02D1.09-P-0006	ZY	1000001018	53150000	Contract Svc-Other - Natural Account	6,806.09	5/31/2010	7/20/2012		29999999	999 Line JE Clearg	5	2010
1026	R26-02D1.09-P-0006	ZY	1000001024	70510000	AFUDC - Equity	84.16	6/30/2010	7/20/2012		29999999	999 Line JE Clearg	6	2010
1026	R26-02D1.09-P-0006	ZY	1000001024	85000000	AFUDC Debt	93.96	6/30/2010	7/20/2012		29999999	999 Line JE Clearg	6	2010
1026	R26-02D1.09-P-0006	ZY	1000001024	52801100	Indirect Overhead Clearing	14.78	6/30/2010	7/20/2012		29999999	999 Line JE Clearg	6	2010
1026	R26-02D1.09-P-0006	ZY	1000001024	50100000	Labor Natural Account	71.76	6/30/2010	7/20/2012		29999999	999 Line JE Clearg	6	2010
1026	R26-02D1.09-P-0006	ZY	1000001024	50550000	Group Insurance Expense	72.12	6/30/2010	7/20/2012		29999999	999 Line JE Clearg	6	2010
1026	R26-02D1.09-P-0006	ZY	1000001024	52500000	Misc Exp (O&M) - Natural Acct	1,221.02	6/30/2010	7/20/2012		29999999	999 Line JE Clearg	6	2010
1026	R26-02D1.09-P-0006	ZY	1000001708	85000000	AFUDC Debt	130.46	7/31/2010	7/20/2012		29999999	999 Line JE Clearg	7	2010
1026	R26-02D1.09-P-0006	ZY	1000001708	70510000	AFUDC - Equity	116.85	7/31/2010	7/20/2012		29999999	999 Line JE Clearg	7	2010
1026	R26-02D1.09-P-0006	ZY	1000001708	52500000	Misc Exp (O&M) - Natural Acct	(1,221.02)	7/31/2010	7/20/2012		53150000	Contr Svc-Other	7	2010
1026	R26-02D1.09-P-0006	ZY	1000001708	53150000	Contract Svc-Other - Natural Account	17,759.20	7/31/2010	7/20/2012		29999999	999 Line JE Clearg	7	2010
1026	R26-02D1.09-P-0006	ZY	1000001708	52801100	Indirect Overhead Clearing	1,949.79	7/31/2010	7/20/2012		29999999	999 Line JE Clearg	7	2010
1026	R26-02D1.09-P-0006	ZY	1000001708	50100000	Labor Natural Account	258.90	7/31/2010	7/20/2012		29999999	999 Line JE Clearg	7	2010
1026	R26-02D1.09-P-0006	ZY	1000001708	50550000	Group Insurance Expense	272.60	7/31/2010	7/20/2012		29999999	999 Line JE Clearg	7	2010
1026	R26-02D1.09-P-0006	ZY	1000000730	85000000	AFUDC Debt	186.94	8/31/2010	7/20/2012		88900000	CAP Move-Settlement	8	2010
1026	R26-02D1.09-P-0006	ZY	1000000730	52801100	Indirect Overhead Clearing	1,096.36	8/31/2010	7/20/2012		88900000	CAP Move-Settlement	8	2010
1026	R26-02D1.09-P-0006	ZY	1000000730	50100000	Labor Natural Account	172.60	8/31/2010	7/20/2012		88900000	CAP Move-Settlement	8	2010
1026	R26-02D1.09-P-0006	ZY	1000000730	70510000	AFUDC - Equity	167.43	8/31/2010	7/20/2012		88900000	CAP Move-Settlement	8	2010
1026	R26-02D1.09-P-0006	ZY	1000000730	52500000	Misc Exp (O&M) - Natural Acct	3,127.92	8/31/2010	7/20/2012		88900000	CAP Move-Settlement	8	2010
1026	R26-02D1.09-P-0006	ZY	1000000730	50550000	Group Insurance Expense	140.02	8/31/2010	7/20/2012		88900000	CAP Move-Settlement	8	2010
1026	R26-02D1.09-P-0006	ZY	1000000730	53150000	Contract Svc-Other - Natural Account	9,972.15	8/31/2010	7/20/2012		88900000	CAP Move-Settlement	8	2010
1026	R26-02D1.09-P-0006	ZY	1000000841	70510000	AFUDC - Equity	195.99	9/30/2010	7/20/2012		29999999	999 Line JE Clearg	9	2010
1026	R26-02D1.09-P-0006	ZY	1000000841	85000000	AFUDC Debt	218.82	9/30/2010	7/20/2012		29999999	999 Line JE Clearg	9	2010
1026	R26-02D1.09-P-0006	ZY	1000000841	52801100	Indirect Overhead Clearing	582.19	9/30/2010	7/20/2012		29999999	999 Line JE Clearg	9	2010
1026	R26-02D1.09-P-0006	ZY	1000000841	53150000	Contract Svc-Other - Natural Account	5,461.40	9/30/2010	7/20/2012		29999999	999 Line JE Clearg	9	2010
1026	R26-02D1.09-P-0006	ZY	1000000841	52500000	Misc Exp (O&M) - Natural Acct	(3,127.92)	9/30/2010	7/20/2012		53150000	Contr Svc-Other	9	2010
1026	R26-02D1.09-P-0006	ZY	1000000846	85000000	AFUDC Debt	230.91	10/31/2010	7/20/2012		29999999	999 Line JE Clearg	10	2010
1026	R26-02D1.09-P-0006	ZY	1000000846	52500000	Misc Exp (O&M) - Natural Acct	11.11	10/31/2010	7/20/2012		29999999	999 Line JE Clearg	10	2010
1026	R26-02D1.09-P-0006	ZY	1000000846	70510000	AFUDC - Equity	206.81	10/31/2010	7/20/2012		29999999	999 Line JE Clearg	10	2010
1026	R26-02D1.09-P-0006	ZY	1000000852	52500000	Misc Exp (O&M) - Natural Acct	(11.11)	11/30/2010	7/20/2012		53150000	Contr Svc-Other	11	2010
1026	R26-02D1.09-P-0006	ZY	1000000852	70510000	AFUDC - Equity	208.19	11/30/2010	7/20/2012		52500000	Misc Expense (O&M)	11	2010
1026	R26-02D1.09-P-0006	ZY	1000000852	85000000	AFUDC Debt	232.45	11/30/2010	7/20/2012		52500000	Misc Expense (O&M)	11	2010
1026	R26-02D1.09-P-0006	ZY	1000000856	70510000	AFUDC - Equity	209.80	12/31/2010	7/20/2012		88900000	CAP Move-Settlement	12	2010
1026	R26-02D1.09-P-0006	ZY	1000000856	52500000	Misc Exp (O&M) - Natural Acct	419.25	12/31/2010	7/20/2012		88900000	CAP Move-Settlement	12	2010
1026	R26-02D1.09-P-0006	ZY	1000000856	85000000	AFUDC Debt	234.25	12/31/2010	7/20/2012		88900000	CAP Move-Settlement	12	2010
1026	R26-02D1.09-P-0006	ZY	1000000856	52801100	Indirect Overhead Clearing	73.21	12/31/2010	7/20/2012		88900000	CAP Move-Settlement	12	2010
1026	R26-02D1.09-P-0006	ZY	1000000856	53150000	Contract Svc-Other - Natural Account	124.00	12/31/2010	7/20/2012		88900000	CAP Move-Settlement	12	2010
1026	R26-02D1.09-P-0006	ZY	1000000859	52500000	Misc Exp (O&M) - Natural Acct	(419.25)	1/31/2011	7/20/2012		52801000	Capital Purchase Clr	1	2011
1026	R26-02D1.09-P-0006	ZY	1000000859										

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Company Code	Object	Document Type	Document Number	Cost Element	Cost element descr.	Val/COArea CrCy	Posting Date	Created on	Partner object	Offsetting acct no.	Name of offsetting account	Period	Fiscal Year
1026	R26-02D1.09-P-0006	ZY	1000000859	70510000	AFUDC - Equity	211.60	1/31/2011	7/20/2012		29999999	999 Line JE Clearg	1	2011
1026	R26-02D1.09-P-0006	ZY	1000000442	52500000	Misc Exp (O&M) - Natural Acct	939.41	2/28/2011	7/20/2012		88106000	CAP Move-CCNC	2	2011
1026	R26-02D1.09-P-0006	ZY	1000000442	85000000	AFUDC Debt	237.83	2/28/2011	7/20/2012		88106000	CAP Move-CCNC	2	2011
1026	R26-02D1.09-P-0006	ZY	1000000442	70510000	AFUDC - Equity	213.01	2/28/2011	7/20/2012		88106000	CAP Move-CCNC	2	2011
1026	R26-02D1.09-P-0006	ZY	1000000447	52801100	Indirect Overhead Clearing	18.18	3/31/2011	7/20/2012		29999999	999 Line JE Clearg	3	2011
1026	R26-02D1.09-P-0006	ZY	1000000447	85000000	AFUDC Debt	239.88	3/31/2011	7/20/2012		29999999	999 Line JE Clearg	3	2011
1026	R26-02D1.09-P-0006	ZY	1000000447	53150000	Contract Svc-Other - Natural Account	248.00	3/31/2011	7/20/2012		29999999	999 Line JE Clearg	3	2011
1026	R26-02D1.09-P-0006	ZY	1000000447	70510000	AFUDC - Equity	214.85	3/31/2011	7/20/2012		29999999	999 Line JE Clearg	3	2011
1026	R26-02D1.09-P-0006	ZY	1000000447	52500000	Misc Exp (O&M) - Natural Acct	(939.41)	3/31/2011	7/20/2012		52801000	Capital Purchase Clr	3	2011
1026	R26-02D1.09-P-0006	ZY	1000000449	70510000	AFUDC - Equity	235.62	4/30/2011	7/20/2012		52801000	Capital Purchase Clr	4	2011
1026	R26-02D1.09-P-0006	ZY	1000000449	85000000	AFUDC Debt	213.26	4/30/2011	7/20/2012		52801000	Capital Purchase Clr	4	2011
1026	R26-02D1.09-P-0006	ZY	1000000453	52801100	Indirect Overhead Clearing	18.35	5/31/2011	7/20/2012		29999999	999 Line JE Clearg	5	2011
1026	R26-02D1.09-P-0006	ZY	1000000453	50550000	Group Insurance Expense	79.02	5/31/2011	7/20/2012		29999999	999 Line JE Clearg	5	2011
1026	R26-02D1.09-P-0006	ZY	1000000453	70510000	AFUDC - Equity	237.62	5/31/2011	7/20/2012		29999999	999 Line JE Clearg	5	2011
1026	R26-02D1.09-P-0006	ZY	1000000453	50100000	Labor Natural Account	171.31	5/31/2011	7/20/2012		29999999	999 Line JE Clearg	5	2011
1026	R26-02D1.09-P-0006	ZY	1000000453	85000000	AFUDC Debt	215.07	5/31/2011	7/20/2012		29999999	999 Line JE Clearg	5	2011
1026	R26-02D1.09-P-0006	ZY	1000000453	52500000	Misc Exp (O&M) - Natural Acct	8,159.52	5/31/2011	7/20/2012		29999999	999 Line JE Clearg	5	2011
1026	R26-02D1.09-P-0006	ZY	1000000455	50550000	Group Insurance Expense	26.34	6/30/2011	7/20/2012		29999999	999 Line JE Clearg	6	2011
1026	R26-02D1.09-P-0006	ZY	1000000455	70510000	AFUDC - Equity	242.81	6/30/2011	7/20/2012		29999999	999 Line JE Clearg	6	2011
1026	R26-02D1.09-P-0006	ZY	1000000455	50100000	Labor Natural Account	57.10	6/30/2011	7/20/2012		29999999	999 Line JE Clearg	6	2011
1026	R26-02D1.09-P-0006	ZY	1000000455	53150000	Contract Svc-Other - Natural Account	688.88	6/30/2011	7/20/2012		29999999	999 Line JE Clearg	6	2011
1026	R26-02D1.09-P-0006	ZY	1000000455	53150000	Contract Svc-Other - Natural Account	959.63	6/30/2011	7/20/2012		29999999	999 Line JE Clearg	6	2011
1026	R26-02D1.09-P-0006	ZY	1000000455	52500000	Misc Exp (O&M) - Natural Acct	(8,159.52)	6/30/2011	7/20/2012		53150000	Contr Svc-Other	6	2011
1026	R26-02D1.09-P-0006	ZY	1000000455	85000000	AFUDC Debt	219.77	6/30/2011	7/20/2012		29999999	999 Line JE Clearg	6	2011
1026	R26-02D1.09-P-0006	ZY	1000000455	52801100	Indirect Overhead Clearing	126.95	6/30/2011	7/20/2012		29999999	999 Line JE Clearg	6	2011
1026	R26-02D1.09-P-0006	ZY	1000000344	70510000	AFUDC - Equity	247.58	7/31/2011	7/20/2012		88106000	CAP Move-CCNC	7	2011
1026	R26-02D1.09-P-0006	ZY	1000000344	85000000	AFUDC Debt	224.09	7/31/2011	7/20/2012		88106000	CAP Move-CCNC	7	2011
1026	R26-02D1.09-P-0006	ZY	1000000348	70510000	AFUDC - Equity	249.69	8/31/2011	7/20/2012		29999999	999 Line JE Clearg	8	2011
1026	R26-02D1.09-P-0006	ZY	1000000348	85000000	AFUDC Debt	226.00	8/31/2011	7/20/2012		29999999	999 Line JE Clearg	8	2011
1026	R26-02D1.09-P-0006	ZY	1000000348	52500000	Misc Exp (O&M) - Natural Acct	269.70	8/31/2011	7/20/2012		29999999	999 Line JE Clearg	8	2011
1026	R26-02D1.09-P-0006	ZY	1000000348	53150000	Contract Svc-Other - Natural Account	275.55	8/31/2011	7/20/2012		29999999	999 Line JE Clearg	8	2011
1026	R26-02D1.09-P-0006	ZY	1000000352	52801100	Indirect Overhead Clearing	15.27	8/31/2011	7/20/2012		29999999	999 Line JE Clearg	8	2011
1026	R26-02D1.09-P-0006	ZY	1000000728	70510000	AFUDC - Equity	252.32	9/30/2011	7/20/2012		29999999	999 Line JE Clearg	9	2011
1026	R26-02D1.09-P-0006	ZY	1000000728	52801100	Indirect Overhead Clearing	15.27	9/30/2011	7/20/2012		29999999	999 Line JE Clearg	9	2011
1026	R26-02D1.09-P-0006	ZY	1000000728	85000000	AFUDC Debt	228.38	9/30/2011	7/20/2012		29999999	999 Line JE Clearg	9	2011
1026	R26-02D1.09-P-0006	ZY	1000000728	53150000	Contract Svc-Other - Natural Account	275.55	9/30/2011	7/20/2012		29999999	999 Line JE Clearg	9	2011
1026	R26-02D1.09-P-0006	ZY	1000000728	52500000	Misc Exp (O&M) - Natural Acct	(232.88)	9/30/2011	7/20/2012		52500000	Misc Expense (O&M)	9	2011
1026	R26-02D1.09-P-0006	ZY	1000000929	50550000	Group Insurance Expense	56.40	10/31/2011	7/20/2012		29999999	999 Line JE Clearg	10	2011
1026	R26-02D1.09-P-0006	ZY	1000000929	70510000	AFUDC - Equity	255.54	10/31/2011	7/20/2012		29999999	999 Line JE Clearg	10	2011
1026	R26-02D1.09-P-0006	ZY	1000000929	53150000	Contract Svc-Other - Natural Account	413.33	10/31/2011	7/20/2012		29999999	999 Line JE Clearg	10	2011
1026	R26-02D1.09-P-0006	ZY	1000000929	52801100	Indirect Overhead Clearing	46.37	10/31/2011	7/20/2012		29999999	999 Line JE Clearg	10	2011
1026	R26-02D1.09-P-0006	ZY	1000000929	52500000	Misc Exp (O&M) - Natural Acct	117.93	10/31/2011	7/20/2012		29999999	999 Line JE Clearg	10	2011
1026	R26-02D1.09-P-0006	ZY	1000000929	50100000	Labor Natural Account	114.20	10/31/2011	7/20/2012		29999999	999 Line JE Clearg	10	2011
1026	R26-02D1.09-P-0006	ZY	1000000931	85000000	AFUDC Debt	231.29	10/31/2011	7/20/2012		29999999	999 Line JE Clearg	10	2011
1026	R26-02D1.09-P-0006	ZY	1000000938	52500000	Misc Exp (O&M) - Natural Acct	(154.75)	11/30/2011	7/20/2012		52500000	Misc Expense (O&M)	11	2011
1026	R26-02D1.09-P-0006	ZY	1000000938	85000000	AFUDC Debt	233.78	11/30/2011	7/20/2012		29999999	999 Line JE Clearg	11	2011
1026	R26-02D1.09-P-0006	ZY	1000000941	70510000	AFUDC - Equity	258.29	11/30/2011	7/20/2012		29999999	999 Line JE Clearg	11	2011
1026	R26-02D1.09-P-0006	ZY	1000000630	53110000	Contract Svc-Eng - Natural Account	3,830.15	12/31/2011	7/20/2012		29999999	999 Line JE Clearg	12	2011
1026	R26-02D1.09-P-0006	ZY	1000000943	52801100	Indirect Overhead Clearing	716.04	12/31/2011	7/20/2012		29999999	999 Line JE Clearg	12	2011
1026	R26-02D1.09-P-0006	ZY	1000000943	70510000	AFUDC - Equity	267.05	12/31/2011	7/20/2012		29999999	999 Line JE Clearg	12	2011
1026	R26-02D1.09-P-0006	ZY	1000000943	85000000	AFUDC Debt	241.71	12/31/2011	7/20/2012		29999999	999 Line JE Clearg	12	2011
1026	R26-02D1.09-P-0006	ZY	1000000632	52801100	Indirect Overhead Clearing	129.68	1/31/2012	7/20/2012		52500000	Misc Expense (O&M)	1	2012
1026	R26-02D1.09-P-0006	ZY	1000000632	85000000	AFUDC Debt	253.79	1/31/2012	7/20/2012		52500000	Misc Expense (O&M)	1	2012
1026	R26-02D1.09-P-0006	ZY	1000000632	70510000	AFUDC - Equity	280.40	1/31/2012	7/20/2012		52500000	Misc Expense (O&M)	1	2012
1026	R26-02D1.09-P-0006	ZY	1000000632	53110000	Contract Svc-Eng - Natural Account	1,686.37	1/31/2012	7/20/2012		52500000	Misc Expense (O&M)	1	2012
1026	R26-02D1.09-P-0006	ZY	1000000632	52500000	Misc Exp (O&M) - Natural Acct	2.46	1/31/2012	7/20/2012		52500000	Misc Expense (O&M)	1	2012
1026	R26-02D1.09-P-0006	ZY	1000000636	85000000	AFUDC Debt	258.26	2/29/2012	7/20/2012		29999999	999 Line JE Clearg	2	2012
1026	R26-02D1.09-P-0006	ZY	1000000636	52500000	Misc Exp (O&M) - Natural Acct	13.77	2/29/2012	7/20/2012		29999999	999 Line JE Clearg	2	2012
1026	R26-02D1.09-P-0006	ZY	1000000636	70510000	AFUDC - Equity	285.34	2/29/2012	7/20/2012		29999999	999 Line JE Clearg	2	2012
1026	R26-02D1.09-P-0006	ZY	1000000645	52801100	Indirect Overhead Clearing	113.15	3/31/2012	7/20/2012		29999999	999 Line JE Clearg	3	2012
1026	R26-02D1.09-P-0006	ZY	1000000645	85000000	AFUDC Debt	262.40	3/31/2012	7/20/2012		29999999	999 Line JE Clearg	3	2012
1026	R26-02D1.09-P-0006	ZY	1000000645	53110000	Contract Svc-Eng - Natural Account	1,471.44	3/31/2012	7/20/2012		29999999	999 Line JE Clearg	3	2012
1026	R26-02D1.09-P-0006	ZY	1000000645	70510000	AFUDC - Equity	289.91	3/31/2012	7/20/2012		29999999	999 Line JE Clearg	3	2012
1026	R26-02D1.09-P-0006	ZY	1000000645	52500000	Misc Exp (O&M) - Natural Acct	997.62	3/31/2012	7/20/2012		29999999	999 Line JE Clearg	3	2012
1026	R26-02D1.09-P-0006	ZY	1000000719	85000000	AFUDC Debt	266.57	4/30/2012	7/20/2012		29999999	999 Line JE Clearg	4	2012
1026	R26-02D1.09-P-0006	ZY	1000000719	52500000	Misc Exp (O&M) - Natural Acct	(1,013.85)	4/30/2012	7/20/2012		88106000	CAP Move-CCNC	4	2012
1026	R26-02D1.09-P-0006	ZY	1000000719	70510000	AFUDC - Equity	294.52	4/30/2012	7/20/2012		29999999	999 Line JE Clearg	4	2012
1026	R26-02D1.09-P-0006	ZY	1000000721	85000000	AFUDC Debt	268.31	5/31/2012	7/20/2012		29999999	999 Line JE Clearg	5	2012
1026	R26-02D1.09-P-0006	ZY	1000000721	52500000	Misc Exp (O&M) - Natural Acct	4,019.16	5/31/2012	7/20/2012		29999999	999 Line JE Clearg	5	2012
1026	R26-02D1.09-P-0006	ZY	1000000721	70510000	AFUDC - Equity	296.44	5/31/2012	7/20/2012		29999999	999 Line JE Clearg	5	2012
1026	R26-02D1.09-P-0006	ZY	1000000726	53110000	Contract Svc-Eng - Natural Account	137.78	6/30/2012	7/20/2012		52500000	Misc Expense (O&M)	6	2012
1026	R26-02D1.09-P-0006	ZY	1000000726	52500000	Misc Exp (O&M) - Natural Acct	(4,019.16)	6/30/2012	7/20/2012		88106000	CAP Move-CCNC	6	2012
1026	R26-02D1.09-P-0006	ZY	1000000726	70510000	AFUDC - Equity	298.63	6/30/2012	7/20/2012		52500000	Misc Expense (O&M)	6	2012
1026	R26-02D1.09-P-0006	ZY	1000000726	85000000	AFUDC Debt	270.29							

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1026	R26-02D1.09-P-0006	ZY	1000006885	70510000	AFUDC - Equity	300.84	7/31/2012	8/9/2012		88900000	CAP Move-Settlement	7	2012
1026	R26-02D1.09-P-0006	ZY	1000006885	85000000	AFUDC Debt	272.29	7/31/2012	8/9/2012		88900000	CAP Move-Settlement	7	2012
1026	R26-02D1.09-P-0006	KR	1000015407	53110000	Contract Svc-Eng - Natural Account	292.08	8/19/2012	8/19/2012		100119	GRW ENGINEERS INC	8	2012
1026	R26-02D1.09-P-0006	SL	1000036868	52801100	Indirect Overhead Clearing	25.41	8/31/2012	9/6/2012		10780110	CWIP-EngClearDist OH	8	2012
1026	R26-02D1.09-P-0006	UI	1000046421	85000000	AFUDC Debt	274.56	8/31/2012	9/10/2012		70510000	AFUDC-Equity	8	2012
1026	R26-02D1.09-P-0006	UI	1000046423	70510000	AFUDC - Equity	303.34	8/31/2012	9/10/2012		29999999	999 Line JE Clearg	8	2012
1026	R26-02D1.09-P-0006	WE	1000057246	53150000	Contract Svc-Other - Natural Account	275.55	9/18/2012	9/18/2012		24164000	GRIR-Non-inventory	9	2012
1026	R26-02D1.09-P-0006	SL	1000087190	52801100	Indirect Overhead Clearing	(7,094.99)	9/30/2012	10/3/2012		10780110	CWIP-EngClearDist OH	9	2012
1026	R26-02D1.09-P-0006	SL	1000087190	52801100	Indirect Overhead Clearing	23.97	9/30/2012	10/3/2012		10780110	CWIP-EngClearDist OH	9	2012
1026	R26-02D1.09-P-0006	SA	1000088176	52801100	Indirect Overhead Clearing	7,094.99	9/30/2012	10/3/2012		52801100	Indirect OH Clearing	9	2012
1026	R26-02D1.09-P-0006	UI	1000091787	70510000	AFUDC - Equity	445.09	9/30/2012	10/4/2012		70510000	AFUDC-Equity	9	2012
1026	R26-02D1.09-P-0006	UI	1000091787	85000000	AFUDC Debt	402.86	9/30/2012	10/4/2012		70510000	AFUDC-Equity	9	2012
1026	R26-02D1.09-P-0006	UI	1000135521	85000000	AFUDC Debt	280.40	10/31/2012	11/5/2012		70510000	AFUDC-Equity	10	2012
1026	R26-02D1.09-P-0006	UI	1000135521	70510000	AFUDC - Equity	309.80	10/31/2012	11/5/2012		70510000	AFUDC-Equity	10	2012
1026	R26-02D1.09-P-0006	UI	1000232954	70510000	AFUDC - Equity	260.83	11/30/2012	12/4/2012		70510000	AFUDC-Equity	11	2012
1026	R26-02D1.09-P-0006	UI	1000232954	85000000	AFUDC Debt	287.96	11/30/2012	12/4/2012		70510000	AFUDC-Equity	11	2012
1026	R26-02D1.09-P-0006	WE	1000266003	53150000	Contract Svc-Other - Natural Account	1,333.66	12/19/2012	12/19/2012		24164000	GRIR-Non-inventory	12	2012
1026	R26-02D1.09-P-0006	SL	1000342740	52801100	Indirect Overhead Clearing	191.25	12/31/2012	1/4/2013		10780110	CWIP-EngClearDist OH	12	2012
1026	R26-02D1.09-P-0006	UI	1000346502	70510000	AFUDC - Equity	268.41	12/31/2012	1/8/2013		70510000	AFUDC-Equity	12	2012
1026	R26-02D1.09-P-0006	UI	1000346502	85000000	AFUDC Debt	296.33	12/31/2012	1/8/2013		70510000	AFUDC-Equity	12	2012
1026	R26-02D1.09-P-0006	SL	1000356875	52801100	Indirect Overhead Clearing	(64.93)	12/31/2012	1/11/2013		10780110	CWIP-EngClearDist OH	12	2012
1026	R26-02D1.09-P-0006	UI	1000404863	85000000	AFUDC Debt	296.10	1/31/2013	2/4/2013		70510000	AFUDC-Equity	1	2013
1026	R26-02D1.09-P-0006	UI	1000404863	70510000	AFUDC - Equity	268.21	1/31/2013	2/4/2013		70510000	AFUDC-Equity	1	2013
1026	R26-02D1.09-P-0006	UI	1000466521	85000000	AFUDC Debt	297.89	2/28/2013	3/4/2013		70510000	AFUDC-Equity	2	2013
1026	R26-02D1.09-P-0006	UI	1000466521	70510000	AFUDC - Equity	269.82	2/28/2013	3/4/2013		70510000	AFUDC-Equity	2	2013
1026	R26-02D1.09-P-0006	UI	1000531302	70510000	AFUDC - Equity	271.45	3/31/2013	4/3/2013		29999999	999 Line JE Clearg	3	2013
1026	R26-02D1.09-P-0006	UI	1000531302	85000000	AFUDC Debt	299.68	3/31/2013	4/3/2013		29999999	999 Line JE Clearg	3	2013
1026	R26-02D1.09-P-0006	UI	1000597128	70510000	AFUDC - Equity	273.09	4/30/2013	5/2/2013		70510000	AFUDC-Equity	4	2013
1026	R26-02D1.09-P-0006	UI	1000597128	85000000	AFUDC Debt	301.49	4/30/2013	5/2/2013		70510000	AFUDC-Equity	4	2013
1026	R26-02D1.09-P-0006	UI	1000666322	70510000	AFUDC - Equity	274.73	5/31/2013	6/4/2013		70510000	AFUDC-Equity	5	2013
1026	R26-02D1.09-P-0006	UI	1000666322	85000000	AFUDC Debt	303.31	5/31/2013	6/4/2013		70510000	AFUDC-Equity	5	2013
1026	R26-02D1.09-P-0006	UI	1000739944	85000000	AFUDC Debt	305.14	6/30/2013	7/2/2013		70510000	AFUDC-Equity	6	2013
1026	R26-02D1.09-P-0006	UI	1000739944	70510000	AFUDC - Equity	276.39	6/30/2013	7/2/2013		70510000	AFUDC-Equity	6	2013
1026	R26-02D1.09-P-0006	UI	1000809968	85000000	AFUDC Debt	306.98	7/31/2013	8/5/2013		70510000	AFUDC-Equity	7	2013
1026	R26-02D1.09-P-0006	UI	1000809968	70510000	AFUDC - Equity	278.05	7/31/2013	8/5/2013		70510000	AFUDC-Equity	7	2013
1026	R26-02D1.09-P-0006	UI	1000886052	85000000	AFUDC Debt	310.68	8/31/2013	9/6/2013		70510000	AFUDC-Equity	8	2013
1026	R26-02D1.09-P-0006	UI	1000886052	70510000	AFUDC - Equity	281.41	8/31/2013	9/6/2013		70510000	AFUDC-Equity	8	2013
1026	R26-02D1.09-P-0006	UI	1000947505	85000000	AFUDC Debt	312.55	9/30/2013	10/2/2013		70510000	AFUDC-Equity	9	2013
1026	R26-02D1.09-P-0006	UI	1000947505	70510000	AFUDC - Equity	283.10	9/30/2013	10/2/2013		70510000	AFUDC-Equity	9	2013
1026	R26-02D1.09-P-0006	UI	1001024938	85000000	AFUDC Debt	318.76	10/31/2013	11/5/2013		70510000	AFUDC-Equity	10	2013
1026	R26-02D1.09-P-0006	UI	1001024938	70510000	AFUDC - Equity	288.73	10/31/2013	11/5/2013		70510000	AFUDC-Equity	10	2013
1026	R26-02D1.09-P-0006	UI	1001096368	70510000	AFUDC - Equity	290.47	11/30/2013	12/4/2013		70510000	AFUDC-Equity	11	2013
1026	R26-02D1.09-P-0006	UI	1001096368	85000000	AFUDC Debt	320.68	11/30/2013	12/4/2013		70510000	AFUDC-Equity	11	2013
1026	R26-02D1.09-P-0006	UI	1001180621	70510000	AFUDC - Equity	294.62	12/31/2013	1/3/2014		70510000	AFUDC-Equity	12	2013
1026	R26-02D1.09-P-0006	UI	1001180621	85000000	AFUDC Debt	325.27	12/31/2013	1/3/2014		70510000	AFUDC-Equity	12	2013
1026	R26-02D1.09-P-0006	KR	1001164274	53110000	Contract Svc-Eng - Natural Account	1,830.69	1/2/2014	1/2/2014		100119	GRW ENGINEERS INC	1	2014
1026	R26-02D1.09-P-0006	KR	1001190878	53110000	Contract Svc-Eng - Natural Account	4,260.81	1/10/2014	1/10/2014		100119	GRW ENGINEERS INC	1	2014
1026	R26-02D1.09-P-0006	SL	1001252193	52801100	Indirect Overhead Clearing	560.42	1/31/2014	2/3/2014		10780110	CWIP-EngClearDist OH	1	2014
1026	R26-02D1.09-P-0006	UI	1001255584	70510000	AFUDC - Equity	309.09	1/31/2014	2/4/2014		70510000	AFUDC-Equity	1	2014
1026	R26-02D1.09-P-0006	UI	1001255584	85000000	AFUDC Debt	341.24	1/31/2014	2/4/2014		70510000	AFUDC-Equity	1	2014
1026	R26-02D1.09-P-0006	UI	1001333475	70510000	AFUDC - Equity	313.27	2/28/2014	3/4/2014		70510000	AFUDC-Equity	2	2014
1026	R26-02D1.09-P-0006	UI	1001333475	85000000	AFUDC Debt	345.85	2/28/2014	3/4/2014		70510000	AFUDC-Equity	2	2014
1026	R26-02D1.09-P-0006	UI	1001430734	70510000	AFUDC - Equity	319.36	3/31/2014	4/2/2014		70510000	AFUDC-Equity	3	2014
1026	R26-02D1.09-P-0006	UI	1001430734	85000000	AFUDC Debt	352.58	3/31/2014	4/2/2014		70510000	AFUDC-Equity	3	2014
1026	R26-02D1.09-P-0006	UI	1001524266	70510000	AFUDC - Equity	321.28	4/30/2014	5/2/2014		70510000	AFUDC-Equity	4	2014
1026	R26-02D1.09-P-0006	UI	1001524266	85000000	AFUDC Debt	354.70	4/30/2014	5/2/2014		70510000	AFUDC-Equity	4	2014
1026	R26-02D1.09-P-0006	UI	1001618562	85000000	AFUDC Debt	356.84	5/31/2014	6/3/2014		70510000	AFUDC-Equity	5	2014
1026	R26-02D1.09-P-0006	UI	1001618562	70510000	AFUDC - Equity	323.22	5/31/2014	6/3/2014		70510000	AFUDC-Equity	5	2014
1026	R26-02D1.09-P-0006	UI	1001718143	70510000	AFUDC - Equity	325.17	6/30/2014	7/2/2014		70510000	AFUDC-Equity	6	2014
1026	R26-02D1.09-P-0006	UI	1001718143	85000000	AFUDC Debt	358.99	6/30/2014	7/2/2014		70510000	AFUDC-Equity	6	2014
1026	R26-02D1.09-P-0006	WE	1001717512	53110000	Contract Svc-Eng - Natural Account	2,931.85	7/2/2014	7/2/2014		23436000	A/P-GRIR CapSvc	7	2014
1026	R26-02D1.09-P-0006	WE	1001717514	53110000	Contract Svc-Eng - Natural Account	1,846.19	7/2/2014	7/2/2014		23436000	A/P-GRIR CapSvc	7	2014
1026	R26-02D1.09-P-0006	WE	1001771032	53110000	Contract Svc-Eng - Natural Account	551.10	7/25/2014	7/25/2014		23436000	A/P-GRIR CapSvc	7	2014
1026	R26-02D1.09-P-0006	SL	1001815659	52801100	Indirect Overhead Clearing	490.28	7/31/2014	8/4/2014		10780110	CWIP-EngClearDist OH	7	2014
1026	R26-02D1.09-P-0006	UI	1001816807	85000000	AFUDC Debt	370.36	7/31/2014	8/4/2014		70510000	AFUDC-Equity	7	2014
1026	R26-02D1.09-P-0006	UI	1001816807	70510000	AFUDC - Equity	335.47	7/31/2014	8/4/2014		70510000	AFUDC-Equity	7	2014
1026	R26-02D1.09-P-0006	UI	1001912168	85000000	AFUDC Debt	373.37	8/31/2014	9/3/2014		70510000	AFUDC-Equity	8	2014
1026	R26-02D1.09-P-0006	UI	1001912168	70510000	AFUDC - Equity	338.19	8/31/2014	9/3/2014		70510000	AFUDC-Equity	8	2014
1026	R26-02D1.09-P-0006	UI	1002010635	70510000	AFUDC - Equity	340.23	9/30/2014	10/3/2014		70510000	AFUDC-Equity	9	2014
1026	R26-02D1.09-P-0006	UI	1002010635	85000000	AFUDC Debt	375.62	9/30/2014	10/3/2014		70510000	AFUDC-Equity	9	2014
1026	R26-02D1.09-P-0006	UI	1002112955	85000000	AFUDC Debt	377.88	10/31/2014	11/4/2014		70510000	AFUDC-Equity	10	2014
1026	R26-02D1.09-P-0006	UI	1002112955	70510000	AFUDC - Equity	342.28	10/31/2014	11/4/2014		70510000	AFUDC-Equity	10	2014
1026	R26-02D1.09-P-0006	UI	1002205321	70510000	AFUDC - Equity	344.34	11/30/2014	12/3/2014		70510000	AFUDC-Equity	11	2014
1026	R26-02D1.09-P-0006	UI	1002205321	85000000	AFUDC Debt	380.16	11/30/2014	12/3/2014		70510000	AFUDC-Equity	11	2014
1026	R26-02D1.09-P-0006	WE	1002188326	53110000	Contract Svc-Eng - Natural Account	275.55	12/1/2014	12					

Tennessee-American Water Company
Docket #18-00022
Response to TAW_R_CPADDR3_026
Cost Detail Related to Work Order #R26-02D1.17-P-0007

Source: SAP

Company Code	Object	Document type	Document Number	Cost Element	Cost element descr.	Val/COArea CrCy	Posting Date	Created on	Partner object	Offsetting acct no.	Name of offsetting account	Period	Fiscal Year
1026	R26-02D1.09-P-0006	SL	1002285061	52801100	Indirect Overhead Clearing	25.35	12/31/2014	1/2/2015		10780110	CWIP-EngClearDist OH	12	2014
1026	R26-02D1.09-P-0006	UI	1002288144	85000000	AFUDC Debt	382.93	12/31/2014	1/5/2015		70510000	AFUDC-Equity	12	2014
1026	R26-02D1.09-P-0006	UI	1002288144	70510000	AFUDC - Equity	346.85	12/31/2014	1/5/2015		70510000	AFUDC-Equity	12	2014
1026	R26-02D1.09-P-0006	SL	1002299601	52801100	Indirect Overhead Clearing	-1.35	12/31/2014	1/7/2015		10780110	CWIP-EngClearDist OH	12	2014
1026	R26-02D1.09-P-0006	WE	1002298372	53110000	Contract Svc-Eng - Natural Account	413.33	1/7/2015	1/7/2015		23436000	A/P-GRIR CapSvc	1	2015
1026	R26-02D1.09-P-0006	SL	1002371811	52801100	Indirect Overhead Clearing	34.51	1/31/2015	2/2/2015		10780110	CWIP-EngClearDist OH	1	2015
1026	R26-02D1.09-P-0006	UI	1002377117	85000000	AFUDC Debt	387.23	1/31/2015	2/4/2015		70510000	AFUDC-Equity	1	2015
1026	R26-02D1.09-P-0006	UI	1002377117	70510000	AFUDC - Equity	350.75	1/31/2015	2/4/2015		70510000	AFUDC-Equity	1	2015
1026	R26-02D1.09-P-0006	UI	1002462380	70510000	AFUDC - Equity	352.76	2/28/2015	3/3/2015		70510000	AFUDC-Equity	2	2015
1026	R26-02D1.09-P-0006	UI	1002462382	85000000	AFUDC Debt	389.46	2/28/2015	3/3/2015		85000000	AFUDC Debt	2	2015
1026	R26-02D1.09-P-0006	UI	1002561708	70510000	AFUDC - Equity	354.89	3/31/2015	4/3/2015		70510000	AFUDC-Equity	3	2015
1026	R26-02D1.09-P-0006	UI	1002561708	85000000	AFUDC Debt	391.80	3/31/2015	4/3/2015		70510000	AFUDC-Equity	3	2015
1026	R26-02D1.09-P-0006	UI	1002655841	70510000	AFUDC - Equity	357.03	4/30/2015	5/4/2015		70510000	AFUDC-Equity	4	2015
1026	R26-02D1.09-P-0006	UI	1002655841	85000000	AFUDC Debt	394.17	4/30/2015	5/4/2015		70510000	AFUDC-Equity	4	2015
1026	R26-02D1.09-P-0006	UI	1002745868	85000000	AFUDC Debt	396.54	5/31/2015	6/3/2015		70510000	AFUDC-Equity	5	2015
1026	R26-02D1.09-P-0006	UI	1002745868	70510000	AFUDC - Equity	359.18	5/31/2015	6/3/2015		70510000	AFUDC-Equity	5	2015
1026	R26-02D1.09-P-0006	WE	1002715034	53110000	Contract Svc-Eng - Natural Account	275.55	6/1/2015	6/1/2015		23436000	A/P-GRIR CapSvc	6	2015
1026	R26-02D1.09-P-0006	PA	1002792342	50421000	401k Expense	19.29	6/1/2015	6/23/2015		24120600	Accr Wages	6	2015
1026	R26-02D1.09-P-0006	PA	1002792342	50550000	Group Insurance Expense	138.18	6/1/2015	6/23/2015		24120600	Accr Wages	6	2015
1026	R26-02D1.09-P-0006	PA	1002792342	68533000	FICA	52.74	6/1/2015	6/23/2015		24120600	Accr Wages	6	2015
1026	R26-02D1.09-P-0006	PA	1002792342	50100001	Labor Expense Accrual	716.34	6/1/2015	6/23/2015		24120600	Accr Wages	6	2015
1026	R26-02D1.09-P-0006	PA	1002792342	50422000	Defined Compensation Plan Expense	29.98	6/1/2015	6/23/2015		24120600	Accr Wages	6	2015
1026	R26-02D1.09-P-0006	PA	1002792342	50426000	Retiree Medical Expense	1.34	6/1/2015	6/23/2015		24120600	Accr Wages	6	2015
1026	R26-02D1.09-P-0006	PA	1002792343	50426000	Retiree Medical Expense	1.92	6/26/2015	6/23/2015		13140202	PNC AWCC-PR-Out ACH	6	2015
1026	R26-02D1.09-P-0006	PA	1002792343	50422000	Defined Compensation Plan Expense	42.85	6/26/2015	6/23/2015		13140202	PNC AWCC-PR-Out ACH	6	2015
1026	R26-02D1.09-P-0006	PA	1002792343	50550000	Group Insurance Expense	197.35	6/26/2015	6/23/2015		13140202	PNC AWCC-PR-Out ACH	6	2015
1026	R26-02D1.09-P-0006	PA	1002792343	68533000	FICA	75.30	6/26/2015	6/23/2015		13140202	PNC AWCC-PR-Out ACH	6	2015
1026	R26-02D1.09-P-0006	PA	1002792343	50421000	401k Expense	27.53	6/26/2015	6/23/2015		13140202	PNC AWCC-PR-Out ACH	6	2015
1026	R26-02D1.09-P-0006	PA	1002792343	50100000	Labor Natural Account	1,023.36	6/26/2015	6/23/2015		13140202	PNC AWCC-PR-Out ACH	6	2015
1026	R26-02D1.09-P-0006	WE	1002804955	53110000	Contract Svc-Eng - Natural Account	1,820.65	6/29/2015	6/29/2015		23436000	A/P-GRIR CapSvc	6	2015
1026	R26-02D1.09-P-0006		300718663	95051000	SCE-PBOP Expense - (41)	241.04	6/30/2015	6/23/2015 260000				6	2015
1026	R26-02D1.09-P-0006		300718663	95572000	SCE-Insurance Workers Comp - (41)	34.24	6/30/2015	6/23/2015 260000				6	2015
1026	R26-02D1.09-P-0006		300718663	95500000	SCE-Transportation Oper - A&G - (41)	105.63	6/30/2015	6/23/2015 260000				6	2015
1026	R26-02D1.09-P-0006		300718663	95061000	SCE-Pension Expense - (41)	128.13	6/30/2015	6/23/2015 260000				6	2015
1026	R26-02D1.09-P-0006	SL	1002826738	52801100	Indirect Overhead Clearing	175.03	6/30/2015	7/1/2015		10780110	CWIP-EngClearDist OH	6	2015
1026	R26-02D1.09-P-0006	SL	1002826738	52801100	Indirect Overhead Clearing	236.74	6/30/2015	7/1/2015		10780110	CWIP-EngClearDist OH	6	2015
1026	R26-02D1.09-P-0006	UI	1002847605	70510000	AFUDC - Equity	363.92	6/30/2015	7/2/2015		70510000	AFUDC-Equity	6	2015
1026	R26-02D1.09-P-0006	UI	1002847605	85000000	AFUDC Debt	401.77	6/30/2015	7/2/2015		70510000	AFUDC-Equity	6	2015
1026	R26-02D1.09-P-0006	PA	1002792344	50421000	401k Expense	-19.29	7/1/2015	6/23/2015		24120600	Accr Wages	7	2015
1026	R26-02D1.09-P-0006	PA	1002792344	50100001	Labor Expense Accrual	-716.34	7/1/2015	6/23/2015		24120600	Accr Wages	7	2015
1026	R26-02D1.09-P-0006	PA	1002792344	50550000	Group Insurance Expense	-138.18	7/1/2015	6/23/2015		24120600	Accr Wages	7	2015
1026	R26-02D1.09-P-0006	PA	1002792344	68533000	FICA	-52.74	7/1/2015	6/23/2015		24120600	Accr Wages	7	2015
1026	R26-02D1.09-P-0006	PA	1002792344	50426000	Retiree Medical Expense	-1.34	7/1/2015	6/23/2015		24120600	Accr Wages	7	2015
1026	R26-02D1.09-P-0006	PA	1002792344	50422000	Defined Compensation Plan Expense	-29.98	7/1/2015	6/23/2015		24120600	Accr Wages	7	2015
1026	R26-02D1.09-P-0006	PA	1002880997	50550000	Group Insurance Expense	679.22	7/1/2015	7/21/2015		24120600	Accr Wages	7	2015
1026	R26-02D1.09-P-0006	PA	1002880997	68533000	FICA	216.26	7/1/2015	7/21/2015		24120600	Accr Wages	7	2015
1026	R26-02D1.09-P-0006	PA	1002880997	50421000	401k Expense	57.66	7/1/2015	7/21/2015		24120600	Accr Wages	7	2015
1026	R26-02D1.09-P-0006	PA	1002880997	50100001	Labor Expense Accrual	2,962.42	7/1/2015	7/21/2015		24120600	Accr Wages	7	2015
1026	R26-02D1.09-P-0006	PA	1002880997	50422000	Defined Compensation Plan Expense	103.49	7/1/2015	7/21/2015		24120600	Accr Wages	7	2015
1026	R26-02D1.09-P-0006	PA	1002880997	50426000	Retiree Medical Expense	9.09	7/1/2015	7/21/2015		24120600	Accr Wages	7	2015
1026	R26-02D1.09-P-0006	PA	1002853134	50426000	Retiree Medical Expense	5.29	7/10/2015	7/7/2015		13140202	PNC AWCC-PR-Out ACH	7	2015
1026	R26-02D1.09-P-0006	PA	1002853134	50100000	Labor Natural Account	885.28	7/10/2015	7/7/2015		13140202	PNC AWCC-PR-Out ACH	7	2015
1026	R26-02D1.09-P-0006	PA	1002853134	68533000	FICA	65.17	7/10/2015	7/7/2015		13140202	PNC AWCC-PR-Out ACH	7	2015
1026	R26-02D1.09-P-0006	PA	1002853134	50550000	Group Insurance Expense	168.36	7/10/2015	7/7/2015		13140202	PNC AWCC-PR-Out ACH	7	2015
1026	R26-02D1.09-P-0006	PA	1002853134	50421000	401k Expense	29.25	7/10/2015	7/7/2015		13140202	PNC AWCC-PR-Out ACH	7	2015
1026	R26-02D1.09-P-0006	PA	1002853134	50422000	Defined Compensation Plan Expense	46.47	7/10/2015	7/7/2015		13140202	PNC AWCC-PR-Out ACH	7	2015
1026	R26-02D1.09-P-0006	PA	1002880998	50426000	Retiree Medical Expense	9.09	7/24/2015	7/21/2015		13140202	PNC AWCC-PR-Out ACH	7	2015
1026	R26-02D1.09-P-0006	PA	1002880998	50100000	Labor Natural Account	2,962.42	7/24/2015	7/21/2015		13140202	PNC AWCC-PR-Out ACH	7	2015
1026	R26-02D1.09-P-0006	PA	1002880998	68533000	FICA	216.26	7/24/2015	7/21/2015		13140202	PNC AWCC-PR-Out ACH	7	2015
1026	R26-02D1.09-P-0006	PA	1002880998	50550000	Group Insurance Expense	679.22	7/24/2015	7/21/2015		13140202	PNC AWCC-PR-Out ACH	7	2015
1026	R26-02D1.09-P-0006	PA	1002880998	50421000	401k Expense	57.66	7/24/2015	7/21/2015		13140202	PNC AWCC-PR-Out ACH	7	2015
1026	R26-02D1.09-P-0006	PA	1002880998	50422000	Defined Compensation Plan Expense	103.49	7/24/2015	7/21/2015		13140202	PNC AWCC-PR-Out ACH	7	2015
1026	R26-02D1.09-P-0006		300738217	95051000	SCE-PBOP Expense - (41)	844.29	7/31/2015	7/31/2015 260000				7	2015
1026	R26-02D1.09-P-0006		300738217	95500000	SCE-Transportation Oper - A&G - (41)	370.01	7/31/2015	7/31/2015 260000				7	2015
1026	R26-02D1.09-P-0006		300738217	95572000	SCE-Insurance Workers Comp - (41)	119.93	7/31/2015	7/31/2015 260000				7	2015
1026	R26-02D1.09-P-0006		300738217	95061000	SCE-Pension Expense - (41)	338.33	7/31/2015	7/31/2015 260000				7	2015
1026	R26-02D1.09-P-0006	SL	1002932482	52801100	Indirect Overhead Clearing	832.56	7/31/2015	8/3/2015		10780110	CWIP-EngClearDist OH	7	2015
1026	R26-02D1.09-P-0006	UI	1002947192	85000000	AFUDC Debt	429.73	7/31/2015	8/4/2015		70510000	AFUDC-Equity	7	2015
1026	R26-02D1.09-P-0006	UI	1002947192	70510000	AFUDC - Equity	389.24	7/31/2015	8/4/2015		70510000	AFUDC-Equity	7	2015
1026	R26-02D1.09-P-0006	PA	1002880999	50421000	401k Expense	-57.66	8/1/2015	7/21/2015		24120600	Accr Wages	8	2015
1026	R26-02D1.09-P-0006	PA	1002880999	50550000	Group Insurance Expense	-679.22	8/1/2015	7/21/2015		24120600	Accr Wages	8	2015
1026	R26-02D1.09-P-0006	PA	1002880999	68533000	FICA	-216.26	8/1/2015	7/21/2015		24120600	Accr Wages	8	2015
1026	R26-02D1.09-P-0006	PA	1002880999	50100001	Labor Expense Accrual	-2,962.42	8/1/2015	7/21/2015		24120600	Accr Wages	8	2015
1026	R26-02D1.09-P-0006	PA	1002880999	50426000	Retiree Medical Expense	-9.09	8/1/2015	7/21/2015		24120600	Accr Wages	8	2015
1026	R26-02D1.09-P-0006	PA	1002880999	50422000	Defined Compensation Plan Expense	-103.49	8/1/2015	7/21/2015		24120600	Accr Wages	8	2015

Tennessee-American Water Company
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Cost Detail Related to Work Order #R26-02D1.17-P-0007

Source: SAP

Company Code	Object	Document Type	Document Number	Cost Element	Cost element descr.	Val/COArea CrCY	Posting Date	Created on	Partner object	Offsetting acct no.	Name of offsetting account	Period	Fiscal Year
1026	R26-02D1.09-P-0006	PA	1002976400	50422000	Defined Compensation Plan Expense	6.24	8/1/2015	8/18/2015		24120600	Accr Wages	8	2015
1026	R26-02D1.09-P-0006	PA	1002976400	50421000	401k Expense	4.75	8/1/2015	8/18/2015		24120600	Accr Wages	8	2015
1026	R26-02D1.09-P-0006	PA	1002976400	50550000	Group Insurance Expense	11.79	8/1/2015	8/18/2015		24120600	Accr Wages	8	2015
1026	R26-02D1.09-P-0006	PA	1002976400	50100001	Labor Expense Accrual	118.63	8/1/2015	8/18/2015		24120600	Accr Wages	8	2015
1026	R26-02D1.09-P-0006	PA	1002976400	68533000	FICA	8.90	8/1/2015	8/18/2015		24120600	Accr Wages	8	2015
1026	R26-02D1.09-P-0006	WE	1002943620	53110000	Contract Svc-Eng - Natural Account	12,314.30	8/3/2015	8/3/2015		23436000	A/P-GRIR CapSvc	8	2015
1026	R26-02D1.09-P-0006	ZF	1002949290	62520800	Misc Maint Permits - Natural Account	211.00	8/6/2015	8/6/2015		202259	TDEC-Consolidated Fee Section	8	2015
1026	R26-02D1.09-P-0006	PA	1002946705	50100000	Labor Natural Account	210.72	8/7/2015	8/4/2015		13140202	PNC AWCC-PR-Out ACH	8	2015
1026	R26-02D1.09-P-0006	PA	1002946705	50422000	Defined Compensation Plan Expense	7.81	8/7/2015	8/4/2015		13140202	PNC AWCC-PR-Out ACH	8	2015
1026	R26-02D1.09-P-0006	PA	1002946705	68533000	FICA	15.81	8/7/2015	8/4/2015		13140202	PNC AWCC-PR-Out ACH	8	2015
1026	R26-02D1.09-P-0006	PA	1002946705	50421000	401k Expense	5.96	8/7/2015	8/4/2015		13140202	PNC AWCC-PR-Out ACH	8	2015
1026	R26-02D1.09-P-0006	PA	1002946705	50550000	Group Insurance Expense	21.12	8/7/2015	8/4/2015		13140202	PNC AWCC-PR-Out ACH	8	2015
1026	R26-02D1.09-P-0006	PA	1002976401	50550000	Group Insurance Expense	10.72	8/21/2015	8/18/2015		13140202	PNC AWCC-PR-Out ACH	8	2015
1026	R26-02D1.09-P-0006	PA	1002976401	50421000	401k Expense	4.32	8/21/2015	8/18/2015		13140202	PNC AWCC-PR-Out ACH	8	2015
1026	R26-02D1.09-P-0006	PA	1002976401	50100000	Labor Natural Account	107.84	8/21/2015	8/18/2015		13140202	PNC AWCC-PR-Out ACH	8	2015
1026	R26-02D1.09-P-0006	PA	1002976401	50422000	Defined Compensation Plan Expense	5.67	8/21/2015	8/18/2015		13140202	PNC AWCC-PR-Out ACH	8	2015
1026	R26-02D1.09-P-0006	PA	1002976401	68533000	FICA	8.09	8/21/2015	8/18/2015		13140202	PNC AWCC-PR-Out ACH	8	2015
1026	R26-02D1.09-P-0006		300748405	95572000	SCE-Insurance Workers Comp - (41)	-54.15	8/31/2015	8/10/2015 260000				8	2015
1026	R26-02D1.09-P-0006		300748405	95500000	SCE-Transportation Oper - A&G - (41)	-167.08	8/31/2015	8/10/2015 260000				8	2015
1026	R26-02D1.09-P-0006		300748405	95051000	SCE-PBOP Expense - (41)	-381.25	8/31/2015	8/10/2015 260000				8	2015
1026	R26-02D1.09-P-0006		300748405	95061000	SCE-Pension Expense - (41)	-152.77	8/31/2015	8/10/2015 260000				8	2015
1026	R26-02D1.09-P-0006		300755284	95061000	SCE-Pension Expense - (41)	12.57	8/31/2015	8/18/2015 260000				8	2015
1026	R26-02D1.09-P-0006		300755284	95500000	SCE-Transportation Oper - A&G - (41)	13.75	8/31/2015	8/18/2015 260000				8	2015
1026	R26-02D1.09-P-0006		300755284	95051000	SCE-PBOP Expense - (41)	31.38	8/31/2015	8/18/2015 260000				8	2015
1026	R26-02D1.09-P-0006		300755284	95572000	SCE-Insurance Workers Comp - (41)	4.45	8/31/2015	8/18/2015 260000				8	2015
1026	R26-02D1.09-P-0006	SL	1003011204	52801100	Indirect Overhead Clearing	-330.82	8/31/2015	9/1/2015		52801100	Indirect OH Clearing	8	2015
1026	R26-02D1.09-P-0006	SL	1003011204	52801100	Indirect Overhead Clearing	1,028.24	8/31/2015	9/1/2015		10780110	CWIP-EngClearDist OH	8	2015
1026	R26-02D1.09-P-0006	UI	1003043752	85000000	AFUDC Debt	463.72	8/31/2015	9/2/2015		70510000	AFUDC-Equity	8	2015
1026	R26-02D1.09-P-0006	UI	1003043752	70510000	AFUDC - Equity	420.03	8/31/2015	9/2/2015		70510000	AFUDC-Equity	8	2015
1026	R26-02D1.09-P-0006	PA	1002976402	50421000	401k Expense	-4.75	9/1/2015	8/18/2015		24120600	Accr Wages	9	2015
1026	R26-02D1.09-P-0006	PA	1002976402	50100001	Labor Expense Accrual	-118.63	9/1/2015	8/18/2015		24120600	Accr Wages	9	2015
1026	R26-02D1.09-P-0006	PA	1002976402	68533000	FICA	-8.90	9/1/2015	8/18/2015		24120600	Accr Wages	9	2015
1026	R26-02D1.09-P-0006	PA	1002976402	50550000	Group Insurance Expense	-11.79	9/1/2015	8/18/2015		24120600	Accr Wages	9	2015
1026	R26-02D1.09-P-0006	PA	1002976402	50422000	Defined Compensation Plan Expense	-6.24	9/1/2015	8/18/2015		24120600	Accr Wages	9	2015
1026	R26-02D1.09-P-0006	PA	1003038964	50100000	Labor Natural Account	161.76	9/4/2015	9/1/2015		13140202	PNC AWCC-PR-Out ACH	9	2015
1026	R26-02D1.09-P-0006	PA	1003038964	68533000	FICA	12.15	9/4/2015	9/1/2015		13140202	PNC AWCC-PR-Out ACH	9	2015
1026	R26-02D1.09-P-0006	PA	1003038964	50550000	Group Insurance Expense	16.02	9/4/2015	9/1/2015		13140202	PNC AWCC-PR-Out ACH	9	2015
1026	R26-02D1.09-P-0006	PA	1003038964	50421000	401k Expense	6.48	9/4/2015	9/1/2015		13140202	PNC AWCC-PR-Out ACH	9	2015
1026	R26-02D1.09-P-0006	PA	1003038964	50422000	Defined Compensation Plan Expense	8.49	9/4/2015	9/1/2015		13140202	PNC AWCC-PR-Out ACH	9	2015
1026	R26-02D1.09-P-0006	WE	1003054439	53110000	Contract Svc-Eng - Natural Account	10,176.10	9/9/2015	9/9/2015		23436000	A/P-GRIR CapSvc	9	2015
1026	R26-02D1.09-P-0006		300768173	95051000	SCE-PBOP Expense - (41)	5.98	9/30/2015	9/9/2015 260000				9	2015
1026	R26-02D1.09-P-0006		300768173	95572000	SCE-Insurance Workers Comp - (41)	0.85	9/30/2015	9/9/2015 260000				9	2015
1026	R26-02D1.09-P-0006		300768173	95061000	SCE-Pension Expense - (41)	2.39	9/30/2015	9/9/2015 260000				9	2015
1026	R26-02D1.09-P-0006		300768173	95500000	SCE-Transportation Oper - A&G - (41)	2.62	9/30/2015	9/9/2015 260000				9	2015
1026	R26-02D1.09-P-0006	WE	1003104912	53110000	Contract Svc-Eng - Natural Account	10,184.50	9/30/2015	9/30/2015		23436000	A/P-GRIR CapSvc	9	2015
1026	R26-02D1.09-P-0006	SL	1003138356	52801100	Indirect Overhead Clearing	1,700.11	9/30/2015	10/1/2015		10780110	CWIP-EngClearDist OH	9	2015
1026	R26-02D1.09-P-0006	SL	1003138356	52801100	Indirect Overhead Clearing	5.55	9/30/2015	10/1/2015		10780110	CWIP-EngClearDist OH	9	2015
1026	R26-02D1.09-P-0006	UI	1003143495	70510000	AFUDC - Equity	467.23	9/30/2015	10/2/2015		70510000	AFUDC-Equity	9	2015
1026	R26-02D1.09-P-0006	UI	1003143495	85000000	AFUDC Debt	515.83	9/30/2015	10/2/2015		70510000	AFUDC-Equity	9	2015
1026	R26-02D1.09-P-0006	PA	1003193800	68533000	FICA	3.04	10/1/2015	10/27/2015		24120600	Accr Wages	10	2015
1026	R26-02D1.09-P-0006	PA	1003193800	50100001	Labor Expense Accrual	40.44	10/1/2015	10/27/2015		24120600	Accr Wages	10	2015
1026	R26-02D1.09-P-0006	PA	1003193800	50421000	401k Expense	1.62	10/1/2015	10/27/2015		24120600	Accr Wages	10	2015
1026	R26-02D1.09-P-0006	PA	1003193800	50550000	Group Insurance Expense	4.02	10/1/2015	10/27/2015		24120600	Accr Wages	10	2015
1026	R26-02D1.09-P-0006	PA	1003193800	50422000	Defined Compensation Plan Expense	2.13	10/1/2015	10/27/2015		24120600	Accr Wages	10	2015
1026	R26-02D1.09-P-0006	PA	1003102724	68533000	FICA	6.07	10/2/2015	9/29/2015		13140202	PNC AWCC-PR-Out ACH	10	2015
1026	R26-02D1.09-P-0006	PA	1003102724	50100000	Labor Natural Account	80.88	10/2/2015	9/29/2015		13140202	PNC AWCC-PR-Out ACH	10	2015
1026	R26-02D1.09-P-0006	PA	1003102724	50422000	Defined Compensation Plan Expense	4.25	10/2/2015	9/29/2015		13140202	PNC AWCC-PR-Out ACH	10	2015
1026	R26-02D1.09-P-0006	PA	1003102724	50421000	401k Expense	3.24	10/2/2015	9/29/2015		13140202	PNC AWCC-PR-Out ACH	10	2015
1026	R26-02D1.09-P-0006	PA	1003102724	50550000	Group Insurance Expense	8.03	10/2/2015	9/29/2015		13140202	PNC AWCC-PR-Out ACH	10	2015
1026	R26-02D1.09-P-0006	PA	1003162790	50550000	Group Insurance Expense	8.03	10/16/2015	10/13/2015		13140202	PNC AWCC-PR-Out ACH	10	2015
1026	R26-02D1.09-P-0006	PA	1003162790	68533000	FICA	6.07	10/16/2015	10/13/2015		13140202	PNC AWCC-PR-Out ACH	10	2015
1026	R26-02D1.09-P-0006	PA	1003162790	50100000	Labor Natural Account	80.88	10/16/2015	10/13/2015		13140202	PNC AWCC-PR-Out ACH	10	2015
1026	R26-02D1.09-P-0006	PA	1003162790	50422000	Defined Compensation Plan Expense	4.25	10/16/2015	10/13/2015		13140202	PNC AWCC-PR-Out ACH	10	2015
1026	R26-02D1.09-P-0006	PA	1003162790	50421000	401k Expense	3.24	10/16/2015	10/13/2015		13140202	PNC AWCC-PR-Out ACH	10	2015
1026	R26-02D1.09-P-0006	WE	1003175520	53110000	Contract Svc-Eng - Natural Account	551.10	10/19/2015	10/19/2015		23436000	A/P-GRIR CapSvc	10	2015
1026	R26-02D1.09-P-0006	PA	1003193801	68533000	FICA	6.07	10/30/2015	10/27/2015		13140202	PNC AWCC-PR-Out ACH	10	2015
1026	R26-02D1.09-P-0006	PA	1003193801	50100000	Labor Natural Account	80.88	10/30/2015	10/27/2015		13140202	PNC AWCC-PR-Out ACH	10	2015
1026	R26-02D1.09-P-0006	PA	1003193801	50422000	Defined Compensation Plan Expense	4.25	10/30/2015	10/27/2015		13140202	PNC AWCC-PR-Out ACH	10	2015
1026	R26-02D1.09-P-0006	PA	1003193801	50421000	401k Expense	3.24	10/30/2015	10/27/2015		13140202	PNC AWCC-PR-Out ACH	10	2015
1026	R26-02D1.09-P-0006	PA	1003193801	50550000	Group Insurance Expense	8.03	10/30/2015	10/27/2015		13140202	PNC AWCC-PR-Out ACH	10	2015
1026	R26-02D1.09-P-0006		300802538	95500000	SCE-Transportation Oper - A&G - (41)	17.19	10/31/2015	11/4/2015 260000				10	2015
1026	R26-02D1.09-P-0006		300802538	95061000	SCE-Pension Expense - (41)	15.72	10/31/2015	11/4/2015 260000				10	2015
1026	R26-02D1.09-P-0006		300802538	95572000	SCE-Insurance Workers Comp - (41)	5.57	10/31/2015	11/4/2015 260000				10	2015
1026	R26-02D1.09-P-0006		300802538	95051000	SCE-PBOP Expense - (41)	39.22	10/31/2015	11/4/2015 260000				10	2015
1026	R26-02D1.09-P-0006	SL	1003244587	52801100	Indirect Overhead Clearing	29.95	10/31/2015	11/2/2015		10780110	CWIP-EngClearDist OH	10	2015

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Company Code	Object	Document type	Document Number	Cost Element	Cost element descr.	Val/COArea CrCy	Posting Date	Created on	Partner object	Offsetting acct no.	Name of offsetting account	Period	Fiscal Year
1026	R26-02D1.09-P-0006	SL	1003244587	52801100	Indirect Overhead Clearing	46.02	10/31/2015	11/2/2015		10780110	CWIP-EngClearDist OH	10	2015
1026	R26-02D1.09-P-0006	UI	1003249592	70510000	AFUDC - Equity	508.38	10/31/2015	11/3/2015		29999999	999 Line JE Clearg	10	2015
1026	R26-02D1.09-P-0006	UI	1003249593	85000000	AFUDC Debt	561.26	10/31/2015	11/3/2015		70510000	AFUDC-Equity	10	2015
1026	R26-02D1.09-P-0006	PA	1003193802	50421000	401k Expense	-1.62	11/1/2015	10/27/2015		24120600	Accr Wages	11	2015
1026	R26-02D1.09-P-0006	PA	1003193802	50550000	Group Insurance Expense	-4.02	11/1/2015	10/27/2015		24120600	Accr Wages	11	2015
1026	R26-02D1.09-P-0006	PA	1003193802	50422000	Defined Compensation Plan Expense	-2.13	11/1/2015	10/27/2015		24120600	Accr Wages	11	2015
1026	R26-02D1.09-P-0006	PA	1003193802	50100001	Labor Expense Accrual	-40.44	11/1/2015	10/27/2015		24120600	Accr Wages	11	2015
1026	R26-02D1.09-P-0006	PA	1003193802	68533000	FICA	-3.04	11/1/2015	10/27/2015		24120600	Accr Wages	11	2015
1026	R26-02D1.09-P-0006	PA	1003296527	50550000	Group Insurance Expense	6.42	11/1/2015	11/23/2015		24120600	Accr Wages	11	2015
1026	R26-02D1.09-P-0006	PA	1003296527	50421000	401k Expense	2.59	11/1/2015	11/23/2015		24120600	Accr Wages	11	2015
1026	R26-02D1.09-P-0006	PA	1003296527	50422000	Defined Compensation Plan Expense	3.40	11/1/2015	11/23/2015		24120600	Accr Wages	11	2015
1026	R26-02D1.09-P-0006	PA	1003296527	50100001	Labor Expense Accrual	64.70	11/1/2015	11/23/2015		24120600	Accr Wages	11	2015
1026	R26-02D1.09-P-0006	PA	1003296527	68533000	FICA	4.86	11/1/2015	11/23/2015		24120600	Accr Wages	11	2015
1026	R26-02D1.09-P-0006	WE	1003245941	53110000	Contract Svc-Eng - Natural Account	11,802.80	11/2/2015	11/2/2015		23436000	A/P-GRIR CapSvc	11	2015
1026	R26-02D1.09-P-0006	PA	1003266525	50421000	401k Expense	6.48	11/13/2015	11/10/2015		13140202	PNC AWCC-PR-Out ACH	11	2015
1026	R26-02D1.09-P-0006	PA	1003266525	50422000	Defined Compensation Plan Expense	8.49	11/13/2015	11/10/2015		13140202	PNC AWCC-PR-Out ACH	11	2015
1026	R26-02D1.09-P-0006	PA	1003266525	50100000	Labor Natural Account	161.76	11/13/2015	11/10/2015		13140202	PNC AWCC-PR-Out ACH	11	2015
1026	R26-02D1.09-P-0006	PA	1003266525	68533000	FICA	12.15	11/13/2015	11/10/2015		13140202	PNC AWCC-PR-Out ACH	11	2015
1026	R26-02D1.09-P-0006	PA	1003266525	50550000	Group Insurance Expense	16.02	11/13/2015	11/10/2015		13140202	PNC AWCC-PR-Out ACH	11	2015
1026	R26-02D1.09-P-0006	PA	1003296528	68533000	FICA	8.10	11/27/2015	11/23/2015		13140202	PNC AWCC-PR-Out ACH	11	2015
1026	R26-02D1.09-P-0006	PA	1003296528	50550000	Group Insurance Expense	10.71	11/27/2015	11/23/2015		13140202	PNC AWCC-PR-Out ACH	11	2015
1026	R26-02D1.09-P-0006	PA	1003296528	50421000	401k Expense	4.31	11/27/2015	11/23/2015		13140202	PNC AWCC-PR-Out ACH	11	2015
1026	R26-02D1.09-P-0006	PA	1003296528	50422000	Defined Compensation Plan Expense	5.66	11/27/2015	11/23/2015		13140202	PNC AWCC-PR-Out ACH	11	2015
1026	R26-02D1.09-P-0006	PA	1003296528	50100000	Labor Natural Account	107.84	11/27/2015	11/23/2015		13140202	PNC AWCC-PR-Out ACH	11	2015
1026	R26-02D1.09-P-0006		300810179	95051000	SCE-PBOP Expense - (41)	-5.60	11/30/2015	11/9/2015 260000				11	2015
1026	R26-02D1.09-P-0006		300810179	95061000	SCE-Pension Expense - (41)	-2.25	11/30/2015	11/9/2015 260000				11	2015
1026	R26-02D1.09-P-0006		300810179	95500000	SCE-Transportation Oper - A&G - (41)	-2.46	11/30/2015	11/9/2015 260000				11	2015
1026	R26-02D1.09-P-0006		300810179	95572000	SCE-Insurance Workers Comp - (41)	-0.80	11/30/2015	11/9/2015 260000				11	2015
1026	R26-02D1.09-P-0006		300816639	95572000	SCE-Insurance Workers Comp - (41)	3.19	11/30/2015	11/10/2015 260000				11	2015
1026	R26-02D1.09-P-0006		300816639	95061000	SCE-Pension Expense - (41)	8.99	11/30/2015	11/10/2015 260000				11	2015
1026	R26-02D1.09-P-0006		300816639	95500000	SCE-Transportation Oper - A&G - (41)	9.83	11/30/2015	11/10/2015 260000				11	2015
1026	R26-02D1.09-P-0006		300816639	95051000	SCE-PBOP Expense - (41)	22.41	11/30/2015	11/10/2015 260000				11	2015
1026	R26-02D1.09-P-0006		300822091	50100001	Labor Expense Accrual	189.86	11/30/2015	11/23/2015 90260989				11	2015
1026	R26-02D1.09-P-0006		300822091	96853301	SCE-FICA - (21)	37.29	11/30/2015	11/23/2015 90260989				11	2015
1026	R26-02D1.09-P-0006		300822091	95042601	SCE-Retiree Med Exp - (21)	1.01	11/30/2015	11/23/2015 90260989				11	2015
1026	R26-02D1.09-P-0006		300822091	95055001	SCE-Group Insur Exp - (21)	95.08	11/30/2015	11/23/2015 90260989				11	2015
1026	R26-02D1.09-P-0006		300822091	95042201	SCE-DCP Expense - (21)	11.24	11/30/2015	11/23/2015 90260989				11	2015
1026	R26-02D1.09-P-0006		300822091	50100000	Labor Natural Account	316.44	11/30/2015	11/23/2015 90260989				11	2015
1026	R26-02D1.09-P-0006		300822091	95042101	SCE-401k Expense - (21)	6.70	11/30/2015	11/23/2015 90260989				11	2015
1026	R26-02D1.09-P-0006		300824354	95051000	SCE-PBOP Expense - (41)	94.05	11/30/2015	11/23/2015 260000				11	2015
1026	R26-02D1.09-P-0006		300824354	95061000	SCE-Pension Expense - (41)	37.68	11/30/2015	11/23/2015 260000				11	2015
1026	R26-02D1.09-P-0006		300824354	95500000	SCE-Transportation Oper - A&G - (41)	41.22	11/30/2015	11/23/2015 260000				11	2015
1026	R26-02D1.09-P-0006		300824354	95572000	SCE-Insurance Workers Comp - (41)	13.36	11/30/2015	11/23/2015 260000				11	2015
1026	R26-02D1.09-P-0006	SL	1003314902	52801100	Indirect Overhead Clearing	104.33	11/30/2015	12/1/2015		10780110	CWIP-EngClearDist OH	11	2015
1026	R26-02D1.09-P-0006	SL	1003314902	52801100	Indirect Overhead Clearing	985.53	11/30/2015	12/1/2015		10780110	CWIP-EngClearDist OH	11	2015
1026	R26-02D1.09-P-0006	UI	1003351178	70510000	AFUDC - Equity	533.34	11/30/2015	12/2/2015		70510000	AFUDC-Equity	11	2015
1026	R26-02D1.09-P-0006	UI	1003351178	85000000	AFUDC Debt	588.81	11/30/2015	12/2/2015		70510000	AFUDC-Equity	11	2015
1026	R26-02D1.09-P-0006	PA	1003296529	50100001	Labor Expense Accrual	-64.70	12/1/2015	11/23/2015		24120600	Accr Wages	12	2015
1026	R26-02D1.09-P-0006	PA	1003296529	50422000	Defined Compensation Plan Expense	-3.40	12/1/2015	11/23/2015		24120600	Accr Wages	12	2015
1026	R26-02D1.09-P-0006	PA	1003296529	50421000	401k Expense	-2.59	12/1/2015	11/23/2015		24120600	Accr Wages	12	2015
1026	R26-02D1.09-P-0006	PA	1003296529	50550000	Group Insurance Expense	-6.42	12/1/2015	11/23/2015		24120600	Accr Wages	12	2015
1026	R26-02D1.09-P-0006	PA	1003296529	68533000	FICA	-4.86	12/1/2015	11/23/2015		24120600	Accr Wages	12	2015
1026	R26-02D1.09-P-0006	PA	1003400401	50422000	Defined Compensation Plan Expense	10.22	12/1/2015	12/22/2015		24120600	Accr Wages	12	2015
1026	R26-02D1.09-P-0006	PA	1003400401	50550000	Group Insurance Expense	19.33	12/1/2015	12/22/2015		24120600	Accr Wages	12	2015
1026	R26-02D1.09-P-0006	PA	1003400401	50421000	401k Expense	7.77	12/1/2015	12/22/2015		24120600	Accr Wages	12	2015
1026	R26-02D1.09-P-0006	PA	1003400401	50100001	Labor Expense Accrual	194.10	12/1/2015	12/22/2015		24120600	Accr Wages	12	2015
1026	R26-02D1.09-P-0006	PA	1003400401	68533000	FICA	14.57	12/1/2015	12/22/2015		24120600	Accr Wages	12	2015
1026	R26-02D1.09-P-0006	PA	1003364581	50550000	Group Insurance Expense	10.68	12/11/2015	12/8/2015		13140202	PNC AWCC-PR-Out ACH	12	2015
1026	R26-02D1.09-P-0006	PA	1003364581	50421000	401k Expense	4.32	12/11/2015	12/8/2015		13140202	PNC AWCC-PR-Out ACH	12	2015
1026	R26-02D1.09-P-0006	PA	1003364581	50422000	Defined Compensation Plan Expense	5.66	12/11/2015	12/8/2015		13140202	PNC AWCC-PR-Out ACH	12	2015
1026	R26-02D1.09-P-0006	PA	1003364581	68533000	FICA	8.10	12/11/2015	12/8/2015		13140202	PNC AWCC-PR-Out ACH	12	2015
1026	R26-02D1.09-P-0006	PA	1003364581	50100000	Labor Natural Account	107.84	12/11/2015	12/8/2015		13140202	PNC AWCC-PR-Out ACH	12	2015
1026	R26-02D1.09-P-0006	WE	1003379045	53110000	Contract Svc-Eng - Natural Account	9,179.40	12/14/2015	12/14/2015		23436000	A/P-GRIR CapSvc	12	2015
1026	R26-02D1.09-P-0006	WE	1003403514	53110000	Contract Svc-Eng - Natural Account	8,431.70	12/23/2015	12/23/2015		23436000	A/P-GRIR CapSvc	12	2015
1026	R26-02D1.09-P-0006	PA	1003400402	50421000	401k Expense	8.64	12/24/2015	12/22/2015		13140202	PNC AWCC-PR-Out ACH	12	2015
1026	R26-02D1.09-P-0006	PA	1003400402	50550000	Group Insurance Expense	21.44	12/24/2015	12/22/2015		13140202	PNC AWCC-PR-Out ACH	12	2015
1026	R26-02D1.09-P-0006	PA	1003400402	50100000	Labor Natural Account	215.68	12/24/2015	12/22/2015		13140202	PNC AWCC-PR-Out ACH	12	2015
1026	R26-02D1.09-P-0006	PA	1003400402	68533000	FICA	16.18	12/24/2015	12/22/2015		13140202	PNC AWCC-PR-Out ACH	12	2015
1026	R26-02D1.09-P-0006	PA	1003400402	50422000	Defined Compensation Plan Expense	11.34	12/24/2015	12/22/2015		13140202	PNC AWCC-PR-Out ACH	12	2015
1026	R26-02D1.09-P-0006		300830895	95042201	SCE-DCP Expense - (21)	-4.22	12/31/2015	12/8/2015 90260989				12	2015
1026	R26-02D1.09-P-0006		300830895	95042601	SCE-Retiree Med Exp - (21)	-0.38	12/31/2015	12/8/2015 90260989				12	2015
1026	R26-02D1.09-P-0006		300830895	96853301	SCE-FICA - (21)	-13.99	12/31/2015	12/8/2015 90260989				12	2015
1026	R26-02D1.09-P-0006		300830895	95055001	SCE-Group Insur Exp - (21)	-35.65	12/31/2015	12/8/2015 90260989				12	2015
1026	R26-02D1.09-P-0006		300830895	95042101	SCE-401k Expense - (21)	-2.51	12/31/2015	12/8/2015 90260989				12	2015
1026	R26-02D1.09-P-0006		300830895	50100001	Labor Expense Accrual	-189.86	12/31/2015	12/8/2015 90260989				12	2015

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Company Code	Object	Document type	Document Number	Cost Element	Cost element descr.	Val/COArea CrCy	Posting Date	Created on	Partner object	Offsetting acct no.	Name of offsetting account	Period	Fiscal Year
1026	R26-02D1.09-P-0006		300834674	95051000	SCE-PBOP Expense - (41)	-35.27	12/31/2015	12/8/2015 260000				12	2015
1026	R26-02D1.09-P-0006		300834674	95061000	SCE-Pension Expense - (41)	-14.13	12/31/2015	12/8/2015 260000				12	2015
1026	R26-02D1.09-P-0006		300834674	95500000	SCE-Transportation Oper - A&G - (41)	-15.46	12/31/2015	12/8/2015 260000				12	2015
1026	R26-02D1.09-P-0006		300834674	95572000	SCE-Insurance Workers Comp - (41)	-5.01	12/31/2015	12/8/2015 260000				12	2015
1026	R26-02D1.09-P-0006		300839950	95051000	SCE-PBOP Expense - (41)	14.94	12/31/2015	12/8/2015 260000				12	2015
1026	R26-02D1.09-P-0006		300839950	95061000	SCE-Pension Expense - (41)	5.98	12/31/2015	12/8/2015 260000				12	2015
1026	R26-02D1.09-P-0006		300839950	95500000	SCE-Transportation Oper - A&G - (41)	6.55	12/31/2015	12/8/2015 260000				12	2015
1026	R26-02D1.09-P-0006		300839950	95572000	SCE-Insurance Workers Comp - (41)	2.12	12/31/2015	12/8/2015 260000				12	2015
1026	R26-02D1.09-P-0006		300843368	95055001	SCE-Group Insur Exp - (21)	-2.17	12/31/2015	12/8/2015 90260989				12	2015
1026	R26-02D1.09-P-0006		300843368	96853301	SCE-FICA - (21)	-1.05	12/31/2015	12/8/2015 90260989				12	2015
1026	R26-02D1.09-P-0006		300843368	95042201	SCE-DCP Expense - (21)	-0.46	12/31/2015	12/8/2015 90260989				12	2015
1026	R26-02D1.09-P-0006		300843368	95042101	SCE-401k Expense - (21)	-0.35	12/31/2015	12/8/2015 90260989				12	2015
1026	R26-02D1.09-P-0006		300849272	95572000	SCE-Insurance Workers Comp - (41)	8.07	12/31/2015	12/22/2015 260000				12	2015
1026	R26-02D1.09-P-0006		300849272	95051000	SCE-PBOP Expense - (41)	56.78	12/31/2015	12/22/2015 260000				12	2015
1026	R26-02D1.09-P-0006		300849272	95061000	SCE-Pension Expense - (41)	22.76	12/31/2015	12/22/2015 260000				12	2015
1026	R26-02D1.09-P-0006		300849272	95500000	SCE-Transportation Oper - A&G - (41)	24.88	12/31/2015	12/22/2015 260000				12	2015
1026	R26-02D1.09-P-0006	SL	1003448941	52801100	Indirect Overhead Clearing	1,470.53	12/31/2015	1/4/2016		29999999	999 Line JE Clearg	12	2015
1026	R26-02D1.09-P-0006	SL	1003448943	52801100	Indirect Overhead Clearing	33.02	12/31/2015	1/4/2016		10780110	CWIP-EngClearDist OH	12	2015
1026	R26-02D1.09-P-0006	UI	1003453179	70510000	AFUDC - Equity	584.76	12/31/2015	1/5/2016		70510000	AFUDC-Equity	12	2015
1026	R26-02D1.09-P-0006	UI	1003453179	85000000	AFUDC Debt	645.58	12/31/2015	1/5/2016		70510000	AFUDC-Equity	12	2015
1026	R26-02D1.09-P-0006	SL	1003460647	52801100	Indirect Overhead Clearing	-610.51	12/31/2015	1/8/2016		10780110	CWIP-EngClearDist OH	12	2015
1026	R26-02D1.09-P-0006	SL	1003460647	52801100	Indirect Overhead Clearing	-42.40	12/31/2015	1/8/2016		10780110	CWIP-EngClearDist OH	12	2015
1026	R26-02D1.09-P-0006	PA	1003400403	50421000	401k Expense	-7.77	1/1/2016	12/22/2015		24120600	Accr Wages	1	2016
1026	R26-02D1.09-P-0006	PA	1003400403	50422000	Defined Compensation Plan Expense	-10.22	1/1/2016	12/22/2015		24120600	Accr Wages	1	2016
1026	R26-02D1.09-P-0006	PA	1003400403	50100001	Labor Expense Accrual	-194.10	1/1/2016	12/22/2015		24120600	Accr Wages	1	2016
1026	R26-02D1.09-P-0006	PA	1003400403	50550000	Group Insurance Expense	-19.33	1/1/2016	12/22/2015		24120600	Accr Wages	1	2016
1026	R26-02D1.09-P-0006	PA	1003400403	68533000	FICA	-14.57	1/1/2016	12/22/2015		24120600	Accr Wages	1	2016
1026	R26-02D1.09-P-0006	PA	1003454512	68533000	FICA	2.84	1/8/2016	1/5/2016		13140202	PNC AWCC-PR-Out ACH	1	2016
1026	R26-02D1.09-P-0006	PA	1003454512	50100000	Labor Natural Account	37.61	1/8/2016	1/5/2016		13140202	PNC AWCC-PR-Out ACH	1	2016
1026	R26-02D1.09-P-0006	PA	1003454512	68532000	FUTA	0.22	1/8/2016	1/5/2016		13140202	PNC AWCC-PR-Out ACH	1	2016
1026	R26-02D1.09-P-0006	PA	1003454512	68535000	SUTA	1.02	1/8/2016	1/5/2016		13140202	PNC AWCC-PR-Out ACH	1	2016
1026	R26-02D1.09-P-0006	PA	1003454512	50550000	Group Insurance Expense	3.16	1/8/2016	1/5/2016		13140202	PNC AWCC-PR-Out ACH	1	2016
1026	R26-02D1.09-P-0006	PA	1003454512	50421000	401k Expense	0.54	1/8/2016	1/5/2016		13140202	PNC AWCC-PR-Out ACH	1	2016
1026	R26-02D1.09-P-0006	PA	1003454512	50422000	Defined Compensation Plan Expense	1.97	1/8/2016	1/5/2016		13140202	PNC AWCC-PR-Out ACH	1	2016
1026	R26-02D1.09-P-0006	WE	1003477193	53110000	Contract Svc-Eng - Natural Account	275.55	1/18/2016	1/18/2016		23436000	A/P-GRIR CapSvc	1	2016
1026	R26-02D1.09-P-0006	KP	1003508737	53110000	Contract Svc-Eng - Natural Account	47.00	1/29/2016	1/29/2016		62520700	Misc Main Pvg/Bckflf	1	2016
1026	R26-02D1.09-P-0006		300869789	95572000	SCE-Insurance Workers Comp - (41)	-3.08	1/31/2016	1/27/2016 260000				1	2016
1026	R26-02D1.09-P-0006		300869789	95061000	SCE-Pension Expense - (41)	-8.69	1/31/2016	1/27/2016 260000				1	2016
1026	R26-02D1.09-P-0006		300869789	95500000	SCE-Transportation Oper - A&G - (41)	-9.50	1/31/2016	1/27/2016 260000				1	2016
1026	R26-02D1.09-P-0006		300869789	95051000	SCE-PBOP Expense - (41)	-21.68	1/31/2016	1/27/2016 260000				1	2016
1026	R26-02D1.09-P-0006	SL	1003516748	52801100	Indirect Overhead Clearing	39.71	1/31/2016	2/1/2016		10780110	CWIP-EngClearDist OH	1	2016
1026	R26-02D1.09-P-0006	SL	1003516748	52801100	Indirect Overhead Clearing	-29.74	1/31/2016	2/1/2016		52801100	Indirect OH Clearing	1	2016
1026	R26-02D1.09-P-0006	UI	1003549041	85000000	AFUDC Debt	678.26	1/31/2016	2/2/2016		70510000	AFUDC-Equity	1	2016
1026	R26-02D1.09-P-0006	UI	1003549041	70510000	AFUDC - Equity	614.36	1/31/2016	2/2/2016		70510000	AFUDC-Equity	1	2016
1026	R26-02D1.09-P-0006	PA	1003549139	50100000	Labor Natural Account	128.84	2/5/2016	2/2/2016		13140202	PNC AWCC-PR-Out ACH	2	2016
1026	R26-02D1.09-P-0006	PA	1003549139	50421000	401k Expense	5.16	2/5/2016	2/2/2016		13140202	PNC AWCC-PR-Out ACH	2	2016
1026	R26-02D1.09-P-0006	PA	1003549139	68533000	FICA	9.70	2/5/2016	2/2/2016		13140202	PNC AWCC-PR-Out ACH	2	2016
1026	R26-02D1.09-P-0006	PA	1003549139	68532000	FUTA	0.76	2/5/2016	2/2/2016		13140202	PNC AWCC-PR-Out ACH	2	2016
1026	R26-02D1.09-P-0006	PA	1003549139	50422000	Defined Compensation Plan Expense	6.76	2/5/2016	2/2/2016		13140202	PNC AWCC-PR-Out ACH	2	2016
1026	R26-02D1.09-P-0006	PA	1003549139	50550000	Group Insurance Expense	12.26	2/5/2016	2/2/2016		13140202	PNC AWCC-PR-Out ACH	2	2016
1026	R26-02D1.09-P-0006	PA	1003549139	68535000	SUTA	3.48	2/5/2016	2/2/2016		13140202	PNC AWCC-PR-Out ACH	2	2016
1026	R26-02D1.09-P-0006		300880601	95572000	SCE-Insurance Workers Comp - (41)	2.54	2/29/2016	2/6/2016 260000				2	2016
1026	R26-02D1.09-P-0006		300880601	95061000	SCE-Pension Expense - (41)	7.15	2/29/2016	2/6/2016 260000				2	2016
1026	R26-02D1.09-P-0006		300880601	95500000	SCE-Transportation Oper - A&G - (41)	7.82	2/29/2016	2/6/2016 260000				2	2016
1026	R26-02D1.09-P-0006		300880601	95051000	SCE-PBOP Expense - (41)	17.85	2/29/2016	2/6/2016 260000				2	2016
1026	R26-02D1.09-P-0006	WE	1003613895	53110000	Contract Svc-Eng - Natural Account	9,226.65	2/29/2016	2/29/2016		23436000	A/P-GRIR CapSvc	2	2016
1026	R26-02D1.09-P-0006	SL	1003646099	52801100	Indirect Overhead Clearing	24.91	2/29/2016	3/2/2016		10780110	CWIP-EngClearDist OH	2	2016
1026	R26-02D1.09-P-0006	SL	1003646099	52801100	Indirect Overhead Clearing	1,135.80	2/29/2016	3/2/2016		10780110	CWIP-EngClearDist OH	2	2016
1026	R26-02D1.09-P-0006	UI	1003653457	85000000	AFUDC Debt	699.24	2/29/2016	3/3/2016		70510000	AFUDC-Equity	2	2016
1026	R26-02D1.09-P-0006	UI	1003653457	70510000	AFUDC - Equity	633.36	2/29/2016	3/3/2016		70510000	AFUDC-Equity	2	2016
1026	R26-02D1.09-P-0006	PA	1003677804	50550000	Group Insurance Expense	47.55	3/1/2016	3/15/2016		24120600	Accr Wages	3	2016
1026	R26-02D1.09-P-0006	PA	1003677804	68533000	FICA	40.80	3/1/2016	3/15/2016		24120600	Accr Wages	3	2016
1026	R26-02D1.09-P-0006	PA	1003677804	50422000	Defined Compensation Plan Expense	28.38	3/1/2016	3/15/2016		24120600	Accr Wages	3	2016
1026	R26-02D1.09-P-0006	PA	1003677804	50421000	401k Expense	21.63	3/1/2016	3/15/2016		24120600	Accr Wages	3	2016
1026	R26-02D1.09-P-0006	PA	1003677804	50100001	Labor Expense Accrual	541.14	3/1/2016	3/15/2016		24120600	Accr Wages	3	2016
1026	R26-02D1.09-P-0006	PA	1003646971	68533000	FICA	41.25	3/4/2016	3/1/2016		13140202	PNC AWCC-PR-Out ACH	3	2016
1026	R26-02D1.09-P-0006	PA	1003646971	50550000	Group Insurance Expense	48.10	3/4/2016	3/1/2016		13140202	PNC AWCC-PR-Out ACH	3	2016
1026	R26-02D1.09-P-0006	PA	1003646971	50421000	401k Expense	21.91	3/4/2016	3/1/2016		13140202	PNC AWCC-PR-Out ACH	3	2016
1026	R26-02D1.09-P-0006	PA	1003646971	50422000	Defined Compensation Plan Expense	28.75	3/4/2016	3/1/2016		13140202	PNC AWCC-PR-Out ACH	3	2016
1026	R26-02D1.09-P-0006	PA	1003646971	50100000	Labor Natural Account	547.57	3/4/2016	3/1/2016		13140202	PNC AWCC-PR-Out ACH	3	2016
1026	R26-02D1.09-P-0006	WE	1003674564	53110000	Contract Svc-Eng - Natural Account	9,133.85	3/14/2016	3/14/2016		23436000	A/P-GRIR CapSvc	3	2016
1026	R26-02D1.09-P-0006	PA	1003677805	50100000	Labor Natural Account	386.52	3/18/2016	3/15/2016		13140202	PNC AWCC-PR-Out ACH	3	2016
1026	R26-02D1.09-P-0006	PA	1003677805	50421000	401k Expense	15.45	3/18/2016	3/15/2016		13140202	PNC AWCC-PR-Out ACH	3	2016
1026	R26-02D1.09-P-0006	PA	1003677805	50550000	Group Insurance Expense	33.99	3/18/2016	3/15/2016		13140202	PNC AWCC-PR-Out ACH	3	2016
1026	R26-02D1.09-P-0006	PA	1003677805	50422000	Defined Compensation Plan Expense	20.28	3/18/2016	3/15/2016		13140202	PNC AWCC-PR-Out ACH	3	2016

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1026	R26-02D1.09-P-0006	PA	1003677805	68533000	FICA	29.13	3/18/2016	3/15/2016		13140202	PNC AWCC-PR-Out ACH	3	2016
1026	R26-02D1.09-P-0006		300902652	95061000	SCE-Pension Expense - (41)	30.40	3/31/2016	3/8/2016 260000				3	2016
1026	R26-02D1.09-P-0006		300902652	95500000	SCE-Transportation Oper - A&G - (41)	33.25	3/31/2016	3/8/2016 260000				3	2016
1026	R26-02D1.09-P-0006		300902652	95051000	SCE-PBOP Expense - (41)	75.87	3/31/2016	3/8/2016 260000				3	2016
1026	R26-02D1.09-P-0006		300902652	95572000	SCE-Insurance Workers Comp - (41)	10.78	3/31/2016	3/8/2016 260000				3	2016
1026	R26-02D1.09-P-0006		300909814	95051000	SCE-PBOP Expense - (41)	128.52	3/31/2016	3/15/2016 260000				3	2016
1026	R26-02D1.09-P-0006		300909814	95500000	SCE-Transportation Oper - A&G - (41)	56.33	3/31/2016	3/15/2016 260000				3	2016
1026	R26-02D1.09-P-0006		300909814	95061000	SCE-Pension Expense - (41)	51.50	3/31/2016	3/15/2016 260000				3	2016
1026	R26-02D1.09-P-0006		300909814	95572000	SCE-Insurance Workers Comp - (41)	18.25	3/31/2016	3/15/2016 260000				3	2016
1026	R26-02D1.09-P-0006	SL	1003757229	52801100	Indirect Overhead Clearing	277.88	3/31/2016	4/7/2016		10780110	CWIP-EngClearDist OH	3	2016
1026	R26-02D1.09-P-0006	SL	1003757229	52801100	Indirect Overhead Clearing	1,124.38	3/31/2016	4/7/2016		10780110	CWIP-EngClearDist OH	3	2016
1026	R26-02D1.09-P-0006	UI	1003761089	85000000	AFUDC Debt	740.44	3/31/2016	4/8/2016		70510000	AFUDC-Equity	3	2016
1026	R26-02D1.09-P-0006	UI	1003761089	70510000	AFUDC - Equity	670.68	3/31/2016	4/8/2016		70510000	AFUDC-Equity	3	2016
1026	R26-02D1.09-P-0006	PA	1003678506	50421000	401k Expense	-21.63	4/1/2016	3/15/2016		24120600	Accr Wages	4	2016
1026	R26-02D1.09-P-0006	PA	1003678506	50550000	Group Insurance Expense	-47.55	4/1/2016	3/15/2016		24120600	Accr Wages	4	2016
1026	R26-02D1.09-P-0006	PA	1003678506	68533000	FICA	-40.80	4/1/2016	3/15/2016		24120600	Accr Wages	4	2016
1026	R26-02D1.09-P-0006	PA	1003678506	50100001	Labor Expense Accrual	-541.14	4/1/2016	3/15/2016		24120600	Accr Wages	4	2016
1026	R26-02D1.09-P-0006	PA	1003678506	50422000	Defined Compensation Plan Expense	-28.38	4/1/2016	3/15/2016		24120600	Accr Wages	4	2016
1026	R26-02D1.09-P-0006	PA	1003708701	68535000	SUTA	-4.74	4/1/2016	3/29/2016		50100000	Labor Expense	4	2016
1026	R26-02D1.09-P-0006	PA	1003708701	50421000	401k Expense	18.57	4/1/2016	3/29/2016		13140202	PNC AWCC-PR-Out ACH	4	2016
1026	R26-02D1.09-P-0006	PA	1003708701	50422000	Defined Compensation Plan Expense	24.38	4/1/2016	3/29/2016		13140202	PNC AWCC-PR-Out ACH	4	2016
1026	R26-02D1.09-P-0006	PA	1003708701	50100000	Labor Natural Account	464.52	4/1/2016	3/29/2016		13140202	PNC AWCC-PR-Out ACH	4	2016
1026	R26-02D1.09-P-0006	PA	1003708701	68533000	FICA	35.01	4/1/2016	3/29/2016		13140202	PNC AWCC-PR-Out ACH	4	2016
1026	R26-02D1.09-P-0006	PA	1003708701	50550000	Group Insurance Expense	39.70	4/1/2016	3/29/2016		13140202	PNC AWCC-PR-Out ACH	4	2016
1026	R26-02D1.09-P-0006	PA	1003771148	50422000	Defined Compensation Plan Expense	19.15	4/15/2016	4/12/2016		13140202	PNC AWCC-PR-Out ACH	4	2016
1026	R26-02D1.09-P-0006	PA	1003771148	50421000	401k Expense	14.58	4/15/2016	4/12/2016		13140202	PNC AWCC-PR-Out ACH	4	2016
1026	R26-02D1.09-P-0006	PA	1003771148	50550000	Group Insurance Expense	31.17	4/15/2016	4/12/2016		13140202	PNC AWCC-PR-Out ACH	4	2016
1026	R26-02D1.09-P-0006	PA	1003771148	68533000	FICA	27.50	4/15/2016	4/12/2016		13140202	PNC AWCC-PR-Out ACH	4	2016
1026	R26-02D1.09-P-0006	PA	1003771148	50100000	Labor Natural Account	364.98	4/15/2016	4/12/2016		13140202	PNC AWCC-PR-Out ACH	4	2016
1026	R26-02D1.09-P-0006	WE	1003815395	53110000	Contract Svc-Eng - Natural Account	8,721.95	4/29/2016	4/29/2016		23436000	A/P-GRIR CapSvc	4	2016
1026	R26-02D1.09-P-0006		300924309	95500000	SCE-Transportation Oper - A&G - (41)	-4.65	4/30/2016	4/10/2016 260000				4	2016
1026	R26-02D1.09-P-0006		300924309	95061000	SCE-Pension Expense - (41)	-4.25	4/30/2016	4/10/2016 260000				4	2016
1026	R26-02D1.09-P-0006		300924309	95572000	SCE-Insurance Workers Comp - (41)	-1.51	4/30/2016	4/10/2016 260000				4	2016
1026	R26-02D1.09-P-0006		300924309	95051000	SCE-PBOP Expense - (41)	-10.62	4/30/2016	4/10/2016 260000				4	2016
1026	R26-02D1.09-P-0006		300930644	95051000	SCE-PBOP Expense - (41)	50.57	4/30/2016	4/13/2016 260000				4	2016
1026	R26-02D1.09-P-0006		300930644	95061000	SCE-Pension Expense - (41)	20.26	4/30/2016	4/13/2016 260000				4	2016
1026	R26-02D1.09-P-0006		300930644	95572000	SCE-Insurance Workers Comp - (41)	7.18	4/30/2016	4/13/2016 260000				4	2016
1026	R26-02D1.09-P-0006		300930644	95500000	SCE-Transportation Oper - A&G - (41)	22.16	4/30/2016	4/13/2016 260000				4	2016
1026	R26-02D1.09-P-0006	SL	1003850648	52801100	Indirect Overhead Clearing	859.11	4/30/2016	5/3/2016		10780110	CWIP-EngClearDist OH	4	2016
1026	R26-02D1.09-P-0006	SL	1003850648	52801100	Indirect Overhead Clearing	42.79	4/30/2016	5/3/2016		10780110	CWIP-EngClearDist OH	4	2016
1026	R26-02D1.09-P-0006	UI	1003855308	85000000	AFUDC Debt	781.91	4/30/2016	5/3/2016		70510000	AFUDC-Equity	4	2016
1026	R26-02D1.09-P-0006	UI	1003855308	70510000	AFUDC - Equity	708.24	4/30/2016	5/3/2016		70510000	AFUDC-Equity	4	2016
1026	R26-02D1.09-P-0006	PA	1003902881	50100001	Labor Expense Accrual	1,599.20	5/1/2016	5/24/2016		24120600	Accr Wages	5	2016
1026	R26-02D1.09-P-0006	PA	1003902881	68533000	FICA	121.19	5/1/2016	5/24/2016		24120600	Accr Wages	5	2016
1026	R26-02D1.09-P-0006	PA	1003902881	50550000	Group Insurance Expense	197.42	5/1/2016	5/24/2016		24120600	Accr Wages	5	2016
1026	R26-02D1.09-P-0006	PA	1003902881	50422000	Defined Compensation Plan Expense	76.07	5/1/2016	5/24/2016		24120600	Accr Wages	5	2016
1026	R26-02D1.09-P-0006	PA	1003902881	50421000	401k Expense	51.80	5/1/2016	5/24/2016		24120600	Accr Wages	5	2016
1026	R26-02D1.09-P-0006	WE	1003857568	53110000	Contract Svc-Eng - Natural Account	10,182.15	5/5/2016	5/5/2016		23436000	A/P-GRIR CapSvc	5	2016
1026	R26-02D1.09-P-0006	PA	1003872728	68533000	FICA	5.00	5/13/2016	5/11/2016		13140202	PNC AWCC-PR-Out ACH	5	2016
1026	R26-02D1.09-P-0006	PA	1003872728	50550000	Group Insurance Expense	5.68	5/13/2016	5/11/2016		13140202	PNC AWCC-PR-Out ACH	5	2016
1026	R26-02D1.09-P-0006	PA	1003872728	50100000	Labor Natural Account	66.36	5/13/2016	5/11/2016		13140202	PNC AWCC-PR-Out ACH	5	2016
1026	R26-02D1.09-P-0006	PA	1003872728	50422000	Defined Compensation Plan Expense	3.48	5/13/2016	5/11/2016		13140202	PNC AWCC-PR-Out ACH	5	2016
1026	R26-02D1.09-P-0006	PA	1003872728	50421000	401k Expense	2.66	5/13/2016	5/11/2016		13140202	PNC AWCC-PR-Out ACH	5	2016
1026	R26-02D1.09-P-0006	PA	1003872728	68535000	SUTA	-4.90	5/13/2016	5/11/2016		50100000	Labor Expense	5	2016
1026	R26-02D1.09-P-0006	WE	1003911375	53110000	Contract Svc-Eng - Natural Account	2,401.15	5/26/2016	5/26/2016		23436000	A/P-GRIR CapSvc	5	2016
1026	R26-02D1.09-P-0006	PA	1003902882	50422000	Defined Compensation Plan Expense	108.64	5/27/2016	5/24/2016		13140202	PNC AWCC-PR-Out ACH	5	2016
1026	R26-02D1.09-P-0006	PA	1003902882	50421000	401k Expense	74.02	5/27/2016	5/24/2016		13140202	PNC AWCC-PR-Out ACH	5	2016
1026	R26-02D1.09-P-0006	PA	1003902882	50550000	Group Insurance Expense	281.95	5/27/2016	5/24/2016		13140202	PNC AWCC-PR-Out ACH	5	2016
1026	R26-02D1.09-P-0006	PA	1003902882	68533000	FICA	173.16	5/27/2016	5/24/2016		13140202	PNC AWCC-PR-Out ACH	5	2016
1026	R26-02D1.09-P-0006	PA	1003902882	50100000	Labor Natural Account	1,580.58	5/27/2016	5/24/2016		13140202	PNC AWCC-PR-Out ACH	5	2016
1026	R26-02D1.09-P-0006	PA	1003902882	50110000	Labor Non-scheduled Overtime - Natural A	735.49	5/27/2016	5/24/2016		13140202	PNC AWCC-PR-Out ACH	5	2016
1026	R26-02D1.09-P-0006		300957129	95051000	SCE-PBOP Expense - (41)	9.19	5/31/2016	5/11/2016 260000				5	2016
1026	R26-02D1.09-P-0006		300957129	95500000	SCE-Transportation Oper - A&G - (41)	4.03	5/31/2016	5/11/2016 260000				5	2016
1026	R26-02D1.09-P-0006		300957129	95572000	SCE-Insurance Workers Comp - (41)	1.31	5/31/2016	5/11/2016 260000				5	2016
1026	R26-02D1.09-P-0006		300957129	95061000	SCE-Pension Expense - (41)	3.68	5/31/2016	5/11/2016 260000				5	2016
1026	R26-02D1.09-P-0006		300968527	95061000	SCE-Pension Expense - (41)	217.38	5/31/2016	5/24/2016 260000				5	2016
1026	R26-02D1.09-P-0006		300968527	95572000	SCE-Insurance Workers Comp - (41)	77.05	5/31/2016	5/24/2016 260000				5	2016
1026	R26-02D1.09-P-0006		300968527	95500000	SCE-Transportation Oper - A&G - (41)	237.73	5/31/2016	5/24/2016 260000				5	2016
1026	R26-02D1.09-P-0006		300968527	95051000	SCE-PBOP Expense - (41)	542.46	5/31/2016	5/24/2016 260000				5	2016
1026	R26-02D1.09-P-0006	SL	1003949694	52801100	Indirect Overhead Clearing	1,239.46	5/31/2016	6/1/2016		10780110	CWIP-EngClearDist OH	5	2016
1026	R26-02D1.09-P-0006	SL	1003949694	52801100	Indirect Overhead Clearing	607.81	5/31/2016	6/1/2016		10780110	CWIP-EngClearDist OH	5	2016
1026	R26-02D1.09-P-0006	UI	1003956643	85000000	AFUDC Debt	834.24	5/31/2016	6/2/2016		29999999	999 Line JE Clearg	5	2016
1026	R26-02D1.09-P-0006	UI	1003956643	70510000	AFUDC - Equity	755.64	5/31/2016	6/2/2016		29999999	999 Line JE Clearg	5	2016
1026	R26-02D1.09-P-0006	PA	1003902883	50422000	Defined Compensation Plan Expense	-76.07	6/1/2016	5/24/2016		24120600	Accr Wages	6	2016
1026	R26-02D1.09-P-0006	PA	1003902883	50421000	401k Expense	-51.80	6/1/2016	5/24/2016		24120600	Accr Wages	6	2016

Tennessee-American Water Company
Docket #18-00022
Response to TAW_R_CPADDR3_026
Cost Detail Related to Work Order #R26-02D1.17-P-0007

Source: SAP

Company Code	Object	Document Type	Document Number	Cost Element	Cost element descr.	Val/COArea CrCY	Posting Date	Created on	Partner object	Offsetting acct no.	Name of offsetting account	Period	Fiscal Year
1026	R26-02D1.09-P-0006	PA	1003902883	50100001	Labor Expense Accrual	-1,599.20	6/1/2016	5/24/2016		24120600	Accr Wages	6	2016
1026	R26-02D1.09-P-0006	PA	1003902883	50550000	Group Insurance Expense	-197.42	6/1/2016	5/24/2016		24120600	Accr Wages	6	2016
1026	R26-02D1.09-P-0006	PA	1003902883	68533000	FICA	-121.19	6/1/2016	5/24/2016		24120600	Accr Wages	6	2016
1026	R26-02D1.09-P-0006	PA	1003997179	50550000	Group Insurance Expense	15.30	6/1/2016	6/22/2016		24120600	Accr Wages	6	2016
1026	R26-02D1.09-P-0006	PA	1003997179	50422000	Defined Compensation Plan Expense	9.40	6/1/2016	6/22/2016		24120600	Accr Wages	6	2016
1026	R26-02D1.09-P-0006	PA	1003997179	50421000	401k Expense	7.18	6/1/2016	6/22/2016		24120600	Accr Wages	6	2016
1026	R26-02D1.09-P-0006	PA	1003997179	50100001	Labor Expense Accrual	179.16	6/1/2016	6/22/2016		24120600	Accr Wages	6	2016
1026	R26-02D1.09-P-0006	PA	1003997179	68533000	FICA	13.52	6/1/2016	6/22/2016		24120600	Accr Wages	6	2016
1026	R26-02D1.09-P-0006	PA	1003962104	50422000	Defined Compensation Plan Expense	40.12	6/10/2016	6/8/2016		13140202	PNC AWCC-PR-Out ACH	6	2016
1026	R26-02D1.09-P-0006	PA	1003962104	50110000	Labor Non-scheduled Overtime - Natural A	247.67	6/10/2016	6/8/2016		13140202	PNC AWCC-PR-Out ACH	6	2016
1026	R26-02D1.09-P-0006	PA	1003962104	50421000	401k Expense	35.01	6/10/2016	6/8/2016		13140202	PNC AWCC-PR-Out ACH	6	2016
1026	R26-02D1.09-P-0006	PA	1003962104	50100000	Labor Natural Account	1,139.00	6/10/2016	6/8/2016		13140202	PNC AWCC-PR-Out ACH	6	2016
1026	R26-02D1.09-P-0006	PA	1003962104	68533000	FICA	103.36	6/10/2016	6/8/2016		13140202	PNC AWCC-PR-Out ACH	6	2016
1026	R26-02D1.09-P-0006	PA	1003962104	50550000	Group Insurance Expense	194.20	6/10/2016	6/8/2016		13140202	PNC AWCC-PR-Out ACH	6	2016
1026	R26-02D1.09-P-0006	ZI	1004003522	52535000	Meals Deductible	56.90	6/17/2016	6/23/2016		23411001	PCard Distributed	6	2016
1026	R26-02D1.09-P-0006	PA	1003997180	50421000	401k Expense	7.96	6/24/2016	6/22/2016		13140202	PNC AWCC-PR-Out ACH	6	2016
1026	R26-02D1.09-P-0006	PA	1003997180	68533000	FICA	15.00	6/24/2016	6/22/2016		13140202	PNC AWCC-PR-Out ACH	6	2016
1026	R26-02D1.09-P-0006	PA	1003997180	50422000	Defined Compensation Plan Expense	10.44	6/24/2016	6/22/2016		13140202	PNC AWCC-PR-Out ACH	6	2016
1026	R26-02D1.09-P-0006	PA	1003997180	50100000	Labor Natural Account	199.08	6/24/2016	6/22/2016		13140202	PNC AWCC-PR-Out ACH	6	2016
1026	R26-02D1.09-P-0006	PA	1003997180	50550000	Group Insurance Expense	17.00	6/24/2016	6/22/2016		13140202	PNC AWCC-PR-Out ACH	6	2016
1026	R26-02D1.09-P-0006	WE	1004010589	53110000	Contract Svc-Eng - Natural Account	5,166.40	6/27/2016	6/27/2016		23436000	A/P-GRIR CapSvc	6	2016
1026	R26-02D1.09-P-0006	WA	1004012800	52000000	M & S (O&M) - Natural Account	57.63	6/28/2016	6/28/2016		15110000	Inventory-Plant Mat	6	2016
1026	R26-02D1.09-P-0006		300978633	95061000	SCE-Pension Expense - (41)	-88.79	6/30/2016	6/7/2016 260000				6	2016
1026	R26-02D1.09-P-0006		300978633	95500000	SCE-Transportation Oper - A&G - (41)	-97.10	6/30/2016	6/7/2016 260000				6	2016
1026	R26-02D1.09-P-0006		300978633	95572000	SCE-Insurance Workers Comp - (41)	-31.47	6/30/2016	6/7/2016 260000				6	2016
1026	R26-02D1.09-P-0006		300978633	95051000	SCE-PBOP Expense - (41)	-221.57	6/30/2016	6/7/2016 260000				6	2016
1026	R26-02D1.09-P-0006		300984468	95051000	SCE-PBOP Expense - (41)	192.12	6/30/2016	6/8/2016 260000				6	2016
1026	R26-02D1.09-P-0006		300984468	95500000	SCE-Transportation Oper - A&G - (41)	84.20	6/30/2016	6/8/2016 260000				6	2016
1026	R26-02D1.09-P-0006		300984468	95061000	SCE-Pension Expense - (41)	76.99	6/30/2016	6/8/2016 260000				6	2016
1026	R26-02D1.09-P-0006		300984468	95572000	SCE-Insurance Workers Comp - (41)	27.29	6/30/2016	6/8/2016 260000				6	2016
1026	R26-02D1.09-P-0006		300991919	95500000	SCE-Transportation Oper - A&G - (41)	22.96	6/30/2016	6/22/2016 260000				6	2016
1026	R26-02D1.09-P-0006		300991919	95061000	SCE-Pension Expense - (41)	21.00	6/30/2016	6/22/2016 260000				6	2016
1026	R26-02D1.09-P-0006		300991919	95051000	SCE-PBOP Expense - (41)	52.41	6/30/2016	6/22/2016 260000				6	2016
1026	R26-02D1.09-P-0006		300991919	95572000	SCE-Insurance Workers Comp - (41)	7.44	6/30/2016	6/22/2016 260000				6	2016
1026	R26-02D1.09-P-0006		301001092	95572000	SCE-Insurance Workers Comp - (41)	0.42	6/30/2016	6/30/2016 260000				6	2016
1026	R26-02D1.09-P-0006		301001092	95051000	SCE-PBOP Expense - (41)	-3.97	6/30/2016	6/30/2016 260000				6	2016
1026	R26-02D1.09-P-0006		301001092	95061000	SCE-Pension Expense - (41)	1.50	6/30/2016	6/30/2016 260000				6	2016
1026	R26-02D1.09-P-0006		301001092	95500000	SCE-Transportation Oper - A&G - (41)	1.94	6/30/2016	6/30/2016 260000				6	2016
1026	R26-02D1.09-P-0006	SL	1004054868	52801100	Indirect Overhead Clearing	34.24	6/30/2016	7/1/2016		10780110	CWIP-EngClearDist OH	6	2016
1026	R26-02D1.09-P-0006	SL	1004054868	52801100	Indirect Overhead Clearing	508.89	6/30/2016	7/1/2016		10780110	CWIP-EngClearDist OH	6	2016
1026	R26-02D1.09-P-0006	UI	1004056842	70510000	AFUDC - Equity	798.39	6/30/2016	7/5/2016		70510000	AFUDC-Equity	6	2016
1026	R26-02D1.09-P-0006	UI	1004056842	85000000	AFUDC Debt	881.43	6/30/2016	7/5/2016		70510000	AFUDC-Equity	6	2016
1026	R26-02D1.09-P-0006	PA	1003997181	50422000	Defined Compensation Plan Expense	-9.40	7/1/2016	6/22/2016		24120600	Accr Wages	7	2016
1026	R26-02D1.09-P-0006	PA	1003997181	68533000	FICA	-13.52	7/1/2016	6/22/2016		24120600	Accr Wages	7	2016
1026	R26-02D1.09-P-0006	PA	1003997181	50550000	Group Insurance Expense	-15.30	7/1/2016	6/22/2016		24120600	Accr Wages	7	2016
1026	R26-02D1.09-P-0006	PA	1003997181	50100001	Labor Expense Accrual	-179.16	7/1/2016	6/22/2016		24120600	Accr Wages	7	2016
1026	R26-02D1.09-P-0006	PA	1003997181	50421000	401k Expense	-7.18	7/1/2016	6/22/2016		24120600	Accr Wages	7	2016
1026	R26-02D1.09-P-0006	PA	1004087764	50550000	Group Insurance Expense	19.88	7/1/2016	7/20/2016		24120600	Accr Wages	7	2016
1026	R26-02D1.09-P-0006	PA	1004087764	50421000	401k Expense	9.31	7/1/2016	7/20/2016		24120600	Accr Wages	7	2016
1026	R26-02D1.09-P-0006	PA	1004087764	50422000	Defined Compensation Plan Expense	12.18	7/1/2016	7/20/2016		24120600	Accr Wages	7	2016
1026	R26-02D1.09-P-0006	PA	1004087764	50100001	Labor Expense Accrual	232.26	7/1/2016	7/20/2016		24120600	Accr Wages	7	2016
1026	R26-02D1.09-P-0006	PA	1004087764	68533000	FICA	17.50	7/1/2016	7/20/2016		24120600	Accr Wages	7	2016
1026	R26-02D1.09-P-0006	PA	1004059445	50100000	Labor Natural Account	132.72	7/8/2016	7/6/2016		13140202	PNC AWCC-PR-Out ACH	7	2016
1026	R26-02D1.09-P-0006	PA	1004059445	50550000	Group Insurance Expense	11.32	7/8/2016	7/6/2016		13140202	PNC AWCC-PR-Out ACH	7	2016
1026	R26-02D1.09-P-0006	PA	1004059445	50421000	401k Expense	5.30	7/8/2016	7/6/2016		13140202	PNC AWCC-PR-Out ACH	7	2016
1026	R26-02D1.09-P-0006	PA	1004059445	50422000	Defined Compensation Plan Expense	6.96	7/8/2016	7/6/2016		13140202	PNC AWCC-PR-Out ACH	7	2016
1026	R26-02D1.09-P-0006	PA	1004059445	68533000	FICA	10.00	7/8/2016	7/6/2016		13140202	PNC AWCC-PR-Out ACH	7	2016
1026	R26-02D1.09-P-0006	PA	1004087765	50422000	Defined Compensation Plan Expense	12.18	7/22/2016	7/20/2016		13140202	PNC AWCC-PR-Out ACH	7	2016
1026	R26-02D1.09-P-0006	PA	1004087765	68533000	FICA	17.50	7/22/2016	7/20/2016		13140202	PNC AWCC-PR-Out ACH	7	2016
1026	R26-02D1.09-P-0006	PA	1004087765	50550000	Group Insurance Expense	19.88	7/22/2016	7/20/2016		13140202	PNC AWCC-PR-Out ACH	7	2016
1026	R26-02D1.09-P-0006	PA	1004087765	50421000	401k Expense	9.31	7/22/2016	7/20/2016		13140202	PNC AWCC-PR-Out ACH	7	2016
1026	R26-02D1.09-P-0006	PA	1004087765	50100000	Labor Natural Account	232.26	7/22/2016	7/20/2016		13140202	PNC AWCC-PR-Out ACH	7	2016
1026	R26-02D1.09-P-0006		301009915	95061000	SCE-Pension Expense - (41)	-3.00	7/31/2016	7/8/2016 260000				7	2016
1026	R26-02D1.09-P-0006		301009915	95500000	SCE-Transportation Oper - A&G - (41)	-3.36	7/31/2016	7/8/2016 260000				7	2016
1026	R26-02D1.09-P-0006		301009915	95572000	SCE-Insurance Workers Comp - (41)	-1.03	7/31/2016	7/8/2016 260000				7	2016
1026	R26-02D1.09-P-0006		301009915	95051000	SCE-PBOP Expense - (41)	-5.32	7/31/2016	7/8/2016 260000				7	2016
1026	R26-02D1.09-P-0006		301019970	95500000	SCE-Transportation Oper - A&G - (41)	33.63	7/31/2016	7/20/2016 260000				7	2016
1026	R26-02D1.09-P-0006		301019970	95051000	SCE-PBOP Expense - (41)	53.23	7/31/2016	7/20/2016 260000				7	2016
1026	R26-02D1.09-P-0006		301019970	95572000	SCE-Insurance Workers Comp - (41)	10.31	7/31/2016	7/20/2016 260000				7	2016
1026	R26-02D1.09-P-0006		301019970	95061000	SCE-Pension Expense - (41)	30.01	7/31/2016	7/20/2016 260000				7	2016
1026	R26-02D1.09-P-0006	SL	1004143606	52801100	Indirect Overhead Clearing	54.21	7/31/2016	8/1/2016		10780110	CWIP-EngClearDist OH	7	2016
1026	R26-02D1.09-P-0006	SA	1004146994	50550100	Group Insurance Capitalized Credits	81.95	7/31/2016	8/2/2016		50550100	Group Ins Cap Credits	7	2016
1026	R26-02D1.09-P-0006	UI	1004147236	85000000	AFUDC Debt	897.42	7/31/2016	8/2/2016		70510000	AFUDC-Equity	7	2016
1026	R26-02D1.09-P-0006	UI	1004147237	70510000	AFUDC - Equity	812.87	7/31/2016	8/2/2016		29999999	999 Line IE Clearg	7	2016
1026	R26-02D1.09-P-0006	PA	1004087766	50421000	401k Expense	-9.31	8/1/2016	7/20/2016		24120600	Accr Wages	8	2016

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Source: SAP

Company Code	Object	Document Type	Document Number	Cost Element	Cost element descr.	Val/COArea CrCy	Posting Date	Created on	Partner object	Offsetting acct no.	Name of offsetting account	Period	Fiscal Year
1026	R26-02D1.09-P-0006	PA	1004087766	50100001	Labor Expense Accrual	-232.26	8/1/2016	7/20/2016		24120600	Accr Wages	8	2016
1026	R26-02D1.09-P-0006	PA	1004087766	50422000	Defined Compensation Plan Expense	-12.18	8/1/2016	7/20/2016		24120600	Accr Wages	8	2016
1026	R26-02D1.09-P-0006	PA	1004087766	68533000	FICA	-17.50	8/1/2016	7/20/2016		24120600	Accr Wages	8	2016
1026	R26-02D1.09-P-0006	PA	1004087766	50550000	Group Insurance Expense	-19.88	8/1/2016	7/20/2016		24120600	Accr Wages	8	2016
1026	R26-02D1.09-P-0006	PA	1004179243	50100001	Labor Expense Accrual	86.27	8/1/2016	8/17/2016		24120600	Accr Wages	8	2016
1026	R26-02D1.09-P-0006	PA	1004179243	68533000	FICA	6.51	8/1/2016	8/17/2016		24120600	Accr Wages	8	2016
1026	R26-02D1.09-P-0006	PA	1004179243	50550000	Group Insurance Expense	7.36	8/1/2016	8/17/2016		24120600	Accr Wages	8	2016
1026	R26-02D1.09-P-0006	PA	1004179243	50421000	401k Expense	3.45	8/1/2016	8/17/2016		24120600	Accr Wages	8	2016
1026	R26-02D1.09-P-0006	PA	1004179243	50422000	Defined Compensation Plan Expense	4.52	8/1/2016	8/17/2016		24120600	Accr Wages	8	2016
1026	R26-02D1.09-P-0006	WE	1004150674	53110000	Contract Svc-Eng - Natural Account	6,050.35	8/4/2016	8/4/2016		23436000	A/P-GRIR CapSvc	8	2016
1026	R26-02D1.09-P-0006	PA	1004179244	50100000	Labor Natural Account	66.36	8/19/2016	8/17/2016		13140202	PNC AWCC-PR-Out ACH	8	2016
1026	R26-02D1.09-P-0006	PA	1004179244	50422000	Defined Compensation Plan Expense	3.48	8/19/2016	8/17/2016		13140202	PNC AWCC-PR-Out ACH	8	2016
1026	R26-02D1.09-P-0006	PA	1004179244	50550000	Group Insurance Expense	5.66	8/19/2016	8/17/2016		13140202	PNC AWCC-PR-Out ACH	8	2016
1026	R26-02D1.09-P-0006	PA	1004179244	50421000	401k Expense	2.65	8/19/2016	8/17/2016		13140202	PNC AWCC-PR-Out ACH	8	2016
1026	R26-02D1.09-P-0006	PA	1004179244	68533000	FICA	5.00	8/19/2016	8/17/2016		13140202	PNC AWCC-PR-Out ACH	8	2016
1026	R26-02D1.09-P-0006	WE	1004205005	53110000	Contract Svc-Eng - Natural Account	9,732.35	8/30/2016	8/30/2016		23436000	A/P-GRIR CapSvc	8	2016
1026	R26-02D1.09-P-0006		301035403	95061000	SCE-Pension Expense - (41)	-15.00	8/31/2016	8/5/2016 260000				8	2016
1026	R26-02D1.09-P-0006		301035403	95500000	SCE-Transportation Oper - A&G - (41)	-16.82	8/31/2016	8/5/2016 260000				8	2016
1026	R26-02D1.09-P-0006		301035403	95051000	SCE-PBOP Expense - (41)	-26.62	8/31/2016	8/5/2016 260000				8	2016
1026	R26-02D1.09-P-0006		301035403	95572000	SCE-Insurance Workers Comp - (41)	-5.16	8/31/2016	8/5/2016 260000				8	2016
1026	R26-02D1.09-P-0006		301042896	95500000	SCE-Transportation Oper - A&G - (41)	11.05	8/31/2016	8/17/2016 260000				8	2016
1026	R26-02D1.09-P-0006		301042896	95061000	SCE-Pension Expense - (41)	9.86	8/31/2016	8/17/2016 260000				8	2016
1026	R26-02D1.09-P-0006		301042896	95572000	SCE-Insurance Workers Comp - (41)	3.39	8/31/2016	8/17/2016 260000				8	2016
1026	R26-02D1.09-P-0006		301042896	95051000	SCE-PBOP Expense - (41)	17.49	8/31/2016	8/17/2016 260000				8	2016
1026	R26-02D1.09-P-0006	SL	1004215476	52801100	Indirect Overhead Clearing	1,339.95	8/31/2016	9/1/2016		10780110	CWIP-EngClearDist OH	8	2016
1026	R26-02D1.09-P-0006	SL	1004215476	52801100	Indirect Overhead Clearing	-10.33	8/31/2016	9/1/2016		52801100	Indirect OH Clearing	8	2016
1026	R26-02D1.09-P-0006	UI	1004246274	85000000	AFUDC Debt	931.05	8/31/2016	9/2/2016		70510000	AFUDC-Equity	8	2016
1026	R26-02D1.09-P-0006	UI	1004246274	70510000	AFUDC - Equity	843.33	8/31/2016	9/2/2016		70510000	AFUDC-Equity	8	2016
1026	R26-02D1.09-P-0006	PA	1004179245	50422000	Defined Compensation Plan Expense	-4.52	9/1/2016	8/17/2016		24120600	Accr Wages	9	2016
1026	R26-02D1.09-P-0006	PA	1004179245	50421000	401k Expense	-3.45	9/1/2016	8/17/2016		24120600	Accr Wages	9	2016
1026	R26-02D1.09-P-0006	PA	1004179245	50550000	Group Insurance Expense	-7.36	9/1/2016	8/17/2016		24120600	Accr Wages	9	2016
1026	R26-02D1.09-P-0006	PA	1004179245	68533000	FICA	-6.51	9/1/2016	8/17/2016		24120600	Accr Wages	9	2016
1026	R26-02D1.09-P-0006	PA	1004179245	50100001	Labor Expense Accrual	-86.27	9/1/2016	8/17/2016		24120600	Accr Wages	9	2016
1026	R26-02D1.09-P-0006		301056179	95500000	SCE-Transportation Oper - A&G - (41)	-6.25	9/30/2016	9/9/2016 260000				9	2016
1026	R26-02D1.09-P-0006		301056179	95061000	SCE-Pension Expense - (41)	-5.57	9/30/2016	9/9/2016 260000				9	2016
1026	R26-02D1.09-P-0006		301056179	95051000	SCE-PBOP Expense - (41)	-9.89	9/30/2016	9/9/2016 260000				9	2016
1026	R26-02D1.09-P-0006		301056179	95572000	SCE-Insurance Workers Comp - (41)	-1.92	9/30/2016	9/9/2016 260000				9	2016
1026	R26-02D1.09-P-0006	WE	1004310574	53110000	Contract Svc-Eng - Natural Account	5,566.55	9/30/2016	9/30/2016		23436000	A/P-GRIR CapSvc	9	2016
1026	R26-02D1.09-P-0006	SL	1004321218	52801100	Indirect Overhead Clearing	-9.18	9/30/2016	10/3/2016		52801100	Indirect OH Clearing	9	2016
1026	R26-02D1.09-P-0006	SL	1004321218	52801100	Indirect Overhead Clearing	-2.01	9/30/2016	10/3/2016		52801100	Indirect OH Clearing	9	2016
1026	R26-02D1.09-P-0006	SL	1004321218	52801100	Indirect Overhead Clearing	557.50	9/30/2016	10/3/2016		10780110	CWIP-EngClearDist OH	9	2016
1026	R26-02D1.09-P-0006	UI	1004324897	85000000	AFUDC Debt	974.58	9/30/2016	10/5/2016		18503000	RA-ITRtr-AFUDC CWIP	9	2016
1026	R26-02D1.09-P-0006	UI	1004324897	70510000	AFUDC - Equity	882.76	9/30/2016	10/5/2016		18503000	RA-ITRtr-AFUDC CWIP	9	2016
1026	R26-02D1.09-P-0006	SA	1004411054	50510100	PBOP Capitalized Credits	15.33	10/31/2016	10/28/2016		50510100	PBOP Cap Credits	10	2016
1026	R26-02D1.09-P-0006	SL	1004440680	52801100	Indirect Overhead Clearing	1.91	10/31/2016	11/1/2016		10780110	CWIP-EngClearDist OH	10	2016
1026	R26-02D1.09-P-0006	UI	1004452985	70510000	AFUDC - Equity	898.10	10/31/2016	11/2/2016		70510000	AFUDC-Equity	10	2016
1026	R26-02D1.09-P-0006	UI	1004452985	85000000	AFUDC Debt	991.52	10/31/2016	11/2/2016		70510000	AFUDC-Equity	10	2016
1026	R26-02D1.09-P-0006	WE	1004469202	53110000	Contract Svc-Eng - Natural Account	1,862.75	11/9/2016	11/9/2016		23436000	A/P-GRIR CapSvc	11	2016
1026	R26-02D1.09-P-0006	WE	1004519152	53110000	Contract Svc-Eng - Natural Account	939.25	11/30/2016	11/30/2016		23436000	A/P-GRIR CapSvc	11	2016
1026	R26-02D1.09-P-0006	SL	1004543819	52801100	Indirect Overhead Clearing	348.57	11/30/2016	12/1/2016		10780110	CWIP-EngClearDist OH	11	2016
1026	R26-02D1.09-P-0006	UI	1004556915	85000000	AFUDC Debt	1,002.51	11/30/2016	12/2/2016		70510000	AFUDC-Equity	11	2016
1026	R26-02D1.09-P-0006	UI	1004556915	70510000	AFUDC - Equity	908.06	11/30/2016	12/2/2016		70510000	AFUDC-Equity	11	2016
1026	R26-02D1.09-P-0006	UI	1004655582	85000000	AFUDC Debt	1,013.53	12/31/2016	1/5/2017		70510000	AFUDC-Equity	12	2016
1026	R26-02D1.09-P-0006	UI	1004655582	70510000	AFUDC - Equity	918.04	12/31/2016	1/5/2017		70510000	AFUDC-Equity	12	2016
1026	R26-02D1.09-P-0006	SL	1004661754	52801100	Indirect Overhead Clearing	1.04	12/31/2016	1/6/2017		10780110	CWIP-EngClearDist OH	12	2016
1026	R26-02D1.09-P-0006	SL	1004661754	52801100	Indirect Overhead Clearing	190.26	12/31/2016	1/6/2017		10780110	CWIP-EngClearDist OH	12	2016
1026	R26-02D1.09-P-0006	WE	1004655254	53110000	Contract Svc-Eng - Natural Account	1,815.05	1/4/2017	1/4/2017		23436000	A/P-GRIR CapSvc	1	2017
1026	R26-02D1.09-P-0006	SL	1004731732	52801100	Indirect Overhead Clearing	189.67	1/31/2017	2/1/2017		10780110	CWIP-EngClearDist OH	1	2017
1026	R26-02D1.09-P-0006	UI	1004745143	85000000	AFUDC Debt	1,023.42	1/31/2017	2/2/2017		70510000	AFUDC-Equity	1	2017
1026	R26-02D1.09-P-0006	UI	1004745143	70510000	AFUDC - Equity	927.00	1/31/2017	2/2/2017		70510000	AFUDC-Equity	1	2017
1026	R26-02D1.09-P-0006	WE	1004800910	53110000	Contract Svc-Eng - Natural Account	168.65	2/27/2017	2/27/2017		23436000	A/P-GRIR CapSvc	2	2017
1026	R26-02D1.09-P-0006	SL	1004824101	52801100	Indirect Overhead Clearing	17.62	2/28/2017	3/1/2017		10780110	CWIP-EngClearDist OH	2	2017
1026	R26-02D1.09-P-0006	UI	1004837288	85000000	AFUDC Debt	1,033.05	2/28/2017	3/2/2017		70510000	AFUDC-Equity	2	2017
1026	R26-02D1.09-P-0006	UI	1004837288	70510000	AFUDC - Equity	935.72	2/28/2017	3/2/2017		70510000	AFUDC-Equity	2	2017
1026	R26-02D1.09-P-0006	KR	1004873074	53150000	Contract Svc-Other - Natural Account	359.65	3/16/2017	3/16/2017		119177	A-1 Barricades & A&H Safety Su	3	2017
1026	R26-02D1.09-P-0006	WE	1004881183	53110000	Contract Svc-Eng - Natural Account	303.25	3/22/2017	3/22/2017		23436000	A/P-GRIR CapSvc	3	2017
1026	R26-02D1.09-P-0006	SL	1004943153	52801100	Indirect Overhead Clearing	31.69	3/31/2017	4/3/2017		10780110	CWIP-EngClearDist OH	3	2017
1026	R26-02D1.09-P-0006	SL	1004943153	52801100	Indirect Overhead Clearing	37.58	3/31/2017	4/3/2017		10780110	CWIP-EngClearDist OH	3	2017
1026	R26-02D1.09-P-0006	UI	1004945667	85000000	AFUDC Debt	1,040.73	3/31/2017	4/4/2017		70510000	AFUDC-Equity	3	2017
1026	R26-02D1.09-P-0006	UI	1004945667	70510000	AFUDC - Equity	942.68	3/31/2017	4/4/2017		70510000	AFUDC-Equity	3	2017
1026	R26-02D1.09-P-0006	UI	1005041795	85000000	AFUDC Debt	1,048.16	4/30/2017	5/2/2017		70510000	AFUDC-Equity	4	2017
1026	R26-02D1.09-P-0006	UI	1005041795	70510000	AFUDC - Equity	949.41	4/30/2017	5/2/2017		70510000	AFUDC-Equity	4	2017
1026	R26-02D1.09-P-0006	UI	1005150147	70510000	AFUDC - Equity	955.13	5/31/2017	6/2/2017		70510000	AFUDC-Equity	5	2017
1026	R26-02D1.09-P-0006	UI	1005150147	85000000	AFUDC Debt	1,054.48	5/31/2017	6/2/2017		70510000	AFUDC-Equity	5	2017
1026	R26-02D1.09-P-0006	UI	1005258788	70510000	AFUDC - Equity	960.89	6/30/2017	7/5/2017		70510000	AFUDC-Equity	6	2017

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Company Code	Object	Document type	Document Number	Cost Element	Cost element descr.	Val/COArea Crcty	Posting Date	Created on	Partner object	Offsetting acct no.	Name of offsetting account	Period	Fiscal Year
1026	R26-02D1.09-P-0006	UI	1005258788	85000000	AFUDC Debt	1,060.84	6/30/2017	7/5/2017		70510000	AFUDC-Equity	6	2017

\$337,231.72

Document Header Text	Name	Ref Document Number	Total quantity	Material	Material Description	Purchasing Document	Item	Purchase order text
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Non-Cash DV Addition	Book Acq Asset	100058651	0.000				0	
Non-Cash DV Addition	Book Acq Contribution	100058651	0.000				0	
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OVERHEAD	PP BATCH # 8103	100059885	0.000				0	
AFUDC	PP BATCH # 8113	2000006202	0.000				0	
AFUDC	PP BATCH # 8113	2000006202	0.000				0	
Reclass Capital Addition		100060000	0.000				0	
Reclass Capital Addition		100060000	0.000				0	
Reclass Capital Addition		100060000	0.000				0	
OVERHEAD	PP BATCH # 8163	100061582	0.000				0	
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	260200: 105250: 21: 454558	9900000033	0.000				0	
	260200: 105375: 21: 454558	9900000033	0.000				0	
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	260200: 105275: 21: 454558	9900000033	0.000				0	
	260200: 105275: 21: 454558	9900000033	0.000				0	
	260200: 105050: 21: 454558	9900000033	0.000				0	
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	260200: 105050: 21: 454558	9900000019	0.000				0	
	260200: 105275: 21: 454558	9900000019	0.000				0	
	260200: 105260: 21: 454558	9900000025	0.000				0	
	260200: 105375: 21: 454558	9900000023	0.000				0	
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	260200: 105250: 21: 454558	9900000002	0.000				0	
	260200: 105375: 21: 454558	9900000002	0.000				0	
	260200: 105275: 21: 454558	9900000002	0.000				0	
	260200: 105260: 21: 454558	9900000002	0.000				0	
	260200: 105050: 21: 454558	9900000002	0.000				0	
	260200: 105200: 21: 454558	9900000002	0.000				0	
	260200: 105350: 21: 454558	9900000005	0.000				0	
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	260200: 105375: 21: 454558	9900000022	0.000				0	
	260200: 105175: 21: 454558	9900000003	0.000				0	
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	260200: 105375: 21: 454558	9900000029	0.000				0	
	260200: 105350: 21: 454558	9900000029	0.000				0	
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	260200: 105350: 21: 454558	9900000006	0.000				0	
	260200: 105375: 21: 454558	9900000006	0.000				0	
	260200: 105175: 21: 454558	9900000006	0.000				0	
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	260200: 105350: 21: 454558	9900000012	0.000				0	
	260200: 105050: 21: 454558	9900000012	0.000				0	
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		5000000423	0.000				0	
OVERHEAD	PP BATCH # 2220	100000250	0.000				0	
AFUDC	PP BATCH # 2234	2000000079	0.000				0	
AFUDC	PP BATCH # 2234	2000000080	0.000				0	
	VOW - September 2012	5000007818	1			4500003486	10	Design
OVERHEAD	PP BATCH # 2363	100000503	0.000				0	
OVERHEAD	PP BATCH # 2363	100000503	0.000				0	
FA:Adj OH alloc	0	100000520	0.000				0	
AFUDC	PP BATCH # 2372	2000000205	0.000				0	
AFUDC	PP BATCH # 2372	2000000205	0.000				0	
AFUDC	PP BATCH # 2498	2000000328	0.000				0	
AFUDC	PP BATCH # 2498	2000000328	0.000				0	
AFUDC	PP BATCH # 2640	2000000467	0.000				0	
AFUDC	PP BATCH # 2640	2000000467	0.000				0	
VOW - December 12	VOW - December 12	5000035450	1,333.660			4500003486	10	Design
OVERHEAD	PP BATCH # 2792	100001790	0.000				0	
AFUDC	PP BATCH # 2807	2000000642	0.000				0	
AFUDC	PP BATCH # 2807	2000000642	0.000				0	
OVERHEAD	PP BATCH # 2842	100001900	0.000				0	
AFUDC	PP BATCH # 2971	2000000771	0.000				0	
AFUDC	PP BATCH # 2971	2000000771	0.000				0	
AFUDC	PP BATCH # 3090	2000000869	0.000				0	
AFUDC	PP BATCH # 3090	2000000869	0.000				0	
AFUDC	PP BATCH # 3284	2000001001	0.000				0	
AFUDC	PP BATCH # 3284	2000001001	0.000				0	
AFUDC	PP BATCH # 3490	2000001128	0.000				0	
AFUDC	PP BATCH # 3490	2000001128	0.000				0	
AFUDC	PP BATCH # 3660	2000001258	0.000				0	
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AFUDC	PP BATCH # 3840	2000001378	0.000				0	
AFUDC	PP BATCH # 3840	2000001378	0.000				0	
AFUDC	PP BATCH # 4071	2000001504	0.000				0	
AFUDC	PP BATCH # 4071	2000001504	0.000				0	
AFUDC	PP BATCH # 4274	2000001647	0.000				0	
AFUDC	PP BATCH # 4274	2000001647	0.000				0	
AFUDC	PP BATCH # 4451	2000001746	0.000				0	
AFUDC	PP BATCH # 4451	2000001746	0.000				0	
AFUDC	PP BATCH # 4640	2000001881	0.000				0	
AFUDC	PP BATCH # 4640	2000001881	0.000				0	
AFUDC	PP BATCH # 4843	2000002018	0.000				0	
AFUDC	PP BATCH # 4843	2000002018	0.000				0	
AFUDC	PP BATCH # 5083	2000002186	0.000				0	
AFUDC	PP BATCH # 5083	2000002186	0.000				0	
	VOW - September 2012	5000009058	0.000				0	
		5000009211	0.000				0	
OVERHEAD	PP BATCH # 5275	100006915	0.000				0	
AFUDC	PP BATCH # 5283	2000002333	0.000				0	
AFUDC	PP BATCH # 5283	2000002333	0.000				0	
AFUDC	PP BATCH # 5472	2000002485	0.000				0	
AFUDC	PP BATCH # 5472	2000002485	0.000				0	
AFUDC	PP BATCH # 5572	2000002584	0.000				0	
AFUDC	PP BATCH # 5572	2000002584	0.000				0	
AFUDC	PP BATCH # 5666	2000002671	0.000				0	
AFUDC	PP BATCH # 5666	2000002671	0.000				0	
AFUDC	PP BATCH # 5767	2000002762	0.000				0	
AFUDC	PP BATCH # 5767	2000002762	0.000				0	
AFUDC	PP BATCH # 5854	2000002855	0.000				0	
AFUDC	PP BATCH # 5854	2000002855	0.000				0	
Inv# 0038393 1/31/14	Inv# 0038393 1/31/14	5000204548	1			5000007806	10	Engineering Services for E. Brainerd Rd
Inv# 0037921 11/30/13	Inv# 0037921 11/30/13	5000204549	1			5000007806	10	Engineering Services for E. Brainerd Rd
Inv# 0038172 12/31/14	Inv# 0038172 12/31/14	5000214048	1			5000007806	10	Engineering Services for E. Brainerd Rd
OVERHEAD	PP BATCH # 5933	100012180	0.000				0	
AFUDC	PP BATCH # 5939	2000002922	0.000				0	
AFUDC	PP BATCH # 5939	2000002922	0.000				0	
AFUDC	PP BATCH # 5998	2000003008	0.000				0	
AFUDC	PP BATCH # 5998	2000003008	0.000				0	
AFUDC	PP BATCH # 6072	2000003075	0.000				0	
AFUDC	PP BATCH # 6072	2000003075	0.000				0	
AFUDC	PP BATCH # 6147	2000003162	0.000				0	
AFUDC	PP BATCH # 6147	2000003162	0.000				0	
AFUDC	PP BATCH # 6214	2000003230	0.000				0	
AFUDC	PP BATCH # 6214	2000003230	0.000				0	
Inv# 0040217 8/31/14	Inv# 0040217 8/31/14	5000262389	1			5000007806	10	Engineering Services for E. Brainerd Rd

Document Header Text	Name	Ref Document Number	Total quantity	Material	Material Description	Purchasing Document	Item	Purchase order text
OVERHEAD	PP BATCH # 6266	100017280	0.000				0	
AFUDC	PP BATCH # 6274	2000003315	0.000				0	
AFUDC	PP BATCH # 6274	2000003315	0.000				0	
OVERHEAD	PP BATCH # 6294	100017406	0.000				0	
	Inv# 00041202 12/30/14	5000278680	1			5000007806	10	Engineering Services for E. Brainerd Rd
OVERHEAD	PP BATCH # 6340	100018198	0.000				0	
AFUDC	PP BATCH # 6347	2000003408	0.000				0	
AFUDC	PP BATCH # 6347	2000003408	0.000				0	
AFUDC	PP BATCH # 6405	2000003475	0.000				0	
AFUDC	PP BATCH # 6405	2000003476	0.000				0	
AFUDC	PP BATCH # 6475	2000003566	0.000				0	
AFUDC	PP BATCH # 6475	2000003566	0.000				0	
AFUDC	PP BATCH # 6535	2000003655	0.000				0	
AFUDC	PP BATCH # 6535	2000003655	0.000				0	
AFUDC	PP BATCH # 6599	2000003759	0.000				0	
AFUDC	PP BATCH # 6599	2000003759	0.000				0	
	Inv# 0042083 4/30/15	5000334362	1			5000007806	10	Engineering Services for E. Brainerd Rd
PP0000014717		150608	0.000				0	
PP0000014717		150608	0.000				0	
PP0000014717		150608	0.000				0	
PP0000014717		150608	0.000				0	
PP0000014717		150608	0.000				0	
PP0000014717		150608	0.000				0	
PP0000014717		150609	0.000				0	
PP0000014717		150609	0.000				0	
PP0000014717		150609	0.000				0	
PP0000014717		150609	0.000				0	
PP0000014717		150609	0.000				0	
PP0000014717		150609	0.000				0	
PP0000014717		150609	0.000				0	
Inv#15052628 6/10/15	Inv#15052628 6/10/15	5000348167	1			5000027494	10	Inspection Srv for E Brainerd Rd
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
OVERHEAD	PP BATCH # 6656	100022680	0.000				0	
OVERHEAD	PP BATCH # 6656	100022680	0.000				0	
AFUDC	PP BATCH # 6665	2000003860	0.000				0	
AFUDC	PP BATCH # 6665	2000003860	0.000				0	
PP0000014717		150610	0.000				0	
PP0000014717		150610	0.000				0	
PP0000014717		150610	0.000				0	
PP0000014717		150610	0.000				0	
PP0000014717		150610	0.000				0	
PP0000014717		150610	0.000				0	
PP0000014971		152655	0.000				0	
PP0000014971		152655	0.000				0	
PP0000014971		152655	0.000				0	
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PP0000014971		152655	0.000				0	
PP0000014863		151570	0.000				0	
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PP0000014971		152656	0.000				0	
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PP0000014971		152656	0.000				0	
PP0000014971		152656	0.000				0	
OVERHEAD	PP BATCH # 6716	100023875	0.000				0	
AFUDC	PP BATCH # 6725	2000003948	0.000				0	
AFUDC	PP BATCH # 6725	2000003948	0.000				0	
PP0000014971		152657	0.000				0	
PP0000014971		152657	0.000				0	
PP0000014971		152657	0.000				0	
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PP0000014971		152657	0.000				0	
PP0000014971		152657	0.000				0	

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PP0000015206		155639	0.000				0	
PP0000015206		155639	0.000				0	
PP0000015206		155639	0.000				0	
PP0000015206		155639	0.000				0	
PP0000015206		155639	0.000				0	
Inv# 15062615 7/10/15	Inv# 15062615 7/10/15	5000365749	1			5000027494	10	Inspection Srv for E Brainerd Rd
		5000023055	0.000				0	
PP0000015119		153724	0.000				0	
PP0000015119		153724	0.000				0	
PP0000015119		153724	0.000				0	
PP0000015119		153724	0.000				0	
PP0000015119		153724	0.000				0	
PP0000015119		153724	0.000				0	
PP0000015206		155640	0.000				0	
PP0000015206		155640	0.000				0	
PP0000015206		155640	0.000				0	
PP0000015206		155640	0.000				0	
PP0000015206		155640	0.000				0	
PP0000015206		155640	0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
OVERHEAD	PP BATCH # 6777	100024789	0.000				0	
OVERHEAD	PP BATCH # 6777	100024789	0.000				0	
AFUDC	PP BATCH # 6788	2000004023	0.000				0	
AFUDC	PP BATCH # 6788	2000004023	0.000				0	
PP0000015206		155641	0.000				0	
PP0000015206		155641	0.000				0	
PP0000015206		155641	0.000				0	
PP0000015206		155641	0.000				0	
PP0000015206		155641	0.000				0	
PP0000015206		155641	0.000				0	
PP0000015316		156633	0.000				0	
PP0000015316		156633	0.000				0	
PP0000015316		156633	0.000				0	
PP0000015316		156633	0.000				0	
PP0000015316		156633	0.000				0	
PP0000015316		156633	0.000				0	
Inv# 15072613 8/10/15	Inv# 15072613 8/10/15	5000382075	1			5000027494	10	Inspection Srv for E Brainerd Rd
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
Inv# 15082603 9/8/15	Inv# 15082603 9/8/15	5000393711	1			5000027494	10	Inspection Srv for E Brainerd Rd
OVERHEAD	PP BATCH # 6835	100026035	0.000				0	
OVERHEAD	PP BATCH # 6835	100026035	0.000				0	
AFUDC	PP BATCH # 6843	2000004103	0.000				0	
AFUDC	PP BATCH # 6843	2000004103	0.000				0	
PP0000015941		162062	0.000				0	
PP0000015941		162062	0.000				0	
PP0000015941		162062	0.000				0	
PP0000015941		162062	0.000				0	
PP0000015941		162062	0.000				0	
PP0000015581		159971	0.000				0	
PP0000015581		159971	0.000				0	
PP0000015581		159971	0.000				0	
PP0000015581		159971	0.000				0	
PP0000015581		159971	0.000				0	
PP0000015581		159971	0.000				0	
PP0000015791		160944	0.000				0	
PP0000015791		160944	0.000				0	
PP0000015791		160944	0.000				0	
PP0000015791		160944	0.000				0	
PP0000015791		160944	0.000				0	
Inv# 0042876 8/31/15	Inv# 0042876 8/31/15	5000402060	1			5000007806	10	Engineering Services for E. Brainerd Rd
PP0000015941		162063	0.000				0	
PP0000015941		162063	0.000				0	
PP0000015941		162063	0.000				0	
PP0000015941		162063	0.000				0	
PP0000015941		162063	0.000				0	
PP0000015941		162063	0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
OVERHEAD	PP BATCH # 6896	100027192	0.000				0	

Document Header Text	Name	Ref Document Number	Total quantity	Material	Material Description	Purchasing Document	Item	Purchase order text
OVERHEAD	PP BATCH # 6896	100027192	0.000				0	
AFUDC	PP BATCH # 6904	2000004196	0.000				0	
AFUDC	PP BATCH # 6904	2000004197	0.000				0	
PP0000015941		162064	0.000				0	
PP0000015941		162064	0.000				0	
PP0000015941		162064	0.000				0	
PP0000015941		162064	0.000				0	
PP0000015941		162064	0.000				0	
PP0000015941		162064	0.000				0	
PP0000016197		164239	0.000				0	
PP0000016197		164239	0.000				0	
PP0000016197		164239	0.000				0	
PP0000016197		164239	0.000				0	
PP0000016197		164239	0.000				0	
PP0000016197		164239	0.000				0	
Inv# 15092611 10/12/15	Inv# 15092611 10/12/15	5000410164	1			5000027494	10	Inspection Srv for E Brainerd Rd
PP0000016065		163116	0.000				0	
PP0000016065		163116	0.000				0	
PP0000016065		163116	0.000				0	
PP0000016065		163116	0.000				0	
PP0000016065		163116	0.000				0	
PP0000016065		163116	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
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PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
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PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
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PP0000016197		164240	0.000				0	
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PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
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PP0000016197		164240	0.000				0	
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PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
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PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
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PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	
PP0000016197		164240	0.000				0	

Document Header Text	Name	Ref Document Number	Total quantity	Material	Material Description	Purchasing Document	Item	Purchase order text
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			0.000				0	
			0.000				0	
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			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
	WBS R26-02D1.09-P-0006	300880694	0.000				0	
	WBS R26-02D1.09-P-0006	300880694	0.000				0	
	WBS R26-02D1.09-P-0006	300880694	0.000				0	
	WBS R26-02D1.09-P-0006	300880694	0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
OVERHEAD	PP BATCH # 7014	100029676	0.000				0	
OVERHEAD	PP BATCH # 7014	100029677	0.000				0	
AFUDC	PP BATCH # 7025	2000004401	0.000				0	
AFUDC	PP BATCH # 7025	2000004401	0.000				0	
OVERHEAD	PP BATCH # 7039	100030089	0.000				0	
OVERHEAD	PP BATCH # 7039	100030089	0.000				0	
PP0000016479		167864	0.000				0	
PP0000016479		167864	0.000				0	
PP0000016479		167864	0.000				0	
PP0000016479		167864	0.000				0	
PP0000016479		167864	0.000				0	
PP0000016645		169780	0.000				0	
PP0000016645		169780	0.000				0	
PP0000016645		169780	0.000				0	
PP0000016645		169780	0.000				0	
PP0000016645		169780	0.000				0	
PP0000016645		169780	0.000				0	
PP0000016645		169780	0.000				0	
Inv# 0043832 12/31/15	Inv# 0043832 12/31/15	5000448465	1			5000007806	10	Engineering Services for E. Brainerd Rd
		5400009739	0			5000027494	10	Inspection Srv for E Brainerd Rd
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
OVERHEAD	PP BATCH # 7068	100030569	0.000				0	
OVERHEAD	PP BATCH # 7068	100030569	0.000				0	
AFUDC	PP BATCH # 7078	2000004508	0.000				0	
AFUDC	PP BATCH # 7078	2000004508	0.000				0	
PP0000017365		174570	0.000				0	
PP0000017365		174570	0.000				0	
PP0000017365		174570	0.000				0	
PP0000017365		174570	0.000				0	
PP0000017365		174570	0.000				0	
PP0000017365		174570	0.000				0	
PP0000017365		174570	0.000				0	
PP0000017365		174570	0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
Inv# 15122603 1/6/16	Inv# 15122603 1/6/16	5000469144	1			5000027494	10	Inspection Srv for E Brainerd Rd
OVERHEAD	PP BATCH # 7128	100032218	0.000				0	
OVERHEAD	PP BATCH # 7128	100032218	0.000				0	
AFUDC	PP BATCH # 7135	2000004615	0.000				0	
AFUDC	PP BATCH # 7135	2000004615	0.000				0	
PP0000017979		180777	0.000				0	
PP0000017979		180777	0.000				0	
PP0000017979		180777	0.000				0	
PP0000017979		180777	0.000				0	
PP0000017979		180777	0.000				0	
PP0000017979		180777	0.000				0	
PP0000017847		178897	0.000				0	
PP0000017847		178897	0.000				0	
PP0000017847		178897	0.000				0	
PP0000017847		178897	0.000				0	
PP0000017847		178897	0.000				0	
PP0000017847		178897	0.000				0	
Inv# 16012605 2/9/16	Inv# 16012605 2/9/16	5000474889	1			5000027494	10	Inspection Srv for E Brainerd Rd
PP0000017979		180778	0.000				0	
PP0000017979		180778	0.000				0	
PP0000017979		180778	0.000				0	
PP0000017979		180778	0.000				0	
PP0000017979		180778	0.000				0	

Document Header Text	Name	Ref Document Number	Total quantity	Material	Material Description	Purchasing Document	Item	Purchase order text
PP0000017979		180778	0.000				0	
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			0.000				0	
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			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
OVERHEAD	PP BATCH # 7185	100033681	0.000				0	
OVERHEAD	PP BATCH # 7185	100033681	0.000				0	
AFUDC	PP BATCH # 7195	2000004711	0.000				0	
AFUDC	PP BATCH # 7195	2000004711	0.000				0	
PP0000017979		180779	0.000				0	
PP0000017979		180779	0.000				0	
PP0000017979		180779	0.000				0	
PP0000017979		180779	0.000				0	
PP0000017979		180779	0.000				0	
PP0000018236		183500	0.000				0	
PP0000018236		183500	0.000				0	
PP0000018236		183500	0.000				0	
PP0000018236		183500	0.000				0	
PP0000018236		183500	0.000				0	
PP0000018236		183500	0.000				0	
PP0000018330		186093	0.000				0	
PP0000018330		186093	0.000				0	
PP0000018330		186093	0.000				0	
PP0000018330		186093	0.000				0	
PP0000018330		186093	0.000				0	
Inv# 16022634 3/9/16	Inv# 16022634 3/9/16	5000497696	1			5000027494	10	Inspection Srv for E Brainerd Rd
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
OVERHEAD	PP BATCH # 7238	100035047	0.000				0	
OVERHEAD	PP BATCH # 7238	100035047	0.000				0	
AFUDC	PP BATCH # 7242	2000004803	0.000				0	
AFUDC	PP BATCH # 7242	2000004803	0.000				0	
PP0000018710		193977	0.000				0	
PP0000018710		193977	0.000				0	
PP0000018710		193977	0.000				0	
PP0000018710		193977	0.000				0	
PP0000018710		193977	0.000				0	
Inv# 16032637 4/13/16	Inv# 16032637 4/13/16	5000501089	1			5000027494	10	Inspection Srv for E Brainerd Rd
PP0000018646		189805	0.000				0	
PP0000018646		189805	0.000				0	
PP0000018646		189805	0.000				0	
PP0000018646		189805	0.000				0	
PP0000018646		189805	0.000				0	
PP0000018646		189805	0.000				0	
Inv# 16042636 5/10/16	Inv# 16042636 5/10/16	5000512583	1			5000027494	10	Inspection Srv for E Brainerd Rd
PP0000018710		193978	0.000				0	
PP0000018710		193978	0.000				0	
PP0000018710		193978	0.000				0	
PP0000018710		193978	0.000				0	
PP0000018710		193978	0.000				0	
PP0000018710		193978	0.000				0	
PP0000018710		193978	0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
OVERHEAD	PP BATCH # 7292	100036481	0.000				0	
OVERHEAD	PP BATCH # 7292	100036481	0.000				0	
AFUDC	PP BATCH # 7293	2000004893	0.000				0	
AFUDC	PP BATCH # 7293	2000004893	0.000				0	
PP0000018710		193979	0.000				0	
PP0000018710		193979	0.000				0	

Document Header Text	Name	Ref Document Number	Total quantity	Material	Material Description	Purchasing Document	Item	Purchase order text
PP0000018710		193979	0.000				0	
PP0000018710		193979	0.000				0	
PP0000018710		193979	0.000				0	
PP0000019019		198495	0.000				0	
PP0000019019		198495	0.000				0	
PP0000019019		198495	0.000				0	
PP0000019019		198495	0.000				0	
PP0000019019		198495	0.000				0	
PP0000019019		198495	0.000				0	
PP0000018949		195809	0.000				0	
PP0000018949		195809	0.000				0	
PP0000018949		195809	0.000				0	
PP0000018949		195809	0.000				0	
PP0000018949		195809	0.000				0	
PP0000018949		195809	0.000				0	
PP0000018949		195809	0.000				0	
GRADY STOUT	CHEDDARS CASUAL CAFE -	9000014361	0.000				0	
PP0000019019		198496	0.000				0	
PP0000019019		198496	0.000				0	
PP0000019019		198496	0.000				0	
PP0000019019		198496	0.000				0	
PP0000019019		198496	0.000				0	
PP0000019019		198496	0.000				0	
Inv# 16052632 6/3/16	Inv# 16052632 6/3/16	5000528895	1			5000027494	10	Inspection Srv for E Brainerd Rd
		4901278238	1	1405333	MTR BX,ST,14X14		0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
OVERHEAD	PP BATCH # 7345	100037838	0.000				0	
OVERHEAD	PP BATCH # 7345	100037838	0.000				0	
AFUDC	PP BATCH # 7350	2000004983	0.000				0	
AFUDC	PP BATCH # 7350	2000004983	0.000				0	
PP0000019019		198497	0.000				0	
PP0000019019		198497	0.000				0	
PP0000019019		198497	0.000				0	
PP0000019019		198497	0.000				0	
PP0000019019		198497	0.000				0	
PP0000019153		202205	0.000				0	
PP0000019153		202205	0.000				0	
PP0000019153		202205	0.000				0	
PP0000019153		202205	0.000				0	
PP0000019153		202205	0.000				0	
PP0000019099		2000467	0.000				0	
PP0000019099		2000467	0.000				0	
PP0000019099		2000467	0.000				0	
PP0000019099		2000467	0.000				0	
PP0000019099		2000467	0.000				0	
PP0000019153		202206	0.000				0	
PP0000019153		202206	0.000				0	
PP0000019153		202206	0.000				0	
PP0000019153		202206	0.000				0	
PP0000019153		202206	0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
OVERHEAD	PP BATCH # 7386	100039301	0.000				0	
Rec Cap Credit Grp Ins		100039328	0.000				0	
AFUDC	PP BATCH # 7392	2000005041	0.000				0	
AFUDC	PP BATCH # 7392	2000005042	0.000				0	
PP0000019153		202207	0.000				0	

Document Header Text	Name	Ref Document Number	Total quantity	Material	Material Description	Purchasing Document	Item	Purchase order text
PP0000019153		202207	0.000				0	
PP0000019153		202207	0.000				0	
PP0000019153		202207	0.000				0	
PP0000019153		202207	0.000				0	
PP0000019283		206453	0.000				0	
PP0000019283		206453	0.000				0	
PP0000019283		206453	0.000				0	
PP0000019283		206453	0.000				0	
PP0000019283		206453	0.000				0	
Inv# 16062658 7/18/16	Inv# 16062658 7/18/16	5000549335	1			5000027494	10	Inspection Srv for E Brainerd Rd
PP0000019283		206454	0.000				0	
PP0000019283		206454	0.000				0	
PP0000019283		206454	0.000				0	
PP0000019283		206454	0.000				0	
PP0000019283		206454	0.000				0	
Inv# 16072656 8/5/16	Inv# 16072656 8/5/16	5000561695	1			5000027494	10	Inspection Srv for E Brainerd Rd
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
OVERHEAD	PP BATCH # 7439	100040370	0.000				0	
OVERHEAD	PP BATCH # 7439	100040370	0.000				0	
AFUDC	PP BATCH # 7449	2000005131	0.000				0	
AFUDC	PP BATCH # 7449	2000005131	0.000				0	
PP0000019283		206455	0.000				0	
PP0000019283		206455	0.000				0	
PP0000019283		206455	0.000				0	
PP0000019283		206455	0.000				0	
PP0000019283		206455	0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
			0.000				0	
Inv# 16082652 9/14/16	Inv# 16082652 9/14/16	5000577933	1			5000027494	10	Inspection Srv for E Brainerd Rd
OVERHEAD	PP BATCH # 7499	100041637	0.000				0	
OVERHEAD	PP BATCH # 7499	100041637	0.000				0	
OVERHEAD	PP BATCH # 7499	100041637	0.000				0	
AFUDC	PP BATCH # 7509	2000005211	0.000				0	
AFUDC	PP BATCH # 7509	2000005211	0.000				0	
Sept OPEB Cap Credit		100310539	0.000				0	
OVERHEAD	PP BATCH # 7550	100043500	0.000				0	
AFUDC	PP BATCH # 7559	2000005299	0.000				0	
AFUDC	PP BATCH # 7559	2000005299	0.000				0	
Inv# 16092655 10/10/16	Inv# 16092655 10/10/16	5000598753	1			5000027494	10	Inspection Srv for E Brainerd Rd
Inv# 16102659 11/9/16	Inv# 16102659 11/9/16	5000609276	1			5000027494	10	Inspection Srv for E Brainerd Rd
OVERHEAD	PP BATCH # 7603	100045032	0.000				0	
AFUDC	PP BATCH # 7608	2000005384	0.000				0	
AFUDC	PP BATCH # 7608	2000005384	0.000				0	
AFUDC	PP BATCH # 7678	2000005502	0.000				0	
AFUDC	PP BATCH # 7678	2000005502	0.000				0	
OVERHEAD	PP BATCH # 7685	100046884	0.000				0	
OVERHEAD	PP BATCH # 7685	100046884	0.000				0	
Inv# 16112651 12/14/16	Inv# 16112651 12/14/16	5000627935	1			5000027494	10	Inspection Srv for E Brainerd Rd
OVERHEAD	PP BATCH # 7722	100047990	0.000				0	
AFUDC	PP BATCH # 7734	2000005599	0.000				0	
AFUDC	PP BATCH # 7734	2000005599	0.000				0	
Inv# 17012655 2/8/17	Inv# 17012655 2/8/17	5000652145	1			5000027494	10	Inspection Srv for E Brainerd Rd
OVERHEAD	PP BATCH # 7780	100049513	0.000				0	
AFUDC	PP BATCH # 7790	2000005675	0.000				0	
AFUDC	PP BATCH # 7790	2000005675	0.000				0	
		5000037997	0.000				0	
Inv# 17022651 3/3/17	Inv# 17022651 3/3/17	5000663302	1			5000027494	10	Inspection Srv for E Brainerd Rd
OVERHEAD	PP BATCH # 7833	100051450	0.000				0	
OVERHEAD	PP BATCH # 7833	100051450	0.000				0	
AFUDC	PP BATCH # 7842	2000005762	0.000				0	
AFUDC	PP BATCH # 7842	2000005762	0.000				0	
AFUDC	PP BATCH # 7887	2000005839	0.000				0	
AFUDC	PP BATCH # 7887	2000005839	0.000				0	
AFUDC	PP BATCH # 7952	2000005927	0.000				0	
AFUDC	PP BATCH # 7952	2000005927	0.000				0	
AFUDC	PP BATCH # 8011	2000006021	0.000				0	

Document Header Text	Name	Ref Document Number	Total quantity	Material	Material Description	Purchasing Document	Item	Purchase order text
AFUDC	PP BATCH # 8011	2000006021	0.000				0	

Tennessee-American Water Company
Docket #18-00022
Response to TAW_R_CPADDR3_026
Cost Summary Related to Work Order #R26-02D1.17-P-0007

Source: SAP

Company Code	Object	Document Type	Document Number	Cost Element	Cost element descr.	Val/COArea CrCY	Sales/Use Tax	Other Amounts	Actual Invoice	Posting Date	Offsetting acct no.	Name of offsetting account
1026	R26-02D1.17-P-0007	SA	1005430778	72802100	CIAC Receipt Non-Services Clearing	(\$1,688,672.79)			(\$1,688,672.79)	8/28/2017		
1026	R26-02D1.17-P-0007	SA	1005430778	72802000	CIAC Receipt Services Clearing	-29,876.59			-29,876.59	8/28/2017		
1026	R26-02D1.17-P-0007	SA	1005430778	52801500	Dev Funded Const Clearing	1,718,549.38			1,718,549.38	8/28/2017		
1026	R26-02D1.09-P-0006	KR	1000015407	53110000	Contract Svc-Eng - Natural Account	292.08	(16.53)		275.55	8/19/2012	100119	GRW ENGINEERS INC
1026	R26-02D1.09-P-0006	WE	1000057246	53150000	Contract Svc-Other - Natural Account	275.55			275.55	9/18/2012	100119	GRW ENGINEERS INC
1026	R26-02D1.09-P-0006	WE	1000266003	53150000	Contract Svc-Other - Natural Account	1,333.66			1,333.66	12/19/2012	100119	GRW ENGINEERS INC
1026	R26-02D1.09-P-0006	KR	1001164274	53110000	Contract Svc-Eng - Natural Account	1,830.69	(155.35)		1,675.34	1/2/2014	100119	GRW ENGINEERS INC
1026	R26-02D1.09-P-0006	KR	1001190878	53110000	Contract Svc-Eng - Natural Account	4,260.81	(353.51)		3,907.30	1/10/2014	100119	GRW ENGINEERS INC
1026	R26-02D1.09-P-0006	WE	1001717512	53110000	Contract Svc-Eng - Natural Account	2,931.85			2,931.85	7/2/2014	100119	GRW ENGINEERS INC
1026	R26-02D1.09-P-0006	WE	1001717514	53110000	Contract Svc-Eng - Natural Account	1,846.19			1,846.19	7/2/2014	100119	GRW ENGINEERS INC
1026	R26-02D1.09-P-0006	WE	1001771032	53110000	Contract Svc-Eng - Natural Account	551.10			551.10	7/25/2014	100119	GRW ENGINEERS INC
1026	R26-02D1.09-P-0006	WE	1002188326	53110000	Contract Svc-Eng - Natural Account	275.55			275.55	12/1/2014	100119	GRW ENGINEERS INC
1026	R26-02D1.09-P-0006	WE	1002298372	53110000	Contract Svc-Eng - Natural Account	413.33			413.33	1/7/2015	100119	GRW ENGINEERS INC
1026	R26-02D1.09-P-0006	WE	1002715034	53110000	Contract Svc-Eng - Natural Account	275.55			275.55	6/1/2015	100119	GRW ENGINEERS INC
1026	R26-02D1.09-P-0006	WE	1002804955	53110000	Contract Svc-Eng - Natural Account	1,820.65	4.35	-4.35	1,820.65	6/29/2015	606036	THOMPSON ENGINEERING
1026	R26-02D1.09-P-0006	WE	1002943620	53110000	Contract Svc-Eng - Natural Account	12,314.30			12,314.30	8/3/2015	606036	THOMPSON ENGINEERING
1026	R26-02D1.09-P-0006	ZF	1002949290	62520800	Misc Maint Permits - Natural Account	211.00			211.00	8/6/2015	202259	TDEC-Consolidated Fee Section
1026	R26-02D1.09-P-0006	WE	1003054439	53110000	Contract Svc-Eng - Natural Account	10,176.10			10,176.10	9/9/2015	606036	THOMPSON ENGINEERING
1026	R26-02D1.09-P-0006	WE	1003104912	53110000	Contract Svc-Eng - Natural Account	10,184.50			10,184.50	9/30/2015	606036	THOMPSON ENGINEERING
1026	R26-02D1.09-P-0006	WE	1003175520	53110000	Contract Svc-Eng - Natural Account	551.10			551.10	10/19/2015	100119	GRW ENGINEERS INC
1026	R26-02D1.09-P-0006	WE	1003245941	53110000	Contract Svc-Eng - Natural Account	11,802.80			11,802.80	11/2/2015	606036	THOMPSON ENGINEERING
1026	R26-02D1.09-P-0006	WE	1003379045	53110000	Contract Svc-Eng - Natural Account	9,179.40			9,179.40	12/14/2015	606036	THOMPSON ENGINEERING
1026	R26-02D1.09-P-0006	WE	1003403514	53110000	Contract Svc-Eng - Natural Account	8,431.70			8,431.70	12/23/2015	606036	THOMPSON ENGINEERING
1026	R26-02D1.09-P-0006	WE	1003477193	53110000	Contract Svc-Eng - Natural Account	275.55			275.55	1/18/2016	100119	GRW ENGINEERS INC
1026	R26-02D1.09-P-0006	KP	1003508737	53110000	Contract Svc-Eng - Natural Account	47.00		-47.00	0.00	1/29/2016	606036	THOMPSON ENGINEERING
1026	R26-02D1.09-P-0006	WE	1003613895	53110000	Contract Svc-Eng - Natural Account	9,226.65			9,226.65	2/29/2016	606036	THOMPSON ENGINEERING
1026	R26-02D1.09-P-0006	WE	1003674564	53110000	Contract Svc-Eng - Natural Account	9,133.85			9,133.85	3/14/2016	606036	THOMPSON ENGINEERING
1026	R26-02D1.09-P-0006	WE	1003815395	53110000	Contract Svc-Eng - Natural Account	8,721.95			8,721.95	4/29/2016	606036	THOMPSON ENGINEERING
1026	R26-02D1.09-P-0006	WE	1003857568	53110000	Contract Svc-Eng - Natural Account	10,182.15			10,182.15	5/5/2016	606036	THOMPSON ENGINEERING
1026	R26-02D1.09-P-0006	WE	1003911375	53110000	Contract Svc-Eng - Natural Account	2,401.15			2,401.15	5/26/2016	606036	THOMPSON ENGINEERING
1026	R26-02D1.09-P-0006	WE	1004010589	53110000	Contract Svc-Eng - Natural Account	5,166.40			5,166.40	6/27/2016	606036	THOMPSON ENGINEERING
1026	R26-02D1.09-P-0006	WE	1004150674	53110000	Contract Svc-Eng - Natural Account	6,050.35			6,050.35	8/4/2016	606036	THOMPSON ENGINEERING
1026	R26-02D1.09-P-0006	WE	1004205005	53110000	Contract Svc-Eng - Natural Account	9,732.35			9,732.35	8/30/2016	606036	THOMPSON ENGINEERING
1026	R26-02D1.09-P-0006	WE	1004310574	53110000	Contract Svc-Eng - Natural Account	6,566.55			6,566.55	9/30/2016	606036	THOMPSON ENGINEERING
1026	R26-02D1.09-P-0006	WE	1004469202	53110000	Contract Svc-Eng - Natural Account	1,862.75			1,862.75	11/9/2016	606036	THOMPSON ENGINEERING
1026	R26-02D1.09-P-0006	WE	1004519152	53110000	Contract Svc-Eng - Natural Account	939.25			939.25	11/30/2016	606036	THOMPSON ENGINEERING
1026	R26-02D1.09-P-0006	WE	1004655254	53110000	Contract Svc-Eng - Natural Account	1,815.05			1,815.05	1/4/2017	606036	THOMPSON ENGINEERING
1026	R26-02D1.09-P-0006	WE	1004800910	53110000	Contract Svc-Eng - Natural Account	168.65			168.65	2/27/2017	606036	THOMPSON ENGINEERING
1026	R26-02D1.09-P-0006	KR	1004873074	53150000	Contract Svc-Other - Natural Account	359.65			359.65	3/16/2017	119177	A-1 Barricades & A&H Safety Su
1026	R26-02D1.09-P-0006	WE	1004881183	53110000	Contract Svc-Eng - Natural Account	303.25			303.25	3/22/2017	606036	THOMPSON ENGINEERING
						\$151,910.46						
							</					

Tennessee-American Water Company
Docket #18-00022
Response to TAW_R_CPADDR3_026
Cost Summary Related to Work Order #R26-02D1.17-P-0007

Period	Fiscal Year	Document Header Text	Name	Purchasing Document	Item	Purchase order text
8	2017	Non-Cash DV Addition	Book Acq Asset			0
8	2017	Non-Cash DV Addition	Book Acq Asset			0
8	2017	Non-Cash DV Addition	Book Acq Contribution			0
8	2012		5000000423		0	
9	2012		5000001505 VOW - September 2012	4500003486	10	Design
12	2012		5000003074 VOW - December 12	4500003486	10	Design
1	2014		5000009058 VOW - September 2012		0	
1	2014		5000009211		0	
7	2014		5000013149 Inv# 0038393 1/31/14	5000007806	10	Engineering Services for E. Brainerd Rd
7	2014		5000013146 Inv# 0037921 11/30/13	5000007806	10	Engineering Services for E. Brainerd Rd
7	2014		5000013682 Inv# 0038172 12/31/14	5000007806	10	Engineering Services for E. Brainerd Rd
12	2014		5000017027 Inv# 0040217 8/31/14	5000007806	10	Engineering Services for E. Brainerd Rd
1	2015		5000017939 Inv #0041202 12/30/14	5000007806	10	Engineering Services for E. Brainerd Rd
6	2015		5000021260 Inv# 0042083 4/30/15	5000007806	10	Engineering Services for E. Brainerd Rd
6	2015		5000021952 Inv#15052628 6/10/15	5000027494	10	Inspection Srv for E Brainerd Rd
8	2015		5000023077 Inv# 15062615 7/10/15	5000027494	10	Inspection Srv for E Brainerd Rd
8	2015		5000023055		0	
9	2015		5000024029 Inv# 15072613 8/10/15	5000027494	10	Inspection Srv for E Brainerd Rd
9	2015		5000024515 Inv# 15082603 9/8/15	5000027494	10	Inspection Srv for E Brainerd Rd
10	2015		5000024900 Inv# 0042876 8/31/15	5000007806	10	Engineering Services for E. Brainerd Rd
11	2015		5000025177 Inv# 15092611 10/12/15	5000027494	10	Inspection Srv for E Brainerd Rd
12	2015		5000026215 Inv# 15102625 11/10/15	5000027494	10	Inspection Srv for E Brainerd Rd
12	2015		5000026579 Inv# 15112611 12/7/15	5000027494	10	Inspection Srv for E Brainerd Rd
1	2016		5000027001 Inv# 0043832 12/31/15	5000007806	10	Engineering Services for E. Brainerd Rd
1	2016			5000027494	10	Inspection Srv for E Brainerd Rd
2	2016		5000027948 Inv# 15122603 1/6/16	5000027494	10	Inspection Srv for E Brainerd Rd
3	2016		5000028423 Inv# 16012605 2/9/16	5000027494	10	Inspection Srv for E Brainerd Rd
4	2016		5000029370 Inv# 16022634 3/9/16	5000027494	10	Inspection Srv for E Brainerd Rd
5	2016		5000029786 Inv# 16032637 4/13/16	5000027494	10	Inspection Srv for E Brainerd Rd
5	2016		5000030352 Inv# 16042636 5/10/16	5000027494	10	Inspection Srv for E Brainerd Rd
6	2016		5000031117 Inv# 16052632 6/3/16	5000027494	10	Inspection Srv for E Brainerd Rd
8	2016		5000032047 Inv# 16062658 7/18/16	5000027494	10	Inspection Srv for E Brainerd Rd
8	2016		5000032892 Inv# 16072656 8/5/16	5000027494	10	Inspection Srv for E Brainerd Rd
9	2016		5000033377 Inv# 16082652 9/14/16	5000027494	10	Inspection Srv for E Brainerd Rd
11	2016		5000034537 Inv# 16092655 10/10/16	5000027494	10	Inspection Srv for E Brainerd Rd
11	2016		5000035205 Inv# 16102659 11/9/16	5000027494	10	Inspection Srv for E Brainerd Rd
1	2017		5000035950 Inv# 16112651 12/14/16	5000027494	10	Inspection Srv for E Brainerd Rd
2	2017		5000037689 Inv# 17012655 2/8/17	5000027494	10	Inspection Srv for E Brainerd Rd
3	2017		5000037997		0	
3	2017		5000038200 Inv# 17022651 3/3/17	5000027494	10	Inspection Srv for E Brainerd Rd

Tennessee-American Water Company
Docket #18-00022
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Cost Summary Related to Work Order #R26-02D1.17-P-0007

Source: JDE

Company	Business Unit	Object	Subsidiary	Subledger	Type	Document Type	Document #	Text	Explanation	Amount	Period	G/L Date	Fiscal Year	Post	Ledger
00026	260200	105275	21	45455820	W	PV	42466505	GRW Engineers Inc	PROJ 07697-08	\$1,085.67	3	03/29/10	10	P	AA
00026	260200	105275	21	45455820	W	PV	42481136	GRW Engineers Inc	PROJ 0769708	8,343.65	4	04/16/10	10	P	AA
00026	260200	105275	21	45455820	W	PV	42512249	GRW Engineers Inc	INV# 0029069	6,806.09	5	05/27/10	10	P	AA
00026	260200	105275	21	45455820	W	PV	42543366	GRW Engineers Inc	TAWC E BRAINERD	11,581.37	7	07/06/10	10	P	AA
00026	260200	105275	21	45455820	W	PV	42563555	GRW Engineers Inc	07697-08	6,177.83	7	07/30/10	10	P	AA
00026	260200	105275	21	45455820	W	PV	42584791	GRW Engineers Inc	PROJ 0769708	9,972.15	8	08/26/10	10	P	AA
00026	260200	105275	21	45455820	W	PV	42607881	GRW Engineers Inc	PROJ 007697-08	5,461.40	9	09/27/10	10	P	AA
00026	260200	105275	21	45455820	W	PV	42736966	GRW Engineers Inc	PROJECT# 07697-	248.00	3	03/08/11	11	P	AA
00026	260200	105275	21	45455820	W	PV	42816557	GRW Engineers Inc	PROJ# 07697-08	688.88	6	06/03/11	11	P	AA
00026	260200	105275	21	45455820	W	PV	42908257	GRW Engineers Inc	PROJ# 07697-08	275.55	9	09/26/11	11	P	AA
00026	260200	105275	21	45455820	W	PV	42916080	GRW Engineers Inc	PROJ 07697-08	413.33	10	10/04/11	11	P	AA
00026	260200	105275	21	45455830	W	PV	42838480	GRW Engineers Inc	INV# 0031604	688.88	6	06/30/11	11	P	AA
00026	260200	105275	21	45455830	W	PV	42875802	GRW Engineers Inc	PROJ 07697-08	275.55	8	08/15/11	11	P	AA
00026	260200	105175	21	45455830	W	PV	42971161	GRW Engineers Inc	PROJECT # 07697	2,298.09	12	12/08/11	11	P	AA
00026	260200	105175	21	45455830	W	PV	42982892	GRW Engineers Inc	PROJ 07697-08	1,532.06	12	12/21/11	11	P	AA
00026	260200	105175	21	45455830	W	PV	43015464	GRW Engineers Inc	07697-08	1,548.59	1	01/26/12	12	P	AA
00026	260200	105175	21	45455830	W	PV	43015478	GRW Engineers Inc	07697-08	137.78	1	01/26/12	12	P	AA
00026	260200	105175	21	45455830	W	PV	43056308	GRW Engineers Inc	PROJ 07697-08	1,333.66	3	03/22/12	12	P	AA
00026	260200	105175	21	45455830	W	PV	43056559	GRW Engineers Inc	PROJ 07697-08	137.78	3	03/22/12	12	P	AA
00026	260200	105175	21	45455830	W	PV	43126099	GRW Engineers Inc	07697-08	137.78	6	06/28/12	12	P	AA
00026	260200	105275	21	45455830	W	PV	42819913	Thompson Engineering	BILLING# 107-A	270.75	6	06/08/11	11	P	AA
00026	260200	105275	21	45455830	W	PV	42687947	Thompson Engineering	87	124.00	12	12/29/10	10	P	AA
00026	260200	105275	21	50116924	W	PV	41762051	GRW Engineers Inc	0021724	124.00	11	11/27/07	7	P	AA
00026	260200	105275	21	50116924	W	PV	41776025	GRW Engineers Inc	0022003	248.00	12	12/12/07	7	P	AA
00026	260200	105275	21	50116924	W	PV	41894634	GRW Engineers Inc	0023037	319.64	4	04/24/08	8	P	AA
00026	26020501	105275	21	50116924	W	PV	41485985	GRW Engineers Inc-REMIT/PO	TNAWC	371.99	1	01/03/07	7	P	AA
00026	26020501	105275	21	50116924	W	PV	41528984	GRW Engineers Inc-REMIT/PO	PRO# 0769708	124.00	2	02/28/07	7	P	AA
00026	26020501	105275	21	50116924	W	PV	41534268	GRW Engineers Inc-REMIT/PO	TNAWC	5,285.05	3	03/08/07	7	P	AA

\$66,011.52



**STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION**

FINANCE DIVISION
SUITE 800 JAMES K. POLK BUILDING
505 DEADERICK STREET
NASHVILLE, TN 37243-0329
(615) 741-2261

JOHN C. SCHROER
COMMISSIONER

BILL HASLAM
GOVERNOR

May 12, 2017

Tennessee American Water
ATTN: Mr. Grady Stout
1500 Riverside Drive
Chattanooga, TN 37406

**RE: PIN 101431.00; Federal Project # STP-320(4); State Project 33057-3224-14;
(East Brainerd Road), From East of Graysville Road to East of Bel-Air Road**

Mr. Stout:

Enclosed is a Statement of Progress Costs for the above referenced project along with a copy of the invoice that summarizes the amount due. This billing is in accordance with the contract between Tennessee American Water and the Department.

Please send payment of **\$429,637.35**, made payable to the Tennessee Department of Transportation, to the following address:

**Tennessee Department of Transportation
Finance Division
Att: Lacey Bryant**

505 Deaderick Street, Suite 800
Nashville, TN 37243-0329

Should you need additional information please feel free to contact me at
Lacey.C.Bryant@tn.gov or (615) 532-3910.

Sincerely,



Lacey Bryant
Accountant II

TENNESSEE DEPARTMENT OF TRANSPORTATION

INVOICE

INVOICE DATE:	5/12/2017	INVOICE NUMBER:	33057-3224-14 5.17
In Account With:		This invoice includes cost incurred and payment received as of the invoice date	
11585			

Payment Terms Net 30	Customer Address:	Contact Person(s):
	Tennessee American Water 1500 Riverside Drive Chattanooga, TN 37406	Grady Stout

PLEASE REMIT YOUR PAYMENT TO:
TENNESSEE DEPARTMENT OF TRANSPORTATION
Finance Division
ATTN: Lacey Bryant
505 Deaderick Street, Suite 800
Nashville, TN 37243-0329

Federal Project Number	STP-320(4)	
State Project Number		\$ -
State Project Number		\$ -
State Project Number	33057-3224-14	\$ 429,637.35
Description:	(East Brainerd Road), From East of Graysville Road to East of Bel-Air Road	
TOTAL COSTS TO DATE		\$ 429,637.35
LESS: TOTAL PAYMENTS TO DATE		\$ -
TOTAL AMOUNT DUE THIS BILLING		\$ 429,637.35

FOR T.D.O.T. FINANCE DIVISION USE ONLY:

STP-320(4) Tenn American Water.xlsx

TENNESSEE DEPARTMENT OF TRANSPORTATION

STATEMENT OF PROGRESS COST		5/12/2017			
Bill to: Tennessee American Water		Federal Project Number:		STP-320(4)	
PROJECT DESCRIPTION:		(East Brainerd Road), From East of Graysville Road to East of Bel-Air Road			
STATE PROJECT NUMBERS:		Prelim. Engineer	Right-of-Way	Construction 33057-3224-14	
FUNDING METHOD: ADVANCE CASH					
CUSTOMER CONTRACT NUMBER(S)				TN1%11749	
					TOTALS
COST SUMMARY					
PRELIMINARY ENGINEERING COSTS:		\$ -			\$ -
RIGHT-OF-WAY COSTS:			\$ -		-
CONSTRUCTION COSTS:					
Construction Contract Payments				\$ 11,581,004.85	11,581,004.85
Other Expenditures				1,430,380.19	1,430,380.19
TOTAL PROJECT COSTS		\$ -	\$ -	\$ 13,011,385.04	\$ 13,011,385.04
PROJECT PARTICIPANTS:					
FHWA / TDOT	100.00%	\$ -	\$ -	\$ 9,193,496.05	\$ 9,193,496.05
FHWA / TDOT / Other Utilities	100.00%			\$ 2,099,339.61	\$ 2,099,339.61
FHWA	60.00%			\$ 1,031,129.62	\$ 1,031,129.62
TDOT	15.00%			\$ 257,782.41	\$ 257,782.41
Tennessee American Water	25.00%	-	-	\$ 429,637.35	429,637.35
TOTAL PARTICIPANT COSTS		\$ -	\$ -	\$ 13,011,385.04	\$ 13,011,385.04
CALCULATED AMOUNT OWED/DUE					
Tennessee American Water's SHARE OF COSTS LESS: PRIOR DEPOSITS/PAYMENTS		\$ -	\$ -	\$ 429,637.35	\$ 429,637.35
AMT DUE TDOT OR BALANCE REMAINING		\$ -	\$ -	\$ 429,637.35	\$ 429,637.35

STP-320(4) Tenn American Water.xlsx

Work Order	Cost Type	Amount	Amount
R26-02R1.17-P-0002	Additions	1,087,212.92	1,087,212.92
	Removals	-	\$281,497.49
	CIAC	-	-
			<u>\$1,368,710.41</u>
Work Order	General Cost Type	General Cost Description	Amount
R26-02R1.17-P-0002	Labor	Labor & Related Costs	\$2,854.74
	Inventory	Materials issued from Inventory	0.00
	Invoics	Contracted Services & Non-Inventroy Materials	1,172,929.52
	Salvage	Salvage/Scrap Receipts	0.00
	AFUDC	Allowance for Funds Used During Construction	3,062.61
	Capital Accrual	Cost Accuals Related to Construction	23,515.79
	Overhead	Indirect Overhead	166,347.75
			<u>\$1,368,710.41</u>

company_c	work_order_number	charge_type	external_cost_element	charge_mo_yr	gl_account	external_gl_account	closed_mnth_number	vendor_information	work_order_description	in_service_date	amount	Type	Rider	Cost Type
1026-Tennessee Amer R26-02R1.17-P-0002		Other	55720100	Ins W/C Cap Credits	11/1/2017 0:00	10600000 10700000	201712		South End Ground Tank	12/29/2017 0:00	1.18 R	QIIP		Additions
1026-Tennessee Amer R26-02R1.17-P-0002		Labor Overhead	50510100	PBOP Cap Credits	12/1/2017 0:00	10600000 10700000	201712		South End Ground Tank	12/29/2017 0:00	1.8 R	QIIP		Additions
1026-Tennessee Amer R26-02R1.17-P-0002		Labor Overhead	68533100	FICA Cap Credits	11/1/2017 0:00	10600000 10700000	201712		South End Ground Tank	12/29/2017 0:00	2.9 R	QIIP		Additions
1026-Tennessee Amer R26-02R1.17-P-0002		Labor Overhead	50550100	Group Ins Cap Credits	11/1/2017 0:00	10600000 10700000	201712		South End Ground Tank	12/29/2017 0:00	4.91 R	QIIP		Additions
1026-Tennessee Amer R26-02R1.17-P-0002		AFUDC Debt	85000000	AFUDC Debt	11/1/2017 0:00	10600000 10700000	201712		South End Ground Tank	12/29/2017 0:00	139.83 R	QIIP		Additions
1026-Tennessee Amer R26-02R1.17-P-0002		Labor Overhead	50426100	Retiree Med Cap Cr	9/1/2017 0:00	10600000 10700000	201712		South End Ground Tank	12/29/2017 0:00	-1.75 R	QIIP		Additions
1026-Tennessee Amer R26-02R1.17-P-0002		Other	55720100	Ins W/C Cap Credits	8/1/2017 0:00	10600000 10700000	201712		South End Ground Tank	12/29/2017 0:00	37.78 R	QIIP		Additions
1026-Tennessee Amer R26-02R1.17-P-0002		Labor	50109900	Labor Cap Credits	8/1/2017 0:00	10600000 10700000	201712		South End Ground Tank	12/29/2017 0:00	1593.65 R	QIIP		Additions
1026-Tennessee Amer R26-02R1.17-P-0002		Labor Overhead	68533100	FICA Cap Credits	7/1/2017 0:00	10600000 10700000	201712		South End Ground Tank	12/29/2017 0:00	1.46 R	QIIP		Additions
1026-Tennessee Amer R26-02R1.17-P-0002		Labor Overhead	50422100	DCF Exp Cap Credits	7/1/2017 0:00	10600000 10700000	201712		South End Ground Tank	12/29/2017 0:00	1.02 R	QIIP		Additions
1026-Tennessee Amer R26-02R1.17-P-0002		Overhead	52801100	Indirect OH Clearing	6/1/2017 0:00	10600000 10700000	201712		South End Ground Tank	12/29/2017 0:00	9.3 R	QIIP		Additions
1026-Tennessee Amer R26-02R1.17-P-0002		Labor	50117100	AIP Cap Credits	6/1/2017 0:00	10600000 10700000	201712		South End Ground Tank	12/29/2017 0:00	1.33 R	QIIP		Additions
1026-Tennessee Amer R26-02R1.17-P-0002		Labor	50109900	Labor Cap Credits	6/1/2017 0:00	10600000 10700000	201712		South End Ground Tank	12/29/2017 0:00	58.1 R	QIIP		Additions
1026-Tennessee Amer R26-02R1.17-P-0002		AFUDC Debt	85000000	AFUDC Debt	5/1/2017 0:00	10600000 10700000	201712		South End Ground Tank	12/29/2017 0:00	35.57 R	QIIP		Additions
1026-Tennessee Amer R26-02R1.17-P-0002		Labor Overhead	50550100	Group Ins Cap Credits	4/1/2017 0:00	10600000 10700000	201712		South End Ground Tank	12/29/2017 0:00	-1.25 R	QIIP		Additions
1026-Tennessee Amer R26-02R1.17-P-0002		AFUDC Equity	70510000	AFUDC-Equity	3/1/2017 0:00	10600000 10700000	201712		South End Ground Tank	12/29/2017 0:00	21.15 R	QIIP		Additions
1026-Tennessee Amer R26-02R1.17-P-0002		Overhead	52801100	Indirect OH Clearing	2/1/2017 0:00	10600000 10700000	201712		South End Ground Tank	12/29/2017 0:00	401.03 R	QIIP		Additions
1026-Tennessee Amer R26-02R1.17-P-0002		Contracted Services	53110000	Cont Svc-Eng	11/1/2017 0:00	10600000 10700000	201712	TANK INDUSTRY	South End Ground Tank	12/29/2017 0:00	7178.02 R	QIIP		Additions
1026-Tennessee Amer R26-02R1.17-P-0002		Other	55000100	Trans Cap Credits	9/1/2017 0:00	10600000 10700000	201712		South End Ground Tank	12/29/2017 0:00	-35.71 R	QIIP		Additions
1026-Tennessee Amer R26-02R1.17-P-0002		Labor Overhead	68533100	FUTA Cap Credits	9/1/2017 0:00	10600000 10700000	201712		South End Ground Tank	12/29/2017 0:00	0.03 R	QIIP		Additions
1026-Tennessee Amer R26-02R1.17-P-0002		Labor Overhead	68535100	SUTA Cap Credits	9/1/2017 0:00	10600000 10700000	201712		South End Ground Tank	12/29/2017 0:00	0.03 R	QIIP		Additions
1026-Tennessee Amer R26-02R1.17-P-0002		Labor	50119900	LaborNSOT CapCredits	8/1/2017 0:00	10600000 10700000	201712		South End Ground Tank	12/29/2017 0:00	34.62 R	QIIP	</	

1026-Tennessee Amer R26-02R1.17-P-0002	AFUDC Equity	70510000	AFUDC-Equity	8/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	43.1 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor Overhead	50610100	Pension Cap Credits	7/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	1.23 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor Overhead	50421100	401k Exp Cap Credits	4/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	-0.39 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	CWIP Accrual	52801200	Capital Acc Clearing	3/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	-4020 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Other	55001000	Trans Cap Credits	3/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	2.5 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	AFUDC Equity	70510000	AFUDC-Equity	2/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	6.5 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor Overhead	50421100	401k Exp Cap Credits	12/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	2.04 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Contracted Services	53110000	Contr Svc-Eng	12/1/2017 0:00	10600000 10700000	201712	TANK INDUSTRY South End Ground Tank	12/29/2017 0:00	14896.31 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Contracted Services	53150000	Contr Svc-Other	12/1/2017 0:00	10600000 10700000	201712	ESLINGER Contr South End Ground Tank	12/29/2017 0:00	147.96 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	AFUDC Debt	85000000	AFUDC Debt	12/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	1071.81 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Overhead	52801100	Indirect OH Clearing	11/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	1007.27 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor Overhead	50422100	DCP Exp Cap Credits	11/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	2.03 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	CWIP Accrual	52801200	Capital Acc Clearing	10/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	124768.37 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Overhead	52801100	Indirect OH Clearing	10/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	1423.84 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Other	55001000	Trans Cap Credits	10/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	8.1 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor Overhead	50510100	PBOP Cap Credits	10/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	4.79 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor	50171100	AIP Cap Credits	10/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	3.09 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	AFUDC Equity	70510000	AFUDC-Equity	10/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	97.56 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Other	55720100	Ins W/C Cap Credits	9/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	-13.52 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor Overhead	50510100	PBOP Cap Credits	9/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	-20.56 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor Overhead	50421100	401k Exp Cap Credits	8/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	52.66 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Contracted Services	53110000	Contr Svc-Eng	8/1/2017 0:00	10600000 10700000	201712	TANK INDUSTRY South End Ground Tank	12/29/2017 0:00	3667.07 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	CWIP Accrual	52801200	Capital Acc Clearing	7/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	1244.53 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor	50109900	Labor Cap Credits	7/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	19.37 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Contracted Services	53110000	Contr Svc-Eng	7/1/2017 0:00	10600000 10700000	201712	TANK INDUSTRY South End Ground Tank	12/29/2017 0:00	255.47 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	CWIP Accrual	52801200	Capital Acc Clearing	6/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	1500 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor Overhead	68533100	FICA Cap Credits	6/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	4.36 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor	50171100	AIP Cap Credits	5/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	2.33 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor Overhead	50422100	DCP Exp Cap Credits	4/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	-0.51 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	AFUDC Equity	70510000	AFUDC-Equity	4/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	30.23 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Overhead	52801100	Indirect OH Clearing	4/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	59.21 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor Overhead	50422100	DCP Exp Cap Credits	3/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	5.49 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor	50109900	Labor Cap Credits	3/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	104.44 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Contracted Services	53110000	Contr Svc-Eng	3/1/2017 0:00	10600000 10700000	201712	TANK INDUSTRY South End Ground Tank	12/29/2017 0:00	5520 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	AFUDC Debt	85000000	AFUDC Debt	2/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	6.7 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Overhead	52801100	Indirect OH Clearing	12/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	156868.07 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor Overhead	50422100	DCP Exp Cap Credits	12/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	2.67 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	AFUDC Equity	70510000	AFUDC-Equity	12/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	970.83 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Other	55720100	Ins W/C Cap Credits	11/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	2.38 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Other	55001000	Trans Cap Credits	11/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	2.38 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor Overhead	50510100	PBOP Cap Credits	11/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	1.37 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor	50109900	Labor Cap Credits	11/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	38.73 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Overhead	52801100	Indirect OH Clearing	9/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	1116.29 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor Overhead	50550100	Group Ins Cap Credits	9/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	-93.19 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor	50109900	Labor Cap Credits	9/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	-617.13 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor Overhead	68533100	FICA Cap Credits	8/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	120.83 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor Overhead	50610100	Pension Cap Credits	8/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	103.45 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor Overhead	50426100	Retiree Med Cap Cr	8/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	3.45 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor Overhead	68535100	SUTA Cap Credits	8/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	0.23 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor	50119900	LaborNSOT CapCredits	8/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	34.62 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Other	55720100	Ins W/C Cap Credits	7/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	0.45 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor Overhead	50510100	PBOP Cap Credits	7/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	0.68 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor Overhead	50550100	Group Ins Cap Credits	7/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	2.46 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Other	55001000	Trans Cap Credits	6/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	5.43 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor Overhead	50422100	DCP Exp Cap Credits	6/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	3.05 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor Overhead	50510100	PBOP Cap Credits	6/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	2.17 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Overhead	52801100	Indirect OH Clearing	5/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	0.24 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	AFUDC Equity	70510000	AFUDC-Equity	5/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	30.39 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Other	55720100	Ins W/C Cap Credits	4/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	-0.23 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Other	55001000	Trans Cap Credits	4/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	-0.23 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor Overhead	50510100	PBOP Cap Credits	3/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	3.69 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor Overhead	50610100	Pension Cap Credits	3/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	6.63 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	AFUDC Debt	85000000	AFUDC Debt	3/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	23.35 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Contracted Services	53110000	Contr Svc-Eng	2/1/2017 0:00	10600000 10700000	201712	TANK INDUSTRY South End Ground Tank	12/29/2017 0:00	383.17 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor	50109900	Labor Cap Credits	12/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	50.94 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	CWIP Accrual	52801200	Capital Acc Clearing	11/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	287559.24 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Other	55720100	Ins W/C Cap Credits	10/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	3.14 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Labor Overhead	50422100	DCP Exp Cap Credits	9/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	-12.07 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Contracted Services	53110000	Contr Svc-Eng	9/1/2017 0:00	10600000 10700000	201712	TANK INDUSTRY South End Ground Tank	12/29/2017 0:00	8890.73 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	AFUDC Equity	70510000	AFUDC-Equity	9/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	67.38 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Other	55001000	Trans Cap Credits	8/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	99.81 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Overhead	52801100	Indirect OH Clearing	7/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	39.17 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	AFUDC Equity	70510000	AFUDC-Equity	7/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/2017 0:00	31.51 R	QIP	Additions
1026-Tennessee Amer R26-02R1.17-P-0002	Other	55720100	Ins W/C Cap Credits	6/1/2017 0:00	10600000 10700000	201712	South End Ground Tank	12/29/			

Tennessee-American Water Company
Docket #18-00022
Response to TAW_R_CPADDR3_026
Cost Detail Related to Work Order #R26-02R1.17-P-0002

Source: SAP

Company Code	Object	Document type	Document Number	Cost Element	Cost element descr.	Val/COArea CrCy	Posting Date	Created on	Partner object	Offsetting acct no.	Name of offsetting account	Period	Fiscal Year	Document Header Text	Name
1026	R26-02R1.17-P-0002		301215632	95061000	SCE-Pension Expense - (41)	6.37	3/31/2017	3/15/2017	260000			3	2017		
1026	R26-02R1.17-P-0002		301215632	95051000	SCE-PBOP Expense - (41)	3.55	3/31/2017	3/15/2017	260000			3	2017		
1026	R26-02R1.17-P-0002		301215632	95572000	SCE-Insurance Workers Comp - (41)	2.33	3/31/2017	3/15/2017	260000			3	2017		
1026	R26-02R1.17-P-0002		301215632	95500000	SCE-Transportation Oper - A&G - (41)	2.40	3/31/2017	3/15/2017	260000			3	2017		
1026	R26-02R1.17-P-0002		301225833	95061000	SCE-Pension Expense - (41)	2.46	3/31/2017	3/28/2017	260000			3	2017		
1026	R26-02R1.17-P-0002		301225833	95051000	SCE-PBOP Expense - (41)	1.37	3/31/2017	3/28/2017	260000			3	2017		
1026	R26-02R1.17-P-0002		301225833	95500000	SCE-Transportation Oper - A&G - (41)	0.93	3/31/2017	3/28/2017	260000			3	2017		
1026	R26-02R1.17-P-0002		301225833	95572000	SCE-Insurance Workers Comp - (41)	0.90	3/31/2017	3/28/2017	260000			3	2017		
1026	R26-02R1.17-P-0002		301238449	95572000	SCE-Insurance Workers Comp - (41)	-0.30	4/30/2017	4/8/2017	260000			4	2017		
1026	R26-02R1.17-P-0002		301238449	95500000	SCE-Transportation Oper - A&G - (41)	-0.31	4/30/2017	4/8/2017	260000			4	2017		
1026	R26-02R1.17-P-0002		301238449	95051000	SCE-PBOP Expense - (41)	-0.46	4/30/2017	4/8/2017	260000			4	2017		
1026	R26-02R1.17-P-0002		301238449	95061000	SCE-Pension Expense - (41)	-0.82	4/30/2017	4/8/2017	260000			4	2017		
1026	R26-02R1.17-P-0002		301294588	95572000	SCE-Insurance Workers Comp - (41)	1.80	6/30/2017	6/8/2017	260000			6	2017		
1026	R26-02R1.17-P-0002		301294588	95500000	SCE-Transportation Oper - A&G - (41)	1.85	6/30/2017	6/8/2017	260000			6	2017		
1026	R26-02R1.17-P-0002		301294588	95061000	SCE-Pension Expense - (41)	4.91	6/30/2017	6/8/2017	260000			6	2017		
1026	R26-02R1.17-P-0002		301294588	95051000	SCE-PBOP Expense - (41)	2.73	6/30/2017	6/8/2017	260000			6	2017		
1026	R26-02R1.17-P-0002		301297579	95017100	SCE-Annual Incentive Plan (41)	1.77	6/30/2017	6/9/2017	260000			6	2017		
1026	R26-02R1.17-P-0002		301327364	95572000	SCE-Insurance Workers Comp - (41)	0.60	7/31/2017	7/12/2017	260000			7	2017		
1026	R26-02R1.17-P-0002		301327364	95017100	SCE-Annual Incentive Plan (41)	0.59	7/31/2017	7/12/2017	260000			7	2017		
1026	R26-02R1.17-P-0002		301327364	95061000	SCE-Pension Expense - (41)	1.64	7/31/2017	7/12/2017	260000			7	2017		
1026	R26-02R1.17-P-0002		301327364	95051000	SCE-PBOP Expense - (41)	0.91	7/31/2017	7/12/2017	260000			7	2017		
1026	R26-02R1.17-P-0002		301327364	95500000	SCE-Transportation Oper - A&G - (41)	1.58	7/31/2017	7/12/2017	260000			7	2017		
1026	R26-02R1.17-P-0002		301356537	95017100	SCE-Annual Incentive Plan (41)	48.45	8/31/2017	8/15/2017	260000			8	2017		
1026	R26-02R1.17-P-0002		301356537	95051000	SCE-PBOP Expense - (41)	76.64	8/31/2017	8/15/2017	260000			8	2017		
1026	R26-02R1.17-P-0002		301356537	95061000	SCE-Pension Expense - (41)	137.64	8/31/2017	8/15/2017	260000			8	2017		
1026	R26-02R1.17-P-0002		301356537	95500000	SCE-Transportation Oper - A&G - (41)	133.08	8/31/2017	8/15/2017	260000			8	2017		
1026	R26-02R1.17-P-0002		301356537	95572000	SCE-Insurance Workers Comp - (41)	50.37	8/31/2017	8/15/2017	260000			8	2017		
1026	R26-02R1.17-P-0002		301371156	95017100	SCE-Annual Incentive Plan (41)	-20.53	9/30/2017	9/8/2017	260000			9	2017		
1026	R26-02R1.17-P-0002		301371156	95051000	SCE-PBOP Expense - (41)	-30.15	9/30/2017	9/8/2017	260000			9	2017		
1026	R26-02R1.17-P-0002		301371156	95061000	SCE-Pension Expense - (41)	-54.15	9/30/2017	9/8/2017	260000			9	2017		
1026	R26-02R1.17-P-0002		301371156	95500000	SCE-Transportation Oper - A&G - (41)	-52.36	9/30/2017	9/8/2017	260000			9	2017		
1026	R26-02R1.17-P-0002		301371156	95572000	SCE-Insurance Workers Comp - (41)	-19.82	9/30/2017	9/8/2017	260000			9	2017		
1026	R26-02R1.17-P-0002		301386622	95017100	SCE-Annual Incentive Plan (41)	1.77	9/30/2017	9/26/2017	260000			9	2017		
1026	R26-02R1.17-P-0002		301386622	95051000	SCE-PBOP Expense - (41)	2.73	9/30/2017	9/26/2017	260000			9	2017		
1026	R26-02R1.17-P-0002		301386622	95061000	SCE-Pension Expense - (41)	4.91	9/30/2017	9/26/2017	260000			9	2017		
1026	R26-02R1.17-P-0002		301386622	95500000	SCE-Transportation Oper - A&G - (41)	4.75	9/30/2017	9/26/2017	260000			9	2017		
1026	R26-02R1.17-P-0002		301386622	95572000	SCE-Insurance Workers Comp - (41)	1.80	9/30/2017	9/26/2017	260000			9	2017		
1026	R26-02R1.17-P-0002		301398544	95017100	SCE-Annual Incentive Plan (41)	-0.59	10/31/2017	10/6/2017	260000			10	2017		
1026	R26-02R1.17-P-0002		301398544	95051000	SCE-PBOP Expense - (41)	-0.81	10/31/2017	10/6/2017	260000			10	2017		
1026	R26-02R1.17-P-0002		301398544	95061000	SCE-Pension Expense - (41)	-1.64	10/31/2017	10/6/2017	260000			10	2017		
1026	R26-02R1.17-P-0002		301398544	95500000	SCE-Transportation Oper - A&G - (41)	-1.58	10/31/2017	10/6/2017	260000			10	2017		
1026	R26-02R1.17-P-0002		301398544	95572000	SCE-Insurance Workers Comp - (41)	-0.60	10/31/2017	10/6/2017	260000			10	2017		
1026	R26-02R1.17-P-0002		301404286	95572000	SCE-Insurance Workers Comp - (41)	4.79	10/31/2017	10/10/2017	260000			10	2017		
1026	R26-02R1.17-P-0002		301404286	95500000	SCE-Transportation Oper - A&G - (41)	12.66	10/31/2017	10/10/2017	260000			10	2017		
1026	R26-02R1.17-P-0002		301404286	95061000	SCE-Pension Expense - (41)	13.10	10/31/2017	10/10/2017	260000			10	2017		
1026	R26-02R1.17-P-0002		301404286	95051000	SCE-PBOP Expense - (41)	7.29	10/31/2017	10/10/2017	260000			10	2017		
1026	R26-02R1.17-P-0002		301404286	95017100	SCE-Annual Incentive Plan (41)	4.71	10/31/2017	10/10/2017	260000			10	2017		
1026	R26-02R1.17-P-0002		301427307	95572000	SCE-Insurance Workers Comp - (41)	1.20	11/30/2017	11/8/2017	260000			11	2017		
1026	R26-02R1.17-P-0002		301427307	95500000	SCE-Transportation Oper - A&G - (41)	3.17	11/30/2017	11/8/2017	260000			11	2017		
1026	R26-02R1.17-P-0002		301427307	95061000	SCE-Pension Expense - (41)	3.27	11/30/2017	11/8/2017	260000			11	2017		
1026	R26-02R1.17-P-0002		301427307	95051000	SCE-PBOP Expense - (41)	1.82	11/30/2017	11/8/2017	260000			11	2017		
1026	R26-02R1.17-P-0002		301427307	95017100	SCE-Annual Incentive Plan (41)	1.18	11/30/2017	11/8/2017	260000			11	2017		
1026	R26-02R1.17-P-0002		301450054	95572000	SCE-Insurance Workers Comp - (41)	1.20	12/31/2017	12/9/2017	260000			12	2017		
1026	R26-02R1.17-P-0002		301450054	95500000	SCE-Transportation Oper - A&G - (41)	3.17	12/31/2017	12/9/2017	260000			12	2017		
1026	R26-02R1.17-P-0002		301450054	95061000	SCE-Pension Expense - (41)	3.27	12/31/2017	12/9/2017	260000			12	2017		
1026	R26-02R1.17-P-0002		301450054	95051000	SCE-PBOP Expense - (41)	1.82	12/31/2017	12/9/2017	260000			12	2017		
1026	R26-02R1.17-P-0002		301450054	95017100	SCE-Annual Incentive Plan (41)	1.18	12/31/2017	12/9/2017	260000			12	2017		
1026	R26-02R1.17-P-0002	SV	1004715613	52801200	Capital Accrual Clearing	55,360.00	1/31/2017	1/31/2017		23435000	A/P-Proj Cost Acclr	1	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SG	1004716291	52801200	Capital Accrual Clearing	-55,360.00	2/1/2017	2/1/2017		23435000	A/P-Proj Cost Acclr	2	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	WE	1004785105	53110000	Contract Svc-Eng - Natural Account	5,116.80	2/21/2017	2/21/2017		23436000	A/P-GRIR CapSvc	2	2017	INV#34373 2/20/2017	
1026	R26-02R1.17-P-0002	SV	1004806982	52801200	Capital Accrual Clearing	14,860.20	2/28/2017	2/28/2017		23435000	A/P-Proj Cost Acclr	2	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SG	1004808238	52801200	Capital Accrual Clearing	-14,860.20	3/1/2017	3/1/2017		23435000	A/P-Proj Cost Acclr	3	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SL	1004824101	52801100	Indirect Overhead Clearing	401.03	2/28/2017	3/1/2017		10780110	CWIP-EngClearDist OH	2	2017	OVERHEAD	PP BATCH # 7780
1026	R26-02R1.17-P-0002	SL	1004824101	52805100	Indirect Overhead RWIP Clearing	133.68	2/28/2017	3/1/2017		10780110	CWIP-EngClearDist OH	2	2017	OVERHEAD	PP BATCH # 7780
1026	R26-02R1.17-P-0002	UI	1004837288	85000000	AFUDC Debt	6.70	2/28/2017	3/2/2017		70510000	AFUDC-Equity	2	2017	AFUDC	PP BATCH # 7790
1026	R26-02R1.17-P-0002	UI	1004837288	70510000	AFUDC - Equity	6.07	2/28/2017	3/2/2017		70510000	AFUDC-Equity	2	2017	AFUDC	PP BATCH # 7790
1026	R26-02R1.17-P-0002	WE	1004850891	53110000	Contract Svc-Eng - Natural Account	7,360.00	3/9/2017	3/9/2017		23436000	A/P-GRIR CapSvc	3	2017	INV#34429 3/8/2017	INV#34429 3/8/2017
1026	R26-02R1.17-P-0002	PA	1004866864	50100000	Labor Natural Account	100.52	3/17/2017	3/15/2017		13140202	PNC AWCC-PR-Out ACH	3	2017	PP0000020725	
1026	R26-02R1.17-P-0002	PA	1004866864	68533000	FICA	7.98	3/17/2017	3/15/2017		13140202	PNC AWCC-PR-Out ACH	3	2017	PP0000020725	
1026	R26-02R1.17-P-0002	PA	1004866864	50550000	Group Insurance Expense	13.09	3/17/2017	3/15/2017		13140202	PNC AWCC-PR-Out ACH	3	2017	PP0000020725	
1026	R26-02R1.17-P-0002	PA	1004866864	50421000	401k Expense	4.02	3/17/2017	3/15/2017		13140202	PNC AWCC-PR-Out ACH	3	2017	PP0000020725	
1026	R26-02R1.17-P-0002	PA	1004866864	50422000	Defined Compensation Plan Expense	5.0422000	3/17/2017	3/15/2017		13140202	PNC AWCC-PR-Out ACH	3	2017	PP0000020836	
1026	R26-02R1.17-P-0002	PA	1004895609	50422000	Defined Compensation Plan Expense	0.68	3/1/2017	3/28/2017							

Tennessee-American Water Company
Docket #18-00022
Response to TAW_R_CPADDR3_026
Cost Detail Related to Work Order #R26-02R1.17-P-0002

Source: SAP

Company Code	Object	Document type	Document Number	Cost Element	Cost element descr.	Val/COArea CrCy	Posting Date	Created on	Partner object	Offsetting acct no.	Name of offsetting account	Period	Fiscal Year	Document Header Text	Name
1026	R26-02R1.17-P-0002	SL	1004943153	52801100	Indirect Overhead Clearing	14.19	3/31/2017	4/3/2017		10780110	CWIP-EngClearDist OH	3	2017	OVERHEAD	PP BATCH # 7833
1026	R26-02R1.17-P-0002	SL	1004943153	52801100	Indirect Overhead Clearing	1.59	3/31/2017	4/3/2017		10780110	CWIP-EngClearDist OH	3	2017	OVERHEAD	PP BATCH # 7833
1026	R26-02R1.17-P-0002	SL	1004943153	52805100	Indirect Overhead RWIP Clearing	4.73	3/31/2017	4/3/2017		10780110	CWIP-EngClearDist OH	3	2017	OVERHEAD	PP BATCH # 7833
1026	R26-02R1.17-P-0002	SL	1004943153	52805100	Indirect Overhead RWIP Clearing	0.53	3/31/2017	4/3/2017		10780110	CWIP-EngClearDist OH	3	2017	OVERHEAD	PP BATCH # 7833
1026	R26-02R1.17-P-0002	SL	1004943153	52801100	Indirect Overhead Clearing	576.84	3/31/2017	4/3/2017		10780110	CWIP-EngClearDist OH	3	2017	OVERHEAD	PP BATCH # 7833
1026	R26-02R1.17-P-0002	UI	1004945667	85000000	AFUDC Debt	23.35	3/31/2017	4/4/2017		70510000	AFUDC-Equity	3	2017	AFUDC	PP BATCH # 7842
1026	R26-02R1.17-P-0002	UI	1004945667	70510000	AFUDC - Equity	21.15	3/31/2017	4/4/2017		70510000	AFUDC-Equity	3	2017	AFUDC	PP BATCH # 7842
1026	R26-02R1.17-P-0002	SV	1005010692	52801200	Capital Accrual Clearing	11,500.20	4/28/2017	4/28/2017		23435000	A/P-Proj Cost Acclr	4	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SG	1005011436	52801200	Capital Accrual Clearing	-11,500.20	5/1/2017	4/29/2017		23435000	A/P-Proj Cost Acclr	5	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SL	1005039135	52805100	Indirect Overhead RWIP Clearing	-0.05	4/30/2017	5/1/2017		52801100	Indirect OH Clearing	4	2017	OVERHEAD	PP BATCH # 7882
1026	R26-02R1.17-P-0002	SL	1005039135	52801100	Indirect Overhead Clearing	-0.15	4/30/2017	5/1/2017		52801100	Indirect OH Clearing	4	2017	OVERHEAD	PP BATCH # 7882
1026	R26-02R1.17-P-0002	SL	1005039135	52801100	Indirect Overhead Clearing	-1.31	4/30/2017	5/1/2017		52801100	Indirect OH Clearing	4	2017	OVERHEAD	PP BATCH # 7882
1026	R26-02R1.17-P-0002	UI	1005039135	52805100	Indirect Overhead RWIP Clearing	-0.44	4/30/2017	5/1/2017		52801100	Indirect OH Clearing	4	2017	OVERHEAD	PP BATCH # 7882
1026	R26-02R1.17-P-0002	UI	1005041795	85000000	AFUDC Debt	33.38	4/30/2017	5/2/2017		70510000	AFUDC-Equity	4	2017	AFUDC	PP BATCH # 7887
1026	R26-02R1.17-P-0002	UI	1005041795	70510000	AFUDC - Equity	30.23	4/30/2017	5/2/2017		70510000	AFUDC-Equity	4	2017	AFUDC	PP BATCH # 7887
1026	R26-02R1.17-P-0002	SA	1005086311	50171000	Annual Incentive Plan	3.10	5/18/2017	5/18/2017		50171000	Annual Incent Plan	5	2017	Capitalize APP	
1026	R26-02R1.17-P-0002	SV	1005115101	52801200	Capital Accrual Clearing	13,500.20	5/31/2017	5/31/2017		23435000	A/P-Proj Cost Acclr	5	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SG	1005115827	52801200	Capital Accrual Clearing	-13,500.20	6/1/2017	6/1/2017		23435000	A/P-Proj Cost Acclr	6	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SL	1005149192	52801100	Indirect Overhead Clearing	0.24	5/31/2017	6/1/2017		10780110	CWIP-EngClearDist OH	5	2017	OVERHEAD	PP BATCH # 7946
1026	R26-02R1.17-P-0002	SL	1005149192	52805100	Indirect Overhead RWIP Clearing	0.08	5/31/2017	6/1/2017		10780110	CWIP-EngClearDist OH	5	2017	OVERHEAD	PP BATCH # 7946
1026	R26-02R1.17-P-0002	UI	1005150147	85000000	AFUDC Debt	33.56	5/31/2017	6/2/2017		70510000	AFUDC-Equity	5	2017	AFUDC	PP BATCH # 7952
1026	R26-02R1.17-P-0002	PA	1005150147	70510000	AFUDC - Equity	30.51	5/31/2017	6/2/2017		70510000	AFUDC-Equity	5	2017	AFUDC	PP BATCH # 7952
1026	R26-02R1.17-P-0002	PA	1005158127	50421000	401k Expense	3.10	6/9/2017	6/6/2017		13140202	PNC AWCC-PR-Out ACH	6	2017	PP0000021345	
1026	R26-02R1.17-P-0002	PA	1005158127	50550000	Group Insurance Expense	9.83	6/9/2017	6/6/2017		13140202	PNC AWCC-PR-Out ACH	6	2017	PP0000021345	
1026	R26-02R1.17-P-0002	PA	1005158127	68533000	FICA	5.81	6/9/2017	6/6/2017		13140202	PNC AWCC-PR-Out ACH	6	2017	PP0000021345	
1026	R26-02R1.17-P-0002	PA	1005158127	50100000	Labor Natural Account	77.46	6/9/2017	6/6/2017		13140202	PNC AWCC-PR-Out ACH	6	2017	PP0000021345	
1026	R26-02R1.17-P-0002	PA	1005158127	50422000	Defined Compensation Plan Expense	4.07	6/9/2017	6/6/2017		13140202	PNC AWCC-PR-Out ACH	6	2017	PP0000021345	
1026	R26-02R1.17-P-0002	SV	1005194177	55000100	Transportation Capitalized Credits	5.39	6/21/2017	6/21/2017		55000100	Trans Cap Credits	6	2017	Adj YTD Transp OH alloc	
1026	R26-02R1.17-P-0002	SA	1005225181	52801200	Capital Accrual Clearing	15,500.20	6/30/2017	6/30/2017		23435000	A/P-Proj Cost Acclr	6	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SG	1005226204	52801200	Capital Accrual Clearing	-15,500.20	7/1/2017	7/1/2017		23435000	A/P-Proj Cost Acclr	7	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SL	1005253557	52801100	Indirect Overhead Clearing	8.28	6/30/2017	7/3/2017		10780110	CWIP-EngClearDist OH	6	2017	OVERHEAD	PP BATCH # 8001
1026	R26-02R1.17-P-0002	SL	1005253557	52805100	Indirect Overhead RWIP Clearing	2.76	6/30/2017	7/3/2017		10780110	CWIP-EngClearDist OH	6	2017	OVERHEAD	PP BATCH # 8001
1026	R26-02R1.17-P-0002	SL	1005253557	52801100	Indirect Overhead Clearing	1.02	6/30/2017	7/3/2017		10780110	CWIP-EngClearDist OH	6	2017	OVERHEAD	PP BATCH # 8001
1026	R26-02R1.17-P-0002	SL	1005253557	52805100	Indirect Overhead RWIP Clearing	0.34	6/30/2017	7/3/2017		10780110	CWIP-EngClearDist OH	6	2017	OVERHEAD	PP BATCH # 8001
1026	R26-02R1.17-P-0002	PA	1005257341	50550000	Group Insurance Expense	3.28	7/7/2017	7/3/2017		13140202	PNC AWCC-PR-Out ACH	7	2017	PP0000021420	
1026	R26-02R1.17-P-0002	PA	1005257341	50421000	401k Expense	1.03	7/7/2017	7/3/2017		13140202	PNC AWCC-PR-Out ACH	7	2017	PP0000021420	
1026	R26-02R1.17-P-0002	PA	1005257341	50422000	Defined Compensation Plan Expense	1.36	7/7/2017	7/3/2017		13140202	PNC AWCC-PR-Out ACH	7	2017	PP0000021420	
1026	R26-02R1.17-P-0002	PA	1005257341	50100000	Labor Natural Account	25.82	7/7/2017	7/3/2017		13140202	PNC AWCC-PR-Out ACH	7	2017	PP0000021420	
1026	R26-02R1.17-P-0002	PA	1005257341	68533000	FICA	1.94	7/7/2017	7/3/2017		13140202	PNC AWCC-PR-Out ACH	7	2017	PP0000021420	
1026	R26-02R1.17-P-0002	UI	1005258788	70510000	AFUDC - Equity	30.72	6/30/2017	7/5/2017		70510000	AFUDC-Equity	6	2017	AFUDC	PP BATCH # 8011
1026	R26-02R1.17-P-0002	UI	1005258788	85000000	AFUDC Debt	33.92	6/30/2017	7/5/2017		70510000	AFUDC-Equity	6	2017	AFUDC	PP BATCH # 8011
1026	R26-02R1.17-P-0002	WE	1005288044	53110000	Contract Svc-Eng - Natural Account	340.63	7/18/2017	7/18/2017		23436000	A/P-GRIR CapSvc	7	2017	INV#34866 7/18/2017	INV#34866 7/18/2017
1026	R26-02R1.17-P-0002	SV	1005319079	52801200	Capital Accrual Clearing	17,159.57	7/31/2017	7/31/2017		23435000	A/P-Proj Cost Acclr	7	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SG	1005321767	52801200	Capital Accrual Clearing	-17,159.57	8/1/2017	8/1/2017		23435000	A/P-Proj Cost Acclr	8	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SL	1005323605	52801100	Indirect Overhead Clearing	3.49	7/31/2017	8/1/2017		10780110	CWIP-EngClearDist OH	7	2017	OVERHEAD	PP BATCH # 8048
1026	R26-02R1.17-P-0002	SL	1005323605	52805100	Indirect Overhead RWIP Clearing	0.19	7/31/2017	8/1/2017		10780110	CWIP-EngClearDist OH	7	2017	OVERHEAD	PP BATCH # 8048
1026	R26-02R1.17-P-0002	SL	1005323605	52801100	Indirect Overhead Clearing	0.56	7/31/2017	8/1/2017		10780110	CWIP-EngClearDist OH	7	2017	OVERHEAD	PP BATCH # 8048
1026	R26-02R1.17-P-0002	SL	1005323605	52801100	Indirect Overhead Clearing	35.56	7/31/2017	8/1/2017		10780110	CWIP-EngClearDist OH	7	2017	OVERHEAD	PP BATCH # 8048
1026	R26-02R1.17-P-0002	SL	1005323605	52805100	Indirect Overhead RWIP Clearing	11.85	7/31/2017	8/1/2017		10780110	CWIP-EngClearDist OH	7	2017	OVERHEAD	PP BATCH # 8048
1026	R26-02R1.17-P-0002	SL	1005323605	52805100	Indirect Overhead RWIP Clearing	1.16	7/31/2017	8/1/2017		10780110	CWIP-EngClearDist OH	7	2017	OVERHEAD	PP BATCH # 8048
1026	R26-02R1.17-P-0002	WE	1005354698	53110000	Contract Svc-Eng - Natural Account	270.33	8/2/2017	8/2/2017		23436000	A/P-GRIR CapSvc	8	2017	INV#34939 8/1/2017	INV#34939 8/1/2017
1026	R26-02R1.17-P-0002	UI	1005358656	85000000	AFUDC Debt	34.79	7/31/2017	8/2/2017		70510000	AFUDC-Equity	7	2017	AFUDC	PP BATCH # 8058
1026	R26-02R1.17-P-0002	UI	1005358656	70510000	AFUDC - Equity	31.51	7/31/2017	8/2/2017		70510000	AFUDC-Equity	7	2017	AFUDC	PP BATCH # 8058
1026	R26-02R1.17-P-0002	PV	1005385841	50426000	Retiree Medical Expense	2.68	8/7/2017	8/15/2017		24120600	Accr Wages	8	2017	PP0000021560	
1026	R26-02R1.17-P-0002	PV	1005385841	50422000	Defined Compensation Plan Expense	33.26	8/1/2017	8/15/2017		24120600	Accr Wages	8	2017	PP0000021560	
1026	R26-02R1.17-P-0002	PV	1005385841	50421000	401k Expense	40.96	8/1/2017	8/15/2017		24120600	Accr Wages	8	2017	PP0000021560	
1026	R26-02R1.17-P-0002	PV	1005385841	50550000	Group Insurance Expense	196.03	8/1/2017	8/15/2017		24120600	Accr Wages	8	2017	PP0000021560	
1026	R26-02R1.17-P-0002	PV	1005385841	68533000	FICA	93.98	8/1/2017	8/15/2017		24120600	Accr Wages	8	2017	PP0000021560	
1026	R26-02R1.17-P-0002	PV	1005385841	50100000	Labor Expense Accrual	1,266.42	8/1/2017	8/15/2017		24120600	Accr Wages	8	2017	PP0000021560	
1026	R26-02R1.17-P-0002	PA	1005385842	50422000	Defined Compensation Plan Expense	23.76	8/18/2017	8/15/2017		13140202	PNC AWCC-PR-Out ACH	8	2017	PP0000021560	
1026	R26-02R1.17-P-0002	PA	1005385842	68535000	SUTA	0.31	8/18/2017	8/15/2017		13140202	PNC AWCC-PR-Out ACH	8	2017	PP0000021560	
1026	R26-02R1.17-P-0002	PA	1005385842	68532000	FUTA	0.74	8/18/2017	8/15/2017		13140202	PNC AWCC-PR-Out ACH	8	2017	PP0000021560	
1026	R26-02R1.17-P-0002	PA	1005385842	50100000	Labor Natural Account	858.48	8/18/2017	8/15/2017		13140202	PNC AWCC-PR-Out ACH	8	2017	PP0000021560	
1026	R26-02R1.17-P-0002	PA	1005385842	50426000	Retiree Medical Expense	67.12	8/18/2017	8/15/2017		13140202	PNC AWCC-PR-Out ACH	8	2017	PP0000021560	
1026	R26-02R1.17-P-0002	PA	1005385842	50426000	Retiree Medical Expense	1.92	8/18/2017	8/15/2017		13140202	PNC AWCC-PR-Out ACH	8	2017	PP0000021560	
1026	R26-02R1.17-P-0002	PA	1005385842	50110000	Labor Non-scheduled Overtime - Natural A	46.16	8/18/2017	8/15/2017		13140202	PNC AWCC-PR-Out ACH	8	2017	PP0000021560	
1026	R26-02R1.17-P-00														

Tennessee-American Water Company
Docket #18-00022
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Source: SAP

Company Code	Object	Document type	Document Number	Cost Element	Cost element descr.	Val/COArea CrCy	Posting Date	Created on	Partner object	Offsetting acct no.	Name of offsetting account	Period	Fiscal Year	Document Header Text	Name
1026	R26-02R1.17-P-0002	SL	1005459954	52801100	Indirect Overhead Clearing	593.49	8/31/2017	9/1/2017		10780110	CWIP-EngClearDist OH	8	2017	OVERHEAD	PP BATCH # 8103
1026	R26-02R1.17-P-0002	SL	1005459954	52801100	Indirect Overhead Clearing	292.43	8/31/2017	9/1/2017		10780110	CWIP-EngClearDist OH	8	2017	OVERHEAD	PP BATCH # 8103
1026	R26-02R1.17-P-0002	SV	1005460556	52801200	Capital Accrual Clearing	12,270.15	8/31/2017	9/1/2017		23435000	A/P-Proj Cost Acctl	8	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SV	1005460556	52801200	Capital Accrual Clearing	237,600.00	8/31/2017	9/1/2017		23435000	A/P-Proj Cost Acctl	8	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SV	1005460556	52801200	Capital Accrual Clearing	4,125.00	8/31/2017	9/1/2017		23435000	A/P-Proj Cost Acctl	8	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SV	1005460557	52801200	Capital Accrual Clearing	4,125.00	8/31/2017	9/1/2017		23435000	A/P-Proj Cost Acctl	8	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SV	1005460557	52801200	Capital Accrual Clearing	237,600.00	8/31/2017	9/1/2017		23435000	A/P-Proj Cost Acctl	8	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SV	1005460557	52801200	Capital Accrual Clearing	12,270.15	8/31/2017	9/1/2017		23435000	A/P-Proj Cost Acctl	8	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SG	1005463208	52801200	Capital Accrual Clearing	-12,270.15	8/31/2017	9/1/2017		23435000	A/P-Proj Cost Acctl	8	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SG	1005463208	52801200	Capital Accrual Clearing	-237,600.00	8/31/2017	9/1/2017		23435000	A/P-Proj Cost Acctl	8	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SG	1005463208	52801200	Capital Accrual Clearing	-4,125.00	8/31/2017	9/1/2017		23435000	A/P-Proj Cost Acctl	8	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	UI	1005464365	70510000	AFUDC - Equity	43.10	8/31/2017	9/5/2017		18503000	RA-TRIR-AFUDC CWIP	8	2017	AFUDC	PP BATCH # 8113
1026	R26-02R1.17-P-0002	UI	1005464365	85000000	AFUDC Debt	47.58	8/31/2017	9/5/2017		18503000	RA-TRIR-AFUDC CWIP	8	2017	AFUDC	PP BATCH # 8113
1026	R26-02R1.17-P-0002	SG	1005464621	52801200	Capital Accrual Clearing	-12,270.15	9/1/2017	9/2/2017		23435000	A/P-Proj Cost Acctl	9	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SG	1005464621	52801200	Capital Accrual Clearing	-237,600.00	9/1/2017	9/2/2017		23435000	A/P-Proj Cost Acctl	9	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SG	1005464621	52801200	Capital Accrual Clearing	-4,125.00	9/1/2017	9/2/2017		23435000	A/P-Proj Cost Acctl	9	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	PV	1005513770	50422000	Defined Compensation Plan Expense	1.36	9/1/2017	9/26/2017		24120600	Accr Wages	9	2017	PP0000021695	
1026	R26-02R1.17-P-0002	PV	1005513770	50550000	Group Insurance Expense	3.30	9/1/2017	9/26/2017		24120600	Accr Wages	9	2017	PP0000021695	
1026	R26-02R1.17-P-0002	PV	1005513770	68533000	FICA	1.94	9/1/2017	9/26/2017		24120600	Accr Wages	9	2017	PP0000021695	
1026	R26-02R1.17-P-0002	PV	1005513770	50421000	401k Expense	1.04	9/1/2017	9/26/2017		24120600	Accr Wages	9	2017	PP0000021695	
1026	R26-02R1.17-P-0002	PV	1005513770	50100001	Labor Expense Accrual	25.82	9/1/2017	9/26/2017		24120600	Accr Wages	9	2017	PP0000021695	
1026	R26-02R1.17-P-0002	PA	1005513771	50100000	Labor Natural Account	51.00	9/29/2017	9/26/2017		13140202	PNC AWCC-PR-Out ACH	9	2017	PP0000021695	
1026	R26-02R1.17-P-0002	PA	1005513771	68533000	FICA	3.87	9/29/2017	9/26/2017		13140202	PNC AWCC-PR-Out ACH	9	2017	PP0000021695	
1026	R26-02R1.17-P-0002	PA	1005513771	50550000	Group Insurance Expense	6.55	9/29/2017	9/26/2017		13140202	PNC AWCC-PR-Out ACH	9	2017	PP0000021695	
1026	R26-02R1.17-P-0002	PA	1005513771	50421000	401k Expense	2.07	9/29/2017	9/26/2017		13140202	PNC AWCC-PR-Out ACH	9	2017	PP0000021695	
1026	R26-02R1.17-P-0002	PA	1005513771	50422000	Defined Compensation Plan Expense	2.71	9/29/2017	9/26/2017		13140202	PNC AWCC-PR-Out ACH	9	2017	PP0000021695	
1026	R26-02R1.17-P-0002	PV	1005513772	68533000	FICA	-1.94	10/1/2017	9/26/2017		24120600	Accr Wages	10	2017	PP0000021695	
1026	R26-02R1.17-P-0002	PV	1005513772	50550000	Group Insurance Expense	-3.30	10/1/2017	9/26/2017		24120600	Accr Wages	10	2017	PP0000021695	
1026	R26-02R1.17-P-0002	PV	1005513772	50100001	Labor Expense Accrual	-25.82	10/1/2017	9/26/2017		24120600	Accr Wages	10	2017	PP0000021695	
1026	R26-02R1.17-P-0002	PV	1005513772	50421000	401k Expense	-1.04	10/1/2017	9/26/2017		24120600	Accr Wages	10	2017	PP0000021695	
1026	R26-02R1.17-P-0002	PV	1005513772	50422000	Defined Compensation Plan Expense	-1.36	10/1/2017	9/26/2017		24120600	Accr Wages	10	2017	PP0000021695	
1026	R26-02R1.17-P-0002	WE	1005521432	53110000	Contract Svc-Eng - Natural Account	11,854.31	9/28/2017	9/28/2017		23436000	A/P-GRIR CapSvc	9	2017	INV#35108 9/28/2017	INV#35108 9/28/2017
1026	R26-02R1.17-P-0002	SV	1005530922	52801200	Capital Accrual Clearing	8,375.00	9/29/2017	9/29/2017		23435000	A/P-Proj Cost Acctl	9	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SV	1005530922	52801200	Capital Accrual Clearing	482,400.00	9/29/2017	9/29/2017		23435000	A/P-Proj Cost Acctl	9	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SV	1005530922	52801200	Capital Accrual Clearing	8,415.84	9/29/2017	9/29/2017		23435000	A/P-Proj Cost Acctl	9	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SG	1005531637	52801200	Capital Accrual Clearing	-8,415.84	10/1/2017	9/30/2017		23435000	A/P-Proj Cost Acctl	10	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SG	1005531637	52801200	Capital Accrual Clearing	-482,400.00	10/1/2017	9/30/2017		23435000	A/P-Proj Cost Acctl	10	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SG	1005531637	52801200	Capital Accrual Clearing	-8,375.00	10/1/2017	9/30/2017		23435000	A/P-Proj Cost Acctl	10	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SL	1005558752	52801100	Indirect Overhead Clearing	16.81	9/30/2017	10/2/2017		52801100	Indirect OH Clearing	9	2017	OVERHEAD	PP BATCH # 8163
1026	R26-02R1.17-P-0002	SL	1005558752	52805100	Indirect Overhead RWIP Clearing	412.53	9/30/2017	10/2/2017		10780110	CWIP-EngClearDist OH	9	2017	OVERHEAD	PP BATCH # 8163
1026	R26-02R1.17-P-0002	SL	1005558752	52801100	Indirect Overhead Clearing	1,237.59	9/30/2017	10/2/2017		10780110	CWIP-EngClearDist OH	9	2017	OVERHEAD	PP BATCH # 8163
1026	R26-02R1.17-P-0002	SL	1005558752	52805100	Indirect Overhead RWIP Clearing	-34.83	9/30/2017	10/2/2017		52801100	Indirect OH Clearing	9	2017	OVERHEAD	PP BATCH # 8163
1026	R26-02R1.17-P-0002	SL	1005558752	52801100	Indirect Overhead Clearing	-104.49	9/30/2017	10/2/2017		52801100	Indirect OH Clearing	9	2017	OVERHEAD	PP BATCH # 8163
1026	R26-02R1.17-P-0002	SL	1005558752	52805100	Indirect Overhead RWIP Clearing	-5.60	9/30/2017	10/2/2017		52801100	Indirect OH Clearing	9	2017	OVERHEAD	PP BATCH # 8163
1026	R26-02R1.17-P-0002	UI	1005563049	70510000	AFUDC - Equity	67.38	9/30/2017	10/3/2017		70510000	AFUDC-Equity	9	2017	AFUDC	PP BATCH # 8172
1026	R26-02R1.17-P-0002	UI	1005563049	85000000	AFUDC Debt	74.39	9/30/2017	10/3/2017		70510000	AFUDC-Equity	9	2017	AFUDC	PP BATCH # 8172
1026	R26-02R1.17-P-0002	PA	1005581544	68533000	FICA	15.50	10/13/2017	10/10/2017		13140202	PNC AWCC-PR-Out ACH	10	2017	PP0000021734	
1026	R26-02R1.17-P-0002	PA	1005581544	50550000	Group Insurance Expense	26.23	10/13/2017	10/10/2017		13140202	PNC AWCC-PR-Out ACH	10	2017	PP0000021734	
1026	R26-02R1.17-P-0002	PA	1005581544	50421000	401k Expense	8.26	10/13/2017	10/10/2017		13140202	PNC AWCC-PR-Out ACH	10	2017	PP0000021734	
1026	R26-02R1.17-P-0002	PA	1005581544	50100000	Labor Natural Account	206.56	10/13/2017	10/10/2017		13140202	PNC AWCC-PR-Out ACH	10	2017	PP0000021734	
1026	R26-02R1.17-P-0002	PA	1005581544	50422000	Defined Compensation Plan Expense	10.84	10/13/2017	10/10/2017		13140202	PNC AWCC-PR-Out ACH	10	2017	PP0000021734	
1026	R26-02R1.17-P-0002	WE	1005616099	53110000	Contract Svc-Eng - Natural Account	13,367.18	10/25/2017	10/25/2017		23436000	A/P-GRIR CapSvc	10	2017	INV#35180 10/25/2017	INV#35180 10/25/2017
1026	R26-02R1.17-P-0002	SV	1005636808	52801200	Capital Accrual Clearing	3,048.66	10/31/2017	10/31/2017		23435000	A/P-Proj Cost Acctl	10	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SV	1005636808	52801200	Capital Accrual Clearing	720,000.00	10/31/2017	10/31/2017		23435000	A/P-Proj Cost Acctl	10	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SV	1005636808	52801200	Capital Accrual Clearing	12,500.00	10/31/2017	10/31/2017		23435000	A/P-Proj Cost Acctl	10	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SG	1005636890	52801200	Capital Accrual Clearing	-3,048.66	11/1/2017	11/1/2017		23435000	A/P-Proj Cost Acctl	11	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SG	1005636890	52801200	Capital Accrual Clearing	-720,000.00	11/1/2017	11/1/2017		23435000	A/P-Proj Cost Acctl	11	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SG	1005636890	52801200	Capital Accrual Clearing	-12,500.00	11/1/2017	11/1/2017		23435000	A/P-Proj Cost Acctl	11	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SL	1005637587	52805100	Indirect Overhead RWIP Clearing	8.14	10/31/2017	11/1/2017		10780110	CWIP-EngClearDist OH	10	2017	OVERHEAD	PP BATCH # 8227
1026	R26-02R1.17-P-0002	SL	1005637587	52801100	Indirect Overhead Clearing	24.42	10/31/2017	11/1/2017		10780110	CWIP-EngClearDist OH	10	2017	OVERHEAD	PP BATCH # 8227
1026	R26-02R1.17-P-0002	SL	1005637587	52801100	Indirect Overhead Clearing	3.89	10/31/2017	11/1/2017		10780110	CWIP-EngClearDist OH	10	2017	OVERHEAD	PP BATCH # 8227
1026	R26-02R1.17-P-0002	SL	1005637587	52801100	Indirect Overhead Clearing	1,395.53	10/31/2017	11/1/2017		10780110	CWIP-EngClearDist OH	10	2017	OVERHEAD	PP BATCH # 8227
1026	R26-02R1.17-P-0002	SL	1005637587	52805100	Indirect Overhead RWIP Clearing	465.									

Tennessee-American Water Company
Docket #18-00022
Response to TAW_R_CPADDR3_026
Cost Detail Related to Work Order #R26-02R1.17-P-0002

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Company Code	Object	Document type	Document Number	Cost Element	Cost element descr.	Val/COArea CrCy	Posting Date	Created on	Partner object	Offsetting acct no.	Name of offsetting account	Period	Fiscal Year	Document Header Text	Name
1026	R26-02R1.17-P-0002	WE	1005770760	53150000	Contract Svc-Other - Natural Account	858,809.90	12/6/2017	12/6/2017		23436000	A/P-GRIR CapSvc	12	2017	INV#861257 12/5/2017	INV#861257 12/5/2017
1026	R26-02R1.17-P-0002	WE	1005770761	53150000	Contract Svc-Other - Natural Account	2,200.00	12/6/2017	12/6/2017		23436000	A/P-GRIR CapSvc	12	2017	INV#861257 12/5/2017	INV#861257 12/5/2017
1026	R26-02R1.17-P-0002	PA	1005771428	50422000	Defined Compensation Plan Expense	2.71	12/8/2017	12/5/2017		13140202	PNC AWCC-PR-Out ACH	12	2017	PP0000022043	
1026	R26-02R1.17-P-0002	PA	1005771428	50421000	401k Expense	2.07	12/8/2017	12/5/2017		13140202	PNC AWCC-PR-Out ACH	12	2017	PP0000022043	
1026	R26-02R1.17-P-0002	PA	1005771428	50550000	Group Insurance Expense	6.55	12/8/2017	12/5/2017		13140202	PNC AWCC-PR-Out ACH	12	2017	PP0000022043	
1026	R26-02R1.17-P-0002	PA	1005771428	68533000	FICA	3.87	12/8/2017	12/5/2017		13140202	PNC AWCC-PR-Out ACH	12	2017	PP0000022043	
1026	R26-02R1.17-P-0002	PA	1005771428	50100000	Labor Natural Account	51.64	12/8/2017	12/5/2017		13140202	PNC AWCC-PR-Out ACH	12	2017	PP0000022043	
1026	R26-02R1.17-P-0002	WE	1005773217	53150000	Contract Svc-Other - Natural Account	247.50	12/6/2017	12/6/2017		23436000	A/P-GRIR CapSvc	12	2017	INV#861257 12/5/2017	INV#861257 12/5/2017
1026	R26-02R1.17-P-0002	WE	1005799492	53150000	Contract Svc-Other - Natural Account	241,325.27	12/19/2017	12/19/2017		23436000	A/P-GRIR CapSvc	12	2017	INV#34132627 12/18/2017	INV#34132627 12/18/2017
1026	R26-02R1.17-P-0002	WE	1005799494	53150000	Contract Svc-Other - Natural Account	1.00	12/19/2017	12/19/2017		23436000	A/P-GRIR CapSvc	12	2017	INV#34132627 12/18/2017	INV#34132627 12/18/2017
1026	R26-02R1.17-P-0002	WE	1005801452	53110000	Contract Svc-Eng - Natural Account	4,502.54	12/18/2017	12/18/2017		23436000	A/P-GRIR CapSvc	12	2017	INV#35438 12/12/2017	INV#35438 12/12/2017
1026	R26-02R1.17-P-0002	WE	1005803678	53110000	Contract Svc-Eng - Natural Account	4,035.77	12/20/2017	12/20/2017		23436000	A/P-GRIR CapSvc	12	2017	INV#35400 12/12/2017	INV#35400 12/12/2017
1026	R26-02R1.17-P-0002	WE	1005807988	53110000	Contract Svc-Eng - Natural Account	4,220.84	12/21/2017	12/21/2017		23436000	A/P-GRIR CapSvc	12	2017	INV#35474r 12/20/2017	INV#35474r 12/20/2017
1026	R26-02R1.17-P-0002	WE	1005835328	53150000	Contract Svc-Other - Natural Account	150.00	12/29/2017	12/29/2017		23436000	A/P-GRIR CapSvc	12	2017	Labor	
1026	R26-02R1.17-P-0002	WE	1005835328	52000000	M & S (O&M) - Natural Account	1,800.00	12/29/2017	12/29/2017		23436000	A/P-GRIR CapSvc	12	2017	Provided Steel Road Plates	
1026	R26-02R1.17-P-0002	SV	1005837808	52801200	Capital Accrual Clearing	2,399.46	12/29/2017	12/29/2017		23435000	A/P-Proj Cost Acclr	12	2017	1026 VOWPOACCRUALPOSTING	0000100172 TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	SV	1005837808	52801200	Capital Accrual Clearing	3,317.33	12/29/2017	12/29/2017		23435000	A/P-Proj Cost Acclr	12	2017	1026 VOWPOACCRUALPOSTING	0000107098 American Suncraft Company Inc
1026	R26-02R1.17-P-0002	SV	1005837808	52801200	Capital Accrual Clearing	17,799.00	12/29/2017	12/29/2017		23435000	A/P-Proj Cost Acclr	12	2017	1026 VOWPOACCRUALPOSTING	0000107098 American Suncraft Company Inc
1026	R26-02R1.17-P-0002	SL	1005838400	52801100	Indirect Overhead Clearing	153,735.34	12/31/2017	1/2/2018		10780110	CWIP-EngClearDist OH	12	2017	OVERHEAD	PP BATCH # 8363
1026	R26-02R1.17-P-0002	SL	1005838400	52801100	Indirect Overhead Clearing	1.46	12/31/2017	1/2/2018		10780110	CWIP-EngClearDist OH	12	2017	OVERHEAD	PP BATCH # 8363
1026	R26-02R1.17-P-0002	SL	1005838400	52801100	Indirect Overhead Clearing	9.18	12/31/2017	1/2/2018		10780110	CWIP-EngClearDist OH	12	2017	OVERHEAD	PP BATCH # 8363
1026	R26-02R1.17-P-0002	SL	1005838400	52805100	Indirect Overhead RWIP Clearing	2,117.88	12/31/2017	1/2/2018		10780110	CWIP-EngClearDist OH	12	2017	OVERHEAD	PP BATCH # 8363
1026	R26-02R1.17-P-0002	SL	1005838400	52805100	Indirect Overhead RWIP Clearing	0.13	12/31/2017	1/2/2018		10780110	CWIP-EngClearDist OH	12	2017	OVERHEAD	PP BATCH # 8363
1026	R26-02R1.17-P-0002	SL	1005838400	52805100	Indirect Overhead RWIP Clearing	0.02	12/31/2017	1/2/2018		10780110	CWIP-EngClearDist OH	12	2017	OVERHEAD	PP BATCH # 8363
1026	R26-02R1.17-P-0002	UI	1005860856	70510000	AFUDC - Equity	970.83	12/31/2017	1/3/2018		85000000	AFUDC Debt	12	2017	AFUDC	PP BATCH # 8380
1026	R26-02R1.17-P-0002	UI	1005860856	85000000	AFUDC Debt	1,071.81	12/31/2017	1/3/2018		85000000	AFUDC Debt	12	2017	AFUDC	PP BATCH # 8380
1026	R26-02R1.17-P-0002	SL	1005866061	52801100	Indirect Overhead Clearing	3,121.15	12/31/2017	1/4/2018		10780110	CWIP-EngClearDist OH	12	2017	OVERHEAD	PP BATCH # 8390
1026	R26-02R1.17-P-0002	SL	1005866061	52801100	Indirect Overhead Clearing	0.13	12/31/2017	1/4/2018		10780110	CWIP-EngClearDist OH	12	2017	OVERHEAD	PP BATCH # 8390
1026	R26-02R1.17-P-0002	SL	1005866061	52801100	Indirect Overhead Clearing	0.81	12/31/2017	1/4/2018		10780110	CWIP-EngClearDist OH	12	2017	OVERHEAD	PP BATCH # 8390

[illegible]

Ref Document Number	Total quantity	Material	Material Description	Purchasing Document	Item	Purchase order text
100051450	0.000				0	
100051450	0.000				0	
100051450	0.000				0	
100051450	0.000				0	
100051450	0.000				0	
2000005762	0.000				0	
2000005762	0.000				0	
100052459	0.000				0	
100052462	0.000				0	
100053105	0.000				0	
100053105	0.000				0	
100053105	0.000				0	
100053105	0.000				0	
2000005839	0.000				0	
2000005839	0.000				0	
100053685	0.000				0	
100054131	0.000				0	
100054134	0.000				0	
100054819	0.000				0	
100054819	0.000				0	
2000005927	0.000				0	
2000005927	0.000				0	
256172	0.000				0	
256172	0.000				0	
256172	0.000				0	
256172	0.000				0	
256172	0.000				0	
100055545	0.000				0	
100055802	0.000				0	
100055832	0.000				0	
100056407	0.000				0	
100056407	0.000				0	
100056407	0.000				0	
100056407	0.000				0	
260263	0.000				0	
260263	0.000				0	
260263	0.000				0	
260263	0.000				0	
2000006021	0.000				0	
2000006021	0.000				0	
5000720103	1			5000040328	30	South End Steel Ground Tank
100057405	0.000				0	
100057415	0.000				0	
100058143	0.000				0	
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100058143	0.000				0	
100058143	0.000				0	
100058143	0.000				0	
100058143	0.000				0	
5000728251	1			5000040328	30	South End Steel Ground Tank
2000006107	0.000				0	
2000006107	0.000				0	
265237	0.000				0	
265237	0.000				0	
265237	0.000				0	
265237	0.000				0	
265237	0.000				0	
265237	0.000				0	
265237	0.000				0	
265238	0.000				0	
265238	0.000				0	
265238	0.000				0	
265238	0.000				0	
265238	0.000				0	
265238	0.000				0	
265238	0.000				0	
265238	0.000				0	
265238	0.000				0	
265239	0.000				0	
265239	0.000				0	
265239	0.000				0	
265239	0.000				0	
265239	0.000				0	
5000742917	1			5000082768	10	Material to Install Water Supply Line
5000742917	1			5000082768	20	Labor
266814	0.000				0	
266814	0.000				0	
266814	0.000				0	
266814	0.000				0	
266814	0.000				0	
266814	0.000				0	
266814	0.000				0	
266814	0.000				0	
5000743889	1			5000040328	30	South End Steel Ground Tank
100059885	0.000				0	
100059885	0.000				0	
100059885	0.000				0	
100059885	0.000				0	

Ref Document Number	Total quantity	Material	Material Description	Purchasing Document	Item	Purchase order text
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100059954	0.000				0	
100059954	0.000				0	
2000006202	0.000				0	
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100059984	0.000				0	
100059984	0.000				0	
100059984	0.000				0	
271379	0.000				0	
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271379	0.000				0	
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271381	0.000				0	
271381	0.000				0	
271381	0.000				0	
271381	0.000				0	
5000757089	1			5000040328	30	South End Steel Ground Tank
100060962	0.000				0	
100060962	0.000				0	
100060962	0.000				0	
100060965	0.000				0	
100060965	0.000				0	
100060965	0.000				0	
100061582	0.000				0	
100061582	0.000				0	
100061582	0.000				0	
100061582	0.000				0	
100061582	0.000				0	
2000006300	0.000				0	
2000006300	0.000				0	
273667	0.000				0	
273667	0.000				0	
273667	0.000				0	
273667	0.000				0	
273667	0.000				0	
5000771631	1			5000040328	30	South End Steel Ground Tank
100062582	0.000				0	
100062582	0.000				0	
100062582	0.000				0	
100062586	0.000				0	
100062586	0.000				0	
100062586	0.000				0	
100063070	0.000				0	
100063070	0.000				0	
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100063070	0.000				0	
100063141	0.000				0	
2000006412	0.000				0	
2000006412	0.000				0	
100063183	0.000				0	
277807	0.000				0	
277807	0.000				0	
277807	0.000				0	
277807	0.000				0	
277807	0.000				0	
5000785102	1			5000040328	30	South End Steel Ground Tank
5000787129	1			5000040328	30	South End Steel Ground Tank
5000791828	1			5000040328	30	South End Steel Ground Tank
100064036	0.000				0	
100064036	0.000				0	
100064036	0.000				0	
100064039	0.000				0	
100064039	0.000				0	
100064039	0.000				0	
100064040	0.000				0	
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100064040	0.000				0	
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100064040	0.000				0	
100064040	0.000				0	
2000006513	0.000				0	
2000006513	0.000				0	

Ref Document Number	Total quantity	Material	Material Description	Purchasing Document	Item	Purchase order text
5000793961	1			5000081728	10	South End Tank Rehab
5000793962	1			5000081728	20	Removal/Demolition Portion
281007	0.000				0	
281007	0.000				0	
281007	0.000				0	
281007	0.000				0	
281007	0.000				0	
5000794336	1			5000081728	10	South End Tank Rehab
5000800837	1			5000081728	10	South End Tank Rehab
5000800839	1			5000081728	20	Removal/Demolition Portion
5000800802	1			5000040328	30	South End Steel Ground Tank
5000802035	1			5000040328	30	South End Steel Ground Tank
5000802930	1			5000040328	30	South End Steel Ground Tank
5000808319	1			5000092732	20	Labor
5000808319	1			5000092732	10	Provide Steel Road Plates @SouthEnd Tank
100065367	0.000				0	
100065367	0.000				0	
100065367	0.000				0	
100065417	0.000				0	
100065417	0.000				0	
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100065417	0.000				0	
100065417	0.000				0	
100065417	0.000				0	
2000006613	0.000				0	
2000006613	0.000				0	
100065605	0.000				0	
100065605	0.000				0	
100065605	0.000				0	

Tennessee-American Water Company
Docket #18-00022
Response to TAW_R_CPADDR3_026
Cost Summary Related to Work Order #R26-02R1.17-P-0002

Source: SAP												
Company Code	Object	Document type	Document Number	Cost Element	Cost element descr.	Val/COArea CrCy	Sales/Use Tax	Other Amounts	Actual Invoice	Posting Date	Offsetting acct no.	Name of offsetting account
1026	R26-02R1.17-P-0002	WE	1004785105	53110000	Contract Svc-Eng - Natural Account	5,116.80			5,116.80	2/21/2017	100172	TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	WE	1004850891	53110000	Contract Svc-Eng - Natural Account	7,360.00			7,360.00	3/9/2017	100172	TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	WE	1005288044	53110000	Contract Svc-Eng - Natural Account	340.63			340.63	7/18/2017	100172	TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	WE	1005354698	53110000	Contract Svc-Eng - Natural Account	270.33			270.33	8/2/2017	100172	TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	WE	1005418103	52000000	M & S (O&M) - Natural Account	198.83		596.48	795.31	8/30/2017	102423	ESLINGER CONTRACTING CO
1026	R26-02R1.17-P-0002	WE	1005418103	53150000	Contract Svc-Other - Natural Account	596.48		(596.48)	0.00	8/30/2017	102423	ESLINGER CONTRACTING CO
1026	R26-02R1.17-P-0002	WE	1005431937	53110000	Contract Svc-Eng - Natural Account	4,619.09			4,619.09	8/31/2017	100172	TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	WE	1005521432	53110000	Contract Svc-Eng - Natural Account	11,854.31			11,854.31	9/28/2017	100172	TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	WE	1005616099	53110000	Contract Svc-Eng - Natural Account	13,367.18			13,367.18	10/25/2017	100172	TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	WE	1005709221	53110000	Contract Svc-Eng - Natural Account	7,445.58			7,445.58	11/20/2017	100172	TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	WE	1005722412	53110000	Contract Svc-Eng - Natural Account	2,125.10			2,125.10	11/27/2017	100172	TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	WE	1005740002	53110000	Contract Svc-Eng - Natural Account	2,342.37			2,342.37	12/1/2017	100172	TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	WE	1005770760	53150000	Contract Svc-Other - Natural Account	858,809.90	2,447.50		861,257.40	12/6/2017	107098	American Suncraft Company Inc
1026	R26-02R1.17-P-0002	WE	1005770761	53150000	Contract Svc-Other - Natural Account	2,200.00	(2,200.00)		0.00	12/6/2017	107098	American Suncraft Company Inc
1026	R26-02R1.17-P-0002	WE	1005773217	53150000	Contract Svc-Other - Natural Account	247.50	(247.50)		0.00	12/6/2017	107098	American Suncraft Company Inc
1026	R26-02R1.17-P-0002	WE	1005799492	53150000	Contract Svc-Other - Natural Account	241,325.27	1.00		241,326.27	12/19/2017	107098	American Suncraft Company Inc
1026	R26-02R1.17-P-0002	WE	1005799494	53150000	Contract Svc-Other - Natural Account	1.00	(1.00)		0.00	12/19/2017	107098	American Suncraft Company Inc
1026	R26-02R1.17-P-0002	WE	1005801452	53110000	Contract Svc-Eng - Natural Account	4,502.54			4,502.54	12/18/2017	100172	TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	WE	1005803678	53110000	Contract Svc-Eng - Natural Account	4,035.77			4,035.77	12/20/2017	100172	TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	WE	1005807988	53110000	Contract Svc-Eng - Natural Account	4,220.84			4,220.84	12/21/2017	100172	TANK INDUSTRY CONSULTANTS INC
1026	R26-02R1.17-P-0002	WE	1005835328	53150000	Contract Svc-Other - Natural Account	150.00	(150.00)		0.00	12/29/2017	102423	ESLINGER CONTRACTING CO
1026	R26-02R1.17-P-0002	WE	1005835328	52000000	M & S (O&M) - Natural Account	1,800.00	150.00		1,950.00	12/29/2017	102423	ESLINGER CONTRACTING CO
						<u>\$1,172,929.52</u>			<u>\$1,172,929.52</u>			

Tennessee-American Water Company
Docket #18-00022
Response to TAW_R_CPADDR3_026
Cost Summary Related to Work Order #R26-02R1.17-P-0002

Period	Fiscal Year	Document Header Text	Name	Purchasing Document	Item	Purchase order text
2	2017	5000037353	INV#34373 2/20/2017	5000040328	30	South End Steel Ground Tank
3	2017	5000037858	INV#34429 3/8/2017	5000040328	30	South End Steel Ground Tank
7	2017	5000041229	INV#34866 7/18/2017	5000040328	30	South End Steel Ground Tank
8	2017	5000041664	INV#34939 8/1/2017	5000040328	30	South End Steel Ground Tank
8	2017	5000042490	Material to Install Water Supply Line	5000082768	10	Material to Install Water Supply Line
8	2017		Labor	5000082768	20	Labor
8	2017	5000042509	INV#35031 8/31/2017	5000040328	30	South End Steel Ground Tank
9	2017	5000043178	INV#35108 9/28/2017	5000040328	30	South End Steel Ground Tank
10	2017	5000043813	INV#35180 10/25/2017	5000040328	30	South End Steel Ground Tank
11	2017	5000044499	INV#35273 11/17/2017	5000040328	30	South End Steel Ground Tank
11	2017	5000044618	INV#35340 11/22/2017	5000040328	30	South End Steel Ground Tank
12	2017	5000044779	INV#35380 11/30/2017	5000040328	30	South End Steel Ground Tank
12	2017	5000044851	INV#861257 12/5/2017	5000081728	10	South End Tank Rehab
12	2017		INV#861257 12/5/2017	5000081728	20	Removal/Demolition Portion
12	2017		INV#861257 12/5/2017	5000081728	10	South End Tank Rehab
12	2017	5000045292	INV#34132627 12/18/2017	5000081728	10	South End Tank Rehab
12	2017		INV#34132627 12/18/2017	5000081728	20	Removal/Demolition Portion
12	2017	5000045172	INV#35438 12/12/2017	5000040328	30	South End Steel Ground Tank
12	2017	5000045301	INV#35400 12/12/2017	5000040328	30	South End Steel Ground Tank
12	2017	5000045396	INV#35474r 12/20/2017	5000040328	30	South End Steel Ground Tank
12	2017		Labor	5000092732	20	Labor
12	2017	5000045630	Provided Steel Road Plates	5000092732	10	Provide Steel Road Plates @SouthEnd Tank

Tennessee-American Water Company
Docket #18-00022
Response to TAW_R_CPADDR3_026
Cost Summary Related to Work Order #R26-02A1.17-P-0003

Work Order	Cost Type	Amount	Amount
R26-02A1.17-P-0003	Additions	25,150.62	\$25,150.62
	Removals	-	0.00
	CIAC	-	0.00
			<u>\$25,150.62</u>

Work Order	General Cost Type	General Cost Description	Amount
R26-02A1.17-P-0003	Labor	Labor & Related Costs	\$609.34
	Inventory	Materials Issued from Inventory	3,943.53
	Invoices	Contracted Services & Non-Inventory Materials	15,573.61
	Salvage	Salvage/Scrap Receipts	0.00
	AFUDC	Allowance for Funds Used During Construction	34.55
	Capital Accrual	Cost Accruals Related to Construction	2,132.00
	Overhead	Indirect Overhead	<u>2,857.59</u>
			<u>\$25,150.62</u>

From recon file "TAW_2017_CapRider_Cost_Detail Source: Powerplant

company_c	work_order_number	charge_type	external_cost_element	cost_element	charge_mo_yr	gl_accoun	external_gl_acc	closed_mon	vendor_inform	work_order_description	in_service_date	amount	Type	Rider	Cost Type
1026-Tennessee Ameri	R26-02A1.17-P	Contracted Services	53150000	Contr Svc-Other	12/1/2017 0:00	10600000	10700000	201712	ESLINGER CONTI	Riverfront Pky 6" Main Ext	12/21/2017 0:00	14025.75	A	EDI	Additions
1026-Tennessee Ameri	R26-02A1.17-P	Labor Overhead	50610100	Pension Cap Credits	12/1/2017 0:00	10600000	10700000	201712		Riverfront Pky 6" Main Ext	12/21/2017 0:00	23.76	A	EDI	Additions
1026-Tennessee Ameri	R26-02A1.17-P	Labor Overhead	50422100	DCP Exp Cap Credits	12/1/2017 0:00	10600000	10700000	201712		Riverfront Pky 6" Main Ext	12/21/2017 0:00	14.36	A	EDI	Additions
1026-Tennessee Ameri	R26-02A1.17-P	Labor Overhead	50550100	Group Ins Cap Credits	12/1/2017 0:00	10600000	10700000	201712		Riverfront Pky 6" Main Ext	12/21/2017 0:00	103.72	A	EDI	Additions
1026-Tennessee Ameri	R26-02A1.17-P	Materials & Supplies	52000000	M&S Natural Account	12/1/2017 0:00	10600000	10700000	201712	ESLINGER CONTI	Riverfront Pky 6" Main Ext	12/21/2017 0:00	606.61	A	EDI	Additions
1026-Tennessee Ameri	R26-02A1.17-P	Other	55000100	Trans Cap Credits	12/1/2017 0:00	10600000	10700000	201712		Riverfront Pky 6" Main Ext	12/21/2017 0:00	22.98	A	EDI	Additions
1026-Tennessee Ameri	R26-02A1.17-P	Labor Overhead	50510100	PBOP Cap Credits	12/1/2017 0:00	10600000	10700000	201712		Riverfront Pky 6" Main Ext	12/21/2017 0:00	13.23	A	EDI	Additions
1026-Tennessee Ameri	R26-02A1.17-P	Labor Overhead	50421100	401k Exp Cap Credits	12/1/2017 0:00	10600000	10700000	201712		Riverfront Pky 6" Main Ext	12/21/2017 0:00	13.4	A	EDI	Additions
1026-Tennessee Ameri	R26-02A1.17-P	AFUDC Equity	70510000	AFUDC-Equity	12/1/2017 0:00	10600000	10700000	201712		Riverfront Pky 6" Main Ext	12/21/2017 0:00	16.42	A	EDI	Additions
1026-Tennessee Ameri	R26-02A1.17-P	Other	55720100	Ins W/C Cap Credits	12/1/2017 0:00	10600000	10700000	201712		Riverfront Pky 6" Main Ext	12/21/2017 0:00	8.7	A	EDI	Additions
1026-Tennessee Ameri	R26-02A1.17-P	Overhead	52801100	Indirect OH Clearing	12/1/2017 0:00	10600000	10700000	201712		Riverfront Pky 6" Main Ext	12/21/2017 0:00	2857.59	A	EDI	Additions
1026-Tennessee Ameri	R26-02A1.17-P	Labor Overhead	68533100	FICA Cap Credits	12/1/2017 0:00	10600000	10700000	201712		Riverfront Pky 6" Main Ext	12/21/2017 0:00	25.84	A	EDI	Additions
1026-Tennessee Ameri	R26-02A1.17-P	Materials & Supplies	52000000	M&S Natural Account	12/1/2017 0:00	10600000	10700000	201712		Riverfront Pky 6" Main Ext	12/21/2017 0:00	3943.53	A	EDI	Additions
1026-Tennessee Ameri	R26-02A1.17-P	AFUDC Debt	85000000	AFUDC Debt	12/1/2017 0:00	10600000	10700000	201712		Riverfront Pky 6" Main Ext	12/21/2017 0:00	18.13	A	EDI	Additions
1026-Tennessee Ameri	R26-02A1.17-P	Labor	50109900	Labor Cap Credits	12/1/2017 0:00	10600000	10700000	201712		Riverfront Pky 6" Main Ext	12/21/2017 0:00	374.8	A	EDI	Additions
1026-Tennessee Ameri	R26-02A1.17-P	Labor	50171100	AIP Cap Credits	12/1/2017 0:00	10600000	10700000	201712		Riverfront Pky 6" Main Ext	12/21/2017 0:00	8.55	A	EDI	Additions
1026-Tennessee Ameri	R26-02A1.17-P	Other	62520700	Misc Main Pvg/Bckfl	12/1/2017 0:00	10600000	10700000	201712	ESLINGER CONTI	Riverfront Pky 6" Main Ext	12/21/2017 0:00	941.25	A	EDI	Additions
1026-Tennessee Ameri	R26-02A1.17-P	CWIP Accrual	52801200	Capital Acc Clearing	12/1/2017 0:00	10600000	10700000	201712		Riverfront Pky 6" Main Ext	12/21/2017 0:00	2132	A	EDI	Additions

Tennessee-American Water Company
Docket #18-00022
Response to TAW_R_CPADDR3_026
Cost Detail Related to Work Order #R26-02A1.17-P-0003

Source: SAP

Company Code	Object	Document type	Document Number	Cost Element	Cost element descr.	Val/COArea Crcy	Posting Date	Created on	Partner object	Offsetting acct no.	Name of offsetting account	Period	Fiscal Year
1026	R26-02A1.17-P-0003	WE	1005835465	53150000	Contract Svc-Other - Natural Account	14,025.75	12/29/2017	12/29/2017				12	2017
1026	R26-02A1.17-P-0003	WE	1005835466	62520700	Misc Maint Paving/Backfill	862.50	12/29/2017	12/29/2017				12	2017
1026	R26-02A1.17-P-0003	WE	1005835468	62520700	Misc Maint Paving/Backfill	78.75	12/29/2017	12/29/2017				12	2017
1026	R26-02A1.17-P-0003	WE	1005835469	52000000	M & S (O&M) - Natural Account	606.61	12/29/2017	12/29/2017				12	2017

Document Header Text	Name	Ref Document Number	Total quantity	Material	Material Description	Purchasing Document	Item	Purchase order text
Inv# 15318 12/15/17	Inv# 15318 12/15/17	5000808455	1			5000092087	10	Install Main @804 Riverfront
Inv# 15318 12/15/17	Inv# 15318 12/15/17	5000808457	1			5000092087	20	804 Riverfront Restoration
Inv# 15318 12/15/17	Inv# 15318 12/15/17	5000808471	1			5000092087	30	804 Riverfront Landscape
Inv# 15318 12/15/17	Inv# 15318 12/15/17	5000808472	1			5000092087	40	Contractor Supplied Material

Tennessee-American Water Company
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Cost Summary Related to Work Order #R26-02A1.17-P-0003

Source: SAP

Company Code	Object	Document type	Document Number	Cost Element	Cost element descr.	Val/COArea Crcy	Sales/Use Tax	Other Amounts	Actual Invoice	Posting Date	Offsetting acct no.	Name of offsetting account
1026	R26-02A1.17-P-0003	WE	1005835465	53150000	Contract Svc-Other - Natural Account	14,025.75		1,547.86	15,573.61	12/29/2017	102423	ESLINGER CONTRACTING CO
1026	R26-02A1.17-P-0003	WE	1005835466	62520700	Misc Maint Paving/Backfill	862.50		-862.50	0.00	12/29/2017	102423	ESLINGER CONTRACTING CO
1026	R26-02A1.17-P-0003	WE	1005835468	62520700	Misc Maint Paving/Backfill	78.75		-78.75	0.00	12/29/2017	102423	ESLINGER CONTRACTING CO
1026	R26-02A1.17-P-0003	WE	1005835469	52000000	M & S (O&M) - Natural Account	606.61		-606.61	0.00	12/29/2017	102423	ESLINGER CONTRACTING CO
						<u>\$15,573.61</u>			<u>\$15,573.61</u>			

Tennessee-American Water Company
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Response to TAW_R_CPADDR3_026
Cost Summary Related to Work Order #R26-02A1.17-P-0003

Period	Fiscal Year	Document Header Text	Name	Purchasing Document	Item	Purchase order text
12	2017	5000045620	Inv# 15318 12/15/17	5000092087	10	Install Main @804 Riverfront
12	2017		Inv# 15318 12/15/17	5000092087	20	804 Riverfront Restoration
12	2017		Inv# 15318 12/15/17	5000092087	30	804 Riverfront Landscape
12	2017		Inv# 15318 12/15/17	5000092087	40	Contractor Supplied Material

Tennessee-American Water Company
Docket #18-00022
Response to TAW_R_CPADDR3_026
Cost Summary Related to Work Order #126-020032-01

Work Order	Cost Type	Amount	Amount
126-020032-01	Additions	(18,995.00)	(18,995.00)
	Removals	1,779,592.00	1,779,592.00
	CIAC	-	-
			<u>\$1,760,597.00</u>

Work Order	General Cost Type	General Cost Description	Amount
126-020032-01	Labor	Labor & Related Costs	\$0.00
	Inventory	Materials Issued from Inventory	0.00
	Invoices	Contracted Services & Non-Inventory Materials	1,635,763.00
	Salvage	Salvage/Scrap Receipts	0.00
	AFUDC	Allowance for Funds Used During Construction	0.00
	Capital Accrual	Cost Accuals Related to Construction	(25,095.00)
	Overhead	Indirect Overhead	<u>149,929.00</u>
			<u>\$1,760,597.00</u>

From recon file "TAW_2017_CapRider_Cost_Detail Source: Powerplant

company_c	work_order_number	charge_type	external_cost_element	cost_element	charge_mo_yr	gl_accoun nt	external_gl_acc ount	closed_mo nth_numbe r	vendor_inform ation	work_order_description	in_service_date	amount	Type	Rider	Cost Type
1026-Tennessee Ameri	126-020032-01	Other	62520700	Misc Main Pvg/Bckfl	6/1/2017 0:00	10100000	10700000	201706	PHALTLESS INC	Wastewater Treatm't & Handling Impr	11/2/2015 0:00	6100	126-020032	SEC	Additions
1026-Tennessee Ameri	126-020032-01	CWIP Accrual	52801200	Capital Acc Clearing	6/1/2017 0:00	10100000	10700000	201706		Wastewater Treatm't & Handling Impr	11/2/2015 0:00	100	126-020032	SEC	Additions
1026-Tennessee Ameri	126-020032-01	Contracted Services	53150000	Contr Svc-Other	12/1/2014 0:00	10899999	25710000	201703		Wastewater Treatm't & Handling Impr	11/2/2015 0:00	795499	126-020032	SEC	Removals
1026-Tennessee Ameri	126-020032-01	Overhead	52805100	Indirect OH RWIP Clr	11/1/2014 0:00	10899999	25710000	201703		Wastewater Treatm't & Handling Impr	11/2/2015 0:00	76743.09	126-020032	SEC	Removals
1026-Tennessee Ameri	126-020032-01	CWIP Accrual	52801200	Capital Acc Clearing	1/1/2017 0:00	10100000	10700000	201701		Wastewater Treatm't & Handling Impr	11/2/2015 0:00	0	126-020032	SEC	Additions
1026-Tennessee Ameri	126-020032-01	CWIP Accrual	52801200	Capital Acc Clearing	7/1/2017 0:00	10100000	10700000	201707		Wastewater Treatm't & Handling Impr	11/2/2015 0:00	-100	126-020032	SEC	Additions
1026-Tennessee Ameri	126-020032-01	Overhead	52805100	Indirect OH RWIP Clr	12/1/2014 0:00	10899999	25710000	201703		Wastewater Treatm't & Handling Impr	11/2/2015 0:00	73185.91	126-020032	SEC	Removals
1026-Tennessee Ameri	126-020032-01	Contracted Services	53150000	Contr Svc-Other	11/1/2014 0:00	10899999	25710000	201703		Wastewater Treatm't & Handling Impr	11/2/2015 0:00	834164	126-020032	SEC	Removals
1026-Tennessee Ameri	126-020032-01	CWIP Accrual	52801200	Capital Acc Clearing	3/1/2017 0:00	10100000	10700000	201703		Wastewater Treatm't & Handling Impr	11/2/2015 0:00	-25095	126-020032	SEC	Additions
1026-Tennessee Ameri	126-020032-01	CWIP Accrual	52801200	Capital Acc Clearing	2/1/2017 0:00	10100000	10700000	201702		Wastewater Treatm't & Handling Impr	11/2/2015 0:00	0	126-020032	SEC	Additions

Tennessee-American Water Company
Docket #18-00022
Response to TAW_R_CPADDR3_026
Cost Detail Related to Work Order #126-020032-01

Source: SAP

Company Code	Object	Document type	Document Number	Cost Element	Cost element descr.	Val/COArea CrCy	Posting Date	Created on	Partner object	Offsetting acct no.	Name of offsetting account	Period	Fiscal Year
1026	I26-020032-01AD30	SG	1004631154	52801200	Capital Accrual Clearing	-25,095.00	1/1/2017	12/31/2016				1	2017
1026	I26-020032-01AD30	SV	1004715613	52801200	Capital Accrual Clearing	25,095.00	1/31/2017	1/31/2017				1	2017
1026	I26-020032-01AD30	SG	1004716291	52801200	Capital Accrual Clearing	-25,095.00	2/1/2017	2/1/2017				2	2017
1026	I26-020032-01AD30	SV	1004806982	52801200	Capital Accrual Clearing	25,095.00	2/28/2017	2/28/2017				2	2017
1026	I26-020032-01AD30	SG	1004808238	52801200	Capital Accrual Clearing	-25,095.00	3/1/2017	3/1/2017				3	2017
1026	I26-020032-01AD30	WE	1005219895	62520700	Misc Maint Paving/Backfill	6,100.00	6/29/2017	6/29/2017				6	2017
1026	I26-020032-01AD30	SV	1005225181	52801200	Capital Accrual Clearing	100.00	6/30/2017	6/30/2017				6	2017
1026	I26-020032-01AD30	SG	1005226204	52801200	Capital Accrual Clearing	-100.00	7/1/2017	7/1/2017				7	2017
1026	I26-020032-01OH	SL	1002176565	52805100	Indirect Overhead RWIP Clearing	76,743.09	11/30/2014	12/1/2014	29999999	999 Line JE Clearg		11	2014
1026	I26-020032-01OH	SL	1002285061	52805100	Indirect Overhead RWIP Clearing	73,185.91	12/31/2014	1/2/2015	10780110	CWIP-EngClearDist OH		12	2014
1026	I26-020032-01RM	WE	1002163285	53150000	Contract Svc-Other - Natural Account	834,164.00	11/25/2014	11/25/2014	23436000	A/P-GRIR CapSvc		11	2014
1026	I26-020032-01RM	WE	1002245945	53150000	Contract Svc-Other - Natural Account	795,499.00	12/19/2014	12/19/2014	23436000	A/P-GRIR CapSvc		12	2014

Document Header Text	Name	Ref Document Number	Total quantity	Material	Material Description	Purchasing Document	Item	Purchase order text
1026 VOWPOACCRUALPOSTING	0000117540 Tyco Integrated Security LLC	100046322	0.000				0	
1026 VOWPOACCRUALPOSTING	0000117540 Tyco Integrated Security LLC	100047745	0.000				0	
1026 VOWPOACCRUALPOSTING	0000117540 Tyco Integrated Security LLC	100047747	0.000				0	
1026 VOWPOACCRUALPOSTING	0000117540 Tyco Integrated Security LLC	100049269	0.000				0	
1026 VOWPOACCRUALPOSTING	0000117540 Tyco Integrated Security LLC	100049272	0.000				0	
Inv# 10220 1/6/17	Inv# 10220 1/6/17	5000711711	1			5000060945	10	Milling, Grading, Cleaning, Asphalt Pavi
1026 VOWPOACCRUALPOSTING	0000108989 PHALTLESS INC	100055802	0.000				0	
1026 VOWPOACCRUALPOSTING	0000108989 PHALTLESS INC	100055832	0.000				0	
OVERHEAD	PP BATCH # 6198	100016079	0.000				0	
OVERHEAD	PP BATCH # 6266	100017280	0.000				0	
	VOW - November 2014	5000261656	1			5000009776	30	Construction of Dewatering Facility
	VOW - December 2014	5000271927	1			5000009776	30	Construction of Dewatering Facility

Tennessee-American Water Company
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Response to TAW_R_CPADDR3_026
Cost Summary Related to Work Order #126-020032-01

Source: SAP

Company Code	Object	Document type	Document Number	Cost Element	Cost element descr.	Val/COArea Crpy	Sales/Use Tax	Other Amounts	Actual Invoice	Posting Date	Offsetting acct no.	Name of offsetting account
1026	126-020032-01AD30	WE	1005219895	62520700	Misc Maint Paving/Backfill	6,100.00		6,100.00	12,200.00	6/29/2017	108989	PHALTLESS INC
1026	126-020032-01RM	WE	1002163285	53150000	Contract Svc-Other - Natural Account	834,164.00			834,164.00	11/25/2014	605714	BOWEN ENGINEERING CORP
1026	126-020032-01RM	WE	1002245945	53150000	Contract Svc-Other - Natural Account	795,499.00		720,377.00	1,515,876.00	12/19/2014	605714	BOWEN ENGINEERING CORP

<u>\$1,635,763.00</u>	<u>\$2,362,240.00</u>

Tennessee-American Water Company
Docket #18-00022
Response to TAW_R_CPADDR3_026
Cost Summary Related to Work Order #126-020032-01

Period	Fiscal Year	Document Header Text	Name	Purchasing Document	Item	Purchase order text
6	2017		5000040803 Inv# 10220 1/6/17	5000060945	10	Milling, Grading, Cleaning, Asphalt Pavi
11	2014		5000017382 VOW - November 2014	5000009776	30	Construction of Dewatering Facility
12	2014		5000017759 VOW - December 2014	5000009776	30	Construction of Dewatering Facility

Tennessee-American Water Company

Docket #18-00022

Response to TAW_R_CPADDR3_026

Cost Summary Related to Work Order #R26-02Q1.17-P-0017

Work Order	Cost Type	Amount	Amount
R26-02Q1.17-P-0017	Additions	191,907.76	191,907.76
	Removals	-	\$50,811.53
	CIAC	-	-
			<u>\$242,719.29</u>

Work Order	General Cost Type	General Cost Description	Amount
R26-02Q1.17-P-0017	Labor	Labor & Related Costs	\$40.92
	Inventory	Materials Issued from Inventory	0.00
	Invoices	Contracted Services & Non-Inventory Materials	212,353.33
	Salvage	Salvage/Scrap Receipts	0.00
	AFUDC	Allowance for Funds Used During Construction	293.57
	Capital Accrual	Cost Accruals Related to Construction	0.00
	Overhead	Indirect Overhead	<u>30,031.47</u>
			<u>\$242,719.29</u>

From recon file "TAW_2017_CapRider_Cost_Detail Source: Powerplant

company_c	work_order_number	charge_type	external_cost_element	cost_element	charge_mo_yr	gl_accoun	external_gl_acc	closed_mnth_number	vendor_informa	work_order_description	in_service_date	amount	Type	Rider	Cost Type
1026-Tennessee Ameri	R26-02Q1.17-P-0017	AFUDC Debt	85000000	AFUDC Debt	9/1/2017 0:00	10600000	10700000	201711		Filter #13 Repl Underdrain & Media	11/30/2017 0:00	1.04 Q	SEC		Additions
1026-Tennessee Ameri	R26-02Q1.17-P-0017	AFUDC Equity	70510000	AFUDC-Equity	8/1/2017 0:00	10600000	10700000	201711		Filter #13 Repl Underdrain & Media	11/30/2017 0:00	0.51 Q	SEC		Additions
1026-Tennessee Ameri	R26-02Q1.17-P-0017	AFUDC Equity	70510000	AFUDC-Equity	9/1/2017 0:00	10600000	10700000	201711		Filter #13 Repl Underdrain & Media	11/30/2017 0:00	0.94 Q	SEC		Additions
1026-Tennessee Ameri	R26-02Q1.17-P-0017	Labor Overhead	50421100	401k Exp Cap Credits	9/1/2017 0:00	10600000	10700000	201711		Filter #13 Repl Underdrain & Media	11/30/2017 0:00	-0.66 Q	SEC		Additions
1026-Tennessee Ameri	R26-02Q1.17-P-0017	Labor Overhead	50510100	PBOP Cap Credits	8/1/2017 0:00	10600000	10700000	201711		Filter #13 Repl Underdrain & Media	11/30/2017 0:00	1.7 Q	SEC		Additions
1026-Tennessee Ameri	R26-02Q1.17-P-0017	CWIP Accrual	52801200	Capital Acc Clearing	10/1/2017 0:00	10600000	10700000	201711		Filter #13 Repl Underdrain & Media	11/30/2017 0:00	27683.97 Q	SEC		Additions
1026-Tennessee Ameri	R26-02Q1.17-P-0017	Labor Overhead	50421100	401k Exp Cap Credits	8/1/2017 0:00	10600000	10700000	201711		Filter #13 Repl Underdrain & Media	11/30/2017 0:00	1.13 Q	SEC		Additions
1026-Tennessee Ameri	R26-02Q1.17-P-0017	Labor Overhead	50550100	Group Ins Cap Credits	8/1/2017 0:00	10600000	10700000	201711		Filter #13 Repl Underdrain & Media	11/30/2017 0:00	14.94 Q	SEC		Additions
1026-Tennessee Ameri	R26-02Q1.17-P-0017	Labor Overhead	68533100	FICA Cap Credits	8/1/2017 0:00	10600000	10700000	201711		Filter #13 Repl Underdrain & Media	11/30/2017 0:00	3.49 Q	SEC		Additions
1026-Tennessee Ameri	R26-02Q1.17-P-0017	Contracted Services	53110000	Contr Svc-Eng	10/1/2017 0:00	10600000	10700000	201711	Consolidated Te	Filter #13 Repl Underdrain & Media	11/30/2017 0:00	31.07 Q	SEC		Additions
1026-Tennessee Ameri	R26-02Q1.17-P-0017	Labor	50109900	Labor Cap Credits	8/1/2017 0:00	10600000	10700000	201711		Filter #13 Repl Underdrain & Media	11/30/2017 0:00	48.07 Q	SEC		Additions
1026-Tennessee Ameri	R26-02Q1.17-P-0017	Overhead	52801100	Indirect OH Clearing	9/1/2017 0:00	10600000	10700000	201711		Filter #13 Repl Underdrain & Media	11/30/2017 0:00	-6.29 Q	SEC		Additions
1026-Tennessee Ameri	R26-02Q1.17-P-0017	AFUDC Debt	85000000	AFUDC Debt	8/1/2017 0:00	10600000	10700000	201711		Filter #13 Repl Underdrain & Media	11/30/2017 0:00	0.56 Q	SEC		Additions
1026-Tennessee Ameri	R26-02Q1.17-P-0017	Labor Overhead	68533100	FICA Cap Credits	9/1/2017 0:00	10600000	10700000	201711		Filter #13 Repl Underdrain & Media	11/30/2017 0:00	-2.04 Q	SEC		Additions
1026-Tennessee Ameri	R26-02Q1.17-P-0017	Labor Overhead	50510100	PBOP Cap Credits	9/1/2017 0:00	10600000	10700000	201711		Filter #13 Repl Underdrain & Media	11/30/2017 0:00	-0.99 Q	SEC		Additions
1026-Tennessee Ameri	R26-02Q1.17-P-0017	Other	55720100	Ins W/C Cap Credits	8/1/2017 0:00	10600000	10700000	201711		Filter #13 Repl Underdrain & Media	11/30/2017 0:00	1.11 Q	SEC		Additions
1026-Tennessee Ameri	R26-02Q1.17-P-0017	CWIP Accrual	52801200	Capital Acc Clearing	8/1/2017 0:00	10600000	10700000	201711		Filter #13 Repl Underdrain & Media	11/30/2017 0:00	30.81 Q	SEC		Additions
1026-Tennessee Ameri	R26-02Q1.17-P-0017	AFUDC Debt	85000000	AFUDC Debt	10/1/2017 0:00	10600000	10700000	201711		Filter #13 Repl Underdrain & Media	11/30/2017 0:00	1.02 Q	SEC		Additions
1026-Tennessee Ameri	R26-02Q1.17-P-0017	Contracted Services	53150000	Contr Svc-Other	11/1/2017 0:00	10600000	10700000	201711	Tech Coat Inc	Filter #13 Repl Underdrain & Media	11/30/2017 0:00	167495.8 Q	SEC		Additions
1026-Tennessee Ameri	R26-02Q1.17-P-0017	Labor	50109900	Labor Cap Credits	9/1/2017 0:00	10600000	10700000	201711		Filter #13 Repl Underdrain & Media	11/30/2017 0:00	-28.04 Q	SEC		Additions
1026-Tennessee Ameri	R26-02Q1.17-P-0017	Labor	50171100	AIP Cap Credits	8/1/2017 0:00	10600000	10700000	201711		Filter #13 Repl Underdrain & Media	11/30/2017 0:00	1.1 Q	SEC		Additions
1026-Tennessee Ameri	R26-02Q1.17-P-0017	Labor Overhead	50610100	Pension Cap Credits	9/1/2017 0:00	10600000	10700000	201711		Filter #13 Repl Underdrain & Media	11/30/2017 0:00	-1.78 Q	SEC		Additions
1026-Tennessee Ameri	R26-02Q1.17-P-0017	Other	55000100	Trans Cap Credits	9/1/2017 0:00	10600000	10700000	201711		Filter #13 Repl Underdrain & Media	11/30/2017 0:00	-1.72 Q	SEC		Additions
1026-Tennessee Ameri	R26-02Q1.17-P-0017	Other	55720100	Ins W/C Cap Credits	9/1/2017 0:00	10600000	10700000	201711		Filter #13 Repl Underdrain & Media	11/30/2017 0:00	-0.65 Q	SEC		Additions
1026-Tennessee Ameri	R26-02Q1.17-P-0017	AFUDC Debt	85000000	AFUDC Debt	11/1/2017 0:00	10600000	10700000	201711		Filter #13 Repl Underdrain & Media	11/30/2017 0:00	151.42 Q	SEC		Additions
1026-Tennessee Ameri	R26-02Q1.17-P-0017	Labor	50171100	AIP Cap Credits	9/1/2017 0:00	10600000	10700000	201711		Filter #13 Repl Underdrain & Media	11/30/2017 0:00	-0.64 Q	SEC		Additions
1026-Tennessee Ameri	R26-02Q1.17-P-0017	Labor Overhead	50610100	Pension Cap Credits	8/1/2017 0:00	10600000	10700000	201711		Filter #13 Repl Underdrain & Media	11/30/2017 0:00	3.05 Q	SEC		Additions
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1026-Tennessee Ameri	R26-02Q1.17-P-0017	Other	55000100	Trans Cap Credits	8/1/2017 0:00	10600000	10700000	201711		Filter #13 Repl Underdrain & Media	11/30/2017 0:00	2.95 Q	SEC		Additions
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Tennessee-American Water Company
Docket #18-00022
Response to TAW_R_CPADDR3_026
Cost Detail Related to Work Order #R26-02Q1.17-P-0017

Source: SAP

Company Code	Object	Document type	Document Number	Cost Element	Cost element descr.	Val/COArea Crncy	Posting Date	Created on	Partner object	Offsetting acct no.	Name of offsetting account	Period	Fiscal Year
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Tennessee-American Water Company
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Cost Summary Related to Work Order #R26-02Q1.17-P-0017

Source: SAP

Company Code	Object	Document type	Document Number	Cost Element	Cost element descr.	Val/COArea CrCy	Sales/Use Tax	Other Amounts	Actual Invoice	Posting Date	Offsetting acct no.	Name of offsetting account
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Tennessee-American Water Company
Docket #18-00022
Response to TAW_R_CPADDR3_026
Cost Summary Related to Work Order #R26-02Q1.17-P-0017

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TENNESSEE AMERICAN WATER
CHATTANOOGA SERVICE AREA
COMPREHENSIVE PLANNING STUDY

Prepared by:
AMERICAN Water
ASSET PLANNING
3609 Church Rd.
Mt Laurel, NJ 08054
November, 2015

**TENNESSEE AMERICAN WATER
CHATTANOOGA
COMPREHENSIVE PLANNING STUDY**

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**TENNESSEE AMERICAN WATER
CHATTANOOGA
COMPREHENSIVE PLANNING STUDY**

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EXECUTIVE SUMMARY

OVERVIEW

This Comprehensive Planning Study (CPS) details the capital improvement recommendations for Tennessee American Water's (TNAW's) Chattanooga system for the planning horizon through 2030. This plan presents a strategy for facility improvements to ensure that TNAW can continue to meet all current water quality regulations and provide adequate and reliable service to its customers. This report addresses the following:

- Presents customer and demand projections through the year 2030,
- Examines the need for additional source of supply and production capacity,
- Assesses aging infrastructure within the Citico plant,
- Addresses existing and proposed water quality and treatment standards,
- Analyzes the water system transmission, distribution, pumping and storage needs, and
- Examines the current level of system resiliency and identifies actions to enhance this level.

The Plan also summarizes and recommends key projects from the energy study conducted on the Citico plant and Chattanooga's system (Nov, 2015). The energy study is a companion document to this CPS.

The executive summary provides an introduction to the planning process and a summary of the key findings. **Section 1** includes descriptions of the recommended capital improvement projects. **Section 2** consists of an overview of the comprehensive planning process. The remaining sections include discussion of the analyses; **Section 3**: Customer and Demand Projections, **Section 4**: Source of Supply, **Section 5**: Production, **Section 6**: Distribution and **Section 7**: Resiliency Assessment. Supplemental information including the Planning Criteria and Regulations is included in **Appendix A**. Detailed Cost Estimates for the capital improvement projects are included in **Appendix B**. The Criticality Analysis for Potential River Spill-Chattanooga Citico Plant summary is included in **Appendix C**. The electrical site visit

summary is included in **Appendix D**. **Appendix E** includes the results of the hydraulic model analyses.

TNAW provides water service to approximately 76,000 customers in the Chattanooga service area, which extends into six counties – Hamilton, Sequatchie and Marion in Tennessee, and Catoosa, Walker and Dade in Georgia. Resale water delivery is provided to the Town of Signal Mountain in Tennessee, and the City of Fort Oglethorpe and the Catoosa Utility District (UD) in Georgia. The Chattanooga system is located in the southeastern part of Tennessee and the northwestern corner of Georgia. The total annual demand averaged 36.2 mgd in 2012, and the record maximum day usage over the past fifteen years of 53.9 mgd occurred in 2006.

The Tennessee River serves as the sole source of supply for the Chattanooga system. The flow in the Tennessee River is abundant and should easily continue to provide an adequate source of supply into the future. The Citico water treatment plant (WTP) is the sole treatment facility. The plant is currently designed to produce 65 mgd. The distribution system consists of over 1,340 miles of mains with diameters up to 54 inches. It operates with nine major pressure gradients, along with 14 smaller pressure gradients serving localized high elevation areas. A total of 11 booster stations, plus the Citico WTP high service pumps, supply the nine major gradients. The system utilizes 18 storage facilities with a total storage volume of 22.4 million gallons (MG).

SUMMARY OF KEY FINDINGS

Customer Growth and Demands

The Chattanooga system's customer base increased from 68,816 in 1998 to 75,676 in 2012, for a net increase of 6,860 and an average annual growth rate of 490 customers per year during this time period. Similar growth rates are projected through 2020, followed by a slight decrease in the growth rate to approximately 470 customers per year through 2025, then approximately 420 customers per year through 2030.

Due to the trend of decreasing usage per customer, the average day demand showed a slight declining trend over the past 15 years, from 38.2 mgd in 1998 to 36.2 mgd in 2012, with a 15-year high of 41.9 mgd in 2000. This declining per customer usage trend is expected to continue and is factored into the projections. However, growth is projected in the sales to Catoosa UD. The base growth scenario projects average and maximum day flows to Catoosa UD of 2.9 mgd and 4.0 mgd, respectively, by 2030, with the potential for a higher maximum day flow of

approximately 6 mgd forecast in the high growth scenario. The system average and maximum day demands are projected to reach 35.3 mgd and 48.7 mgd, respectively, by 2030.

Source of Supply

The source of supply obtained from the Tennessee River is considered to be of sufficient quantity for TNAW Chattanooga to meet its demands through the year 2030 and beyond. The water quality in the Tennessee River has shown a general improving trend. However, there are some months with very high levels of coliform in the raw water. The high levels are most likely due to sewer overflows into the Citico and South Chickamauga Creeks. The high levels are dealt with effectively at the Citico WTP and meet the finished water quality regulations.

Production

TNAW's 65 mgd Citico surface water treatment facility consists of two parallel treatment plants with rated filter capacities of 40 mgd and 25 mgd. One of the treatment plants ("Plant 1" - 40 mgd) consists of conventional flocculation/sedimentation/filtration, constructed in the late 1800's (Basin No. 1 was constructed in 1892), and the second plant ("Plant 2" - 25 mgd) consists of eight Aldrich units constructed in the 1950's.

Applied turbidities are high due to poor flocculation/sedimentation in Basins 1, 2 and 3. A Basin 3 retrofit with plate settlers and new flocculation/mixers, as well as a proposed project in Basin 2 (new tube settlers) will help this issue.

DBPs were elevated in 2012, though still below the Locational Running Annual Average ("LRAA") for THMs and HAAs. The trend has been declining however TNAW should monitor this closely, particularly in late summer and early fall when they are the highest. A project addressing an alternative to gaseous chlorine has been recommended – should this project be undertaken, alternative chlorine application techniques can be evaluated at that time to optimize disinfection and minimize DBP formation.

Due to declining demands and limited growth, chemical storage, chemical feed and raw/finished water pumping is adequate to meet future demands, so no capacity related projects are recommended at this time. Plant equipment has been well maintained and is expected to endure the 15 year time horizon of this CPS with continued maintenance.

Several projects are related to the age of the plant. The flocculation and sedimentation basins, though originally designed for a capacity that exceeds current maximum day demand, are in

need of repair due to their age and condition. Sedimentation Basin No. 1 is recommended for retirement, while Basins 2 and 3 are recommended for improvements, including retrofits to improve water quality (primarily settled water turbidity). Filter Building No. 3 is also recommended for retirement.

The electrical transformers and switchgear appear to have been well maintained, though additional testing is recommended to confirm their condition. At this time it appears that the electrical gear could be maintained for another 15 years with diligent maintenance and recommended testing/improvements to relays and switches. Due to the age and uncertainty with some of the relays and breakers, a higher priority project has been recommended to address this. The primary service transformers are owned by the Electric Power Board (“EPB”). The transformers appear to be in relatively good condition, however this observation is based on limited infrared scanning conducted by American Water only. AW met with the EPB as part of this CPS - the EPB was helpful and indicated a willingness to coordinate with AW for additional testing of the transformers to determine whether there might be issues that have the potential to impact AW. It is incumbent upon AW to initiate this correspondence.

A summary of the CPS recommended improvement projects for the Chattanooga Citico plant is presented in **Tables E-1** (Production) and shown on **Exhibit 1-1**, located at the end of **Section 1**.

Resiliency Assessment

The resiliency level of the Chattanooga system was assessed with respect to the risk inherent with a single river intake and treatment plant. In the event of a river contamination event, the plant is at risk of being shut down thereby causing a significant continuity of service concern. A set of alternatives was evaluated that would enable the delivery equal to 27 mgd over an estimated three day period to recover from such an event. The alternatives were evaluated based first on their ability to provide the deficit volume, then on feasibility, and finally on a risk versus cost analysis. The recommended alternative supply development plan should be coordinated with the Emergency Response Plan (“ERP”). The deployment plan should enlist local WARN networks, and potentially State and Federal authorities such as the Tennessee National Guard to assist with institutional and governmental measures necessary to implement a rapid supply deployment approach. Based on the parameters outlined above, the selected alternative involves a three phase approach, including:

- 1) Deploying a floating pump station in the Chickamauga reservoir (located approximately 6 miles upstream from the Citico plant) to pump through temporary flexible piping to the plant,
- 2) Upgrading interconnections with neighboring systems, and
- 3) Constructing a new intake pipeline(s) to the center channel of the river and the associated raw water pump station. This alternative is evaluated along with the current need for a new raw water pump station, independent of the criticality analysis.

The rapid supply deployment plan in phase 1 should be developed through a stakeholder engagement process with local emergency response personnel and river WARN networks. Opportunities for shared resources for phase 1 deployment should be investigated.

Distribution Facilities

A number of improvements are recommended to increase the transmission, storage and pumping capacities to meet existing and projected demands, improve service reliability, and increase the available fire flows.

The highest priority projects are recommended to address existing system deficiencies while providing future service reliability. In the East Ridge gradient, there is an existing storage deficit and issues with marginally low pressures in some areas of the gradient. The recommendation to divide the large East Ridge gradient into two gradients will enable full use of the Jenkins Road reservoir and provide adequate storage capacity for East Ridge – North. A new storage facility is recommended in East Ridge – South to address the existing storage deficit in this area, while providing additional service reliability, especially with the higher projected flows being delivered to Catoosa UD. Though a storage deficit is also shown in the Mission Ridge gradient, it does not appear feasible to construct a new storage facility in the gradient, due to limited available space at the needed elevations. In lieu of constructing new storage, it is recommended to upgrade the Mission Ridge and South Mission Ridge booster stations with VFD motors on some of the pumps, along with the replacement of a couple pumps that are not adequately sized. The booster stations supplying the Mission Ridge gradient can be used to deliver higher fire and emergency flows, when needed, drawing from storage in the Citico gradient.

Some projects are included to meet the future growth, primarily the increased flows to Catoosa UD. The first transmission improvement is the installation of 9,000 ft of 20-inch main in Ringgold Road, which will be needed to provide flows above approximately 2.5 mgd to Catoosa UD. If the peak flows to Catoosa UD increase above approximately 4 mgd, then an additional major

transmission improvement involving approximately 24,500 ft of 20-inch and 24-inch main is recommended, along with pumping upgrades at the East Ridge booster station.

A few pipeline improvements are recommended to provide additional reliability. These include a second transmission line to the Hill City booster station, which also provides the benefit of reducing the existing high velocities in the existing 16-inch main. The recommendation to provide an additional river crossing extending north from the Citico WTP increases reliability in the event of a critical failure on the existing 30-inch river crossing. The single 6-inch feed to the Elder Mountain gradient, which has a history of main breaks, is recommended for replacement when road improvements are performed.

The available fire flows were evaluated using the hydraulic model. Areas in which the fire flows are predicted to be less than 500 gpm are targeted for improvements. The installation of 1,200 ft of 12-inch main on Hamm Road is recommended to increase the fire flows to a number of hydrants that serve large buildings. A number of minor fire flow improvements are recommended in the Citico and East Ridge gradients. Within Mission Ridge, the transmission improvement along Waheela Road and South Crest Rd, along with the improvements on Greenwood Rd and Shallowford Road, will improve the ability to deliver water from the south to the north, and improve the available fire flows. The fire flow improvement on Maryland Street and Hamilton Avenue improves the fire flows where they are currently less than 500 gpm.

A few gradient modifications are recommended to reduce excessively high service pressures. A significant number of areas in the system experience high service pressures above 200 psi and even a few areas above 300 psi. This is due to the large variation in ground elevations within the gradients. The recommendation to move some customers to an adjacent gradient enables the delivery of more desirable pressures. The possibility of installing additional PRV stations within the Lookout Mountain gradient was evaluated as a method of reducing the excessively high pressures. Up to approximately seven PRV stations could be installed. However, this has the negative effect of reducing the available fire flows in the gradient. Further evaluation of alternatives for managing the high pressures is recommended, to include the installation of more PRVs on individual residences.

In addition to the equalization and fire reserve storage needs, consideration is given to improving the service reliability across the system through the availability of additional storage capacity. A general storage recommendation is included to provide additional storage volume in the system for service reliability in the event of a critical failure at the Citico plant.

A summary of the CPS recommended improvement projects for the Chattanooga system is presented in **Table E-1** on the following page. The locations of the recommended improvements are shown on **Exhibits 1-1 (Production) 1-2 (Distribution)**, located at the end of **Section 1**.

Energy Evaluation

An energy study conducted in parallel with this CPS (Nov, 2015) identified several opportunities for projects that would decrease the overall energy use, demand costs and Greenhouse Gas (“GHG”) emissions at the Citico facility and at one location in the distribution system. These projects are in addition to the recommended Priority A and Priority B projects and include:

- Select Motor and Pump Upgrades,
- Instrumentation and Monitoring,
- Solar Panels,
- Convert GSA3 tariff to TDGSA3 tariff.

The recommended projects would yield the following benefits:

<i>Potential Energy and Demand Savings</i>
• <i>1,000,000 kWh annual reduction in energy</i>
• <i>\$250,000 annual reduction in energy and demand costs,</i>
• <i>1,337,150 ton annual reduction in GHG emissions.</i>

TABLE E-1
TENNESSEE AMERICAN WATER - CHATTANOOGA
COMPREHENSIVE PLANNING STUDY - RECOMMENDED PROJECTS

NO.	PROJECT DESCRIPTION	GRADIENT	PAGE	PROJECT DURATION (MONTHS)			PROJECT COSTS	
				TOTAL	PERMIT DESIGN	CONSTR.	2015*	
PRIORITY A PROJECTS								
A- 1	Rehabilitate Basin 2 with Tube Settlers Retire Basin 1 and Filter Building 3 Electrical-Breakers and Relays Chlorine Gas Conversion Pumping Auxiliary Power System Interconnections and Chickamauga Reservoir, Pump Station/ Piping New Raw Water Intake Mission Ridge and South Mission Ridge Booster Station Upgrades Divide East Ridge Gradient, Install PRV Stations, and Connect Mains Install 1,300 ft of 20-inch Main on Delmont Street Gradient Modifications Pressure Management and DMA Study Construct 2 MG Ground Storage Reservoir and Pump Station in East Ridge - South Gradient Install 3,150 ft of 8-inch Main on Maryland Street & Hamilton Avenue Energy Reduction and Efficiency	Citico	1-3	18	6	12	\$3,600,000	
A- 2		Citico	1-11	9	3	6	\$1,800,000	
A- 3		Citico	1-17	6	3	3	\$600,000	
A- 4		Citico	1-21	30	12	18	\$6,800,000	
A- 5		Citico	1-33	18	6	12	\$1,400,000	
A- 6		Citico	1-36	36	12	24	\$15,000,000	
A- 7		Citico	1-44	30	12	18	\$13,000,000	
A- 8		Mission Ridge	1-48	6	4	2	\$300,000	
A- 9		East Ridge	1-51	10	8	2	\$200,000	
A- 10		Citico	1-62	9	6	3	\$330,000	
A- 11		East Ridge	1-65	5	3	2	\$25,000	
A- 12		Various	1-71	12	12	N/A	\$50,000	
A- 13		East Ridge - South	1-73	24	15	9	\$3,000,000	
A- 14		Citico	1-78	10	6	4	\$540,000	
E- 1	Citico	1-80	24	12	12	\$870,000		
				Total - Priority A Projects			\$48,385,000	
PRIORITY B PROJECTS								
B- 1	Install 30-inch River Crossing from WTP Electrical Improvements- New Switchgear Install 850 ft of 8-inch Main on Greenwood Road & 700 ft of 8-inch Main on Shallowford Road Install 9,000 ft of 20-inch Main on Ringgold Road Citico Minor Fire Flow Improvements Install 1,800 ft of 12-inch Main on Waheela Road & S. Crest Road Install 3,000 ft of 12-inch Main on Cummings Road & River Gorge Drive Increase Effective Storage Volume in Citico Gradient New Raw Water Pump Station Electrical Improvements - Motor Controls Test/Replace Storage Capacity Improvements Install 8,500 ft of 24-inch & 16,000 ft of 20-inch Main on Main St, Crest Rd, Seminole Dr & Ringgold Rd East Ridge Booster Station Upgrades East Ridge Minor Fire Flow Improvements Install 1,500 ft of 12-inch Main on Jersey Pike Install 6,900 ft of 8-inch Main on Elder Mountain Road	Citico	1-88	18	12	6	\$2,500,000	
B- 2		Citico	1-92	18	6	12	\$4,000,000	
B- 3		Mission Ridge	1-94	10	6	4	\$270,000	
B- 4		East Ridge - South	1-97	15	9	6	\$2,300,000	
B- 5		Citico	1-100	9	6	3	\$130,000	
B- 6		Mission Ridge	1-104	9	6	3	\$350,000	
B- 7		St Elmo	1-108	10	6	4	\$670,000	
B- 8		Citico	1-110	21	12	9	\$1,700,000	
B- 9		Citico	1-117	30	12	18	\$35,000,000	
B- 10		Citico	1-124	18	6	12	\$1,000,000	
B- 11		Various	1-127	Varies			\$7,200,000	
B- 12		Citico & East Ridge	1-131	24	12	12	\$6,400,000	
B- 13		East Ridge - South	1-134	12	9	3	\$550,000	
B- 14		East Ridge	1-136	10	6	4	\$230,000	
B- 15		East Ridge - North	1-140	9	6	3	\$390,000	
B- 16		Elder Mountain	1-143	15	9	6	\$1,200,000	
				Total - Priority B Projects			\$63,890,000	

**Documentation and backup included in separate document - "TNAW Chattanooga - System Energy Evaluation and Project Considerations, October 2015"

SECTION 1 RECOMMENDATIONS

PROJECT DESCRIPTIONS

This section provides a description of each of the recommended capital improvement projects for the TNAW Chattanooga system. The estimated project duration and cost are included, followed by a detailed description of the project scope, purpose, and alternatives. **Exhibit 1-1 (Supply/Production), Exhibit 1-2 (Distribution)**, included at the end of this section, show the location of each of the proposed projects for the KAW Plants and System.

Until each project can be funded, there is an associated risk to either the customer service or other operating parameters. However, the need to balance the benefits of the capital improvement projects with the rate impact on customers and affordability is a reality. This Comprehensive Planning Study has attempted to prioritize the projects with most benefit in a logical sequence. The priority category has been included to briefly discuss the projects benefits and associated risk that the project implementation will alleviate.

1.2 RECOMMENDED CAPITAL PROGRAM

Through the analysis of historic operating data, discussions with KAW staff, analysis of demand patterns and projections, and with the aid of computer model to simulate various operating scenarios, the primary needs of the TNAW Peoria system were found to be:

- o Process Improvements to coagulation and flocculation at the Citico facility,
- o Improvements to address the condition of Basin No. 1 and Filter Building No. 3,
- o System resiliency improvements to augment Citico's single intake,
- o Upgrades and improvements to old electrical equipment,

The Capital Improvement Program presented in this report seeks to address these system needs. Projects are identified as Priority A or B. Priority A designates high priority projects recommended for construction due to projected near term treatment, storage and pumping deficits, and associated transmission reinforcements. Priority B projects are recommended to enhance fire flow capacity and to provide various system improvements, and serve as a place holder for potential future projects based on actual system growth.

Through the analysis of one year of electric billing data, electric utility tariff review, discussions with staff, development of a pump/motor database and alternative energy assessment, recommendations have been made for projects that will reduce energy consumption and peak demand costs. Projects that have the potential to improve energy reduction and efficiency are included as “E” projects. While these projects do not directly impact the ongoing operations or processes, they have been identified as projects that can reduce energy consumption with good payback.

Estimated scheduling for design and construction of each project is also presented. The design horizon includes design, permitting and document preparation.

**TENNESSEE AMERICAN WATER
CITICO PLANT**

Project A-1	
REHABILITATE BASIN 2 WITH TUBE SETTLERS	
Design and Permitting: 6 months	
Construction: 12 Months	Project Cost: \$3,600,000

Need for Project

The TNAW Citico WTP experiences elevated applied turbidities resulting in a risky approach to meeting finished water quality and precluding TNAW from qualifying for EPA's Partnership goals. A copy of the same table used in **Project A-1** is shown below, tabulating 2013 applied turbidity data.

Applied Water (max) 2012-2013

Percentile	Yearly	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	Apr-13	May-13
50	2.50	1.70	2.10	1.40	1.60	1.70	1.70	2.40	6.00	7.05	5.20	3.35	3.10
75	4.70	2.38	2.40	1.55	1.90	2.00	2.00	4.05	7.15	8.03	6.10	4.25	3.85
90	6.66	2.93	2.80	1.80	2.44	2.70	2.20	6.30	8.30	8.96	7.00	5.43	4.60
95	7.58	3.42	3.20	1.95	3.02	2.90	2.26	7.05	8.90	9.17	7.55	5.76	5.25
96	7.74	3.54	3.38	1.98	3.14	3.02	2.28	7.14	9.02	9.19	7.64	5.78	5.34
97	8.12	3.61	3.52	2.04	3.24	3.13	2.31	7.29	9.31	9.30	7.74	5.87	5.51
98	8.67	3.64	3.58	2.16	3.33	3.22	2.34	7.56	9.94	9.43	7.86	6.01	5.84
99	9.10	3.67	3.64	2.28	3.41	3.31	2.37	7.83	10.57	9.57	7.98	6.16	6.17
Avg	3.34	1.96	2.16	1.50	1.76	1.85	1.79	3.42	6.01	7.27	5.42	3.74	3.43
Min	1.10	1.10	1.10	1.10	1.20	1.10	1.40	1.70	2.80	5.50	3.60	2.30	2.40
Max	11.20	3.70	3.70	2.40	3.50	3.40	2.40	8.10	11.20	9.70	8.10	6.30	6.50
RSD	62.9%	35.3%	25.1%	16.6%	32.0%	29.5%	14.6%	53.4%	31.7%	15.8%	20.2%	27.0%	28.3%

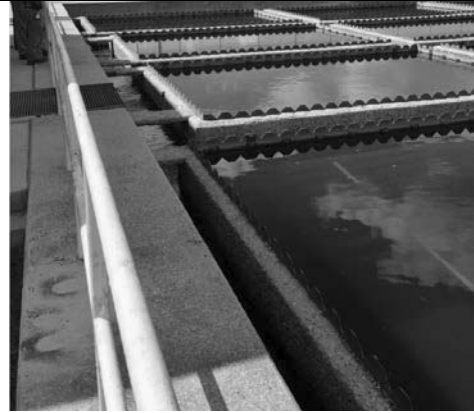
Spike Counter - All Raw Data

Note: The operators record 9 values each day (3 per shift). The maximum reading is the max value of those 9 readings and the daily average utilizes all nine values (which is recorded in another "Applied Water (avg)" table.

Background:

Sedimentation Basin Nos. 1, 2 and 3 were constructed in 1892 (123 years old), 1912 (103 years old), and 1925 (90 years old), respectively. Basins 1 and 2 consist of separate flocculation and sedimentation zones, whereas Basin 3 has no flocculation. A visit to the site revealed outer deterioration of the concrete, concrete joints and collection troughs. The troughs have holes in the bottom and cracks throughout Basins 1 and 2, allowing water to infiltrate the troughs below the weir structures – shown below.

Inoperable Weirs



The weir configuration of Basins 1 and 2 is divided in to 20 settling zones. While this provides added benefit to weir loading rates (WLR), it short circuits the hydraulic residence time (HRT) and surface loading rate (SLR) due to their proximity to the flocculation basins. While WLR is an important parameter, SLR and HRT tend to govern effective sedimentation. For this reason, Basins 1 and 2 are overloaded. The configuration of the weir cells makes it difficult to calculate actual HRT and SLR, thus calculations assume a conservative scenario of an open basin. TNAW continues to meet demands but with poor water quality coming from the basins. Thus TNAW is struggling to meet water quality during maximum day demands under all conditions, and average day demands with elevated raw water turbidities.

Concrete Testing:

Basin 2 concrete testing indicates competent concrete, with good compressive strengths ranging from 2,900 to 4,970 psi. From a safety perspective, Basin 2 is not considered a risk for collapse as Basin 1 is, and is a candidate for upgrades to improve settling. The basin is aged, however, and any anchoring that is required to should take this in to consideration if the tank is retro-fitted.

Water Quality Analysis:

With capacity from Basin 3A and 3B, Basin 1 is no longer necessary. This coincides well with the end of the Basin's useful life, as illustrated in Project A-3. Basin 2 will be necessary to provide sufficient capacity to meet reliable maximum day demand, while meeting water quality regulatory needs. Similarly, Basin 2 concrete testing has exhibited competent compressive

strengths. The ultimate build out of Basins 2 and 3 will augment the Plant 2 Aldrich units to meet maximum day demand under all conditions, as illustrated below.

Under current conditions, with Basins 1, 2 and 3 operating “as-is”, all three of the basins are overloaded. Basins 1 and 2 collection weirs are divided in to 20 separate settling zones, as shown below. The net effect of this is a decrease in overall loading capacity because the flocculated water does not have an opportunity to settle. Additionally, the concrete that makes up the troughs and weirs has deteriorated to the point that the collection troughs are leaking and quiescent weir settling is rendered useless. Without sufficient surface loading and residence time, water quality suffers tremendously. While this is difficult to quantify using standard treatment design criteria, TNAW production staff has based their production on water quality results. (Similarly, Basin 3 has no flocculation, restricting the flow through capacity to less than what could be attained).

Basins 1 and 2 Differentiated Settling Cells



Three pretreatment scenarios were run in order to assess settling basin parameters, assuming three plant demands: projected ADD @ 34.4 mgd, projected MDD @ 47.5 and current plant rated capacity @ 65 mgd. The scenarios include:

- Pretreatment Scenario 1 represents existing conditions,

- Pretreatment Scenario 2 includes upgrades to Basin 3 (plate settlers and flocculators),
- Pretreatment Scenario 3 adds to Scenario 2 by including Tube Settlers in Basin 2.

Pretreatment Scenario 1 (Existing Conditions):

- Basin 1 is off line,
- Basin 3 limited to 10 mgd (based on operations feedback),
- Plant 2 ADD=14 mgd and MDD=25 mgd.
- Basin 2 makes up the difference.

Results: - Results indicate overloading of all of the basins for the three parameters of Hydraulic Loading Rate (HRT), Surface Loading Rate (SRT) and Weir Loading Rate. Note that the basis for HRT and WRT are considerably over estimated, as both of these parameters are short circuited due to the unique geometry of the settling basins. The values presented below will be worse in actual practice. See **Table 1**.

Table 1 Basin 1 Out of Service - Basin 2 and 3 "As-Is"									
Unit Process (1)	Criteria Description	Theory	Capacity (mgd)			Vol (gal)	Area (ft ²)	Weir (ft)	Notes
			34.4	47.5	65				
Basin 2 Flocculation	HRT (min)	30	44	26	15	320,000			
Basin 3 Flocculation	HRT (min)	30	0	0	0				
Basin 2 Settling	SLR (gpm/sf)	0.5	0.7	1.2	2.1		10,000		
Basin 2 Settling (2)	WLR (gpm/lf)	10	4.0	6.7	11.6			1,800	20 cells @ 25 x 20'
Basin 2 Settling (3)	HRT (min)	240	166	99	58	1,200,000			125 x 80 x 15
Basin 3 Settling (4)	SLR (gpm/sf)	0.5	0.3	0.3	0.3		20,400		
Basin 3 Settling	WLR (gpm/lf)	10	57.8	57.8	57.8			120	160'
Basin 3 Settling	HRT (min)	240	317	317	317	2,200,000			170 x 120 x 14.5
Filtration	SLR (gpm/sf)	5	2.0	2.8	4.0		6,920		(30" GAC)

Pretreatment Scenario 2 (Basin 2 "As-Is" and Basin 3 with Plate Settlers):

- Basin 1 is off line,
- Basin 3 retrofitted for max 28 mgd,
- Plant 2 ADD=14 mgd and MDD=25 mgd.
- Basin 2 set to maintain SLR.

Results: - Results indicate continued overloading of all of Basin 2, however Basin 2 could sustain a low flow of roughly 7 mgd based on the calculations below. Again, the values presented below are conservative and actual flows that maintain good water quality should be confirmed with Operations. See **Table 2**.

Table 2 Basin 1 Out of Service - Basin 2 "As-Is" and Basin 3 with Plates									
Unit Process (1)	Criteria Description	Theory	Capacity (mgd)			Vol (gal)	Area (ft ²)	Weir (ft)	Notes
			34.4	47.5	65				
Basin 2 Flocculation	HRT (min)	30	66	66	38	320,000			
Basin 3 Flocculation	HRT (min)	30	78	51	38	730,000			
Basin 2 Settling	SLR (gpm/sf)	0.5	0.5	0.5	0.8		10,000		
Basin 2 Settling (2)	WLR (gpm/lf)	10	2.7	2.7	4.6			1,800	20 cells @ 25 x 20'
Basin 2 Settling (3)	HRT (min)	240	247	247	144	1,200,000			125 x 80 x 15
Basin 3 Settling (4)	Plate SLR (gpm/sf)	0.5	0.2	0.3	0.4		48,608		
Basin 3 Settling (5)	WLR (gpm/lf)	10	7.3	11.1	15.2			1,280	840
Filtration	SLR (gpm/sf)	5	3.5	4.8	6.5		6,920		(30" GAC)

Pretreatment Scenario 3 - (Basin 2 With Tube Settlers and Basin 3 with Plate Settlers):

- Basin 1 is off line,
- Basin 3 retrofitted for max 28 mgd,
- Plant 2 ADD=14 mgd and MDD=25 mgd.
- Basin 2 with tube settlers to increase capacity.

Results: - Results indicate that tube settlers in Basin 2 will increase the surface loading rate to allow up to 12 mgd through the Basin, as opposed to 7 mgd (or less). See **Table 3**.

Table 3 Basin 1 Out of Service - Basin 2 with Tube Settlers and Basin 3 with Plates									
Unit Process (1)	Criteria Description	Theory	Capacity (mgd)			Vol (gal)	Area (ft ²)	Weir (ft)	Notes
			34.4	47.5	65				
Basin 2 Flocculation	HRT (min)	30	72	42	38	320,000			
Basin 3 Flocculation	HRT (min)	30	75	64	38	730,000			
Basin 2 Settling (2)	SLR (gpm/sf)	2	1.1	1.9	2.1		4,000		
Basin 2 Settling (3)	WLR (gpm/lf)	10	5.6	9.6	10.4			800	
Basin 3 Settling (4)	Plate SLR (gpm/sf)	0.5	0.2	0.2	0.4		48,608		
Basin 3 Settling (5)	WLR (gpm/lf)	10	7.6	8.9	15.2			1,280	840
Filtration	SLR (gpm/sf)	5	3.5	4.8	6.5		6,920		(30" GAC)

Recommendation:

Plant capacity was assessed with and without tube settlers in Basin 2, assuming that Basin No. 3 would be outfitted with plate settlers (**Project A-1**). Each of those scenarios was further evaluated assuming the largest sed basin (3a) went out of service due to a mechanical failure such as the chain and flight sludge collectors. Results are shown below:

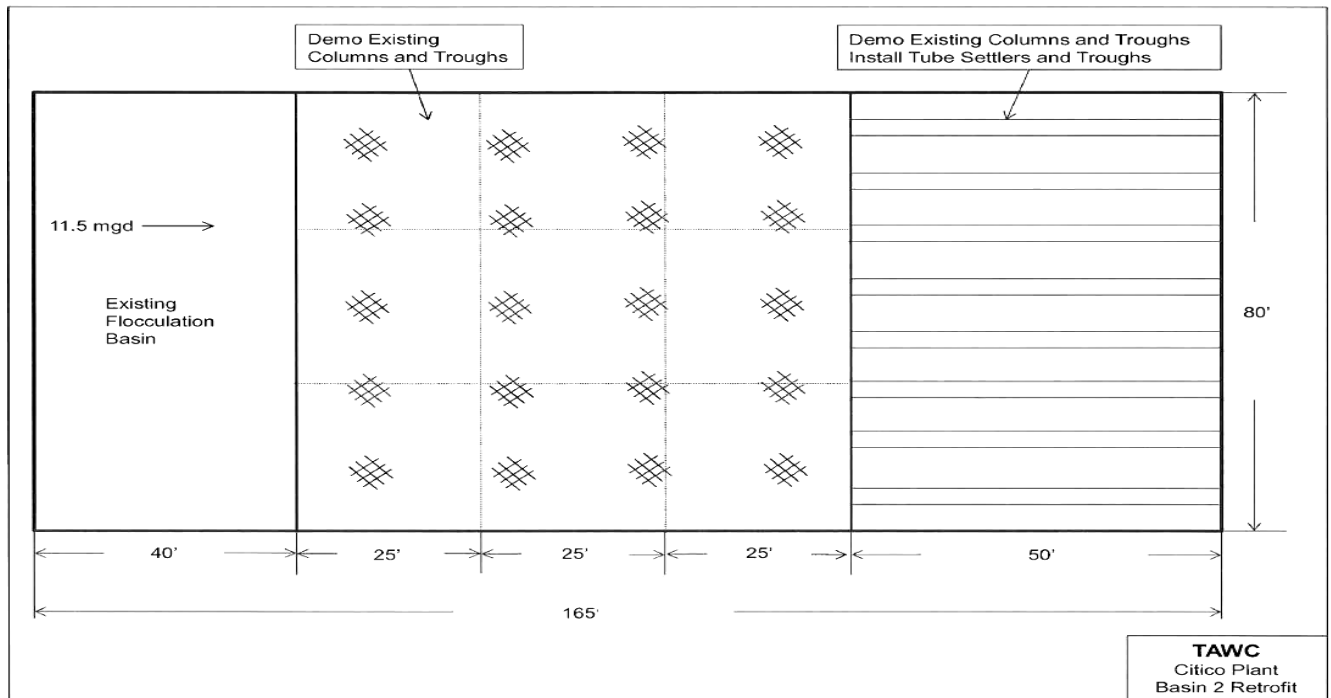
Location	No Tube Settlers	With Tube Settlers	No Tube Settlers and Basin 3a out of service	With Tube Settlers and Basin 3a out of service
Plant 2	25 mgd	25 mgd	25 mgd	25 mgd
Basin 2	7 mgd	11.5 mgd	7 mgd	11.5 mgd
*Basin 3	28 mgd	28 mgd	14 mgd	14 mgd
Total	60 mgd	64.5 mgd	46 mgd	50 mgd

*Assumes Rehabilitation of Basin 3 with plate settlers and flocculation.

Basin 2 without tube settlers indicates a maximum plant capacity of 60 mgd, which exceeds the projected max day of 47.5 mgd. If process train 3a were out of service, plant capacity would be reduced to 46 mgd. Both of these values change to 64.5 mgd and 50.5 mgd with tube settlers.

Though there are few moving parts in a sed basin, there is still the possibility that a basin may go down. Also, a Plant 2 capacity of 25 mgd may be optimistic. These factors, in conjunction with an overall environment of decreasing plant vulnerability, provide some basis for installing tube settlers. It is recommended that TNAW consider the option of installing tube settlers to address these issues. This should be fully evaluated once Basin 3 is on line with the plate settler and flocculation improvements. A sketch of the preliminary estimate of dimensions needed for the improvement is shown below.

Basin 2 Tube Settler Retrofit



Output and Benefits:

The project will not only provide improved water quality, but will also provide redundancy and reliability to the Citico plant. The recommendation of taking Basin 1 off line also has the unintended impact of removing a basin that provides redundancy and reliability.

Options:

TNAW currently overloads the filters with a reactionary approach to overdosing filter aid to elevated applied water turbidities. While TNAW has been able to meet demands, this is a risky approach and also precludes them from meeting EPA's Partnership goals. This is exacerbated with the limited amount of flocculation and settling in Basins 1 and 2 as well. Additionally, Basin 1 currently presents a safety issue and is recommended for abandonment. With Basin 1 off line, maximum day demands would not be met.

Risks:

There is risk to not meeting finished water quality as well as limited reliability.

Budget Discussion:

The budget for this project includes materials and labor to demolish existing columns and troughs in Basin No. 2 and install new tube settlers and sludge collection equipment in the downstream 50 feet of the basin. The tubes would be anchored in to the existing concrete.

Costs:

The cost of the project is estimated to be approximately \$3,300,000. A detailed cost estimate is included in **Appendix B**.

Purpose Codes and Drivers:

Asset Code	Purpose Code
320 – Water Treatment Plant Equip	Rel/Qual improved technology

**TENNESSEE AMERICAN WATER
CITICO PLANT**

Project A-2	
RETIRE BASIN 1 AND FILTER BUILDING 3	
Design and Permitting: 3 months Construction: 6 Months	Project Cost: \$1,800,000

Need for Project:

Sedimentation basins 1, 2 and 3 are old and deteriorating, as is Filter Building #3. Concrete testing was performed at Plant 1, on Sedimentation Basins 1 and 2. Testing indicated that Basin 2 samples exhibited sufficient compressive strengths to maintain service. Samples from Basin 1 indicated extremely compromised concrete, representing a safety risk to personnel.

Background:

Sedimentation Basin Nos. 1, 2 and 3 were constructed in 1892 (122 years old), 1912 (102 years old), and 1925 (89 years old), respectively. Basins 1 and 2 consist of separate flocculation and sedimentation zones, whereas Basin 3 has no flocculation. A visit to the site revealed outer deterioration of the concrete, concrete joints and collection troughs, exhibiting overall poor concrete quality. The troughs have holes in the bottom and cracks throughout Basins 1 and 2, allowing water to infiltrate the troughs below the weir structures – shown below.

Leaking Collection Trough	Deteriorated Concrete and Joints
	

Concrete samples were taken from Basins 1 and 2. Of the nine core samples obtained from Basin 1 in 2010 (SM&E, 2010), seven of them simply fell apart and were soft enough to be pulverized by hand. The two samples that were able to be tested indicated compressive strengths of approximately 1,000 psi, whereas 28 day cure compressive strengths are typically specified to be equal to or greater than 4,000 psi. The exhibit below indicates a typical sample obtained from Basin 1.

Typical Basin 1 Core Sample



After review of the results, the original plans to retrofit Basin 1 were altered due to the lack of base concrete competency required to attach structures to. Furthermore, the consultant leading the design advised TNAW to immediately fill the basin with water to maintain lateral pressure, and advised TNAW to keep heavy machinery away from Basin 1 (CDM, 2010).

The core samples collected from Basin 2 were in better condition than the cores collected from Basin 1 (S&ME, 2013). Testable samples were obtained from each core location and weathering was only observed at the surface of the concrete. The compressive strength testing yielded results ranging from 2,900 to 4,970 psi. The lowest result was recorded from a sample which was taken from a crack on the north wall of the basin, which was later sealed under the direction of AW BSE (AW BSE Memo from Javier Jimenez, June 2013).

Typical Basin 2 Core Sample



Inspection of Basin 3 indicated cracking walls in the northwest corner. Temporary bracing was installed. Long term improvements that have been recommended for Basin 3 include reinforcing the existing concrete walls and installing a separate structure within the basin. As reinforcements were already considered for Basin 3 (discussed below), and because Basin 3 is the younger of the three, Basin 3 is of less concern.

Filter Building #3 was constructed during the overall construction of Plant 1, between 1913 and 1941. Similar to Basin 1, Filter Building #3 is also deteriorating. Visual inspections indicated several areas where concrete was deteriorated and the roof had either collapsed or the roofing membrane was sagging in to the building.

Filter Building No. 3 Exposed Roof and Filter Structures



Filter Building No. 3 Sagging Roof Membrane



Recommended Solution:

Basin 1 concrete testing results indicated considerably low compressive strengths in two of the nine samples obtained. The remaining seven samples were unable to be tested as the concrete was too weak to maintain integrity in the core. Based on these results, Basin 1 is considered a potential hazard and should be removed from service. Assuming Basin 3 is rehabilitated with plate settlers and flocculation as planned, adequate settling can be provided without Basin 1 under all anticipated flow conditions, and Basin 1 can be retired.

Basin 2 concrete testing indicates competent concrete, with good compressive strengths ranging from 2,900 to 4,970 psi. From a safety perspective, Basin 2 is not considered a risk for collapse and is a candidate for upgrades to improve settling.

Filter Building No. 3 exhibits significant signs of deterioration and may be a safety risk. It is an unused asset and should be considered for retirement. Filter Building No. 3 is also a consideration for locating a potential chlorine generation facility. While demolition equipment is on site for Basin 1, an economy of scale will help reduce overall costs by addressing Filter Building No. 3 at the same time.

Output and Benefits:

The primary benefit of retiring Basin 1 is safety related. The Basin currently poses a potential safety risk. Also, by eliminating Basin 1 relying more on the renovated Basin 3 for prefiltration treatment, settled water quality will improve. By retiring Basin 1, significant capital costs for basin renovation are avoided. Filter Building No. 3 is an unutilized asset and could also be a potential safety risk. The building is current exposed to the environment with holes in the roof and membrane sagging through the roof.

Options:

If Basin 1 were to provide value to the enhancement of the Citico plant, an option would be to demolish the current concrete and re-form new walls. In addition to this being an expensive proposition, Basin 1 is not needed due to added settling capacity provided by Basin 2 and 3 renovations, as well as diminishing demands in the Chattanooga system.

An option for Filter Building No. 3 would be to include it as part of the overall chlorine project.

Budget Discussion:

A detailed cost estimate is included in **Appendix B**.

Risks:

If this project is not completed, there is a potential safety risk associated with the failure of Basin 1. Retirement of Basin 1 should proceed with caution, particularly when the Basin is dewatered. Lateral hydrostatic pressure from groundwater will act as an inward force exerting pressure toward the basin. It is recommended that this risk be considered during construction and measures incorporated to account for the risk.

Similarly, Filter Building No. 3 is old with questionable integrity.

Purpose Codes and Drivers:

Asset Code	Purpose Code
320 – Water Treatment Plant Equip	Asset Renewal poor condition

TENNESSEE AMERICAN WATER
CITICO PLANT

Project A-3	
ELECTRICAL – BREAKERS AND RELAYS	
Design and Permitting: 3 months Construction: 3 Months	Project Cost: \$600,000

Need for Project:

The plant's medium and low voltage electrical equipment was provided when the plant was constructed, approximately 50 years ago. Based on industry standards associated with this type of equipment, it is considered at (or past) its "end of useful life". Old equipment also poses a safety hazard, particularly breakers and/or relays that have not been tested for viability and/or maintained. This is the case with some of the protective relays and other areas within the switchgear. Namely, the breakers and relays are aged and are recommended for replacement.

This recommendation is the first of three recommendations for electrical upgrades and is based primarily on safety issues.

Background:

The following background is a summary of a site visit by AWBSE's electrical engineer on August 6, 2014. The summary may also be referenced as part of electrical improvement project B-3 (Motor Controllers) and B-4 (New Switchgear). The electrical site visit memorandum is included as Appendix D.

Medium and Low Voltage Electrical Equipment - From the utility substation, each of the two 2.4 KV services terminates in the existing General Electric (GE) switchgear / motor control lineup located in the High Service Pump Station. This equipment is arranged to provide Main-Tie-Main power for the facility allowing limited operation intent in the event of a single utility outage. The 2.4 KV switchgear assembly, while aged, has been maintained by the plant staff and is in good condition. There is risk, however, with obsolescence and availability of parts.

A physical (internal) inspection was not performed during AWBSE's site visit. A more thorough investigation and documentation of the existing assemblies should be conducted if considerations for retrofit / retro-build type equipment are to be considered. Much of this inspection can be accomplished by the facility in conjunction with AW Maintenance Services in

order to ascertain specific documentation on the equipment, modifications and condition of this lineup.

While replacement of this aged equipment is an option, there may be some other alternatives available to provide a renewed installation using the existing structure and bus work. This would include replacing / retrofitting these circuit breaker and starter sections with new components, protective relaying and metering and controls. (Other options along with the advantages and disadvantages to each will also be addressed).

Motor Control Assembly - The Main-Tie-Main configuration includes automatic transfer of power from one source to the other in the event of a utility power outage. It is set up for manual re-transfer of power back to the open tie by plant personnel after it is confirmed the utility is stable. It permits motors to come to a stop before transferring - avoiding significant damage to equipment if out-of-phase transfer was permitted. The electrical transfer controls are not configured to allow the system to synchronize before transferring power, nor do they include programmed time delays to otherwise prevent the transfer operation. This poses a potential significant risk to the facility and life-safety issues to personnel if inadvertently operated.

The Main Circuit Breakers include the use of GE electromechanical type Over-Current Protective ("OCP") Relays along with similar type KW/KWH monitoring relays for indicating power usage. These original relays and meters require routine service, testing and calibration. The OCP relays are critical as they control (trip) the Main circuit breakers in the event of a fault or overload in the switchgear. There was no indication of any actual testing or calibration to these devices and plant staff was unaware if any actual testing has been conducted. These devices need to be tested for proper operation and the settings verified for protective coordination with the other OCP devices (fuses, etc.) and Utility devices. If these devices are not set properly, significant risk to equipment and workers exists.

The motor protective relays associated with this equipment lineup are GE/Multilin type, Model 469 Motor Protective Relays (MMR) units for motor controller operation (over-current, phase loss, etc.). It is our understanding as well that these relays have not been checked for calibration and motor protective alarm & tripping functions, or included in the facility's preventative maintenance and testing program. As above, this poses a risk to the equipment, operations and the safety of personnel.

Power Distribution for Motor Loads - The balance of this switchgear assembly provides power distribution for the motor loads and station facility power as follows:

Right-hand Side of the “Ridgedale Main” Lineup - This portion of the switchboard assembly provides service / feeders to the following;

- High Service Pump #20 (250 HP)
- High Service Pump #16 (600 HP)
- High Service Pump #21 (600 HP)
- Low Service Pump #22 (600HP)
- Low Service Pump #12 (500 HP) via the GE Limitamp fusible lineup at the left-hand side of this existing switchgear
- Station Power via 2300 – 480/277 VAC Transformer (150 KVA) - This same fuse / switch also now serves the Thickened Sludge Transfer PS via the 112.5 KVA transformer located at the new dewatering facility.

Between the Riverside “Main” and the Tie

- High Service Pump #11 (900 HP) (Note - this is identified as Pump #20 on oneline and requires clarification).

Left-hand Side of the “Riverside Main” Lineup - This portion of the switchboard assembly provides service / feeders to the following;

- High Service Pump #17 (600HP)
- High Service Pump #18 (400 HP)
- High Service Pump #19 (400 HP)
- Low Service Pump #14 (600 HP)
- Low Service Pump #15 (600 HP)

Individual Fused Tap on the Back of the Switchgear

- Low Service Pump #20 ** (400 HP) (Note - This is identified as Pump #13 on oneline and requires clarification).

Medium Voltage Limitlamp Switchgear – This lineup is comprised of three individual switches. Two of these units are non-fused load-break assemblies; the other is presumed to be a fusible switch based on the drawing information. During the site visit, AWBSE was unable to open this unit for physical verification since it serves the building low voltage power transformer and the new Thickened Sludge Transfer System. It should be noted that they do not serve as motor controllers; they are sub-distribution devices to serve the transformers associated with power distribution along with the individually mounted VFD and Starter assemblies outlined.

Medium Voltage Motor Controllers in the current configuration are GE Limitamp type; comprised of a fusible switch and vacuum contactor units controlled by the Multilin 469 MMR relay for each

High Service and Low Service Pump. Additionally, HSP#11 (900 HP) utilizes a Reduced Voltage Reactor Starter configuration to limit the starting current associated with this larger motor. The controls associated with this assembly are similar (Multilin 469 MMR) for motor protection, but also include additional internal controls for the switching of the auto start to run contactors in this motor controller. These units are still produced today using updated technologies similar to previous equipment. These starter / motor controllers utilize a fused isolation switch and vacuum contactor with solid-state controls and protective relay devices such as the Multilin MMR's presently provided in this existing assembly. The physical arrangement provided by the present medium voltage system places three of the Low Lift Pumps (LLP#13 & #15) on the Riverside service and two (LLP#12 & #22) on the Ridgedale service. Those LLP's supplied at 480 VAC are supplied via the GE Limit amp fusible switches and sub-distribution transformers associated with the drives and starters. All of the High Service Pumps are directly served from this main switchgear assembly.

Low Voltage Station Power (240 VAC) - This is provided through a 150 KVA 2.4 KV, 3-phase, ungrounded delta – 240 VAC, 3-phase, ungrounded delta transformer supplied from a fusible switch in this MV Switchgear. Service from this transformer terminates in a 600 A Main Circuit Breaker and Sub-Distribution Panelboard which then provides the various low voltage feeders to other buildings and equipment throughout the facility.

General Concerns -

- Continuing reliance on the existing GE Main-tie-Main circuit breakers pose some risks to the facility in the event of a single failure, including protective relay operation, racking and alignment and/or drive motor operation, and circuit breaker components (contacts, coils, etc. and the availability of replacement parts).
- The risk to the facility under a failure scenario may vary from several hours for replacement work to days (or weeks) to find major elements and make repairs. In the event of a catastrophic failure or one of these Main devices, significant damage could also severely damage the entire main distribution switchgear assembly. While this extreme level of damage is remote, it is possible given the overall age of the equipment.
- The electromechanical protective relays associated with the switchgear do not appear to have been tested and calibrated. While these relays are generally considered to be highly reliable, they require periodic maintenance. If these malfunction, significant damage to the switchgear, cabling and the served equipment can result.

- Similarly, the Multilin medium voltage motor protective relays need to be tested and calibrated on a routine maintenance schedule. Should any of these devices fail or malfunction; motor damage as well as damage to the motor controller / contactor assembly could result. With the exception of HSP #11 (or #20), these are full-voltage, non-reversing (FVNR) type assemblies. These protective relays should be tested and calibrated along with conducting routine testing of the contactors and other components. Since the starter associated with HSP #11 (900 HP) is a reduced voltage, reactor start type of assembly, there are more components involved which increases the potential risk of failure to this controller assembly.
- The facility's 240 VAC station power is served from the Riverside source and is totally dependent on the use of the "Tie" breaker to restore power in the event of a similar interruption of power. The loss of general 120/240 VAC power would likely result in loss of ancillary systems, most likely causing a potential shut-down of the facility, or possible notice of violation ("NOV").

Recommendation:

It is recommended that the existing Magna-Blast breakers (Main-Tie-Main) be replaced with new GE Power/Vac Vertical Lift (VL) breakers allowing the existing switchgear to remain. Additionally, the old electro-mechanical relaying should also be replaced with new electronic type units as provided by SEL (AW Preferred Manufacturer) for the specific operation and control interface. These protective relays and power quality metering devices should be provided with communications cards for tie-in to the facility's SCADA system. Cards are available for fiber-optic as well as CAT6 copper communications (fiber-optic is preferred to eliminate any possibility of stray current or voltage being introduced to the SCADA equipment interface).

Output and Benefits:

The project addresses a potential safety issue, as the electrical equipment is old and much of the equipment has not been tested. This is especially true with the breakers and protective relays, which are addressed in this project.

Options:

The option is to do nothing and continue as-is, however the risk of substantial damage to the electrical gear increases with time.

Budget Discussion:

The cost for Recommendation #1 is estimated to be \$600,000. A detailed cost estimate is included in **Appendix B**.

Risks:

There is also a risk to TNAW with not testing and maintaining trips and relays. If they are not set or maintained properly, an overload of the power distribution system could be dangerous to personnel.

Purpose Codes and Drivers:

Asset Code	Purpose Code
310 – Power Generation Equipment	Asset Renewal poor condition

**TENNESSEE AMERICAN WATER
CITICO PLANT**

Project A-4	
CHLORINE GAS CONVERSION	
Design and Permitting: 12 months	
Construction: 18 Months	Project Cost: \$6,800,000

Need for Project:

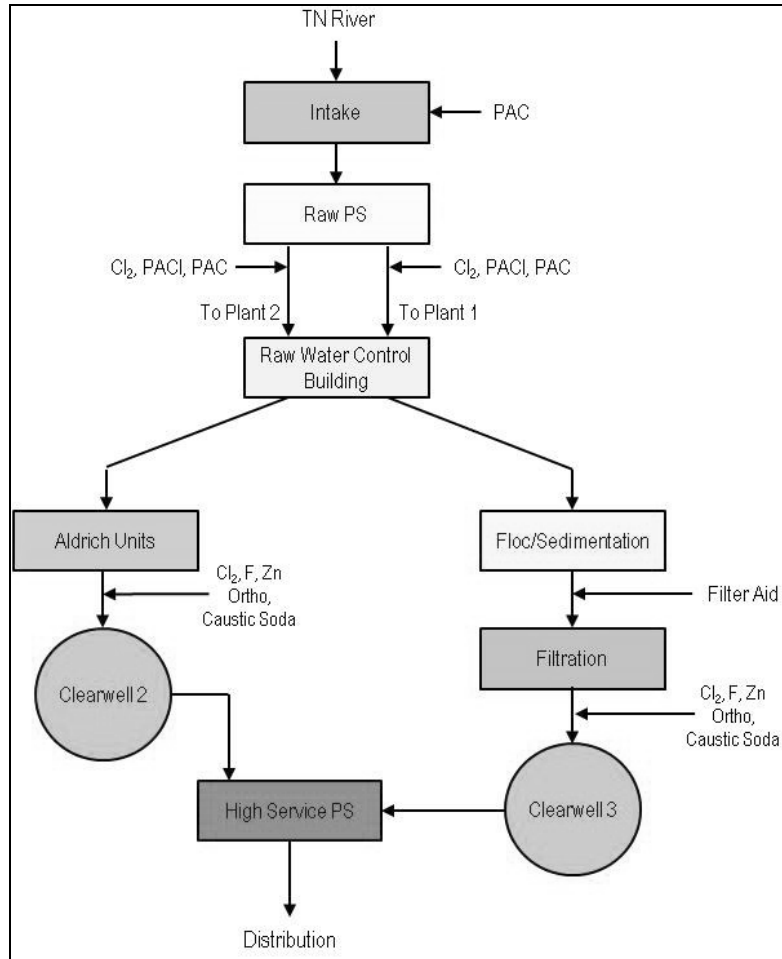
TNAW currently utilizes chlorine gas for pre and post chlorination. Chlorine gas poses a safety risk, which is increased in an urban setting such as the Citico plant. A hospital abuts the property, increasing the risk from a potential failure of the chlorine gas system. The scrubber is also old and nearing the end of its useful life.

Background:

TNAW has used gas chlorine for disinfection since inception of the plant. The chlorine system utilizes one-ton cylinders. Liquid chlorine flows under pressure to an evaporator where it is superheated and vacuum fed to chlorinators. The chlorine cylinders are stored in a separate, vented room adjacent to the evaporators and chlorinators, both located in the basement of the chemical building. The chlorine scrubber located outside of the chlorine storage building was installed in 1988. Pre chlorine is fed at a concentration of approximately 2 and 3 ppm at the raw water control building for Plants 1 and 2. Post chlorine is fed at roughly the same rate at the Aldrich units in Plant 2 and at the filters in Plant 1. Application points are shown schematically below.

TNAW currently has the appropriate safety procedures in place, including a negatively pressured chlorine room with audible alarm and a chlorine scrubber to remove chlorine gas from the storage room. These backup measures are intended to mitigate the consequences of a possible cylinder rupture or chlorine leak. In the event that one or more of these measures fail, TNAW personnel are at risk, as well as personnel and patients in the abutting hospital and public, in general. A review of TNAW's chlorine use indicates an average use of approximately 1,000 lbs/day and a maximum use of roughly 2,000 lbs/day. A schematic of the current feed system is shown below on **Exhibit 1**.

**Exhibit 1
Current Chlorine Feed Schematic**



Recommended Solution:

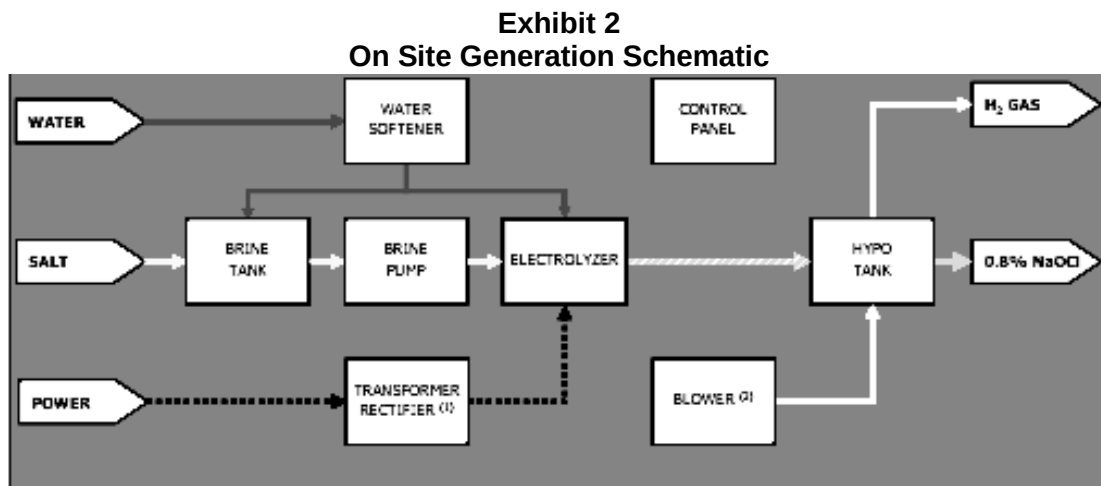
Bulk delivery of sodium hypochlorite (NaOCl) and on site generation of NaOCl were evaluated as potential alternatives to gaseous chlorine. Based on the supporting material discussed below, on site generation of sodium hypochlorite is recommended.

Bulk Delivery of Sodium Hypochlorite - Sodium hypochlorite, also referred to as liquid bleach, is typically available at concentrations of 10-12%. The strength of a bleach solution is commonly expressed in terms of its "trade percent" or "percent by volume," not its weight percent: 15 trade percent hypochlorite is only 12.4 weight percent hypochlorite. NaOCl is delivered in bulk liquid form and requires a bulk storage tank and day tank. It is safer to transport and store than gaseous chlorine due to its dilute, liquid form. It is not under pressure and therefore does not have the same potential to rupture as chlorine gas does.

The stability of hypochlorite solutions is adversely affected by heat, light, pH, and metal contamination, however. The rate of decomposition of 10% and 15% solutions nearly doubles with every 10°F rise in the storage temperature. Sunlight reduces the half-life of a 10% -15% hypochlorite solution by a factor of 3 to 5. If the pH of a stored solution drops below 11, decomposition is more rapid. As little as 0.5 ppm of iron causes rapid deterioration of 10-15% solutions. The addition of concentrated ferric chloride to a tank of sodium hypochlorite causes the rapid generation of chlorine gas. Deterioration thus makes it difficult to track the actual chlorine concentration and flow pace with changes in water delivery. Ultimately, TNAW may be paying for chlorine that is lost due to degradation.

Normal industrial grades of sodium hypochlorite may be fed neat or diluted with low-hardness water. The use of high-hardness waters for dilution can cause precipitation of calcium salts due to the high pH of the hypochlorite solution. Approximately 1 gal of industrial strength sodium hypochlorite is required to replace 1 lb of gaseous chlorine. Assuming an average day of 1,000 lbs of gaseous chlorine, this would equate to roughly 1,000 gallons per day. Based on the degradation potential, the volume of storage required would try to be minimized. While 15 days of storage would require approximately 15,000 gallons of storage, this should be balanced with the proximity and ease of delivery in order to minimize storage time.

On Site Generation – On site generation systems generate a 0.8% NaOCl solution using three common consumables: salt, water and electricity. A typical schematic for on-site generation is shown below on **Exhibit 2**.



Similar to bulk delivery of NaOCl, on site generation is a proven alternative disinfection treatment method. On-site generated sodium hypochlorite is stable and easy to feed, and less chlorine is lost to the atmosphere because of better mixing and retention in the treated water.

On site generation is most often generated with pre-packaged equipment that can produce a broad range of chlorine from less than 10 lbs/day to as high as 1500 lbs/day, depending on the unit. The benefits of onsite generation are listed below:

- Effective Disinfection, minimize health risks (as in all chlorination).
- No risk potential caused by gaseous chlorine.
- No handling of dangerous chemicals.
- Economic production based on actual demand.
- Hypochlorite produced at a definite concentration (always available).
- Economic off-peak production of bleach possible (Electrical Costs).
- Concentration of available chlorine is low (0.7 to 0.9%) compared to commercial bleach (12-15%), resulting in minimized decomposition of chlorine in feed stock.
- Storage of low quantity of bleach for one – two day capacity.
- On Site Generation systems can produce hypochlorite at a cost that is significantly lower than purchased 12-15% hypochlorite.

Storage is based on the ratio of one pound of chlorine equal to 15 gallons of 0.8% hypochlorite solution. One day of storage would equate to approximately 15,000 gallons of NaOCl storage for one average day at the equivalent 1,000 lbs/day chlorine.

Cost Analysis - The cost comparison between OSEC and bulk hypochlorite storage has three primary components:

- 1) Capital Cost of Equipment
 - 2) Capital Cost of a New Building and Supporting Infrastructure
 - 3) Operation and Maintenance (O&M) cost
- Capital Cost of Equipment – The equipment requirement for OSEC is more intensive than those for bulk storage. While both options require pumping, storage and piping, OSEC requires equipment to generate the brine that is used to produce the hypochlorite, as shown above in Exhibit 2. An estimated equipment list (obtained from a *Parkson quotation developed for TNAW) for OSEC includes:

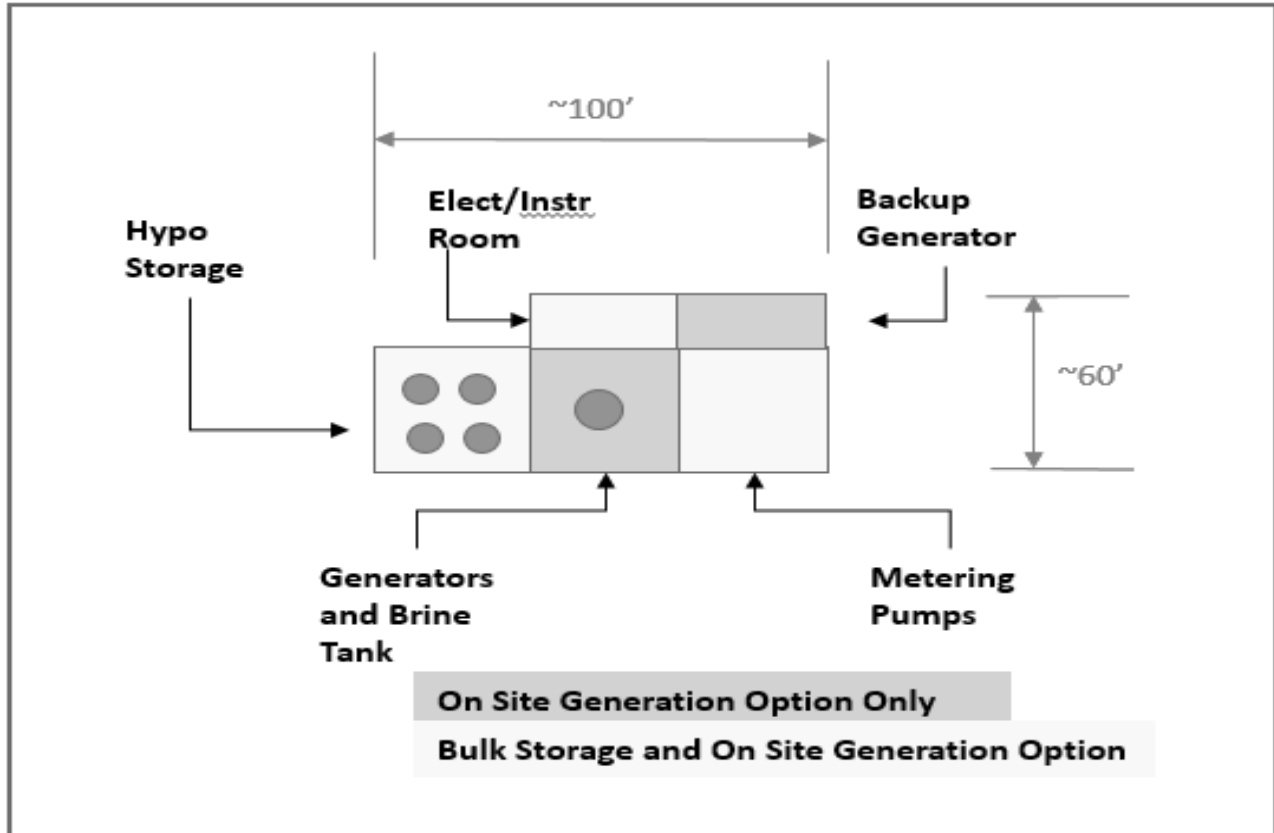
*Parkson Quote for TNAW System at 1,000 lbs/cl-day

- Three (3) MaximOS™ LM-1000 Mixed Oxidant Generator (\$1,050,000).

- Total Capacity: 3,000
- Generator Capacity: 1,000 PPD FAC each
- Salt consumption (max.): 3 kW-hr/lb FAC each
- Energy consumption (max.): 3 lb salt/lb FAC each
- FAC Concentration: 4,500 mg/L (+/- 1,000)
- Allen Bradley Micro Logix 1400 PLC with 6" Panel.
- Four (4) 20 in Wall mounted cartridges.
- One (1) Kinetico Hydrus HS330s, non-electric automatic water softening system
- Two (2) Water Boost Pump(s).
- Two (2) Brine Boost pump(s).
- Two (2) Internal Liquid Barrier Hydrogen Vent Systems.
- One (1) 52 Ton Brine Generator.
- Two (2) 6,500 gallon NaOCl tanks.
- One (1) NaOCl Dilution Panel

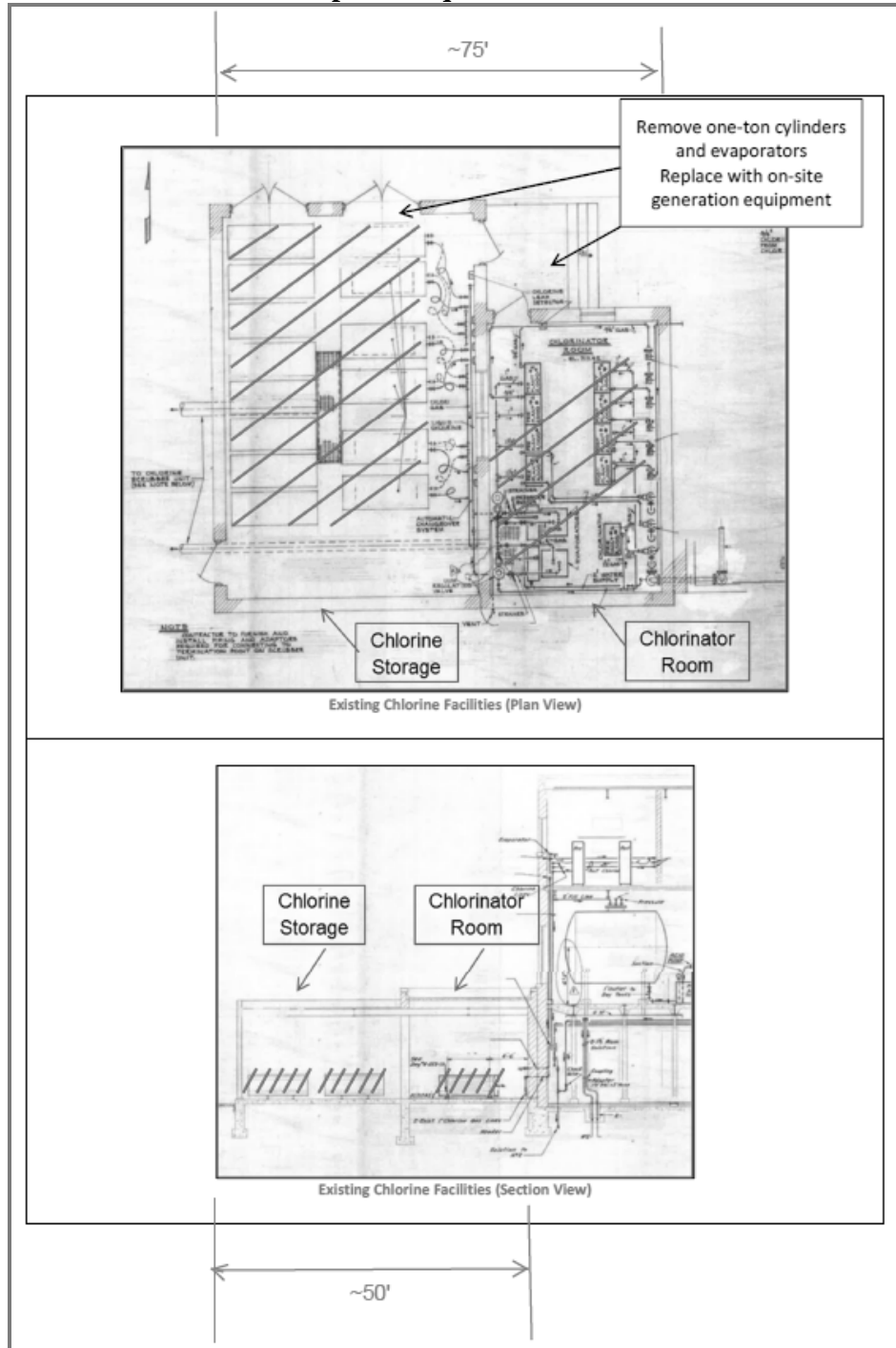
Capital Cost of a New Building and Supporting Structure – The space requirements for both OSEC and bulk storage are substantially more than the current gaseous chlorine arrangement. For a planning level estimate, approximately 5,000 square feet is assumed for OSEC and roughly 4,000 square feet for bulk storage, as shown below in **Exhibit 3**.

Exhibit 3
Estimated Space Requirement for OSEC and Bulk Hypo



The current square footage for the gaseous chlorine is estimated to be between 3,500 and 4,000 square feet, illustrated in **Exhibit 4**. It is possible that the current space could physically support either the onsite option or the bulk storage option, however the gaseous chlorine would need to be operational at all times. It is also possible that the abutting building which houses the fluoride and chlorine scrubber could be utilized for temporary storage, however the space is small and the scrubber would also need to be in operation at all times. Given the challenge with keeping the plant operational, and the limited available space, the most feasible option is the construction of a new facility. A high level planning cost estimate assumes that the Filter Building No. 3 would be demolished and replaced in part with a new chlorine storage facility.

Exhibit 4 **Estimated Current Space Requirement for Gaseous Chlorine**



- Operation and Maintenance Cost – O&M costs for both the OSEC option and the bulk storage option will also exceed that of the gaseous chlorine. The bulk storage of hypochlorite will require constant filling and the generation alternative has

additional electricity and power requirements. On site generation also requires occasional anode replacement.

A ten year life cycle cost was conducted for bulk hypo storage, chlorine gas and on site generation was estimated using the capital cost above and adding in AFUDC, engineering and contingency. The cost estimate is a high level planning estimate and assumes a new facility would need to be constructed. Due to the space and topographical constraints in the vicinity of the current chlorine building, the new facility is assumed to be built where Filter Building No. 3 is currently situated. The estimate includes demolition of Filter Building No. 3 and construction of a 5,000 square foot building for onsite generation, and the construction of a 4,000 foot building for bulk hypo storage. The equipment assumptions used for the ten year Life Cycle Cost Comparison are shown below in **Table 1** and the results are shown in **Table 2**.

Table 1
Ten Year Life Cycle Cost Assumptions

On Site Generation	Bulk NaOCl
1. Application Data Daily Chlorine Demand Chlorination Days per Year 2. Economic Evaluation Data Interest Rate Evaluation Period Inflation Rate Cost of Power Cost of Salt Cost of Labor 3. System Data Investment Electrolyzer Power Consumption Electrolyzer Salt Consumption Equipment Power Consumption Pumps Blowers Heaters Chillers 4. Maintenance Data Anode Replacement Frequency Anode Replacement Cost Acid Cleaning Frequency Acid Cleaning Cost Pump & Blower Maint. Freq. Pump & Blower Maint. Cost Fittings & Valves Replacement Fittings & Valves Rep. Cost Maintenance Hrs Required	1. Application Data Daily Chlorine Demand Chlorination Days per Year 2. Economic Evaluation Data Interest Rate Evaluation Period Inflation Rate Cost of Power Cost of Hypochlorite Cost of Labor 3. System Data Investment Available Chlorine in Hypo Hypo Specific Gravity Equipment Power Consumption Pumps 4. Maintenance Data Pump Maintenance Freq. Pump Maintenance Cost Fittings & Valves Replacement Fittings & Valves Rep. Cost Maintenance Hrs Required

Table 2
Capital Cost and Ten Year Life Cycle Cost Comparison

Option	Estimated Capital Cost	O&M Cost	Life Cycle Cost
On-Site Sodium Hypochlorite Generation	\$6,800,000	\$364,000	\$9,480,000
Bulk Sodium Hypochlorite Storage and Feed	\$5,500,000	\$619,000	\$10,050,000
Chlorine Gas Storage and Feed	\$0	\$200,000	\$1,500,000

(1)The ten year payback analysis included the following parameters, and assumed a power cost of \$0.09/kwh.

(2) The cost analysis does not include the cost for demolishing Filter Building No. 3. It is assumed that will be done as a separate project.

As illustrated in Table 2, the capital cost difference between the two technologies favors bulk storage, however the life cycle cost over a ten year period slightly favors on site generation. Over time (assuming the cost of electricity does not fluctuate significantly) the O&M cost for bulk storage will add up. In fact, over a 20 year period the same life cycle analysis indicates a 18% premium for bulk storage, illustrated below in **Table 3**.

Table 3
Capital Cost and Twenty Year Life Cycle Cost Comparison

Option	Estimated Capital Cost	O&M Cost	Life Cycle Cost
On-Site Sodium Hypochlorite Generation	\$6,800,000	\$408,000	\$11,480,000
Bulk Sodium Hypochlorite Storage and Feed	\$5,500,000	\$695,000	\$13,470,000
Chlorine Gas Storage and Feed	\$0	\$230,000	\$2,620,000

Output and Benefits:

The advantages and disadvantages of on-site generation versus bulk delivery are discussed above. Assuming electrical upgrades will be necessary for on-site generation, the ten year payback is roughly the same for the two technologies. The benefit to either of these options is the removal of the potential risk of a chlorine leak in a major metropolitan area with an abutting

hospital. On site generation provides the added benefit of reliability of concentration over time. The potential degradation of bulk hypo chlorite will ultimately add to the cost by requiring additional dosage. Thus on site generation is the recommended alternative.

Options:

The discussion above outlines the two disinfection alternatives of bulk hypo storage and on site chlorination. From strictly an economic perspective, gaseous chlorine remains the best alternative by a significant margin, and that is still an option. A diligent maintenance program for the scrubber and emergency response could mitigate the safety issue with the nearby hospital.

Risks:

The risk to implementing the project is an overall lack of preparation for the scope of the project, and also the need for sequencing during construction. The project is large in scope and a thorough conceptual design level estimate should be conducted. The assumptions and estimates provided here are planning level with unknowns.

Budget Discussion:

A ten year life cycle analysis was conducted for NaOCl on site generation, NaOCl bulk storage, and the current gaseous chlorine system. Based on economics alone the existing gaseous chlorine delivery system is significantly less expensive from a capital and operational cost perspective. If the analysis were purely economical, the cost for maintaining the current system is substantially more attractive. Taking the potential risk factor of the nearby hospital in to account, however, on site generation is more cost effective than bulk storage over time. A detailed cost estimate is included in **Appendix B**.

Purpose Codes and Drivers:

Asset Code	Purpose Code
320 – Water Treatment Plant Equip	Asset Renewal Proactive measure

**TENNESSEE AMERICAN WATER
CITICO PLANT**

Project A-5	
PUMPING AUXILIARY POWER	
Design and Permitting: 6 months Construction: 12 Months	Project Cost: \$1,400,000

Need for Project:

Though there is a dual power feed coming in to the plant, the raw and finished water pumps do not currently have an on-site auxiliary power source. In the event of a widespread power outage of extended duration, much of the service area would lose water service, potentially impacting over 75,000 customers.

Assuming the system's average day demand must be met, it appears that a 2MW generator would be required to sustain average day demand with new raw water pumps.

Background:

The Citico WTP does not have backup power for raw or finished water pumping. There are three generators on site for other processes, however, including the following:

- North of Filter House 2 (operates all of the process in both Filter Plants, including the Aldrich units and the conventional filters),
- In the Foyer of the Pump Station,
- Portable (located under the overpass).

There is some backup power due to the redundancy of the dual electric feeds coming in the facility, though there is still the possibility that both of these might go down. A backup generator would provide the capability to maintain uninterruptable power to the raw and finished water pumps in the event of a major power outage.

Recommended Solution:

In order to meet average day demands, it is assumed that auxiliary power supply should be capable of powering two raw water pumps and four finished water pumps. The summation of horsepower required to meet this demand is shown below.

	Pump	Capacity	HP	KW	
Raw Water	14	19	600	447	
	15	25	600	447	
Sub - Total:		44	1200	894	
Finished Water	11	20.5	900	671	
	16	13	600	447	
	17	13	600	447	
	20	5.6	250	186	
Sub - Total:		52.1	850	633	
TOTAL:				1527	Say 2MW

A new 2MW generator is recommended. A generator of this size requires a large footprint, which is currently not available in close proximity to the pump building. If a new pump station is constructed, the generator should be located in close proximity to the new pump station. If a new pump station is not constructed, a location near the building will need to be further assessed. The cost for large diameter electric cable is high and can add significantly to the overall cost the further the generator is located from the pump switchgear.

Output and Benefits:

The generator will provide backup power to TNAW's Citico WTP plant which will significantly improve system reliability for average day demand.

Options:

An option is to do nothing and continue to rely on the dual feed coming in to the Citico WTP. In the event of a large scale outage, however, both feeds have the potential of being out of commission, resulting in a loss of all pumping at the Citico plant.

Risks:

The lack of backup power, in combination with one of the dual feeds going down, would result in the plant shutting down due to lack of pumping.

Budget Discussion:

A 2MW backup generator is recommended for the Citico WTP. The acquisition cost for a generator this size can range from \$300,000 to \$400,000. In addition to the acquisition cost, there are additional costs, including a transfer switch, cable, pad and enclosure, which can consume the majority of the overall cost. A detailed cost estimate is included in **Appendix B**.

Purpose Codes and Drivers:

Asset Code	Purpose Code
310 – Power Generation Equipment	Rel/Qual backup or standby

**TENNESSEE AMERICAN WATER
CITICO PLANT**

Project A-6	
SYSTEM INTERCONNECTIONS AND CHICKAMAUGA RESERVOIR PUMP STATION / PIPING	
Stakeholder process: 12 months	
Design and Permitting: 12 months	
Construction: 24 Months	Project Cost: \$15,000,000

[Note – This project (“A-6”), when combined with Projects A-7 (“New Raw Water Intake”) and B-9 (“New Raw Water Pump Station”), represent a combined solution to Chattanooga’s single intake vulnerability. The proposed projects are recommended as a phased approach – the full Criticality Analysis for Potential River Spill-Chattanooga Citico Plant is included in Appendix C].

Need for Project:

The Citico WTP has a single source intake on the Tennessee River which is vulnerable to a contamination threat due to transportation accidents on the river, on bridges crossing the river and its tributaries, and spills from facilities located along the river banks. Because the Chattanooga system does not have a secondary supply and its current interconnection capacity is limited a river contamination event could have significant continuity of service impact. Therefore, the resiliency level should be improved. It is estimated that the system has less than 7 hours of effective storage for a response window under minimum month demand levels. Significant usage restrictions would be needed to reduce demand levels less than this minimum month level in the event the intake needed to be shut down.

Background:

A set of alternatives were evaluated that would enable the system to sustain the minimum month demand level of 31.7 mgd for up to three days to allow recovery of a potential river spill. The alternatives were evaluated based first on their ability to provide an alternative supply of 27 mgd, the amount of unmet demand after considering existing storage, then on feasibility and ease of installation, and finally on a risk versus cost analysis. The alternative that best met these criteria was selected as the recommended alternative. The primary challenge designing a

resiliency improvement plan is in considering the cost of developing a new supply equal to 27 mgd that would be utilized infrequently (if at all). The alternatives each have implicit and significant barriers that would not otherwise be encountered for a longer and more sustained supply alternative. Thus alternatives would best be implemented as part of a regional Emergency Response Plan (“ERP”) that would enlist local, and potentially State and Federal authorities, to assist with institutional and governmental measures necessary to implement either one of these measures. A detailed memorandum is included as **Appendix C**.

Recommended Solution:

Table 1, below summarizes the alternatives which were evaluated in order to provide an alternative supply of 27 mgd over the three day period. A total of six distinct alternatives were first evaluated. Based on the parameters outlined above, the selected alternative (Alternative 1) involves:

- 1) deploying a floating pump station in the Chickamauga reservoir (located approximately 6 miles upstream from the Citico plant) and installing temporary flexible piping to the plant (A-6),
- 2) improving system interconnections and the associated piping network (A-6),
- 3) constructing a second intake (A-7) and raw water pump station (B-9) at the plant. The new intake mains would extend to the center channel of the river, reducing the impact of spills along the river banks. River flow modeling will need to be performed to confirm the water quality variations across the river.

Table 1
Alternative TNAW Emergency Supplies and Recommended Alternative

Alternative Number	Alternative Description	Components	Added Capacity (mgd)	Risk
1	Interconnections; Chickamauga Reservoir Pump and Piping; Alternate Intake	*Phase 1, Phase 2 and Phase 3 – shown below.	26.7	
	*Phase 1 – Chickamauga Reservoir Pump/Piping	- Floating barge pump station - Flexible pipe to Citico	20.6 - 26.7	Rapid Deployment. Piping Storage.
	*Phase 2 – Interconnections	Interconnections to EUD/HUD	1.6 - 6.2	Cooperation with Adjacent Districts
	*Phase 3 – New Raw Water Pump Station and Intake	- New Pump Station at Citico - Intake Pipe Across River	26.7	Widespread River Contamination.

Recommendation (Alternative 1) - This alternative provides the necessary water supply in case of an emergency due to a river spill, via three different phases. Phase 1 is to deliver water from the Chickamauga Reservoir, located 6.3 miles upstream of the Citico WTP. Phase 2 is to upgrade and install a number of interconnections between TNAW and two surrounding districts, the Eastside Utility District (“EUD”) and the Hixson Utility District (“HUD”). Phase 3 is to construct a new pump station at the Citico WTP and an associated alternate intake which would extend into the center channel of the river.

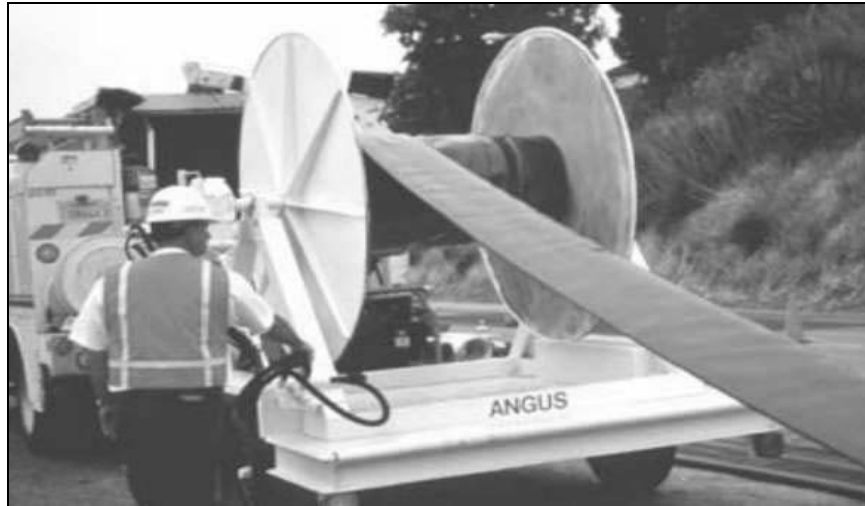
Phase 1 involves sourcing water from the Chickamauga Reservoir, located 6.3 miles upstream of the Citico WTP. A temporary floating pump station, consisting of two floating barges with pumps secured on them, would pump the water through flexible hose along the roadway from the reservoir to the Citico plant. To supply the remainder of the required flow rate (26.7 MGD less the amount supplied by Phase 2 interconnections, or 20.6 mgd), four sets of 12” flexible hose in parallel would be required. This equates to 25.2 miles of 12” flexible hose. A secondary booster pump would be required after 3 miles due to friction loss in the hose. This alternative would require local law enforcement participation as the flexible hose would run along or adjacent to roadways. **Figure 1** is a photo of a similar barge/pump system currently being utilized at ILAW. **Figure 2** is a manufacturer’s photo of the flexible hose being deployed. This phase could be completed and operational within one year.

TNAW should work with local stakeholders such as the Tennessee River WARN program and the Tennessee National Guard to locate barge pumping services or fire boat services that could be used in such an emergency. AW Supply Chain can evaluate the cost of owning such facilities versus the cost and timeliness to utilize the National Guard.

Figure 1
Example Floating Pump Station



Figure 2
Example Flexible Hose Deployment (Courtesy of Kidde Canada)



Phase 2 involves improving specific interconnections taken from a study conducted for the Chattanooga Public Works Department (Jacobs Engineering, 2011) which assessed water supply availability during an emergency condition in Chattanooga. The study identified specific interconnections between the neighboring EUD and HUD systems that would provide water supply to the city of Chattanooga during an emergency event. The study detailed two phases of improvements which would supply water to TNAW from EUD and HUD, by gravity, while still maintaining adequate service in the EUD and HUD systems. Phase 1 of this mentioned study, which is included as part of this alternative, recommended mainly upgrading existing interconnections between TNAW and EUD and HUD and establishing new interconnections. This involved upgrading three existing interconnections, installing four new interconnections, and installing three pressure sustaining valves. The study conducted for the Chattanooga Public Works Department indicates that these improvements could provide approximately 6.2 MGD to TNAW, although the actual yield is indeterminate and needs confirmation. Based on separate calculations using this study and an operating license renewal application submitted by the TVA to the U.S. Nuclear Regulatory Commission, it is possible that these interconnection improvements may only yield between 1.6 - 3.4 MGD. The reliability of the supply from interconnections is inconclusive and requires further evaluation. Phase 2 could be completed and operational within a few years, depending on how much reinforcement would be required in the three systems.

Phase 3 involves constructing a new intake to the center channel of the river and a pump station on the grounds of the Citico WTP. The intake pipe would extend to the center channel of the river in order to withdraw water that would not be contaminated. This effort relies on the assumption that a contaminant would not diffuse across the whole cross section of the river, but would be contained on the side of the river nearest the Citico WTP. Once constructed, this project could supply the full 28.8 MGD needed in case of an emergency. **Figure 3** illustrates the placement of the new pump station/intake and **Figure 4** illustrates the entirety of the recommended project.

Figure 3
New Pump Station and Alternate Intake

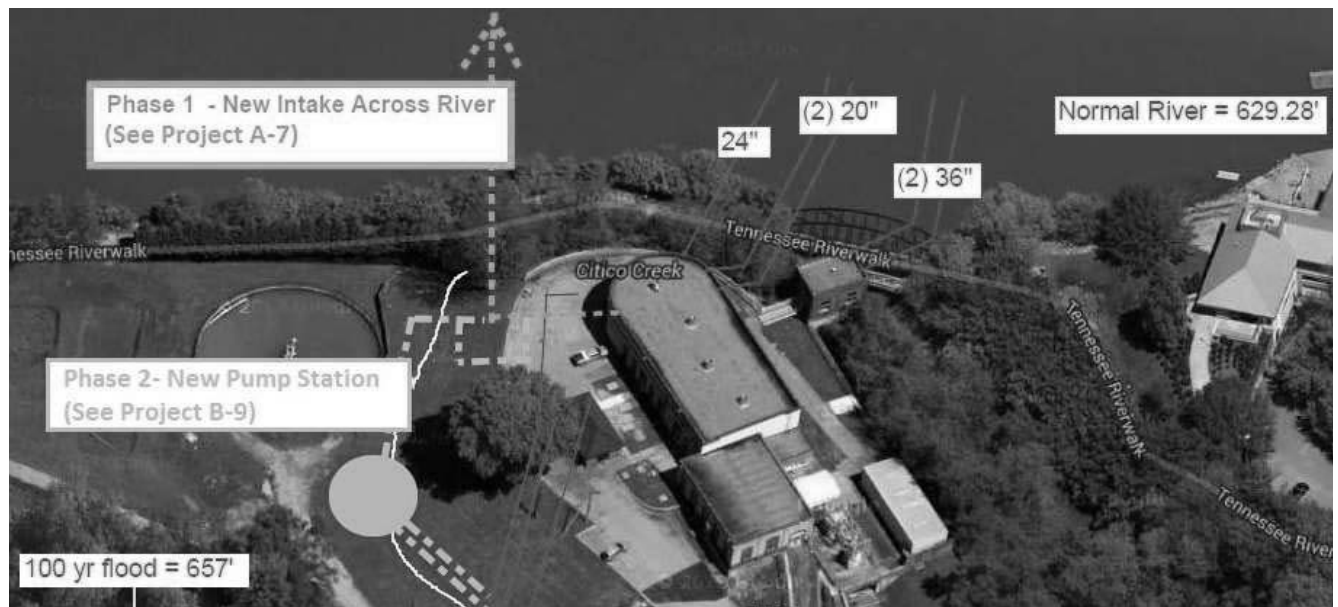
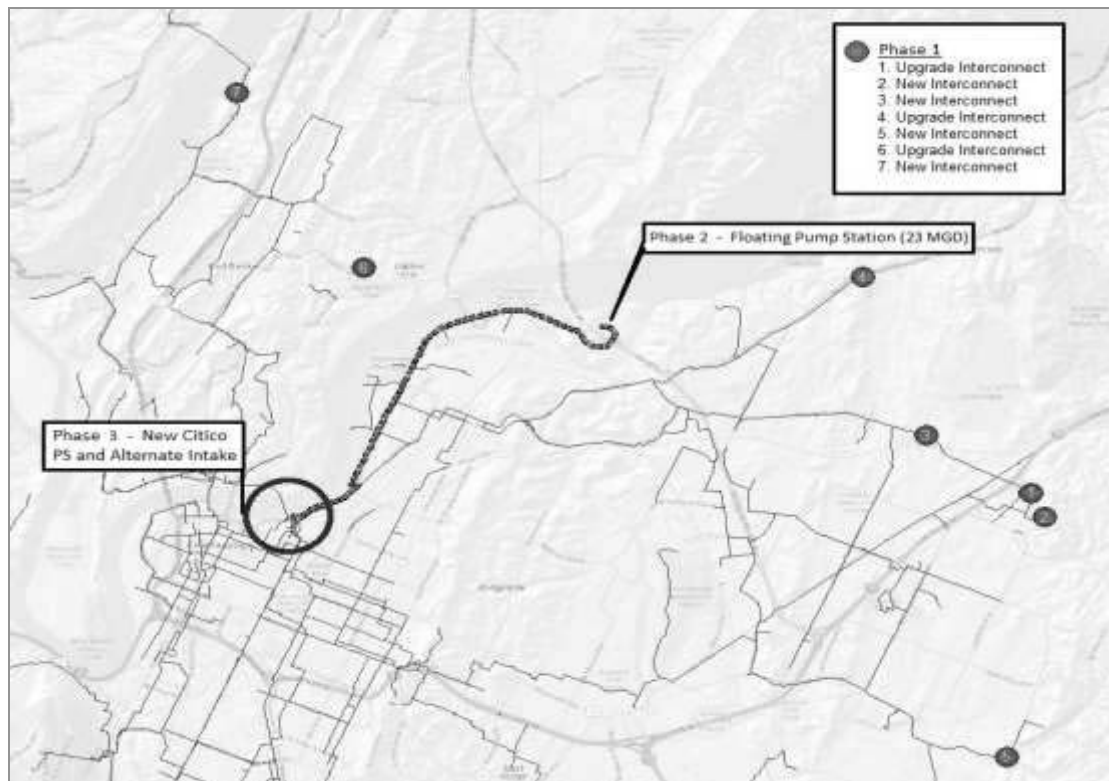


Figure 4
Alternative 1 (Entire Project) – Map View



Output and Benefits:

Advantages:

Phase 1 – This phase would not require construction of permanent infrastructure. The flexible hose pipe could be multi-purposed for other applications. This phase utilizes a proven technology.

Phase 2 – Water supplied by interconnections is already treated, and would be able to flow into the TNAW system by gravity without pumping. These interconnections can be constructed and operational within a few years.

Phase 3 – Potentially no disruption of service as alternate intake only requires opening and closing valves. Withdrawing water from the center channel of the river may also provide improved raw water quality throughout the year.

Disadvantages/Risks

Phase 1 – This phase requires a comprehensive and substantial emergency plan, as well as considerable manpower in deploying the flexible hose and floating barge pump station. This alternative assumes that the flexible hose system can be rapidly deployed within hours and that drills be performed to practice the deployment. The window of time available for deployment, before a service outage occurs, is based on the volume of water stored in tanks and demand reductions that can be achieved. TAWC should investigate partnership opportunities with external stakeholders to evaluate the cost of contracting for the manufacture, maintenance and deployment of this portable rapid response system, as well as investigating further the ownership of the assets.

Phase 2 – Upgrading interconnections will require coordination with adjacent districts and possible piping upgrades in both systems. Support for funding will need to be secured and contract terms will need to be negotiated. Water quality would be impacted by potential flow reversals due to open interconnects.

Phase 3 – The potential for widespread contamination of the river is undefined. A testing program will need to be developed and implemented to determine if the proposed alternate intake will mitigate the risk of contamination from tributaries and facilities along the river bank.

Assumptions / Risks

The recommended alternative assumes that the interconnections as suggested by the referenced study will provide 6.2 MGD to the TNAW system. If this supply is less, then Phase 1 will need to supply more than its listed capacity, and an additional 12" hose running from the Chickamauga reservoir will be required, bringing the total number of pipe in parallel to five. Phase 1 assumes that the water upstream of the dam is not affected by the contamination event, and Phase 3 assumes that the Tennessee River is not contaminated at the point of the alternate intake, but that the contamination would be contained on the side of the river nearest the Citico WTP. The recommended alternative requires a comprehensive and substantial emergency response plan ("ERP") to be in place, and will require some road shutdowns and detours. The raw water sent to the plant can be discharged into the 60-inch diameter pipeline which flows into the raw water control building.

Options:

There were several other alternatives that were evaluated as part of the original analysis, as mentioned previously. Each alternative has specific advantages and disadvantages which can be weighed as a possible alternative to the recommendation.

Budget Discussion:

The cost of upgrading the interconnections was developed using the scope of the concepts in an engineering study performed by Jacobs Engineering in a 2011 report. Costs were updated for current year values but could vary significantly based on additional field work. The floating pump station and flexible hose option also carries some risk as it is a relatively unconventional approach to installing a rapid response supply project for municipal drinking water systems. It assumes an “all hands on deck” approach, with local and federal government assistance. Finally, the new pump station and intake are not included in this cost, but are included as separate projects (B9 and A7, respectively) for reasons that are also independent of this Criticality Assessment. A detailed cost estimate is included in **Appendix B**.

Purpose Codes and Drivers:

Asset Code	Purpose Code
309 – Supply Mains	Rel/Qual backup or standby

**TENNESSEE AMERICAN WATER
CITICO PLANT**

Project A-7	
NEW RAW WATER INTAKE	
Design and Permitting: 12 months Construction: 18 Months	Project Cost: \$13,000,000

[Note – This project (“A-7”), when combined with Projects A-6 (“System Interconnections and Chickamauga Pump Station / Interconnections”) and B-9 (“New Raw Water Pump Station”), represent a combined solution to Chattanooga’s single intake vulnerability. The proposed projects are recommended as a phased approach – the full Criticality Analysis for Potential River Spill-Chattanooga Citico Plant is included in Appendix C].

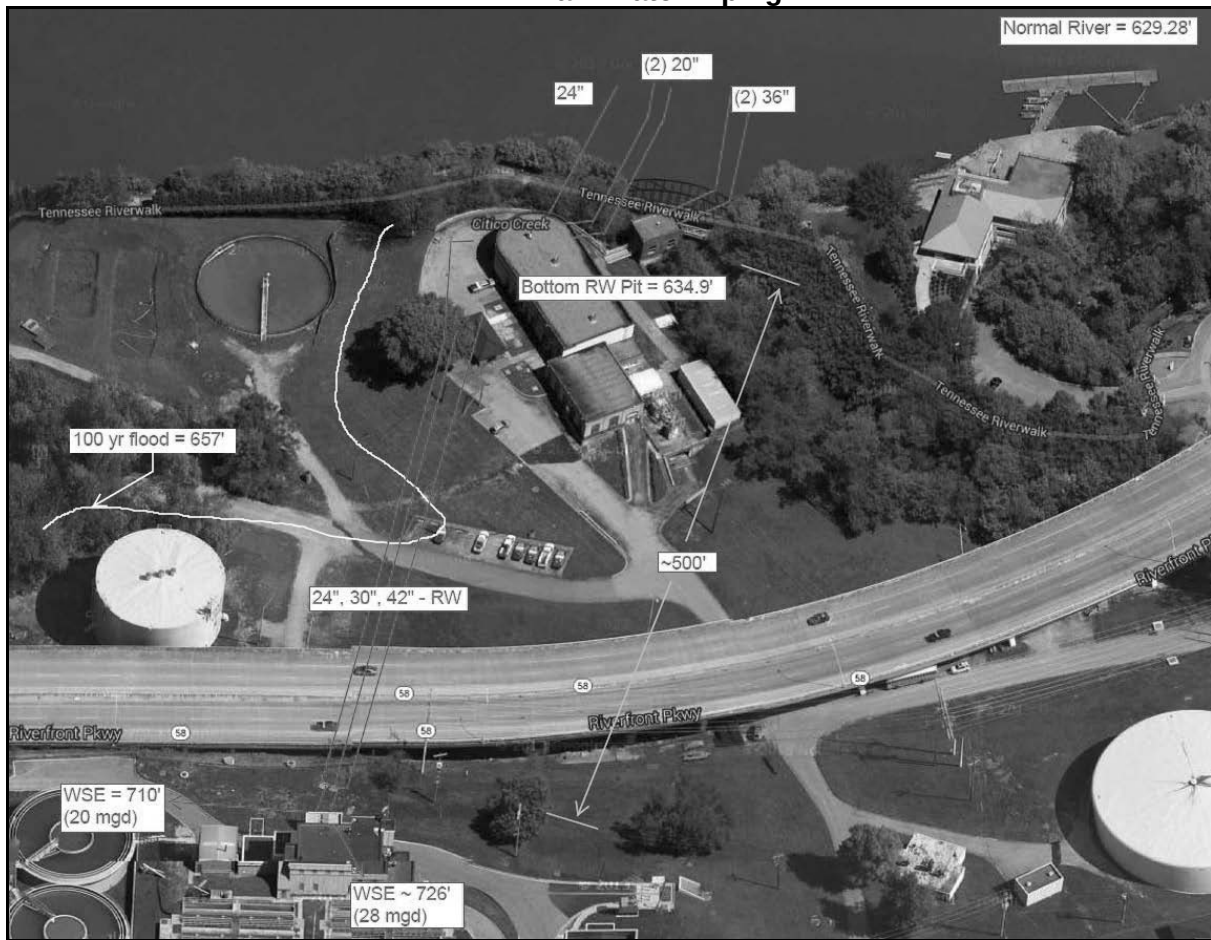
Need for Project:

This project provides resiliency and reliability. The intake will provide an additional source of water by extending the intake to the other side of the river. This would allow for the intake to reach the opposite side of the river in the event of a river spill that might hug the Citico station side of the river. The intake will connect to the current pump station. While a new intake helps to address source water resiliency, it does not address the remaining concerns with the current raw water pump station, which is proposed as Project B-9.

Background:

The raw water pump station is serviced by five raw water lines coming from the Tennessee River. Two 36-inch lines go through a traveling screen and discharge in to a sump, where two 36-inch lines feed a raw water suction header. The other three lines bypass the traveling screen and consist of two (2) 20-inch pipes and one (1) 24-inch pipe, as shown below. These pipes are connected to the same suction header as the intake screen piping. The arrangement allows any pump to pull from any intake line. Typical operation utilizes the intake screen piping. Due to the elevation difference between the pit floor and the river, TNAW staff has noted that they need to prime the raw water pumps on occasion. The raw water pumps are aligned around the perimeter of the pit and discharge through the wall of the pit to the raw water control building.

TNAW Raw Water Piping



Recommended Solution:

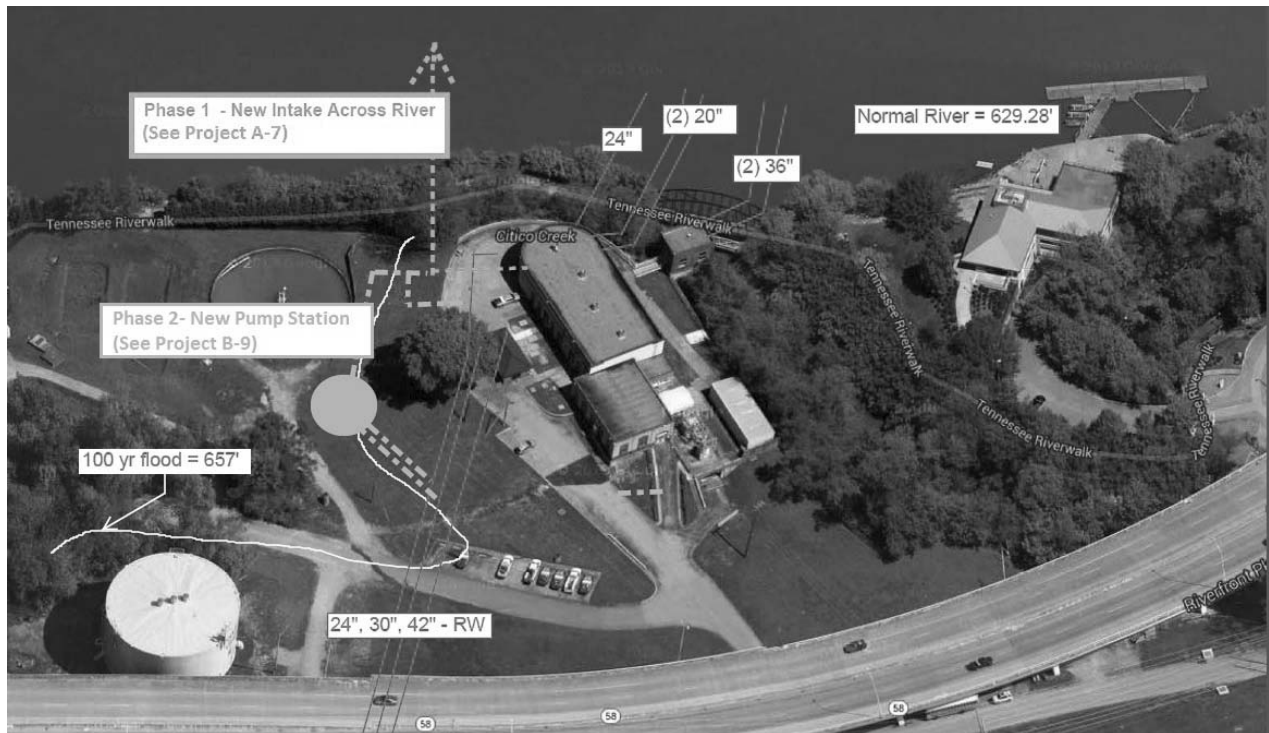
As proposed, the new intake would tie in to the current pump station (note – a design similar to this was conducted for TNAW in the 1980's however the concept was never implemented). The new intake would extend across the river and allow for a “second” intake drawing from the other side of the river, enhancing water quality while providing a potential second source in the event of a river spill.

As proposed, the pump station would be built in Phase 2 (B-9), and would connect to the intake, while maintaining a connection to the current raw water pump station. This would provide the opportunity for a second raw water pump station in the event that one was taken out of service.

The actual location of the pump station and intake would be refined, however the current proposed location places the pit next to the current pump building, with easy access from

existing roads, as shown below. The concept consists of four vertical turbine pumps extending in to a wet well that is gravity fed from the new intake. As part of the pump station proposed in Project B-9, new piping would be installed to connect the intake to the new pump station. The bottom of the proposed pump station pit would be approximately 9 feet below normal river level, resulting in a 45' deep wet well.

Alternative 2 – Plan View



Output and Benefits:

A second intake mitigates TNAW's current vulnerability by augmenting the current, single intake. The new intake will extend to the other side of the river, with the assumption that the water quality will be better in the event of a water spill. While aerial photographs indicate plumes hugging the Citico side of the river (partially because of upstream tributaries that discharge to the Tennessee River), river modeling is recommended to confirm this. In either case, this alternative is buffered with Project A-6, which proposes a temporary pump station in the Chickamauga reservoir, and piping extending from the reservoir to the Citico facility.

Options:

In the event that river modeling does not support the cost of a new intake, Project A-6 provides a second alternative, while also providing a quicker solution to TNAW's single intake vulnerability.

Risks:

There is the risk that river modeling does not support a water quality variation in the event of a river spill. There is also a risk that construction of the new intake tying in to the current pump station may have unknown and costly obstacles.

Budget Discussion:

The budget includes the cost of the new intake. It does not include the new raw water pump station (B-9). A detailed cost estimate is included in **Appendix B**.

Purpose Codes and Drivers:

Asset Code	Purpose Code
311 – Pumping Equipment	Asset Renewal poor condition

**TENNESSEE AMERICAN WATER
CHATTANOOGA**

Project A-8	
MISSION RIDGE AND SOUTH MISSION RIDGE BOOSTER STATION UPGRADES	
Design and Permitting: 4 months Construction: 2 Months	Project Cost: \$300,000

Need for Project:

Variable frequency drive (VFD) motors are recommended to reduce the frequent on and off cycling of the Mission Ridge and South Mission Ridge booster pumps. Pump replacements are recommended to provide more suitably sized pumps.

Background:

The South Mission Ridge booster station is normally operated with pump no. 7 turning on and off based on the water level in the South Mission Ridge standpipe. During average demand conditions, the pump may cycle on and off approximately five times per day, and the water level in the standpipe drops quickly when the pump is off. One of the larger pumps at the Mission Ridge booster station may cycle on and off even more frequently during average demand conditions. The water level in the Mission Ridge standpipe also drops quickly when all pumps are off at the station.

The South Mission Ridge booster station contains two larger pumps, pump nos. 10 and 11, each with design capacities of 1.44 mgd at 450 ft TDH. These pumps are larger than needed and seldom operated.

The Mission Ridge booster station pump no. 3 has a design capacity of 0.58 mgd at 410 ft TDH. Water Company personnel indicate that the pump has limited capacity and is seldom used.

Recommended Solution:

Install a VFD motor on pump no. 7 at the South Mission Ridge booster station, and on pump no. 4 at the Mission Ridge booster station.

Replace pump no. 10 or 11 at the South Mission Ridge booster station with a smaller pump. The recommended design capacity is 1.0 mgd at 450 ft TDH, to closely match the capacity of pump no. 7. Install a VFD motor on the new pump. Pump no. 7 and the new pump will be the

primary pumps operated at the station. It is expected that one will be on while the other serves as a backup. The larger third pump can be operated during emergency or fire flow demands.

Replace pump no. 3 at the Mission Ridge booster station with a larger pump. The recommended design capacity is 1.0 mgd at 430 ft TDH, to closely match the capacity of pump no. 4. Install a VFD on the new pump. Pump nos. 3 and 4 are expected to be the primary pumps, with the largest pump no. 6 utilized when needed for delivering emergency or fire flows to the gradient.

Output and Benefits:

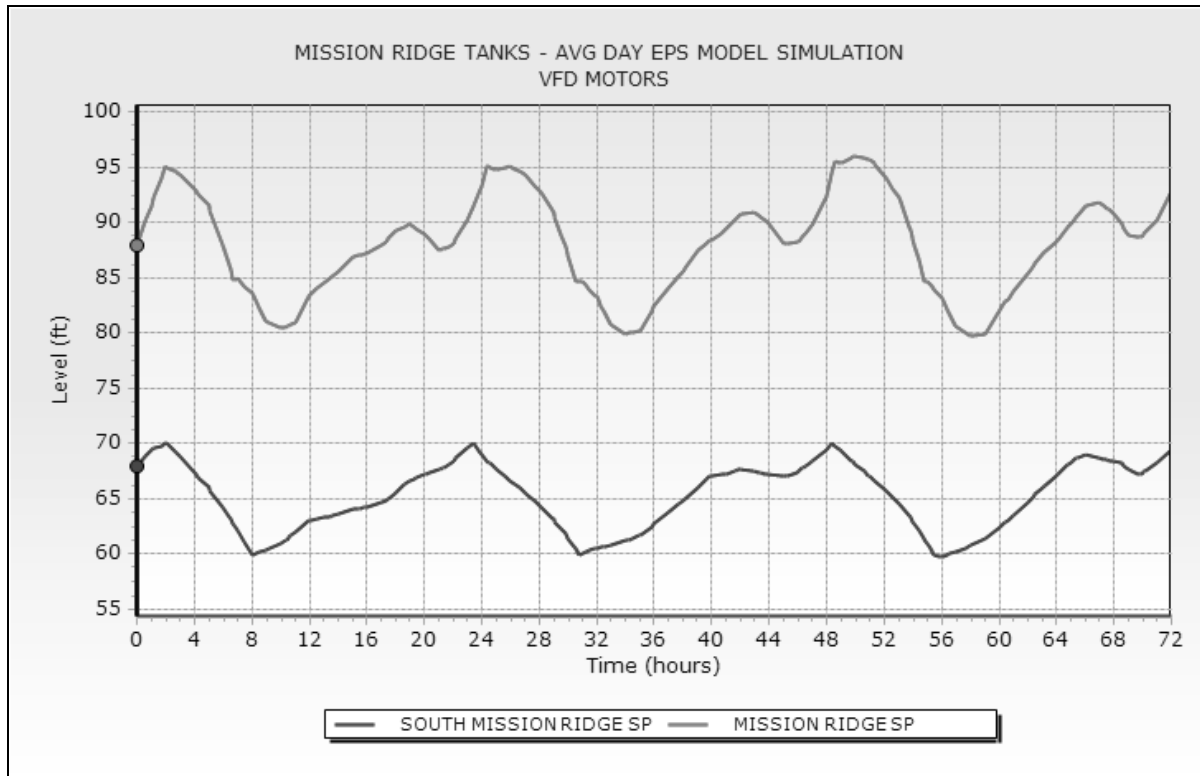
The VFD motors will significantly reduce the on and off cycling of the pumps at the Mission Ridge and South Mission Ridge booster stations. This is expected to reduce the wear and tear on the pumps, and reduce the risk of water hammer events during accidental quick starts or stops of the pumps. More consistent booster flows and pressures will be realized in the gradient, along with smoother water level fluctuations in the Mission Ridge and South Mission Ridge standpipes.

Model simulation under average demand conditions shows steadier pump operation, with the speed varying to maintain adequate water levels in the standpipes. Graphs of the modeled water levels in the standpipes during the 2020 average demand condition are shown on the following page.

The recommended pump replacements provide more suitably sized pumps for the system conditions. The overall pump combinations and capacities will enable the operators to more effectively alternate the use of the pumps for meeting the normal domestic demands. The larger pumps also provide the capacity to deliver higher flows into the gradient when needed to meet fire or emergency demands.

Options:

The installation of the VFD motors on the existing pumps is considered the higher priority for providing the desired operational benefits. The replacement of the existing pumps can be deferred until pump maintenance issues or capacity issues become more prevalent.



Budget Discussion:

The planning level cost estimate for the project is \$300,000, as detailed below.

MISSION RIDGE & SOUTH MISSION RIDGE BOOSTER STATION UPGRADES				
Project Component	Quantity		Unit Cost	Total
VFD Motors on Existing Pumps	2	EA	\$30,000	\$60,000
New Pumps & VFD Motors	2	EA	\$45,000	\$90,000
Misc Valve & Equipment Upgrades	1	LS	\$25,000	\$25,000
Instrumentation & Controls, Electric Upgrades	1	LS	\$25,000	<u>\$25,000</u>
				\$200,000
	Contingency		20%	\$40,000
	Construction Subtotal			\$240,000
	Engineering		15%	\$36,000
	AFUDC		10%	\$24,000
	PROJECT TOTAL			\$300,000
	SAY			\$300,000

Risks:

The continued use of only constant speed pumps at the booster station will result in the continued frequent on and off cycling of the booster pumps.

Purpose Codes and Drivers:

Asset Code	Purpose Code
311 – Pumping Equipment	Efficiency payback <5 yrs

**TENNESSEE AMERICAN WATER
CHATTANOOGA**

Project A-9	
DIVIDE EAST RIDGE GRADIENT, INSTALL PRV STATIONS, AND CONNECT MAINS	
Design and Permitting: 8 months	
Construction: 2 Months	Project Cost: \$200,000

Need for Project:

The current hydraulics in the East Ridge gradient do not allow the Jenkins Road reservoir to fill. During the peak demand season, it is sometimes not possible to maintain any water in the reservoir. Therefore, none of its 1.0 MG volume can be considered useful and effective storage. This results in a storage deficit in the gradient, along with periodic marginally low service pressures in a few areas.

Background:

The East Ridge gradient has the second highest demand behind the Citico gradient. By 2030, the average day and maximum day demands are projected to reach approximately 10.4 mgd and 14.6 mgd, respectively, for the base growth demand projections. Peak flows to Catoosa UD are projected to reach approximately 4 mgd under the base growth projection, with increased flows possible under higher growth scenarios.

The three storage facilities in the gradient – Jenkins Road reservoir, East Brainerd standpipe, and East Ridge reservoir – provide a total storage capacity of 2.83 MG, but only 1.73 MG in effective storage capacity. None of the volume of the 1.0 MG Jenkins Road reservoir can be considered effective storage volume with the current gradient hydraulics. Because of this, a storage deficit exists in the East Ridge gradient.

The East Ridge reservoir, which is located on the western side of the gradient near the East Ridge booster station, has an overflow elevation of 1016.75 ft msl. The Jenkins Road reservoir, which is located on the far eastern side of the gradient, has an overflow elevation of 1020 ft msl. The large geographic area covered by the gradient, along with the high demands, especially when water is delivered to Catoosa UD, causes the hydraulic grade line (HGL) to drop as flows travel from west to east and from north to south across the gradient. Because of this, the HGL in

the area of the Jenkins Road reservoir is normally too low to maintain adequate water levels in the reservoir, and during peak demand periods, no water can fill the reservoir.

Recommended Solution:

It is recommended to divide the East Ridge gradient into an East Ridge – North (“North”) and East Ridge – South (“South”) gradient. Two pressure reducing valve (PRV) stations are recommended to enable the delivery of peak and emergency flows from the North to the South. The proposed gradient boundary and location of the PRV stations is shown on the exhibit on the following page. The following valves should be closed to form the new gradient boundary, listed from west to east: V1370, V12466, V7864, V9950, V21038, V21545, V9976, V13311, V11588, V19326, and V12972. In addition, the 8-inch main on Tunnel Boulevard should be connected to the 16-inch main on New York Avenue to enable improved flow distribution to the area south along Tunnel Boulevard.

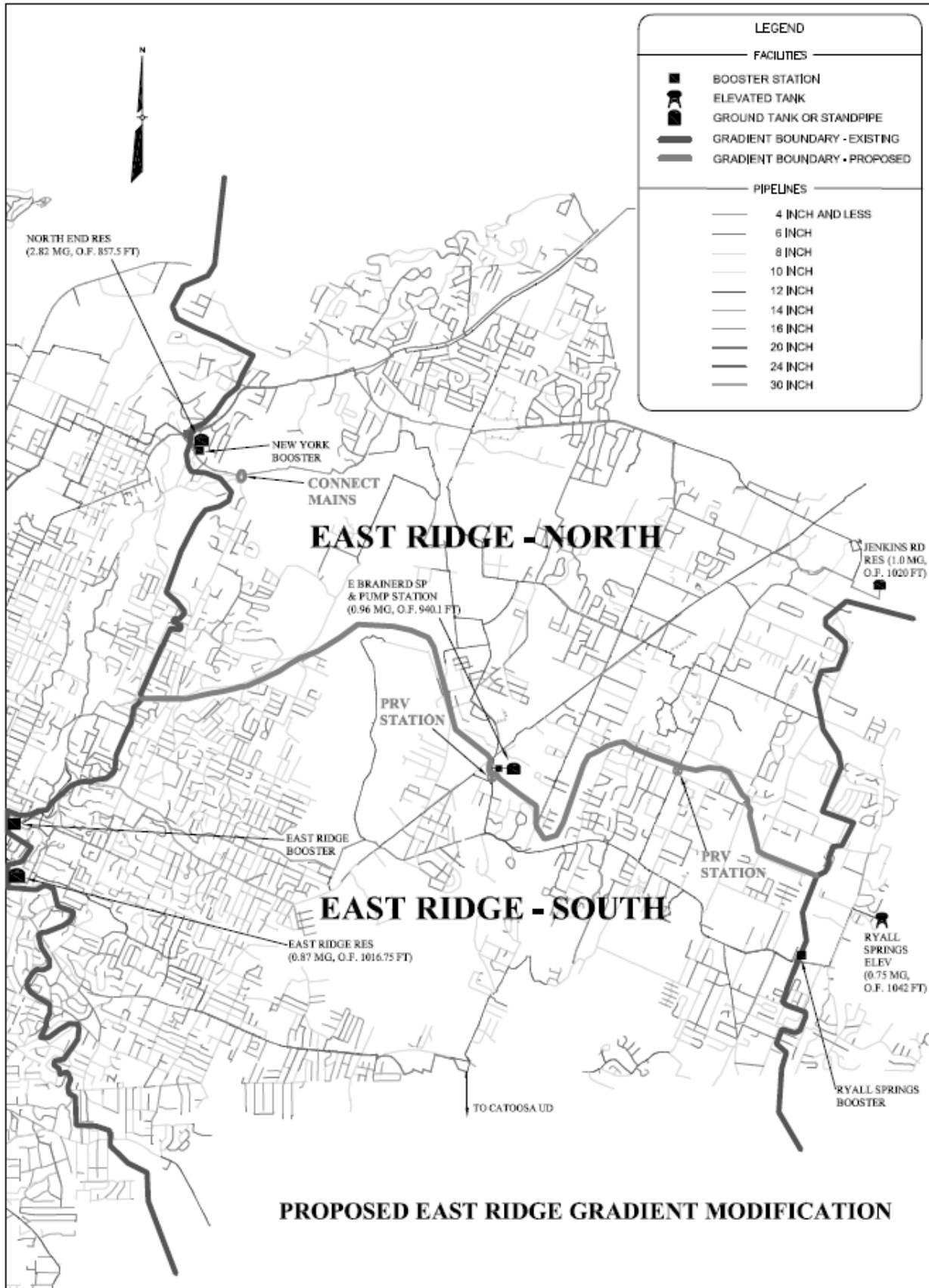
With the proposed gradient alignment, the Jenkins Road reservoir and the East Brainerd standpipe will provide storage volume in the North, with supply from the New York booster station. The East Ridge booster station will supply the South, with storage provided by the East Ridge reservoir. A storage facility is also recommended in the South under a separate project.

It is noted that V9465 on the 20-inch main just prior to the East Ridge booster station should be opened. Currently, all of the suction flow to the station comes from the 30-inch main, delivering water from the Mission Ridge triple reservoirs. Slightly higher flow rates are expected through the East Ridge booster station with the new East Ridge gradient alignment, and it is important to provide improved suction flow to the station.

The proposed PRV stations will provide peak and emergency flows to the South, especially until the new storage facility in the South is constructed. The stations also alleviate the need to install new transmission mains in the South along East Brainerd Road and Gunbarrel Road. Model analysis indicates that the PRV stations provide the desired flows to East Ridge – South at the following settings: East PRV - hydraulic grade of 930 ft msl (approximately 87 psi); West PRV – hydraulic grade of 950 ft msl (approximately 110 psi). Adjustments should be made in the field to determine the optimal operating points.

The total and firm pumping capacity from the New York booster station is approximately 10.3 mgd and 8.3 mgd, respectively. The maximum day demand is projected to reach approximately 5.5 mgd in the proposed North gradient by 2030. Therefore, adequate firm pumping capacity is available from the New York booster station for meeting the demands in the North gradient. In

addition, excess capacity is available for delivering peak and emergency flows through the proposed PRV stations.



The total and firm pumping capacity from the East Ridge booster station is approximately 13.5 mgd and 11.8 mgd, respectively. The maximum day demand is projected to reach approximately 10.2 mgd in the proposed South gradient by 2030 under the base growth projection, with Catoosa UD using approximately 4 mgd of this demand. The South gradient demand also includes the flows that must be pumped to the Ryall Springs gradient. At the base growth projection, adequate firm pumping capacity is available from the East Ridge booster station for meeting the demands in the South gradient through 2030. If Catoosa UD's demands follow the high growth projection of 6 mgd, then the projected 2030 maximum day demand for the South gradient will be approximately 12.2 mgd. This is slightly higher than the firm pumping capacity of 11.8 mgd from the East Ridge booster station. Additional pumping capacity at the East Ridge booster station will be needed when peak flows to Catoosa UD exceed approximately 5 mgd. Pumping upgrades are recommended under a separate project.

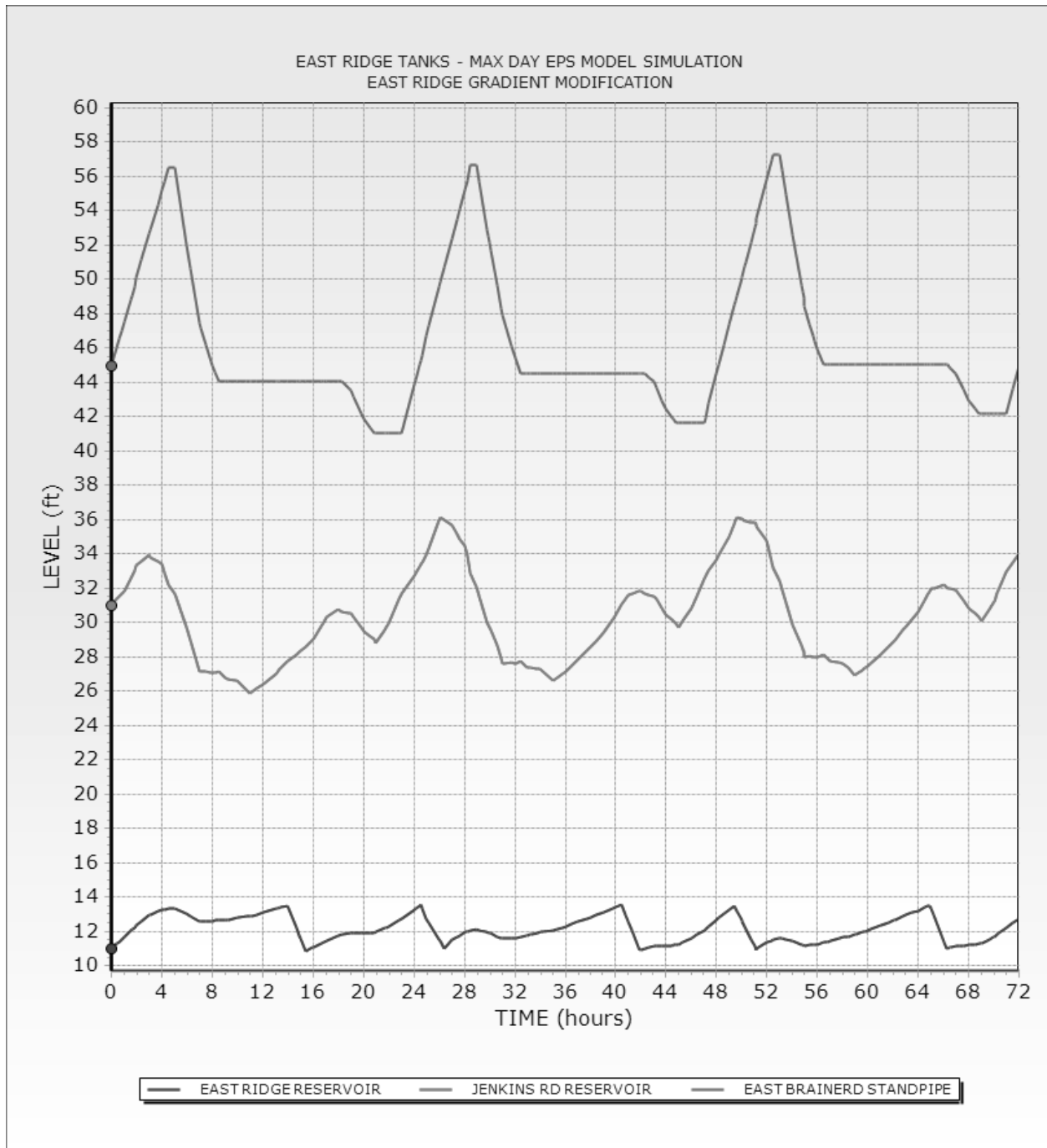
The needed storage volume for providing equalization flows and fire reserve in the proposed North gradient is approximately 1.2 MG through 2030. With the proposed gradient division, the full volume of the 1.0 MG Jenkins Road reservoir can be considered effective storage, along with 0.86 MG of effective storage volume from the East Brainerd standpipe. Thus, the 1.86 MG of effective storage volume in the North is adequate for meeting the projected storage need of 1.2 MG through 2030.

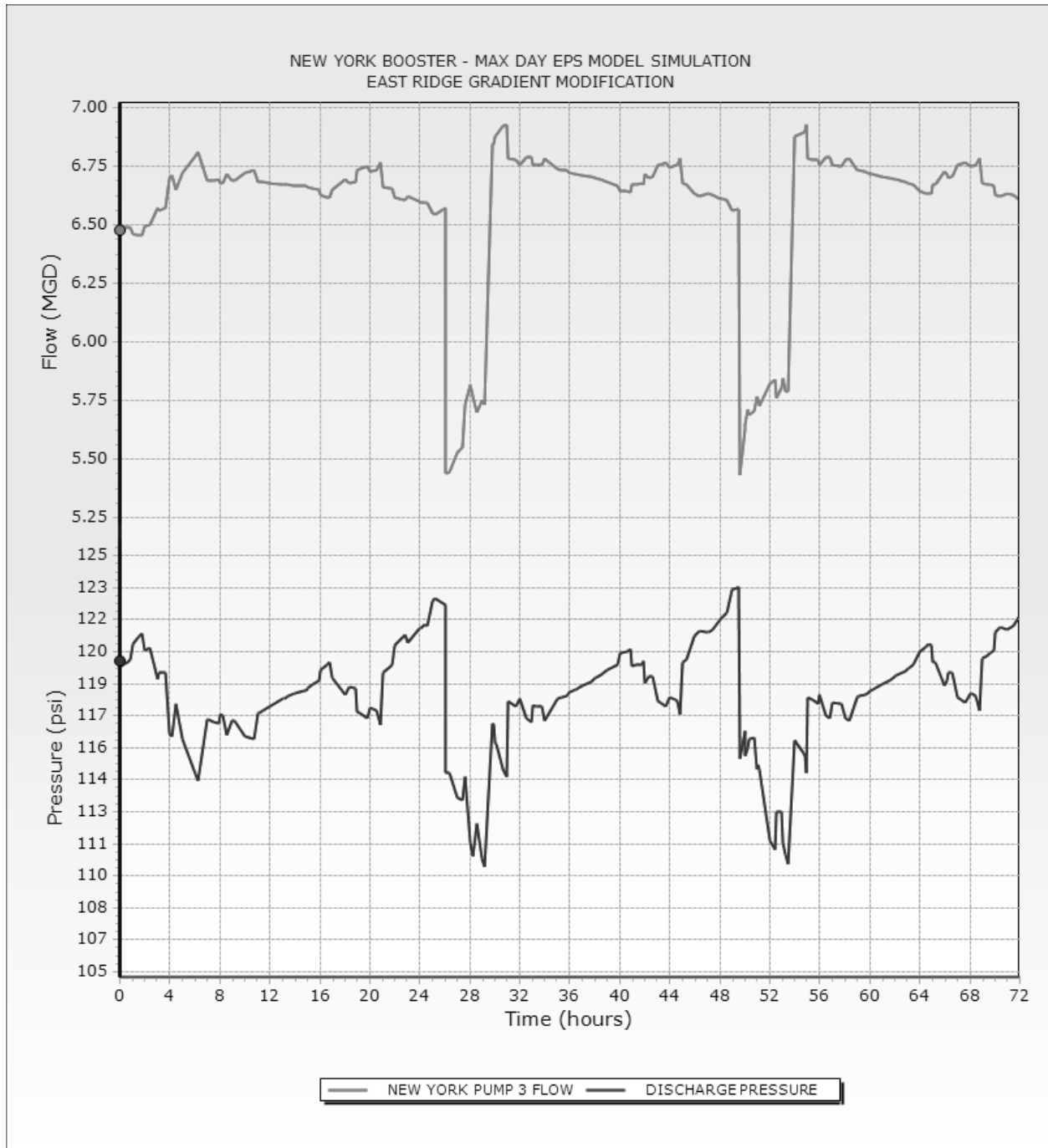
In the South gradient, the needed equalization and fire reserve volume is approximately 1.6 MG through 2030. The East Ridge reservoir provides approximately 0.8 MG of effective storage volume. A new storage facility is recommended in the South gradient under a separate project. Until the storage facility is constructed, the PRV stations can be utilized to deliver storage flows from the North, as needed. Even after completion of the proposed South storage facility, the PRV stations will be effective in delivering peak and emergency flows to the east side of the South gradient.

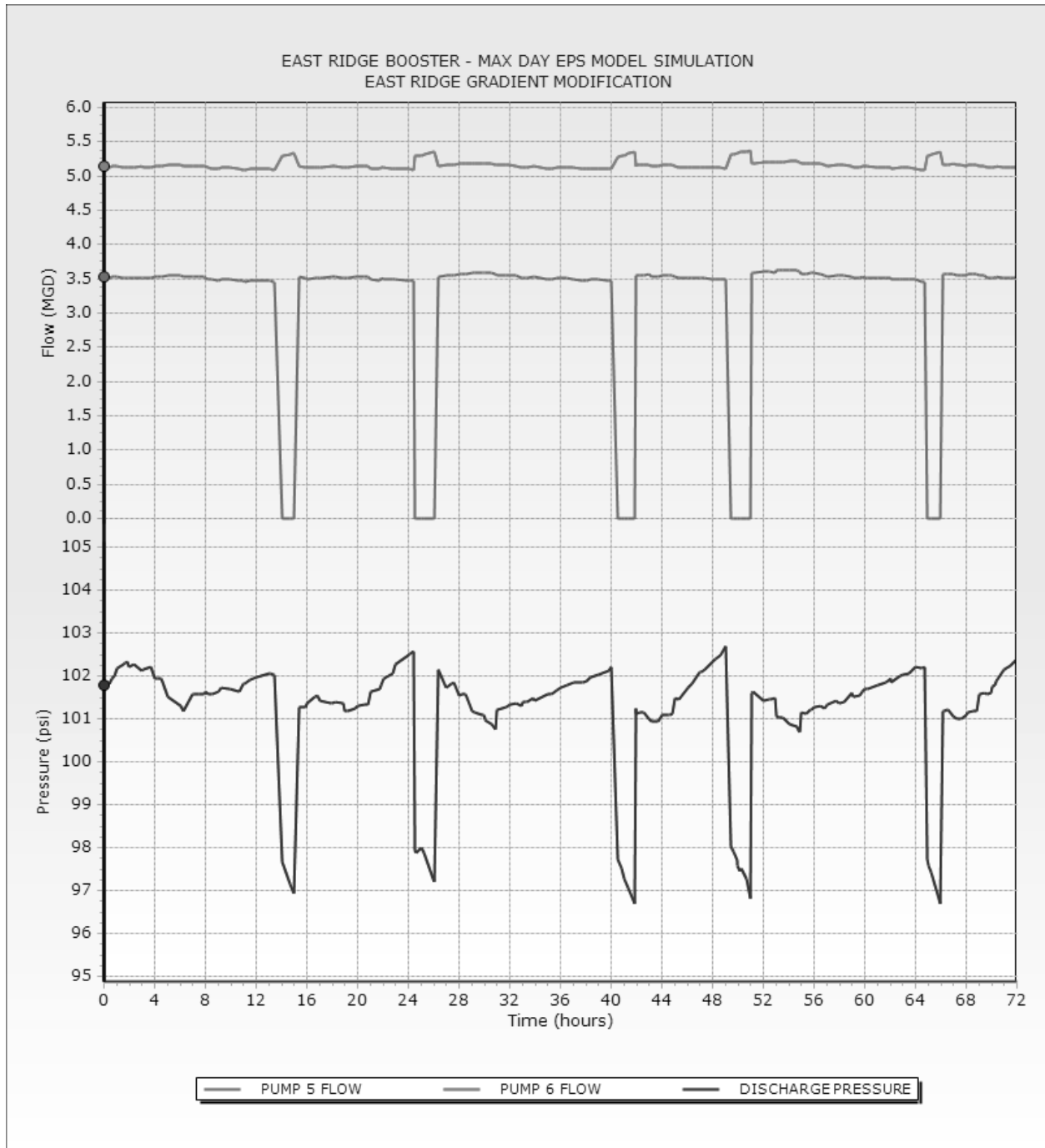
Output and Benefits:

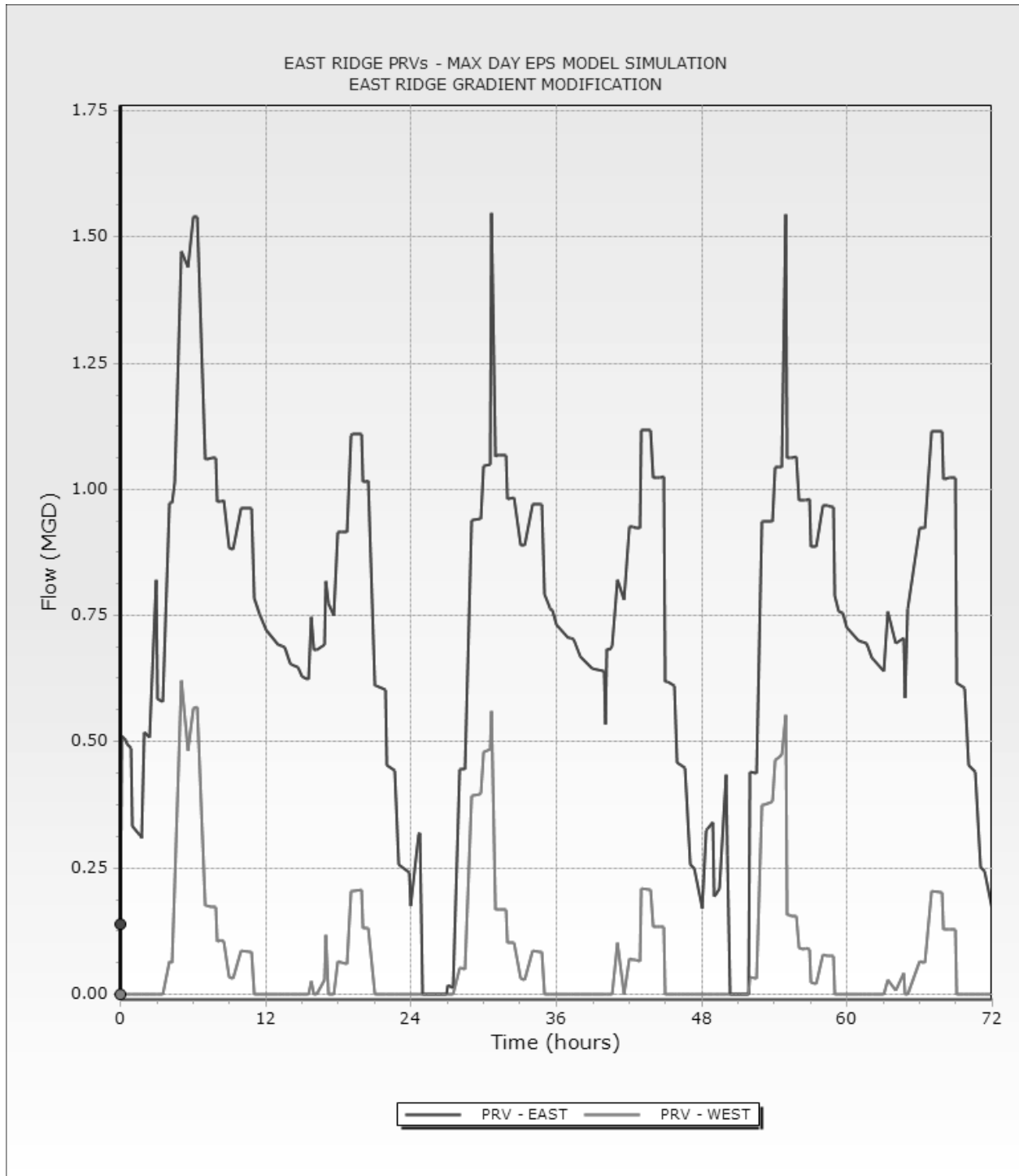
Completion of the project allows full use of the Jenkins Road reservoir and provides adequate storage volume in the North gradient. This will also enable more stable pressures in the gradient. The PRV stations provide supplemental flow into the South gradient along two 12-inch mains. This reduces the amount of new transmission piping that is needed in the South gradient to deliver water to the eastern end.

Model simulation under 2020 maximum day extended period simulation (EPS) with the gradient modifications show adequate tank water levels, and sufficient flows and pressures through the booster stations and PRV stations. The following graphs illustrate the modeled results with the proposed gradient division and use of PRV stations. The 2020 maximum demand scenario includes a fixed flow of 2.5 mgd to Catoosa UD. Other recommendations are included in the CPS for providing improved transmission capacity to Catoosa UD during higher flow scenarios.









Options:

The option to keep the East Ridge gradient as one gradient was considered. With this option, however, the East Ridge reservoir would need to be converted to pumped storage or retired. There would still be challenges in keeping adequate water levels in the Jenkins Road reservoir over the large gradient. The HGL generally drops towards the southern end of the gradient, which tends to draw down the Jenkins Road reservoir water level. The construction of a second elevated tank in the southern end at a similar overflow elevation as the Jenkins Road reservoir would help to alleviate this problem. However, maintaining an HGL of close to 1020 ft msl in the southern end would result in excessively high pressures for the lowest elevation customers, and would require additional pumping energy. Therefore, the option to divide the gradient, and operate the South at a lower HGL than the North provides a more efficient operation and a better range of service pressures.

The proposed gradient boundary can be modified slightly if it is determined to be more effective to modify the valve closures.

It is noted that the gradient modification will result in slightly higher discharge pressures at the New York booster station because of the overall higher HGL in the North as a result of maintaining the Jenkins Road reservoir at adequate levels.

Budget Discussion:

The cost to install the two PRV stations, to connect the 8-inch and 16-inch mains at Tunnel Boulevard and New York Avenue, and the field work of closing the needed valves, is estimated at \$200,000.

Risks:

If the project is not completed, none of the capacity of the 1.0 MG Jenkins Road reservoir will be considered effective storage. The inability to keep water in the tank can lead to low service pressures and a lack of adequate fire reserve.

Purpose Codes and Drivers:

Asset Code	Purpose Code
331 – Trans & Distribution Mains	Rel/Qual customer (pres taste etc.)

**TENNESSEE AMERICAN WATER
CHATTANOOGA**

Project A-10	
INSTALL 1,300 FT OF 20-INCH MAIN ON DELMONT STREET	
Design and Permitting: 6 months Construction: 3 Months	Project Cost: \$330,000

Need for Project:

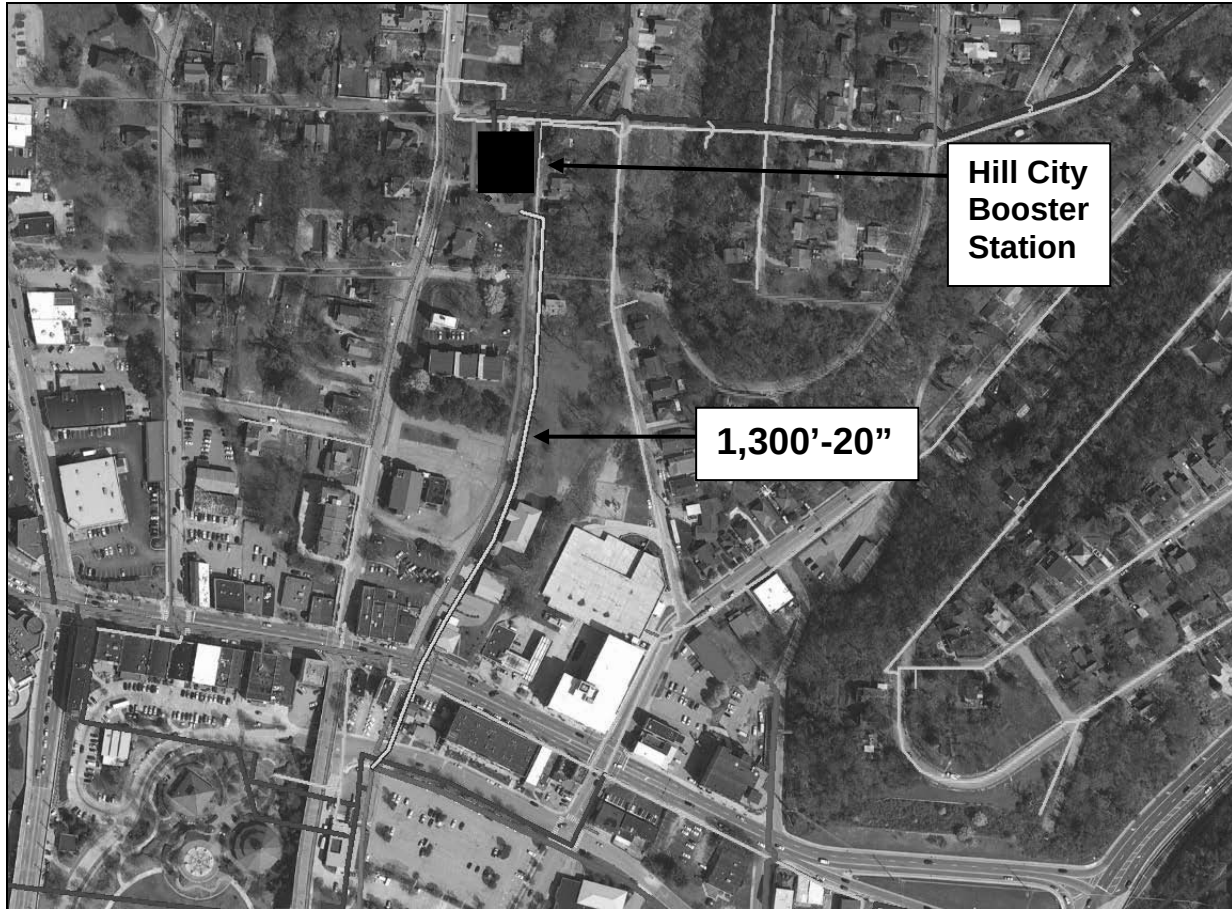
Increased transmission capacity is needed to the Hill City Booster station to reduce the velocities and headloss under peak flow conditions, to maintain adequate suction pressures, and to increase service reliability.

Background:

The Hill City booster station receives flow through one primary 16-inch main, along with two smaller 6-inch and 8-inch mains. When the station is operating at its peak flow rates, the velocity through the 16-inch main slightly exceeds 6 ft/sec, with a headloss gradient of over 10 ft/1000 ft. The high velocities could contribute to water hammer conditions when pumps are cycled on and off, potentially causing damage to the suction main. Suction pressures are still adequate, but drop to approximately 35 psi. The Hill City booster is the only supply to the Hill City gradient, which has average and maximum day demands of approximately 4.5 mgd and 6.5 mgd, respectively. If the 16-inch main is out of service, the supply through the 6-inch and 8-inch mains would not be adequate to meet the demands in the gradient.

Recommended Solution:

Install approximately 1,300 feet of 20-inch main on Delmont Street, from the 24-inch main south of Frazier Avenue and extending north to the booster station. The new 20-inch main should be installed parallel to the existing 16-inch main, as shown in cyan on the following exhibit.



Output and Benefits:

The proposed main will reduce the flow velocity to the Hill City booster station, thus reducing the risk of water hammer damage from the starting and stopping of pumps. It will provide for more efficient operation by reducing the headloss to the station, while also slightly increasing the suction pressures. Increased service reliability is also provided with the installation of a second primary feed to the station.

Options:

An alternative pipeline route may be considered if another route is more feasible for pipeline installation and provides similar hydraulic benefit. One option is to install the main on Tremont and Oliver Streets.

Budget Discussion:

The planning level cost estimate for the project is \$330,000, based on an overall cost of \$250/LF.

Risks:

If the transmission main is not installed, there exists the risk of creating water hammer conditions due to the high velocity in the 16-inch main. This could potentially cause damage to the main and a loss of service. Marginally low pressures will also be experienced on the suction side of the booster station.

Purpose Codes and Drivers:

Asset Code	Purpose Code
331 – Trans & Distribution Mains	Rel/Qual customer (pres taste etc.)

**TENNESSEE AMERICAN WATER
CHATTANOOGA**

Project A-11	
GRADIENT MODIFICATIONS	
Design and Permitting: 3 months Construction: 2 months	Project Cost: \$ 25,000

Need for Project:

There are some opportunities to modify the gradient boundaries to reduce the service pressures to more desirable levels in areas where they are excessively high.

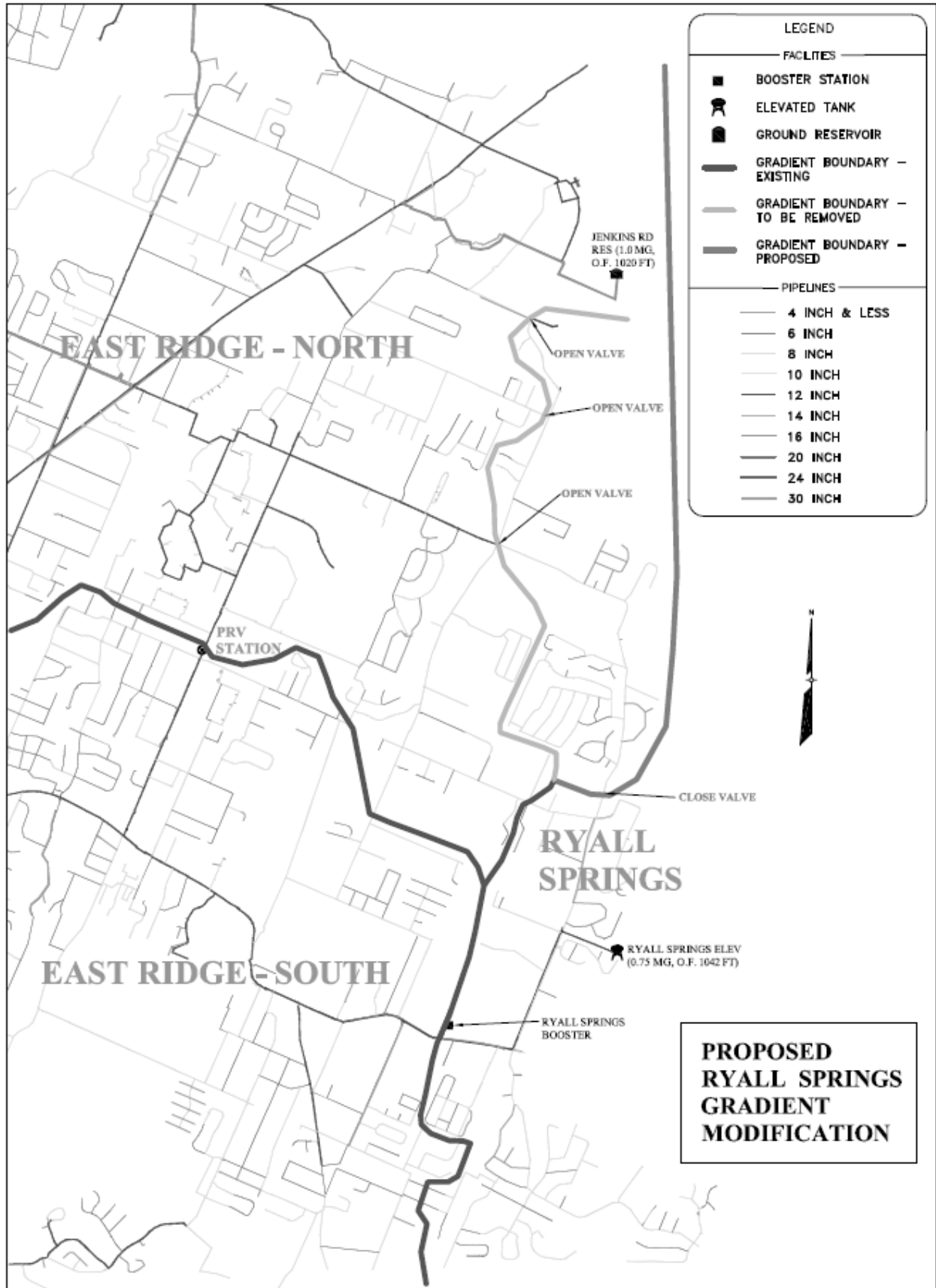
Background:

Because of the large variations in ground elevations across the system and even within the same gradient, the service pressures also vary widely. A review of these areas was performed to determine if opportunities exist to modify the gradient boundary while still providing adequate levels of service. A number of modifications that came out of this evaluation are detailed below.

Recommended Solution:

Adjust the Ryall Springs gradient boundary with East Ridge – North. Customers in the northern part of the Ryall Springs gradient are provided water at service pressures ranging from approximately 95 psi to 150 psi during average demand conditions, and from approximately 85 psi to 145 psi during peak demand conditions. These customers can also be served at adequate pressures as part of the East Ridge – North gradient, after its formation as proposed in a separate project. Model simulation shows that the customers moved to the East Ridge – North gradient would receive water under peak demand conditions at pressures ranging from approximately 55 psi to 115 psi. The AFFs are shown to remain above 1,000 gpm and up to 3,500 gpm in the modified area.

To make the gradient modification, three valves would need to be opened, and one closed, as shown on the exhibit on the following page.



Adjust the northern Mission Ridge gradient boundary with East Ridge – North. Customers in the northern part of the Mission Ridge gradient are provided water at service pressures ranging from approximately 145 psi to 215 psi during average demand conditions, and from approximately 125 psi to 200 psi during peak demand conditions. These customers can also be served at adequate pressures as part of the East Ridge – North gradient. Model simulation shows that the customers moved to the East Ridge – North gradient would receive water under peak demand conditions at pressures ranging from approximately 65 psi to 135 psi. The AFFs are shown to be improved after the modification, with flows above 1,200 gpm in the modified areas.

The gradient modification would require a connection from the 20-inch main on Bonny Oaks Drive to the 6-inch main on Tugaloo Street. In addition, the modification would require the closure of two valves and the opening of three valves, as shown in the exhibit on the following page.

Adjust the southeastern Mission Ridge gradient boundary with East Ridge – South. Customers in the southeastern part of the Mission Ridge gradient are provided water at service pressures ranging from approximately 190 psi to 220 psi during average demand conditions, and from approximately 185 psi to 215 psi during peak demand conditions. These customers can also be served at adequate pressures as part of the East Ridge – South gradient. Model simulation shows that the customers moved to the East Ridge – South gradient would receive water under peak demand conditions at pressures ranging from approximately 80 psi to 110 psi. The AFFs are shown to be above 1,200 gpm in the modified area.

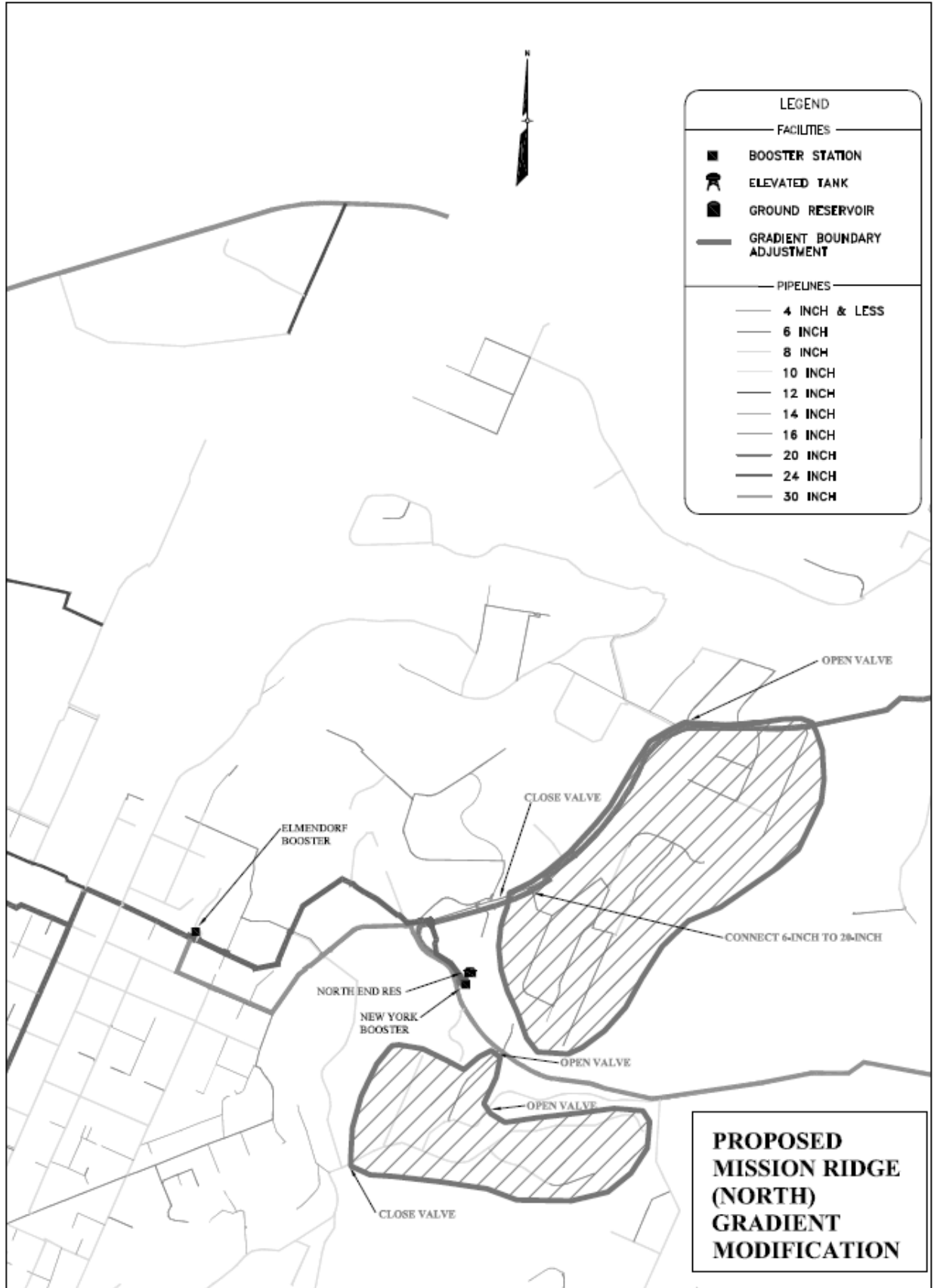
The gradient modification would only require the closure of one valve and the opening of one valve, as shown in the provided exhibit.

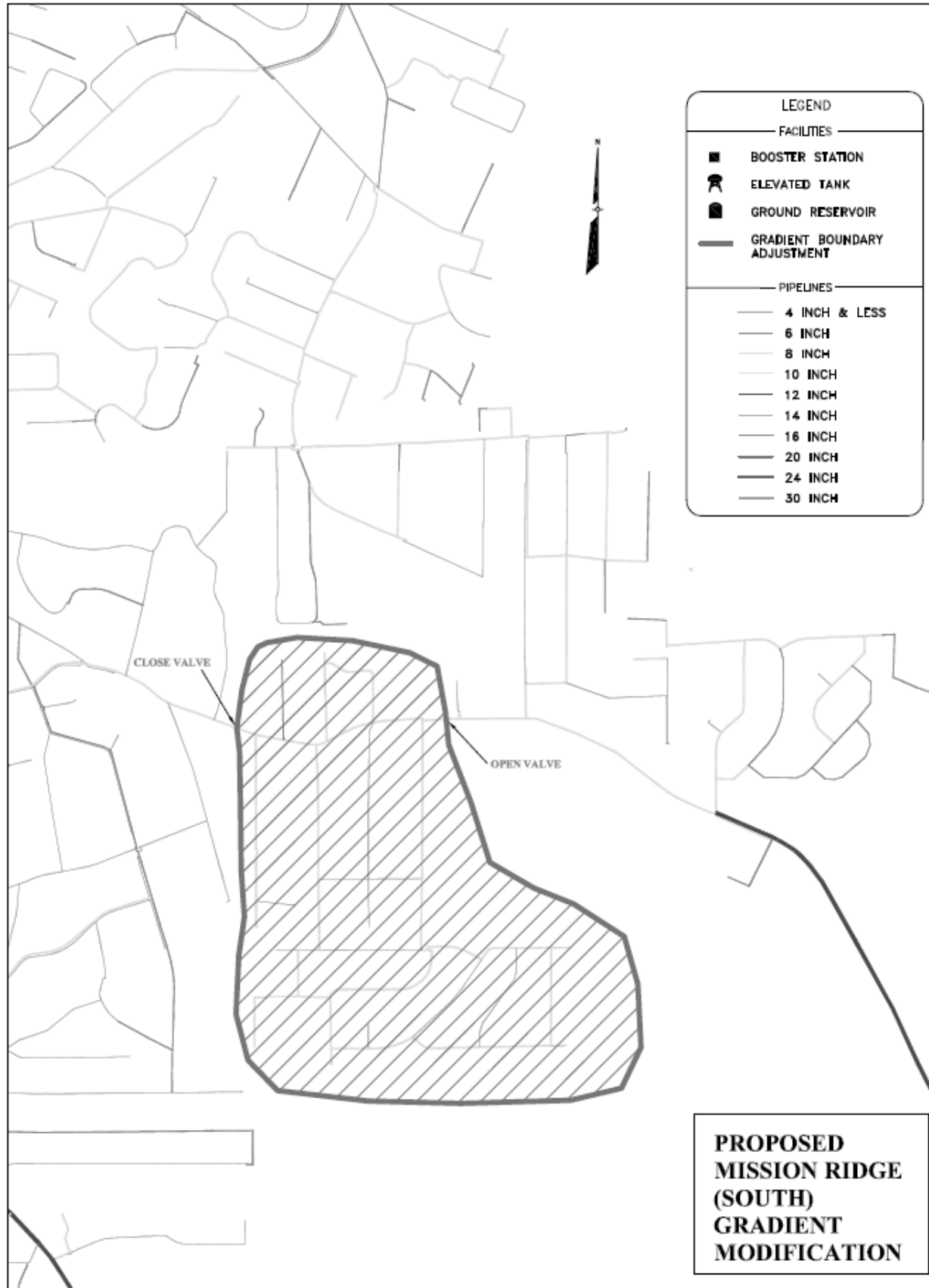
Output and Benefits:

The gradient modifications enable more desirable service pressures in the areas that are proposed to be moved. This also results in some energy savings because less water will be pumped to the higher energy gradients. It may also have some impact on reducing water leakage due to lower pressures in the water mains.

Options:

Adjustments can be made to the proposed gradient boundary modifications as long as adequate service pressures are maintained.





Budget Discussion:

The only main installation is a short connection from a 20-inch main to a 6-inch main. The remaining field work involves opening and closing valves. A cost of \$25,000 is estimated for all of the proposed modifications.

Risks:

Maintaining the gradients in their current alignment does not result in a clear risk, although the higher pressures could increase the likelihood of a main break, along with more water leakage and energy usage over time.

Purpose Codes and Drivers:

Asset Code	Purpose Code
331 – Trans & Distribution Mains	Rel/Qual customer (pres taste etc.)

**TENNESSEE AMERICAN WATER
CHATTANOOGA**

Project A-12	
PRESSURE MANAGEMENT AND DMA STUDY	
Design and Permitting: 12 months Construction: N/A	Project Cost: \$50,000

Need for Project:

The project is recommended to evaluate options for providing improved pressure management in the system and reduction of water lost to leakage.

Background:

There exist a number of areas in the system with service pressures above 150 psi, and a few areas above 250 psi. Areas with high pressure may contribute to increased levels of leakage. TNAW has a goal of reducing the volume of water lost to leaks through various strategies. Pressure management is one tool to reduce leakage. The use of district metering areas (DMAs) can also be effective in determining where the leakage is occurring so that steps can be taken to reduce it.

The CPS analysis has identified areas of high pressure in the system, and on a macro level made some recommendations to move high pressure areas to an adjacent gradient. Preliminary analysis was also performed to determine the effectiveness of utilizing more PRVs in the system to reduce pressures. The Lookout Mountain gradient has the most potential for this solution. Further study is recommended to identify workable solutions at the micro level across the system.

Recommended Solution:

Study options for improved pressure management through the use of additional gradient adjustments, PRV stations, or other methods. Investigate the use and feasibility of DMAs in the system as a tool for leak reduction.

Output and Benefits:

The study is intended to provide feasible solutions for pressure management, which may impact energy use and reduce leakage. The use of DMAs is intended to isolate areas of leakage so targeted improvements can be made to reduce leakage in these areas.

Options:

None.

Budget Discussion:

The cost estimate for the study is \$50,000. The cost of implementation of any improvements will be detailed in the study.

Risks:

Continued high pressure areas and higher levels of leakage may persist without a focused study.

Purpose Codes and Drivers:

Asset Code	Purpose Code

**TENNESSEE AMERICAN WATER
CHATTANOOGA**

Project A-13	
CONSTRUCT 2 MG GROUND STORAGE RESERVOIR AND PUMP STATION IN EAST RIDGE – SOUTH GRADIENT	
Design and Permitting: 15 months Construction: 9 Months	Project Cost: \$3,000,000

Need for Project:

The East Ridge gradient as it is currently aligned has a storage deficit. The recommendation to divide the gradient into East Ridge – North (“North”) and East Ridge – South (“South”) provides adequate storage capacity for the North, but a storage deficit exists in the South. The need for additional storage capacity is driven by the large demands in the gradient and the projection for continued growth, especially with the delivery of higher flows to Catoosa UD.

Background:

The recommendation to divide the gradient into the North and South enables full utilization of the Jenkins Road reservoir and adequate storage capacity in the North. Some of this storage capacity can be utilized in the South through the delivery of peak and emergency flows through the proposed PRV stations. However, additional storage volume is recommended in the South to overcome the existing storage deficit, and to position the South gradient with the ability to meet the projected growing demand in this area of the system.

The current storage need in the South is approximately 1.4 MG, when considering the equalization and fire storage requirements. With approximately 0.8 MG available from the East Ridge reservoir, a storage deficit of approximately 0.6 MG exists in the gradient. The storage deficit is projected to increase to approximately 0.8 MG by 2030. In addition, all of the current storage exists on the far west side of the gradient. The ability to receive flows through the proposed PRV stations provides support to the east side of the gradient during peak and emergency demands; however, these connections can only provide a certain level of support without impacting service delivery in the North gradient. Therefore, a new storage facility in the southeastern side of the gradient will provide the most benefit, especially with the projection of higher flows to Catoosa UD.

Various locations were considered for a new storage facility, along with the option of constructing a pumped ground reservoir versus floating storage. This is discussed in more detail below.

Recommended Solution:

It is recommended to construct a 2 MG ground reservoir and pump station in the southeast portion of the East Ridge - South gradient. The proposed location is shown below. It is noted that the 20-inch main location appears to be shifted some to the right at the proposed tank location. The potential property is just left of the tank location.



The proposed location was chosen after a review of potential locations for constructing a new storage facility. First, the evaluation of whether an elevated tank or a floating ground reservoir could be built in the gradient was performed. In order to float with the East Ridge reservoir, at an overflow elevation of 1016.75 ft msl, the overflow elevation of a new tank on the southeast side of the gradient should be at least 1000 ft msl. When considering a maximum height of 160 ft for an elevated tank, the minimum needed ground elevation is approximately 840 ft msl. There does not appear to be any land available at this elevation in the southeast part of the gradient.

There are some ground elevations that are greater than 840 ft msl along Panorama Drive, but this area is already built out. The ground elevations are generally lower in the southeast area of the gradient, which does not make it feasible to construct an elevated tank or floating ground reservoir.

Locations were then evaluated for the construction of a ground reservoir and pump station. Open spaces that would provide the most hydraulic benefit with the existing distribution network were considered. One goal is to locate the storage in the southern end of the gradient towards the east side. This area will provide a storage buffer to the high flows going to Catoosa UD, as well as the other growing demands in the area. With the East Ridge reservoir on the west side of the gradient, and the proposed PRV stations on the north and east sides, all areas of the gradient will then have the ability to receive the needed equalization flows and emergency or fire flows.

The location chosen for planning purposes is adjacent to the recently installed 20-inch main off of Ringgold Road. It is recommended that property be secured at this location, or another suitable nearby location, for construction of the storage facility.

A volume of 2 MG is recommended for the ground reservoir to provide the needed storage volume through the 2030 planning horizon and beyond. As noted earlier, approximately 0.8 MG in additional storage volume is needed through 2030 to meet just the equalization and fire reserve needs. The additional volume is recommended to provide additional service reliability in the event of an emergency or critical failure in another part of the system which would restrict the ability to deliver water to the South gradient. It will also get the system closer to meeting the TDEC guidelines for storage, which recommend having a total storage volume in the system equal to the average day demand.

Two pumps, each with preliminary design capacities of 3.0 mgd at 275 ft TDH, are recommended at the pump station. Variable frequency drive (VFD) motors are recommended to enable the delivery of a range of flows into the system. A generator is also recommended to provide backup power in the event of a power outage.

Output and Benefits:

Construction of the proposed storage facility will provide adequate storage volume in the East Ridge – South gradient. This project, along with the recommendations to divide the East Ridge gradient, will enable more consistent service delivery, especially when peak flows are delivered to Catoosa UD. The ability to deliver equalization and fire flows from the proposed storage facility to meet the peak flows in the area will reduce the needed transmission capacity from the East Ridge booster station and reservoir. This will also enable more consistent service pressures in the gradient.

Model simulation indicates that the South gradient can provide adequate service delivery with the proposed gradient modification and new storage facility, while providing flows of up to approximately 2.5 mgd to Catoosa UD. Additional transmission capacity is recommended in a separate project for delivering flows higher than 2.5 mgd to Catoosa UD.

The graphs at the end of the project description illustrate the modeled results during the 2020 maximum day EPS scenario, which includes a fixed flow of 2.5 mgd to Catoosa UD.

Options:

The option to retire the East Ridge reservoir, or convert it to pumped storage, was considered in the evaluation of new storage in the gradient. It was determined that pumping from the reservoir would not provide any benefit. The use of the East Ridge reservoir as floating storage maintains a suitable and effective HGL for the gradient. It is not necessary to raise the HGL in the gradient by pumping from the reservoir. In fact, this would result in excessively high service pressures for the lowest elevation customers in the gradient. Retiring the East Ridge reservoir would also provide a challenge in maintaining a consistent HGL and resulting pressures on the west side of the gradient, where most of the highest elevation customers are located. Thus, it is recommended to keep the East Ridge reservoir in service as a floating reservoir.

The option to construct more than 2 MG in storage volume can be considered. The benefits of providing additional storage volume should be weighed against the challenges presented in providing adequate water turnover from a larger storage facility.

Other locations can be considered for construction of the proposed storage facility. If land is available to construct the storage facility at a higher ground elevation, this would reduce the required pumping head when delivering pumped flow into the system from the tank, thus reducing energy costs.

Budget Discussion:

The planning level cost estimate to construct the storage facility is estimated at \$3 million, as detailed below.

2 MG GROUND RESERVOIR & PUMP STATION				
Project Component	Quantity		Unit Cost	Total
Site Work	1	LS	\$100,000	\$100,000
Tank - 2 MG	2	MG	\$600,000	\$1,200,000
Pump Building	1	LS	\$350,000	\$350,000
Pumps & VFD Motors	2	EA	\$50,000	\$100,000
Piping & Valves	1	LS	\$100,000	\$100,000
Instrumentation & Controls, Electric	1	LS	\$75,000	<u>\$75,000</u>
				\$1,925,000
	Contingency		20%	\$385,000
	Construction Subtotal			\$2,310,000
	Engineering		15%	\$346,500
	AFUDC		10%	\$231,000
Land Purchase				\$100,000
	PROJECT TOTAL			\$2,987,500
	SAY			\$3,000,000

Risks:

If the project is not completed, the South gradient will not have adequate storage capacity, which may result in low or marginal pressures during peak demands, and the inability to deliver adequate fire flows. The lack of storage in the southeast portion of the gradient may impact the ability to deliver the needed peak flows to TNAW's customers in this area, especially the projected peak flows to Catoosa UD. The lack of storage would require even larger transmission mains to the area in order to maintain adequate levels of service.

Purpose Codes and Drivers:

Asset Code	Purpose Code
330 - Dist Reservoirs & Standpipes	Rel/Qual backup or standby
311 – Pumping Equipment	

**TENNESSEE AMERICAN WATER
CHATTANOOGA**

Project A-14	
INSTALL 3,150 FT OF 8-INCH MAIN ON MARYLAND STREET & HAMILTON AVENUE	
Design and Permitting: 6 months Construction: 4 months	Project Cost: \$540,000

Need for Project:

Increased transmission capacity is needed for delivering improved fire flows to the area north of Maryland Street in the Citico gradient. Current available fire flows (AFFs) are less than 500 gpm in this area.

Background:

The area north of Maryland Street is currently served by 6-inch and smaller mains. The hydraulic restriction, along with the higher ground elevations in the area, limits the AFFs at the hydrants. Model simulation shows three of the hydrants furthest north have AFFs less than 500 gpm, two are less than 750 gpm, and two are less than 1000 gpm. The hydrant furthest north is located next to a larger educational building.

Recommended Solution:

Install approximately 3,150 feet of 8-inch main, from the intersection of Maryland Street and Spears Avenue, extending east on Maryland Street then north on Hamilton Avenue to the last hydrant along Hamilton Avenue. The new main replaces 6-inch main, shown in cyan on the exhibit on the following page.

Output and Benefits:

The proposed main will increase all of the AFFs in the area to above 500 gpm. The AFF at the hydrant furthest north on Hamilton Avenue will improve to approximately 750 gpm, from approximately 360 gpm. The AFFs at the remaining hydrants north of Maryland Street are all greater than 750 gpm.



Options:

No options were considered.

Budget Discussion:

The planning level cost estimate for the project is \$540,000, based on an overall cost of \$170/LF for the installation of 8-inch main.

Risks:

If the proposed main is not installed, AFFs in this area will remain under 500 gpm.

Purpose Codes and Drivers:

Asset Code	Purpose Code
331 – Trans & Distribution Mains	Rel/Qual customer (pres taste etc.)

**TENNESSEE AMERICAN WATER
CHATTANOOGA**

Project E-1	
ENERGY REDUCTION AND EFFICIENCY	
Design and Permitting: 12 months	
Construction: 12 months	Project Cost: \$870,000

Need for Project:

An energy study conducted in parallel with this CPS (“Nov, 2015) identified several opportunities for projects that would decrease the overall energy use, energy costs and Greenhouse Gas (“GHG”) emissions at the Citico facility and at one location in the distribution system. These projects are in addition to the recommended Priority A and Priority B projects and include:

- Select Motor and Pump Upgrades,
- Instrumentation and Monitoring,
- Solar Panels,
- Convert GSA3 tariff to TDGSA3 tariff.

The recommended projects will provide the following benefits to TNAW:

<i>Potential Energy and Demand Savings</i>
• <i>1,000,000 kWh annual reduction in energy</i>
• <i>\$250,000 annual reduction in energy and demand costs,</i>
• <i>1,337,150 ton annual reduction in GHG emissions.</i>

Background:

In conjunction with this CPS, and issued under a separate cover, TNAW authorized an energy study for the Chattanooga system. The study included the following components:

Energy Study Components	
• Review of one year of energy bills, • Tariff Analysis, • Energy and demand cost trending, • Peak Load Data Analysis, • Load Factor Analysis, • Motors, VFDs and Pumps	• SCADA Monitoring and Controls, • Alternate Energy Evaluation • Greenhouse Gas Emissions, • Project Financing • Recommendations

Several recommendations were made as part of the energy evaluation, ranging from operational recommendations to capital projects. The proposed projects are included as part of the CPS in order to capture potential capital expenditures for TNAW's budgeting. Three categories of capital projects were identified:

Select Motor and Pump Upgrades – A total of 31 pump and motor combinations exceeding 100 hp exist in TNAW's system, including distribution pumps. Of these pump and motor combinations, 8 of them have had wire to water testing with the past 6 years, providing an accurate and recent representation of wire to water efficiency. Utilizing this information, in combination with installation date and conversations with production personnel, four motor replacements have been identified. Rather than pump/motor combinations, motor replacements were identified because the difference in efficiencies between the current motor and a new NEMA high efficiency motor are known. The replacement cost is also more easily estimated than a combination motor/pump replacement. There is also less information available on the pumps and when/if they may have been rehabilitated. Two of the motor replacements are recommended for replacement solely for a gain in energy efficiency (the 500 hp motor driving Citico LS 12 and the 600 hp motor driving Citico HS 21). The remaining motor replacement (Lookout 4) has been identified as critical to the operations and is close to failing. A fourth motor (Citico HS 11) was identified has already been replaced earlier this year.

Replacing motors and/or pumps at the Citico station is partially dependent upon the timing of upgrading from the current 2,300V configuration to 480V, and assumes TNAW has opted to hold off on the larger switchgear and transformer upgrades. The motors that have been identified for replacement are standard efficiency motors. For the larger motors in TNAW's system, an efficiency Increase of 4.5% is feasible with an upgrade to a NEMA premium efficiency motor.

In addition to the motor upgrades, one of the pumps in the Citico plant (Citico HS 16) is operating at an inefficient point on its original pump curve. After discussion with TNAW operations, and a review of system head data and the original pump curve, it appears that smaller impellers would yield a 6% increase in efficiency. An impeller trim has been recommended for Citico HS 16.

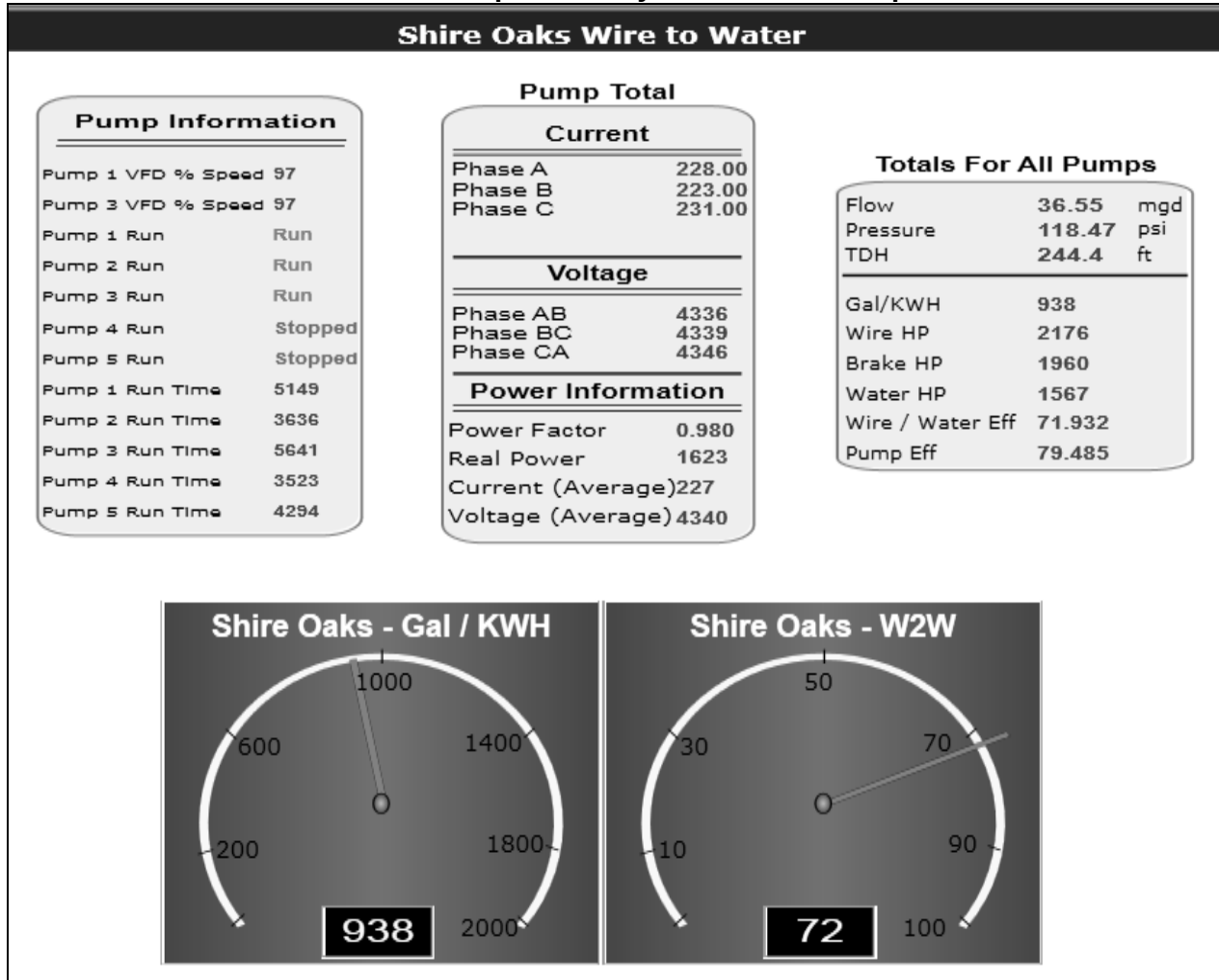
The motors and pump that have been identified as candidates for replacement are shown below in **Table 1**, along with a short list of other motors with early installation dates that were screened. The short list was developed based on a combination of motor age wire to water testing results. Based on the replacement suggestions, approximately 1,000 MWH would be saved, and, roughly \$80,000.

Note that the analysis utilizes current run times for the pumps. Should TNAW choose to utilize a pump more often, the analysis would change. As an example, if each of the motors below were run for 75% of the time, all of the financial metrics turn positive, except for Lookout 4.

Table 1													
Motor Replacement and Impeller Trim Energy and Cost Savings													
Facility	Pump ID	Install Date	HP	Run Time	Annual GHG Saved (tCO2)+	Cost	Annual kWh Saved	Annual Energy Costs Saved	Simple Payback	NPV ⁽¹⁾	BCR ⁽²⁾	IRR ⁽³⁾	Replacement Candidate?
Citico	LS 12	1996	500	88%	78	\$73,954	129,058	\$14,196	5	\$84,293	2.14	16.52%	Yes
Citico	LS 14	1950	600	38%	41	\$90,264	66,959	\$7,365	12	-\$8,162	0.91	5.34%	No
Citico	HS 11	2015	900	100%	160	\$130,000	264,236	\$29,066	4	\$193,996	2.49	22.21%	Yes*
Citico	HS 19	1951	400	34%	24	\$92,949	40,113	\$4,412	21	-\$43,764	0.53	1.36%	No
Citico	HS 20	1980	250	30%	13	\$64,457	22,026	\$2,423	27	-\$37,450	0.42	0.00%	No
Lookout	4	N/A	250	5%	2	\$35,993	3,671	\$220	163	-\$33,538	0.07	0.00%	Yes**
Lookout	6	N/A	450	20%	16	\$94,306	26,538	\$1,592	59	-\$76,557	0.19	0.00%	No
Citico	HS 17	1951	600	8%	8	\$105,717	13,432	\$1,477	72	-\$89,247	0.16	0.00%	No
Citico	HS 21	1953	600	61%	65	\$96,311	107,487	\$11,824	8	\$35,485	1.37	11.46%	Yes
Citico	HS 16	2014	600	6%	7	\$2,920	11,197	\$1,232	2	\$10,810	4.70	54.82%	Yes***
Total:					440	\$879,838	724,657	\$78,202					
Replacement Candidates:					313	\$339,179	515,649	\$56,538					
*Motor Replaced earlier this year.													
**Reliability concern.													
***Impeller Trim													
+Metric Ton													
(1) NPV - The difference in Net Present Values of the "do nothing" (current operations) and replacement. An NPV >0 indicates a beneficial project.													
(2) BCR - Benefit Cost Ratio >1 indicates a beneficial project.													
(3) IRR - Internal Rate of Return exceeding the discount rate of 7.5% indicates a beneficial project.													

Instrumentation and Monitoring – Power meters are designed to capture demand peaks, energy use and a variety of other electrical metrics. This, in conjunction with pressure and flow monitoring, allows for real time efficiency monitoring, Instrumentation and monitoring provides value in terms of which pumps (or groups of pumps) to use to optimize energy use, as well as real time wire to water monitoring. Industry data indicates that 10 to 15% energy efficiency can be gained by optimizing equipment use through real time monitoring. A conservative estimate of 2% would yield 320,000 annual kWh saved for a total estimated cost of \$30,000 at the Citico Station. The cost estimate is based on American Water experience at other systems. An example of the output and display from a PAW system is shown below in **Exhibit 1**.

Exhibit 1 – Pump Efficiency Dashboard Example



Solar Panels – Solar panel costs have come down substantially over the past ten years, and especially in the past five years. The decrease in cost increases the financial feasibility of solar installation, even in States such as Tennessee, where the price of electricity is low. The demolition of Filter Building No. 3 and Basin No. 1 provide potential sites for solar panels. There would be scaled cost savings if the panels were installed in conjunction with the demolition of these facilities. Assuming these sites were utilized for a solar array, approximately 18,000 square feet of area would be available for roughly 200,000 useable kWh/year. Assuming \$0.11/kWh (including demand cost savings for an “all-in” cost), this equates to \$22,000/year in saved electrical costs.

Solar panels currently qualify for a 30% Investment Tax Credit. Assuming this credit would be applied, the net system cost of the project for TNAW is estimated to be \$400,000, with a total payback between 6 and 7 years. Simple payback for the solar panels, with SREC payments and the 30% Tax Credit, is approximately 6 years using the assumptions outlined below.

Exhibit 2
Proposed Solar Pane Locations



Table 2
Solar Panel Cost Analysis

Area Used	2013 Annual Usage	ac Demand*	Site Elect	Recom System Sized	kWh of Recom	Annual Est Energy Savings	Annual Est SREC Pmts*	Estimated System Cost/KW	Federal Tax Credit	TNAW Costs (AFUDC etc)	Est Net System Cost	25 year avg Depreciation	O&M	Simple Payback
sq ft	kWh	KW	(\$/kW)	KW	kWh	\$	\$0.11	\$2,500	30%	20%	\$			(yrs)
18000	201,705	150	0.11	150	201,705	\$22,188		\$375,000	\$0	\$75,000	\$450,000	\$15,000	\$1,000	12.4
18000	201,705	150	0.11	150	201,705	\$22,188		\$375,000	\$112,500	\$75,000	\$337,500	\$15,000	\$1,000	9.3
18000	201,705	150	0.11	150	201,705	\$22,188	\$22,188	\$375,000	\$0	\$75,000	\$450,000	\$15,000	\$1,000	7.7
18000	201,705	150	0.11	150	201,705	\$22,188	\$22,188	\$375,000	\$112,500	\$75,000	\$337,500	\$15,000	\$1,000	5.8

Convert GSA3 Tariff to the TDGSA3 Tariff – The Citico WTP and the Walden S Ridge Interconnect are the only facilities that are currently on the GSA3 tariff, shown below in **Table 3**.

Table 3
Current Tariff Summary

Tariff (1)	KW range	Monthly Demand Charge	Monthly Energy Use Charge
GSA2 (Commercial)	50 kW – 1000 kW	First 50 kW = No Charge Over 50 kW = \$14.99/kW	First 15,000 kWh = \$0.08583/kWh Over 15,000 kWh = \$0.03563/kWh
GSA3 (Commercial/ Manufacturing) (2)	1000 kW – 5000 kW	First 1,000 kW = \$14.86/kW Over 1,001 kW = \$17.15/kW	\$0.03563/kWh Over 15,000 kWh = \$0.03563/kWh

Calculations indicate that TNAW could save up to \$150,000/year if they converted to TDGSA3,

which is a Time Differentiated Hours of Demand structure. The analysis is based on 2014 operating conditions and assumes the same operating conditions going forward.

The primary difference between the current GSA-3 tariff and the proposed TDGSA tariff is that the latter is based on a Time of Day ("TOD") use for the demand (kW) charge. The kW charge (\$/kW) varies between peak and off peak periods, and, in both cases is still less than the current kW charge of GSA3. The unit demand charge also varies seasonally.

The energy charge (\$/kWh) varies depending on TOD use and also varies in declining blocks, with the first 200 hours of use being more expensive than the second, which is more expensive than the third etc, up to four blocks. While the unit charge for the first 200 hours is higher than the current rate, the remaining 200-hour blocks decrease significantly.

The decrease in the energy rate, combined with the lower demand charge, is where the savings is incurred (based on current operations). Technically, if the plant is run for less hours (all else being equal based on the base year of 2015), the savings will be less. However, in practice, and based on a review of projected CPS demands, this is expected to be insignificant.

Note that this recommendation does not reduce energy consumption or peak demand, but is crafted more toward the current Citico operations, yielding an overall financial savings.

Recommended Solution:

It is recommended that TNAW consider the energy-related projects identified above. Understanding there are competing facility needs, TNAW will benefit from assessing the cost/benefit of an energy efficiency program with other projects that are core to operations.

Output and Benefits:

The projects identified above will provide energy savings and improve overall operating efficiency, while at the same time, decreasing greenhouse gases.

Options:

Considering one of the projects above, or a combination of several smaller projects will also yield energy savings.

Budget Discussion:

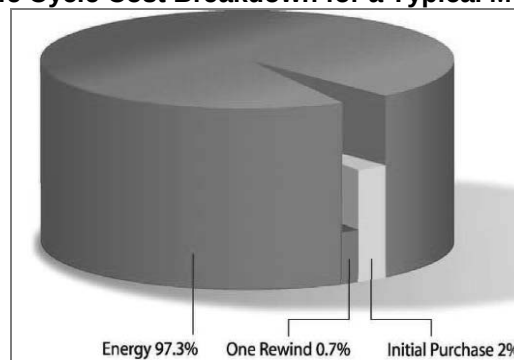
Energy related projects provide the benefit of decreasing overall electrical costs and subsequently improving operational efficiency. The current regulatory climate is conducive to

providing financial incentives, providing an opportunity to make these projects more economically feasible.

The solar project cost estimate utilizes a 30% Federal Investment Tax Credit and a Tennessee Valley Authority (“TVA”) Solar Renewable Energy Certificate (“SREC”) program which provides \$0.11/kWh. This, in conjunction with continually decreasing solar panel costs, has made an investment in solar panels more feasible from a simple payback perspective. Using the assumptions outlined above, the Simple Payback Period is estimated to be between 5 and 6 years. The estimate assumes an install cost of \$3,000/kW, which should be confirmed prior to considering the project.

The motor replacement project utilizes several metrics to evaluate the cost effectiveness of a replacement project, and assumes the projects would conform to EPB’s “custom” grant, which qualifies for \$0.11/kWh saved (this was discussed with the EPB). Up to 97% of the total life cycle cost of a motor is from electrical costs, as illustrated below in **Exhibit 3**. Simple payback does not capture the entire life of the motor, so Net Present Value (“NPV”), Benefit Cost Ratio (“BCR”) and Internal Rate of Return (“IRR”) are other metrics that can be used that capture the life span of a motor. It is ultimately up to TNAW to determine which metric provides the best business value to their operation. A positive value for either NPV or BCR represents a viable project, assuming a 7.5% discount rate, current run times and a 25 year motor life.

Exhibit 3
Life Cycle Cost Breakdown for a Typical Motor



Risks:

The solar project is highly dependent upon the SREC program and the 30% federal ITC, which is expected to expire on December 31, 2016. Construction would need to be completed by that

time. This deadline has been extended several times in the past and may also be extended beyond 2016, however this is not certain.

The motor and pump program uses project cost assumptions that may change due to issues that come up during installation. Project costs hinged on a similar project that TNAW undertook earlier this year, where a 900 hp motor was replaced for a total cost (labor plus materials) of \$130,000. The cost included a new motor, new conduit and new motor frame.

Purpose Codes and Drivers:

Asset Code	Purpose Code

**TENNESSEE AMERICAN WATER
CHATTANOOGA**

Project B-1	
INSTALL 30-INCH RIVER CROSSING FROM WTP	
Design and Permitting: 12 months Construction: 6 Months	Project Cost: \$2,500,000

Need for Project:

Improved service reliability is needed to the area north of the Tennessee River in the event of a critical failure on the existing 30-inch river crossing.

Background:

The area north of the Tennessee River is currently supplied through a 30-inch main and a 16-inch main crossing the river. The 30-inch concrete main was installed with directional drilling under the river, extending directly north from the Citico WTP. The 16-inch steel main is hung below the Walnut Street Bridge.

In the event of a critical failure on the 30-inch main, the available flows to the area north of the river would be limited by the capacity of the 16-inch main. The average and maximum day demands to this area through 2030 are approximately 5.5 mgd and 8 mgd, respectively. Model simulation was performed with the 30-inch main out of service during an average day and maximum day scenario.

For the maximum day scenario, the velocity reaches 8.7 ft/sec with a flow of nearly 8 mgd through the 16-inch main. The high headloss across the main results in pressures less than 20 psi in a few areas within the Citico gradient north of the river. Discharge pressures of nearly 100 psi are shown at the Citico WTP in order to deliver the water through the single 16-inch main.

For the average day scenario, with a flow of approximately 5.6 mgd through the 16-inch main, the velocity is approximately 6.2 ft/sec. Again, the high headloss across the main results in pressures less than 20 psi in a few areas within the Citico gradient, and discharge pressures from the Citico WTP are approximately 90 psi.

Model simulation indicates that the pressures remain above 20 psi when the flow through the 16-inch main is limited to approximately 4.6 mgd, at a velocity of 5.1 ft/sec. Therefore, it is apparent that the full average day demand of approximately 5.5 mgd could not be met in the

area north of the river in the event that the 30-inch main is out of service. For planning purposes, and in order to provide slightly higher service pressures, it is estimated that approximately 4 mgd can be supplied through the 16-inch main if the 30-inch main is out of service. This results in average and maximum day deficits of approximately 1.5 mgd and 4 mgd, respectively.

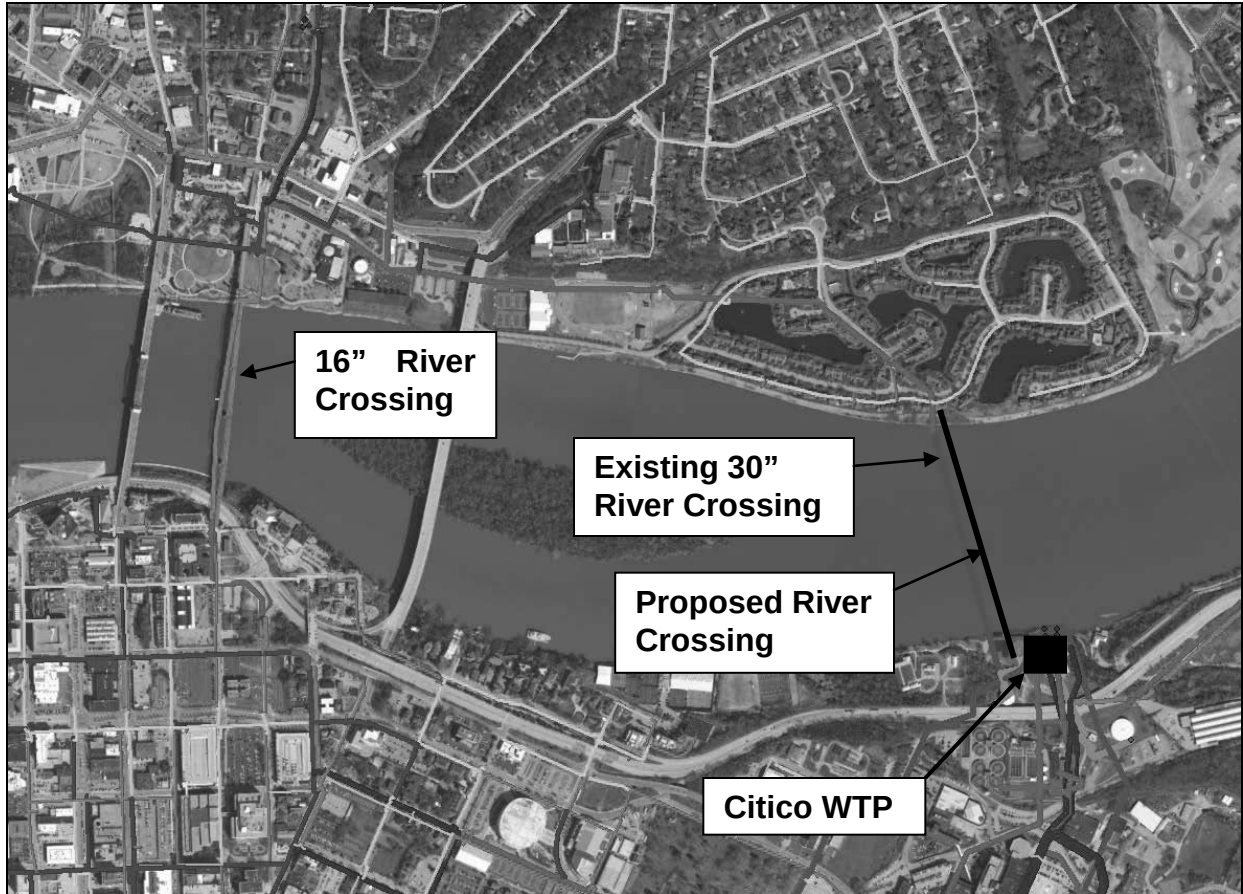
If a new main is installed across the river, it should be designed for meeting the long-term demands beyond 2030, some of which are currently unknown. This could include some additional build out growth beyond 2030 within the TNAW service area north of the river, or the potential for growth through wholesale water contracts. The main should be designed to accommodate realistic growth potential.

A potential build out maximum day demand of 10 mgd may be realistic for the area. It is also possible that wholesale water delivery may be requested from TNAW at some point in the future. Designing for a potential wholesale demand of approximately 5 mgd is used for planning purposes. With a total design demand of 15 mgd, and assuming approximately 4 mgd can be delivered through the 16-inch main, the new main should have a carrying capacity of at least 11 mgd. A 24-inch main is limited to approximately 10 mgd at a headloss gradient of 3 ft/1000 ft, so this would provide slightly less than the projected design capacity. A 30-inch main provides the projected design capacity. It also provides complete redundancy for the existing 30-inch main.

Recommended Solution:

Install a 30-inch diameter main under the Tennessee River using directional drilling, located parallel to the existing 30-inch main extending north from the Citico WTP, as shown in the exhibit on the following page.

It is noted that other options have been evaluated by TNAW, including installing two or more pipelines across the Olgiati Bridge. Because of pipeline diameter limitations on the bridge, and the high estimated cost, this is no longer an option. Directional drilling under the river appears to be the most feasible option, though other cost effective options should be considered.



Output and Benefits:

The new river crossing will improve reliability in the event of a critical main break on the existing 30-inch main. It provides complete redundancy and allows for serving future growth in this area of the system.

Options:

A 24-inch diameter main can be considered if it is significantly less costly.

Emergency interconnections can also be considered from either the Hixson UD or the Walden's Ridge UD, to provide enough supply capacity to supplement the available flow through the single 16-inch main.

Budget Discussion:

The project is estimated at a cost \$2.5 million, based on conceptual cost estimates that were prepared at an earlier stage in the river crossing evaluation.

Risks:

The primary risk of not doing the project is the inability to provide adequate levels of service in the event of a critical loss of the existing 30-inch main. At normal demands, service pressures would drop down below 20 psi in some areas of the system. Demands would need to be curtailed in order to maintain adequate service pressures. This may not be feasible with a prolonged outage caused by a critical break.

Purpose Codes and Drivers:

Asset Code	Purpose Code
331 – Trans & Distribution Mains	Rel/Qual customer (pres taste etc.)

**TENNESSEE AMERICAN WATER
CITICO PLANT**

Project B-2	
ELECTICAL IMPROVEMENTS – NEW SWITCHGEAR	
Design and Permitting: 6 months Construction: 12 Months	Project Cost: \$4,000,000

Need for Project:

The medium voltage switchgear equipment appears to be in good condition; however there is some risk with keeping, and maintaining, old electrical equipment of this nature. Due to the magnitude of replacing all of the switchgear and associated equipment, and the fact that an ongoing maintenance and parts replacement program can sustain the current switchgear, outright replacement of the switchgear only becomes feasible within the context of other major plant improvements, such as the proposed raw water pump station. Thus outright replacement of the switchgear within the 15 year timeframe of this CPS is best considered along with the replacement of the raw water pump station.

Background:

(See Project A-5 for background discussion and Appendix D for the site visit memorandum).

Recommended Alternative:

In conjunction with the new raw water pump station alternative, which involves providing a new pump station separate from the existing building, this option recommends providing a new outdoor, walk-in enclosed 2300/4160 VAC switchgear arrangement to provide dual service to both the new pump station and reconnections to the existing 2300 VAC switchgear in the existing building. This new equipment could be located in the area presently occupied by the maintenance storage building adjacent to the Utility Substation transformers. Implementation of this alternative would be coordinated with the new pump station work and not interfere with present operations until scheduled power cut-over outages are required.

Since medium voltage equipment in this voltage class is designed for 5 KV and can therefore be applied to the present 2.4 KV, the design would allow for the consideration of 4160 VAC utility service upgrades and facility applications in the future. This alternative, in conjunction with other

process improvements and replacement work, would then allow replacement of the existing 2.4 KV switch gear and motor controller equipment in the main building. The upgrades can be implemented with minimal interference to operations, while improving the overall reliability / redundancy of the facility by eliminating the sole-source service to the low service pumps. The upgrades also balance loading and dual-source capabilities for the high service pumps and station power loads. A phased approach also allows for the consideration of revising the 2400 volt equipment to 4160 volt equipment in the future. As part of that effort, it is recommended that any medium voltage motor being provided be dual wound for 2300 / 4160 VAC service (common configuration). This will maintain the initial connection to the present voltage, as well as allowing for a potential conversion to an upgraded (5 KV) service voltage in the future.

Output and Benefits:

This project provides a thorough replacement of the major electrical componentry and switchgear, and will provide reliable gear for several decades. The project would be undertaken in conjunction with a new raw water pump station.

Options:

A new raw water pump station could be constructed without new switchgear, and with the ongoing testing and maintenance associated with A-5 and B-3, however ultimate replacement would need to occur shortly thereafter. Thus there is a high economy-of-scale with utilizing the new raw water pump station as an opportunity to also replace the switchgear.

Risks:

The switchgear and transformers are both technically beyond their useful life. Because they have been historically operated well within their capacities (and will continue to be), it is possible that the equipment can be maintained until the next major pump and motor upgrade. This recommendation intends to take advantage of the next major upgrade. In the event that this opportunity is missed, the inevitability of replacing the switchgear will occur without the economies of scale if done in conjunction with the pump and motor upgrades.

Budget Discussion:

The cost for Alternative #1 is estimated to be \$4,000,000. It is assumed that this alternative would be conducted in parallel with a new raw water pump station. A detailed cost estimate is included in **Appendix B**.

Purpose Codes and Drivers:

Asset Code	Purpose Code
310 – Power Generation Equipment	Asset Renewal proactive measure

**TENNESSEE AMERICAN WATER
CHATTANOOGA**

Project B-3	
INSTALL 850 FT OF 8-INCH MAIN ON GREENWOOD ROAD & 700 FT OF 8-INCH MAIN ON SHALLOWFORD ROAD	
Design and Permitting: 6 months Construction: 4 Months	Project Cost: \$270,000

Need for Project:

Increased transmission capacity is needed for delivering improved fire flows to an area in the northern end of the Mission Ridge gradient, and in general for improving transmission north and south in Mission Ridge. Current available fire flows (AFFs) in this area are less than 750 gpm.

Background:

Model simulation shows 43 hydrants in the northern end of Mission Ridge with AFFs ranging from 500 gpm to 750 gpm. The area is primarily residential but does contain some larger commercial buildings. The piping network consists of 8-inch and smaller mains, but a section on Greenwood Road contains a 2-inch main, and a section on Shallowford Road contains a 4-inch main, both of which create a hydraulic restriction to the area.

Recommended Solution:

Install approximately 850 feet of 8-inch main on Greenwood Road, from Wilcox Boulevard to Through Street. Install approximately 700 feet of 8-inch main on Shallowford Road, from Ridgeside Road north to the existing 8-inch main. Exhibits of the proposed pipelines are shown on the following page. The new pipelines replace 2-inch and 4-inch main.

Output and Benefits:

The improvement will increase the AFFs in 41 of the 43 hydrants to above 1,000 gpm, and up to nearly 1,500 gpm in some hydrants. Two of the hydrants are shown to have AFFs ranging from 750 gpm to 1000 gpm.



Options:

No options were considered.

Budget Discussion:

The planning level cost estimate for the project is \$270,000, based on an overall cost of \$170/LF for the installation of 8-inch main.

Risks:

If the proposed main is not installed, AFFs in this area will range from 500 gpm to 750 gpm.

Purpose Codes and Drivers:

Asset Code	Purpose Code
331 – Trans & Distribution Mains	Rel/Qual customer (pres taste etc.)

**TENNESSEE AMERICAN WATER
CHATTANOOGA**

Project B-4	
INSTALL 9,000 FT OF 20-INCH MAIN ON RINGGOLD ROAD	
Design and Permitting: 9 months	
Construction: 6 Months	Project Cost: \$2,300,000

Need for Project:

Increased transmission capacity is needed in order to maintain adequate levels of service while delivering the projected flows to the growing southern portion of the East Ridge gradient, especially the higher peak flows to Catoosa UD. It is predicted that this project will be needed when peak flows to Catoosa UD reach approximately 2.5 mgd.

Background:

A primary reason for increased demand in the East Ridge – South gradient is the higher peak flows that are projected for Catoosa UD. The current peak flows are approximately 1.5 mgd when their booster pumps are on. Under the base growth scenario, their peak flows are projected to increase to 2.5 mgd by 2020 and 4 mgd by 2030. The high growth scenario projects Catoosa's peak flows to reach approximately 6 mgd by 2030. It is possible that even higher flows may be requested beyond the current planning horizon, with much depending on the condition of their deteriorating well supplies.

The existing transmission capacity to the Catoosa UD delivery point and this area of the gradient is limited. A 12-inch main extends most of the distance from the East Ridge reservoir to close to the Catoosa UD delivery point, where it is connected to a recently installed 20-inch main. The piping network of 8-inch and smaller mains provides some, though minimal, assistance in delivering flows to this area.

After completion of the East Ridge gradient division with the PRV stations, and the proposed ground reservoir and pump station in East Ridge - South, model simulation indicates that the existing piping network will be adequate for delivering flows of up to approximately 2.5 mgd to Catoosa UD. However, model simulation of this demand scenario predicts velocities approaching 6 ft/sec and a headloss gradient of approximately 7 ft/1000 ft in portions of the existing 12-inch transmission main on Ringgold Road. Therefore, the proposed transmission main should be installed when the flows to Catoosa UD reach approximately 2.5 mgd.

Additional transmission improvements are also recommended if peak flows to Catoosa UD exceed 4 mgd.

Recommended Solution:

Install approximately 9,000 feet of 20-inch main on Ringgold Road, from the 12-inch main at McBrien Road to the 20-inch main at McDonald Road, as shown in cyan in the exhibit below. The proposed main should be installed parallel to the existing 12-inch main with a few connection points along the route.



Output and Benefits:

The proposed transmission main will provide the ability to deliver flows above 2.5 mgd and up to approximately 4 mgd to Catoosa UD while maintaining adequate system pressures in the gradient. It will also provide the ability to fill the proposed ground reservoir at these demand conditions.

Options:

An alternative pipeline route may be considered if another route is more feasible for pipeline installation and provides similar hydraulic benefit.

Budget Discussion:

The planning level cost estimate for the project is \$2.3 million, based on an overall cost of \$250/LF.

Risks:

If the transmission main is not installed, peak flows above approximately 2.5 mgd could not be delivered to Catoosa UD without resulting low service pressures. Thus, the ability to deliver flows at adequate service pressures to Catoosa UD and all the customers in the gradient will be impacted.

Purpose Codes and Drivers:

Asset Code	Purpose Code
331 – Trans & Distribution Mains	Rel/Qual customer (pres taste etc.)

**TENNESSEE AMERICAN WATER
CHATTANOOGA**

Project B-5	
CITICO MINOR FIRE FLOW IMPROVEMENTS	
Design and Permitting: 6 months Construction: 3 Months	Project Cost: \$130,000

Need for Project:

A number of minor improvements are recommended to increase the AFF at specific locations within the Citico gradient.

Background:

Model simulation of the fire flows within the Citico gradient showed a number of areas where one or a few hydrants with AFFs less than 500 gpm or 750 gpm are surrounded by hydrants with significantly higher AFFs. An evaluation of the piping in the area of the hydrants showed the ability to provide minor improvements to increase the AFFs. The improvements are detailed below, along with location exhibits.

Recommended Solution:

1. Install approximately 15 feet of 8-inch main to replace a short segment of 2-inch main on Mountain Creek Road, between Cross Street and Grandview Avenue. The 2-inch main connects a 6-inch main to an 8-inch main. With the improvement, the AFF at four hydrants increases from approximately 600 gpm to over 1,000 gpm. The hydrants are located in an area with commercial buildings.

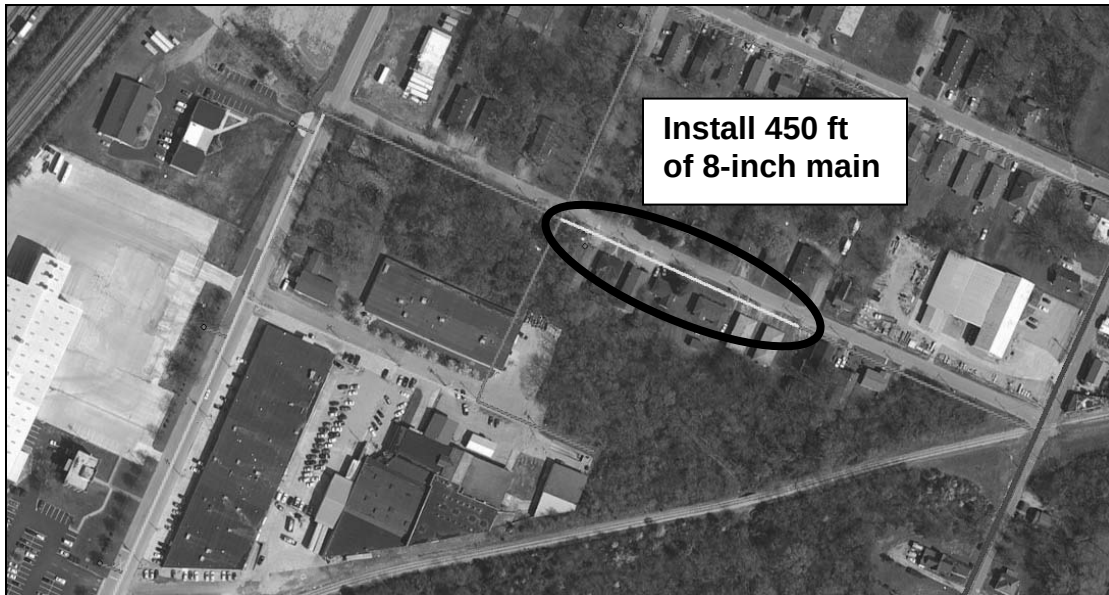


2. Connect the 6-inch main at 5th Street and Wiehl Street to the 20-inch main which extends along Wiehl Street. The hydrant on the 6-inch main at this location is shown to have an AFF of less than 20 gpm. Connecting the 6-inch main to the 20-inch main improves the AFF to over 2,000 gpm.



3. Install 450 ft of 8-inch main on Ocoee Street, replacing 2-inch main. The hydrant near the intersection of Ocoee Street and N. Hickory Street, which is connected to the 2-inch

main, has a predicted AFF of 360 gpm. The proposed main replacement improves the AFF to over 3,500 gpm.



4. Move the hydrant on Dobbs Avenue just south of Kirby Avenue from the 4-inch main to the 16-inch main. The AFF at the hydrant is currently predicted to be 480 gpm. The AFF improves to over 3,500 gpm when moved to the 16-inch main.



Output and Benefits:

The benefits for each specific improvement are stated above.

Options:

No options were considered.

Budget Discussion:

The planning level cost estimate for the various improvements total \$130,000. The estimate for each improvement is listed below.

1. \$15,000
2. \$15,000
3. \$85,000
4. \$15,000

Risks:

If the improvements are not completed, the AFFs will remain at their current levels.

Purpose Codes and Drivers:

Asset Code	Purpose Code
331 – Trans & Distribution Mains	Rel/Qual customer (pres taste etc.)

**TENNESSEE AMERICAN WATER
CHATTANOOGA**

Project B-6	
INSTALL 1,800 FT OF 12-INCH MAIN ON WAHEELA ROAD & S. CREST ROAD	
Design and Permitting: 6 months Construction: 3 Months	Project Cost: \$350,000

Need for Project:

Increased capacity for transmitting flows between the Mission Ridge and South Mission Ridge areas is needed to improve the utilization of the pumping and storage capacities across the entire gradient.

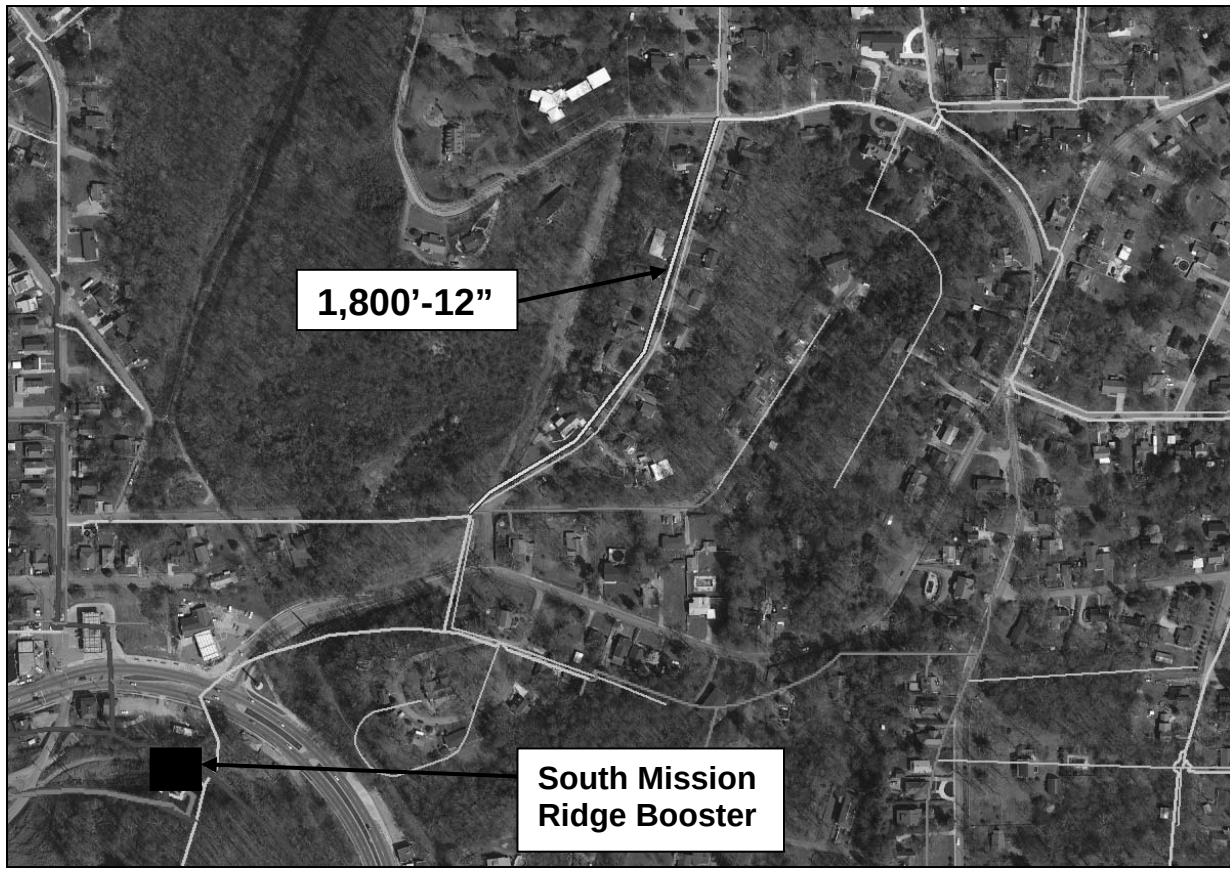
Background:

The Mission Ridge and South Mission Ridge areas are combined into the larger Mission Ridge gradient, though there is limited hydraulic connectivity between the two areas. A few small 2-inch to 6-inch diameter mains provide limited flow between the two areas of the gradient. Because of this, the South Mission Ridge booster station primarily serves the small South Mission Ridge area, which also contains the South Mission Ridge standpipe at its southern end. The Mission Ridge area is supplied by the Elmendorf booster station in the northern end and the Mission Ridge booster station in the central part of the gradient. The Mission Ridge standpipe is also located in the central part of the gradient.

Improved utilization of the available pumping capacities from the booster stations would be possible by increasing the transmission capacity across the two distinct areas. This would also enable improved sharing of the available storage capacity across the entire gradient.

Recommended Solution:

Install approximately 1,800 feet of 12-inch main on Waheela Road, from East 51st Street north to South Crest Road, then east on South Crest Road to South Seminole Drive. The 12-inch main replaces 2-inch and 6-inch main. The location is shown in cyan on the exhibit on the following page.



In addition to the new main installation, field inspections should be performed to make sure all of the valves between the South Mission Ridge and Mission Ridge areas are fully open.

Output and Benefits:

The proposed main improves that transmission capacity between the South Mission Ridge and Mission Ridge areas. In particular, it enables more of the capacity from the South Mission Ridge booster station to flow north, rather than primarily into the small South Mission Ridge area. This assists in providing more even flow distribution into the Mission Ridge gradient. It also improves the AFFs in the vicinity of the improvement.

Options:

An 8-inch diameter main may be considered, though it would provide slightly less hydraulic benefit.

Budget Discussion:

The planning level cost estimate for the project is \$350,000, based on an overall cost of \$190/LF for the installation of 12-inch main.

Risks:

If the proposed main is not installed, adequate service levels can be maintained; however, the system will continue to underutilize the pumping and storage capacity across the entire Mission Ridge gradient.

Purpose Codes and Drivers:

Asset Code	Purpose Code
331 – Trans & Distribution Mains	Rel/Qual customer (pres taste etc.)

**TENNESSEE AMERICAN WATER
CHATTANOOGA**

Project B-7	
INSTALL 3,000 FT OF 12-INCH MAIN ON CUMMINGS ROAD & RIVER GORGE DRIVE	
Design and Permitting: 6 months Construction: 4 months	Project Cost: \$670,000

Need for Project:

The proposed main is recommended to provide a second feed and increased reliability to a growing area on the western side of the St Elmo gradient.

Background:

Growth has been occurring and is projected to continue in the area west of I-24 and south of Cummings Highway in the St Elmo gradient. This area is currently served by a 12-inch and then 8-inch main on Cumming Highway. As more growth occurs, it will be important to provide a second feed to the area to improve service reliability and level of service. The current available fire flows are above approximately 1,500 gpm, which meets the needs for the primarily residential area. The available fire flows should continue to be evaluated as more growth occurs.

Recommended Solution:

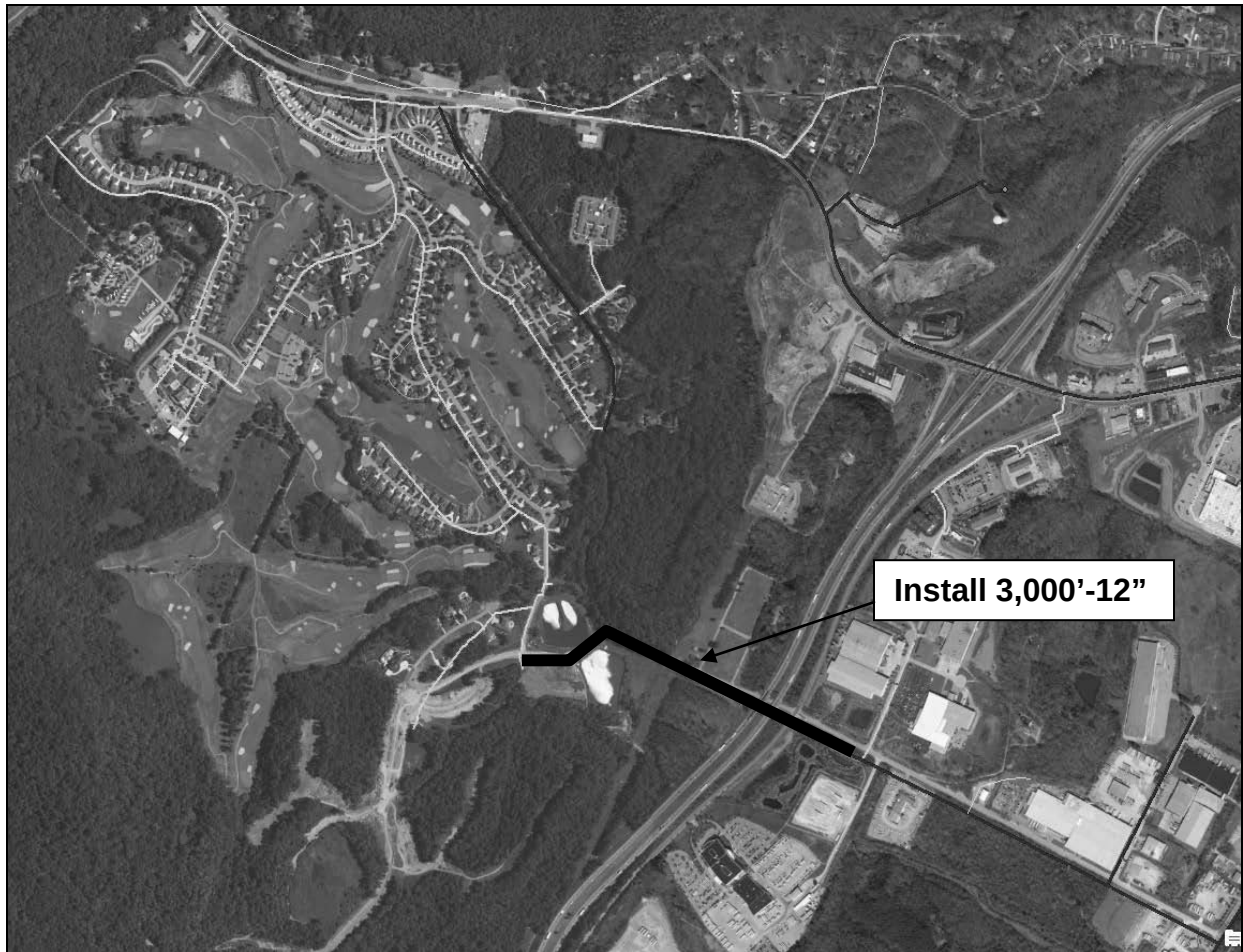
Install approximately 3,000 feet of 12-inch main in Cummings Road, extending west from the existing 12-inch main at Labeling Way to River Gorge Drive, then on River Gorge Drive to the existing 8-inch main, as shown on the following page.

Output and Benefits:

The proposed main will provide a second feed to a growing area of the St Elmo system, improving service reliability and needed flows as the demands increase. The available fire flows are predicted to increase to above 2,500 gpm in the immediate area after installation of the proposed main.

Options:

The timing of the project should coincide with the level of growth in the area and the need to provide improved levels of service.



Budget Discussion:

The planning level cost estimate for the project is \$670,000, based on an overall cost of \$190/LF for the installation of 12-inch main.

Risks:

There is a risk of service disruption if a break occurs in the single main supplying the area.

Purpose Codes and Drivers:

Asset Code	Purpose Code
331 – Trans & Distribution Mains	Growth/service reliability

**TENNESSEE AMERICAN WATER
CHATTANOOGA**

Project B-8	
INCREASE EFFECTIVE STORAGE VOLUME IN CITICO GRADIENT	
Design and Permitting: 12 months Construction: 9 Months	Project Cost: \$1,700,000

Need for Project:

A number of small areas of high elevation customers limit the available effective storage from the storage facilities in the Citico gradient to approximately 36 percent of their total volume. Additional effective storage volume is needed to improve system reliability and operational flexibility.

Background:

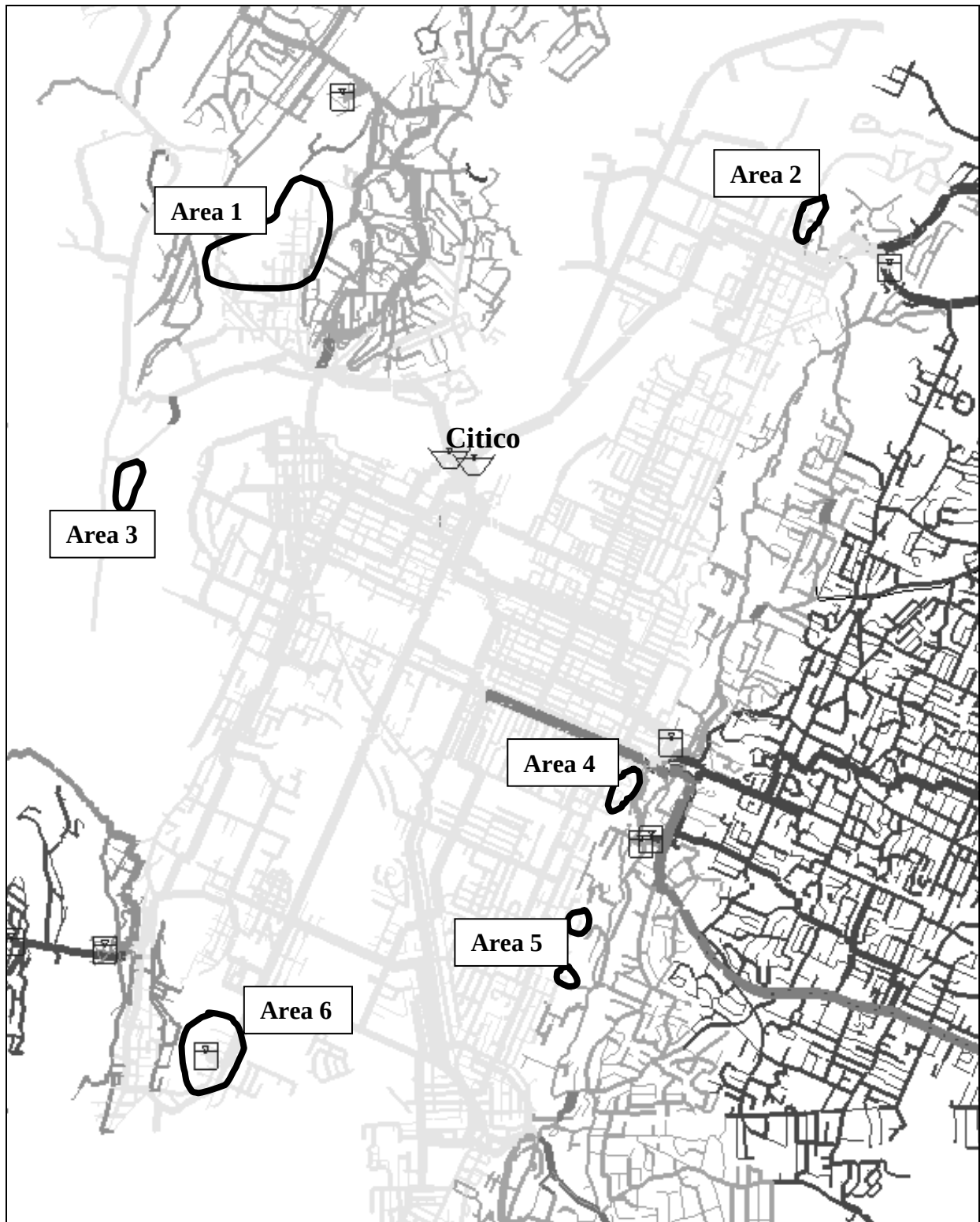
The North End reservoir (2.82 MG) and the Mission Ridge triple reservoirs (7.00 MG) provide floating ground storage in the Citico gradient, along with pumped storage from the South End reservoir (2.50 MG). The overflow elevation of the floating reservoirs is approximately 857 ft msl. The highest customer elevations in the gradient of up to approximately 800 ft limit the effective storage from the floating reservoirs to approximately 2.25 MG of their 9.80 MG total volume. The pumped South End reservoir provides 2.25 MG of effective storage, for an overall effective storage volume of 4.50 MG in the gradient.

A review of the high elevation areas found that it may be feasible to move customers that are above approximately 777 ft msl to an adjacent gradient or supply them from a small booster pump in a small closed gradient. Moving customers at this elevation and higher would increase the effective storage from 4.50 MG to 10.90 MG, an increase of 6.40 MG. This would enable nearly 90 percent of the total storage volume in the gradient to be considered effective storage.

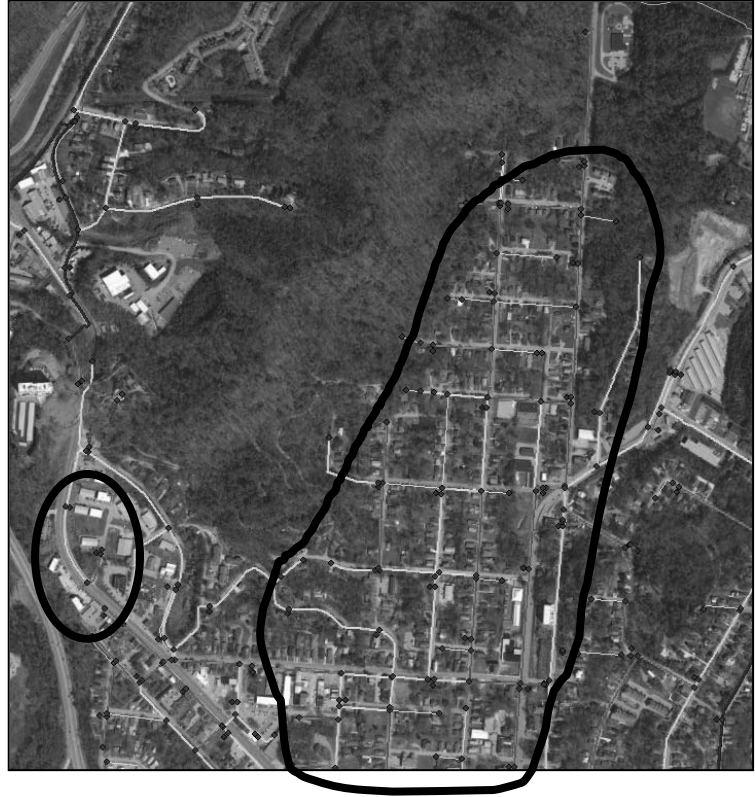
Recommended Solution:

It is recommended to make the following modifications to the gradient to increase the effective storage volume. A general recommendation is provided for each area. More specific design details should be developed when TNAW proceeds with the modification. The first overview

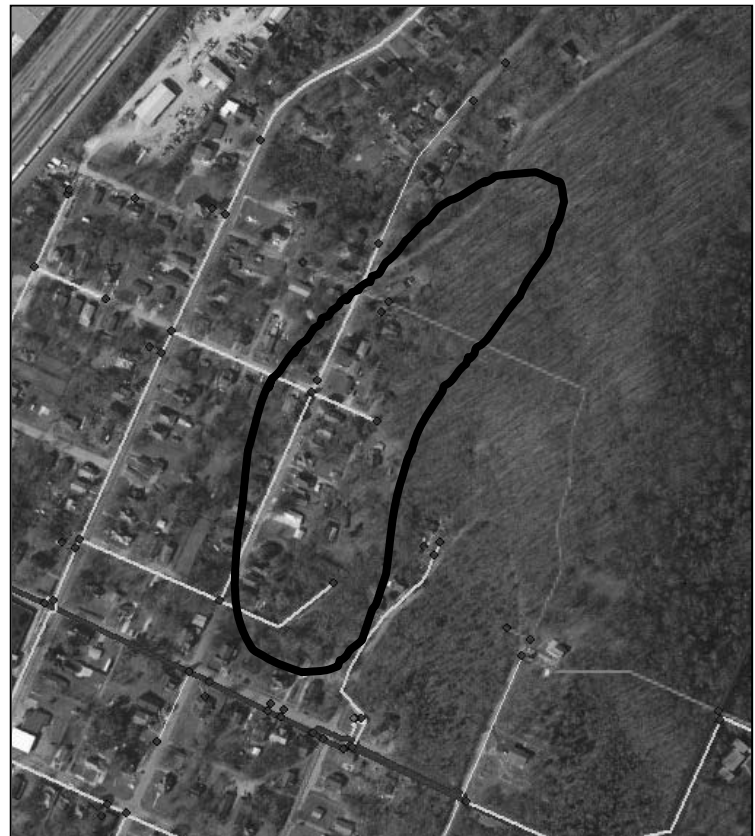
exhibit shows the areas of high elevation within the Citico gradient that are proposed to be modified. Each of these areas is then shown in more detail in the subsequent exhibits.



Area 1. For the area on the west side, it is recommended to connect the piping to the Hill City gradient and close valves to move these customers to the Hill City gradient. For the area on the east side, it is recommended to move these customers to the Hill City gradient to the east by opening and closing valves to form a new gradient boundary. If this is not feasible, a connection to the small Hill Point gradient to the north may be feasible.



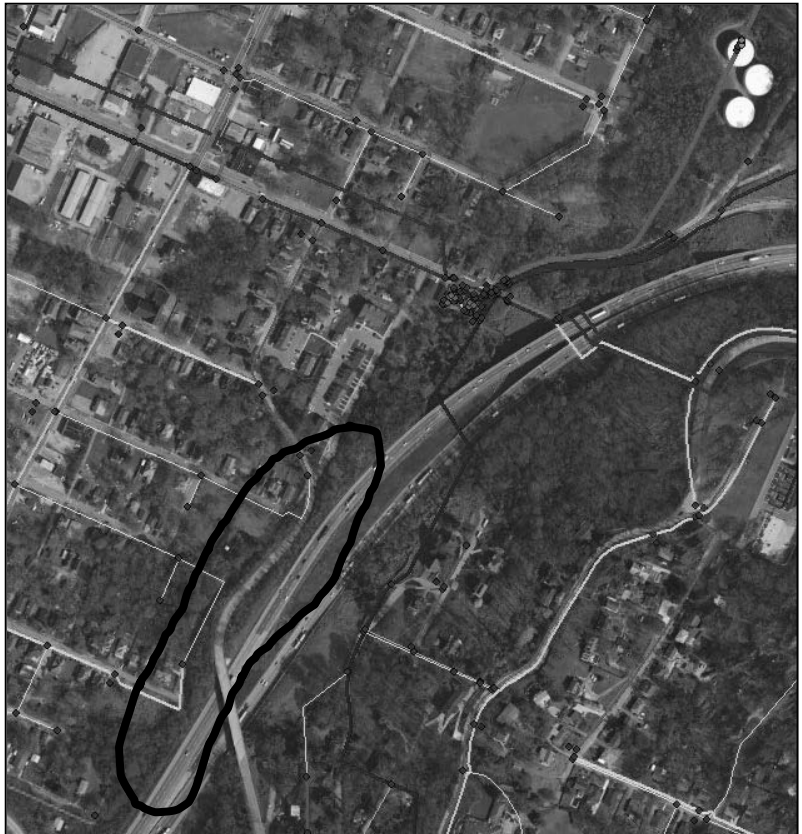
Area 2. These customers can be moved to the Mission Ridge gradient through the opening and closing of valves. However, a PRV may be necessary to reduce excessive pressures. An alternative is to supply the small area from a booster pump.



Area 3. A small booster pump is recommended to supply a few customers at high elevations.



Area 4. A small booster pump is recommended to supply the high elevation customers in this area. It is also recommended to install connecting main to enable the area to be served from one booster station.



Area 5. A small booster pump is recommended to serve the northern area, along with a short section of connecting main. The area to the south can be transferred to the Mission Ridge gradient.



Area 6. The two areas of high elevation in the vicinity of the South End reservoir are recommended to be served from small booster stations.



Output and Benefits:

The proposed modifications will provide an increase of approximately 6.4 MG in effective storage volume in the Citico gradient, from a current effective volume of 4.5 MG to an effective volume of 10.9 MG. They will enable nearly 90 percent of the total storage volume to be available as effective storage, up from approximately 36 percent. The increase in effective storage volume provides a needed increase in service reliability in the event of a critical failure at the plant or large main break emergency. It also provides more operational flexibility with the ability to lower the water level in the Citico reservoirs and provide improved water turnover.

Options:

Options should be considered for each area as the project moves into the design phase to provide a least cost solution that provides the desired service and pressure conditions for the affected customers.

Budget Discussion:

The planning level cost estimate for the proposed changes is \$1.7 million. Some changes to the proposed modifications are expected as the project moves into the design phase, and the cost estimate attempts to reflect this. The estimated cost translates to a cost of \$0.27/gallon when considering the increase of 6.4 MG in effective storage volume. This is significantly more cost effective than the construction of new storage.

CITICO GRADIENT MODIFICATIONS TO INCREASE EFFECTIVE STORAGE				
Project Component	Quantity		Unit Cost	Total
New and replacement main	3,000	LF	\$170	\$510,000
Single booster pump or PRV stations	6	EA	\$75,000	\$450,000
Field work - valves	1	LS	\$25,000	\$25,000
Miscellaneous	1	LS	\$50,000	<u>\$50,000</u>
				\$1,035,000
	Contingency		30%	\$310,500
	Construction Subtotal			\$1,345,500
	Engineering		15%	\$201,825
	AFUDC		10%	\$134,550
	PROJECT TOTAL			\$1,681,875
	SAY			\$1,700,000

Risks:

If the proposed modifications are not completed, the volume of water that can be utilized from the Citico reservoirs while maintaining service pressures above 20 psi is significantly limited. The ability to provide adequate service during an emergency or critical failure at the Citico plant is impacted by the existing limited effective storage volume.

Purpose Codes and Drivers:

Asset Code	Purpose Code
330 - Dist Reservoirs & Standpipes	Rel/Qual backup or standby

**TENNESSEE AMERICAN WATER
CITICO PLANT**

Project B-9	
NEW RAW WATER PUMP STATION	
Design and Permitting: 12 months Construction: 18 Months	Project Cost: \$35,000,000

[Note – This project (“B-9”), when combined with Projects A-6 (“System Interconnections and Chickamauga Pump Station / Interconnections”) and A-7 (“Raw Water Intake”), represents a combined solution to Chattanooga’s single intake vulnerability. The proposed projects are recommended as a phased approach – the full Criticality Analysis for Potential River Spill-Chattanooga Citico Plant is included in Appendix C].

Need for Project:

The raw water pumps are currently located in a deep pit within the pump building. Should a pump discharge pipe fail, or any pipe fail within the pit, the motors and pumps are at risk of failure and raw water pumping would be compromised. There is also a potential safety risk in the event that an upstream pipe failed while someone is in the pit.

This project also provides resiliency and reliability benefit. The intake and the pump station provide an additional source of water by extending the intake to the other side of the river. This would allow for the intake to reach the opposite side of the river in the event of a river spill that might hug the Citico station side of the river. As an alternative, the intake can be constructed first and connected to the current raw water pump station (A-7). The cost for the intake alone is estimated to be approximately \$13,000,000. While a new intake helps to address source water resiliency, it does not address the remaining concerns with the current raw water pump station, as noted above.

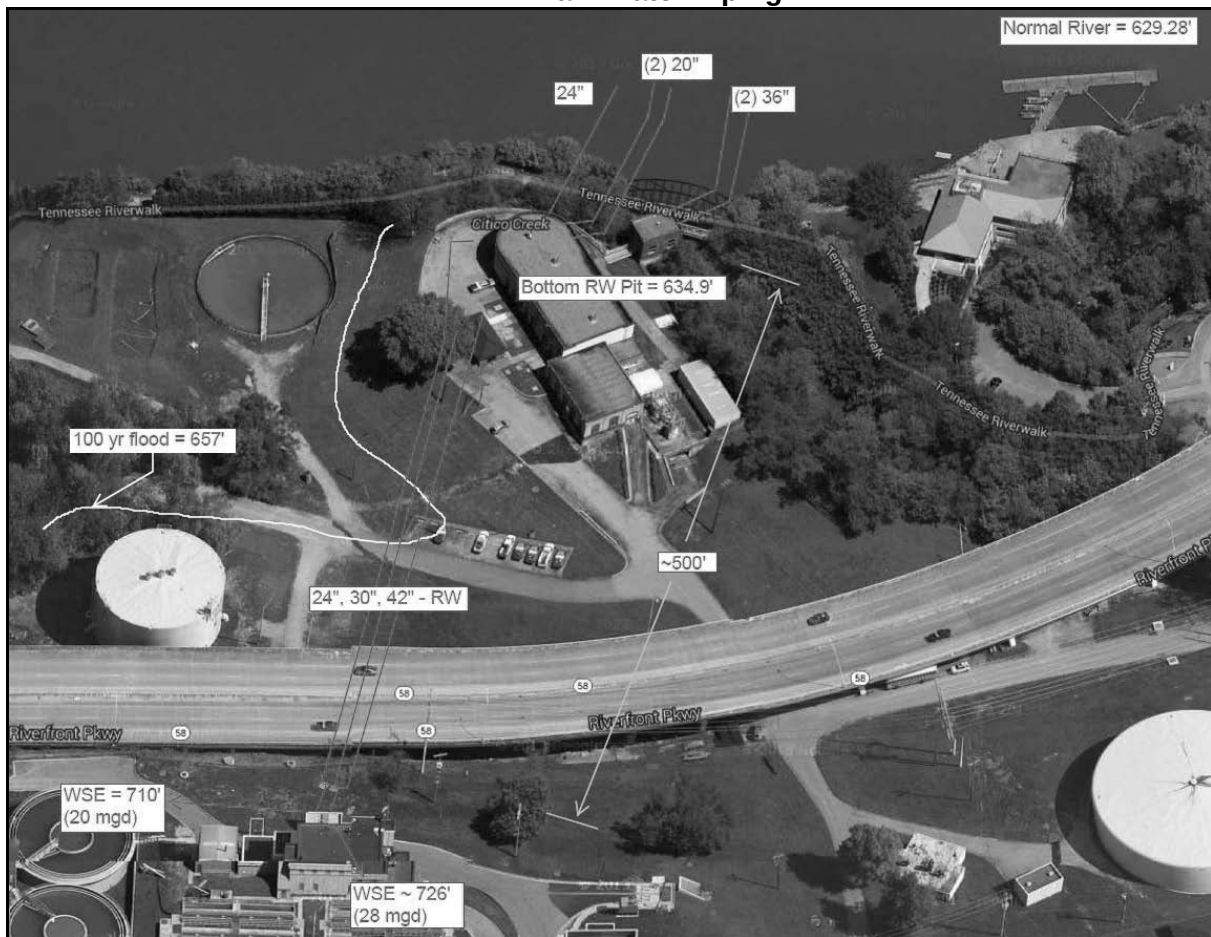
Background:

The raw water pump station is serviced by five raw water lines coming from the Tennessee River. Two 36-inch lines go through a traveling screen and discharge in to a sump, where two 36-inch lines feed a raw water suction header. The other three lines bypass the traveling screen and consist of two (2) 20-inch pipes and one (1) 24-inch pipe. These pipes are connected to the same suction header as the intake screen piping. The arrangement allows any pump to pull from any intake line. Typical operation utilizes the intake screen piping. Due to the elevation

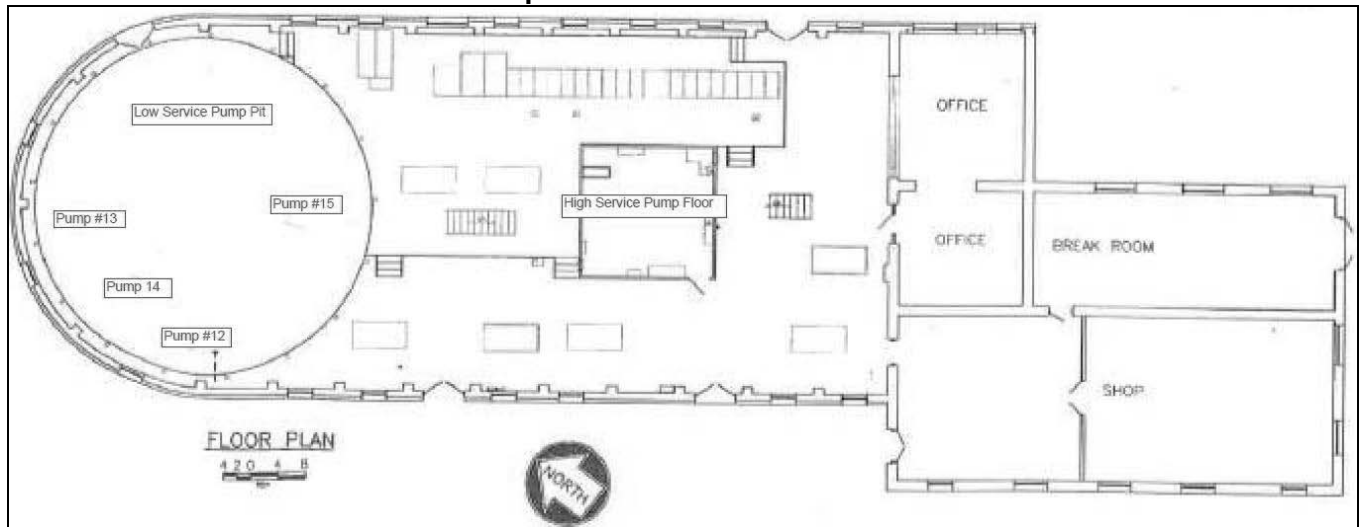
difference between the pit floor and the river, TNAW staff has noted that they need to prime the raw water pumps on occasion. The raw water pumps are aligned around the perimeter of the pit and discharge through the wall of the pit to the raw water control building.

The floor of the raw water pit is above the normal river elevation by approximately six feet. The floor of the main pump building is roughly at elevation 670'. The finished water pumps sit on the main floor of the pump building. Piping layout is shown below. A plan view of the pump house and photos of the raw water pump pit are also shown below.

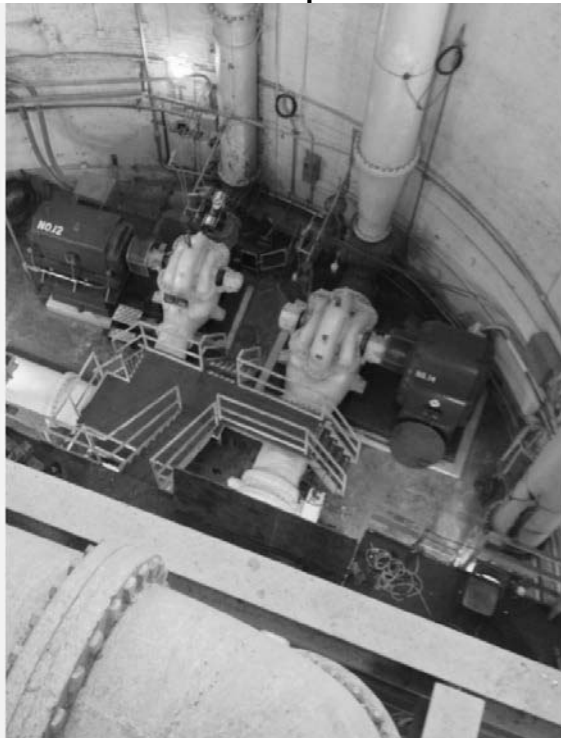
TNAW Raw Water Piping



Pump Station Floor Plan



Raw Water Pumps #12 and #14



Discharge Pipe Wall Penetration



Recommended Solution:

Two alternatives were evaluated to mitigate flooding risk to the raw water pumps. Each alternative assumes four (4) pumps capable of pumping 17 mgd with an approximate 100-foot

TDH. Assuming 10' of pipe and fitting losses, the pumps would be capable of pumping at a TDH of approximately 110' feet, or, 450 hp. In both cases the pump would be above the 100-year flood plain and/or protected from catastrophic pipe bursts.

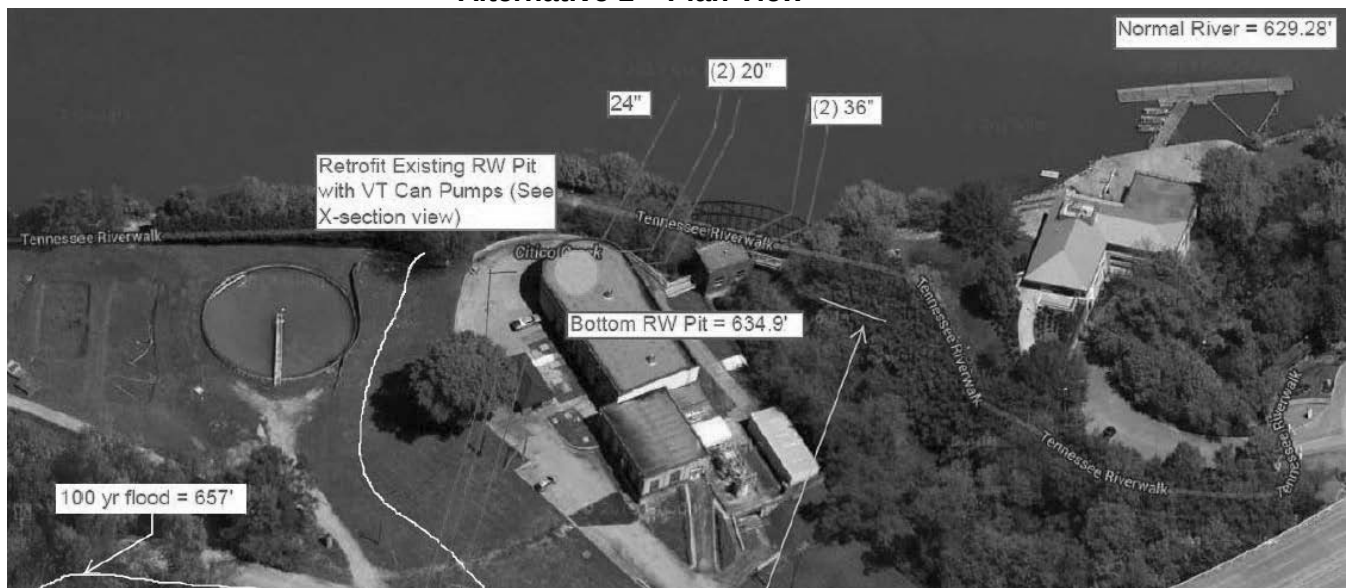
- Alternative 1 – Utilize the existing pit with pumps above elevated to building floor grade,
- *Alternative 2 – Construct a new pump station and intake - (Alternative 2 is recommended).

Alternative 1

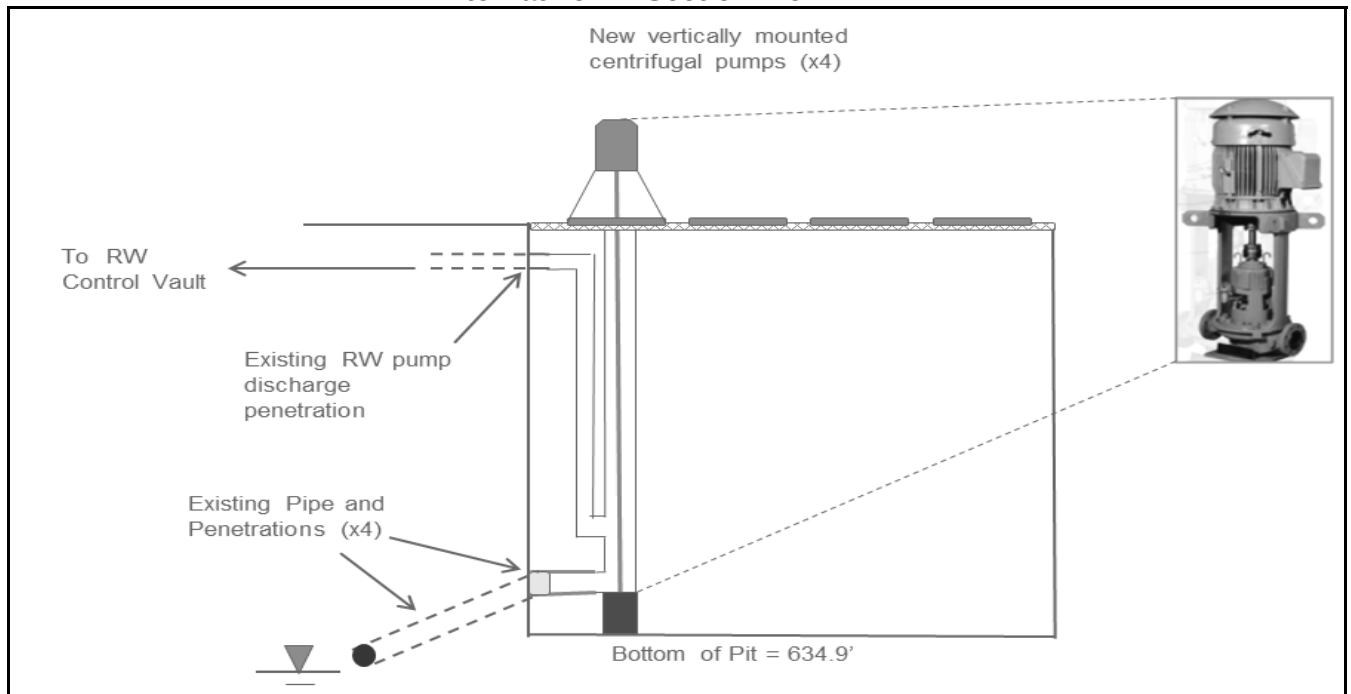
Alternative 1 utilizes the existing raw water pit in the pump building. The raw water pit is currently configured with four horizontal split case centrifugal pumps, each with suction laterals connected to a common suction header. The pumps are located at the bottom of the pit and subject to flooding. Though the pit is equipped with a 3 mgd “sump pump”, this could quickly become inundated in the event of a flood.

The project proposes elevating the motors above the flood plain by means of vertically mounted centrifugal pumps. The current raw water laterals would be utilized. The motors would reside on a new steel platform at finished floor level. Plan and section views of Alternative 1 are shown below, highlighted in blue.

Alternative 1 – Plan View



Alternative 1 – Section View



Alternative 2

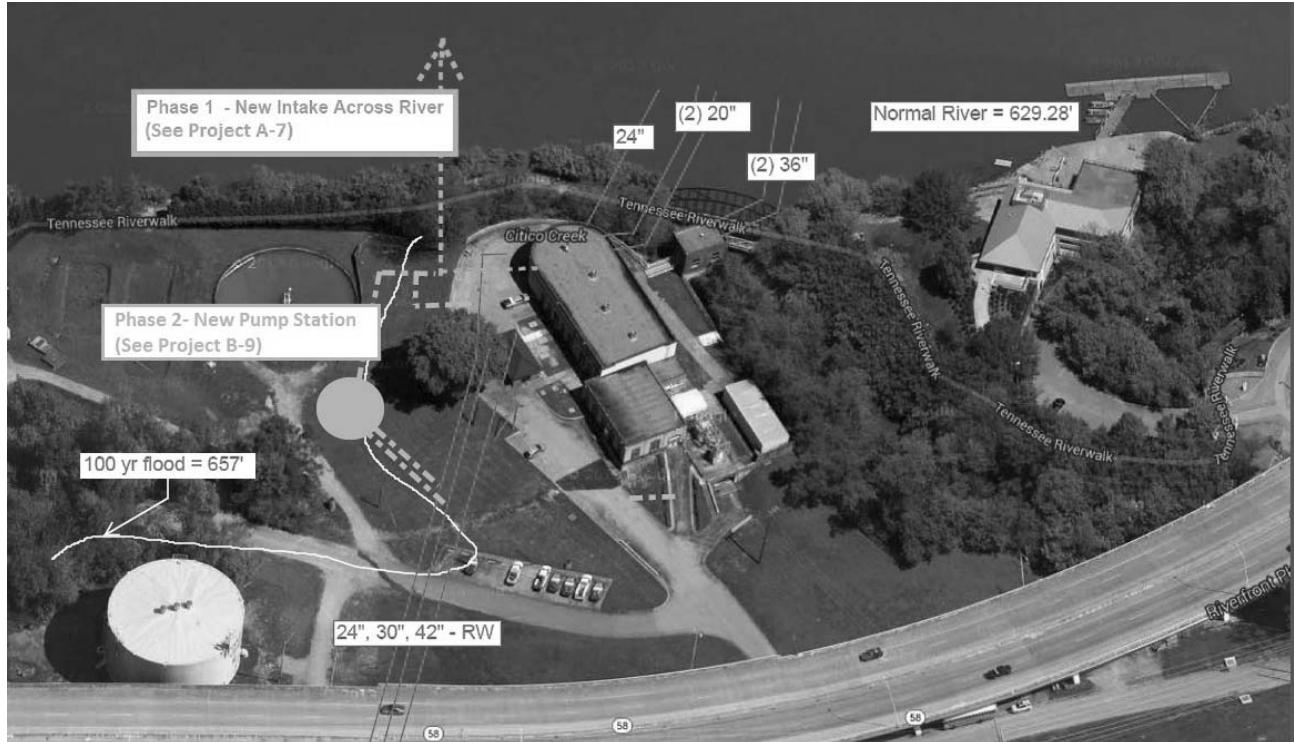
Alternative 2 assumes an entirely new pump station built outside of the floodplain, and a new intake. As proposed, the new intake would be constructed first, tying in to the current pump station (note – a design similar to this was conducted for TNAW in the 1980's however the concept was never implemented). The new intake would extend across the river and allow for a “second” intake drawing from the other side of the river, enhancing water quality while providing a potential second source in the event of a river spill.

As proposed, the pump station would be built in Phase 2, and would connect to the Phase 1 intake, while maintaining a connection to the current raw water pump station. This would provide the opportunity for a second raw water pump station in the event that one was taken out of service.

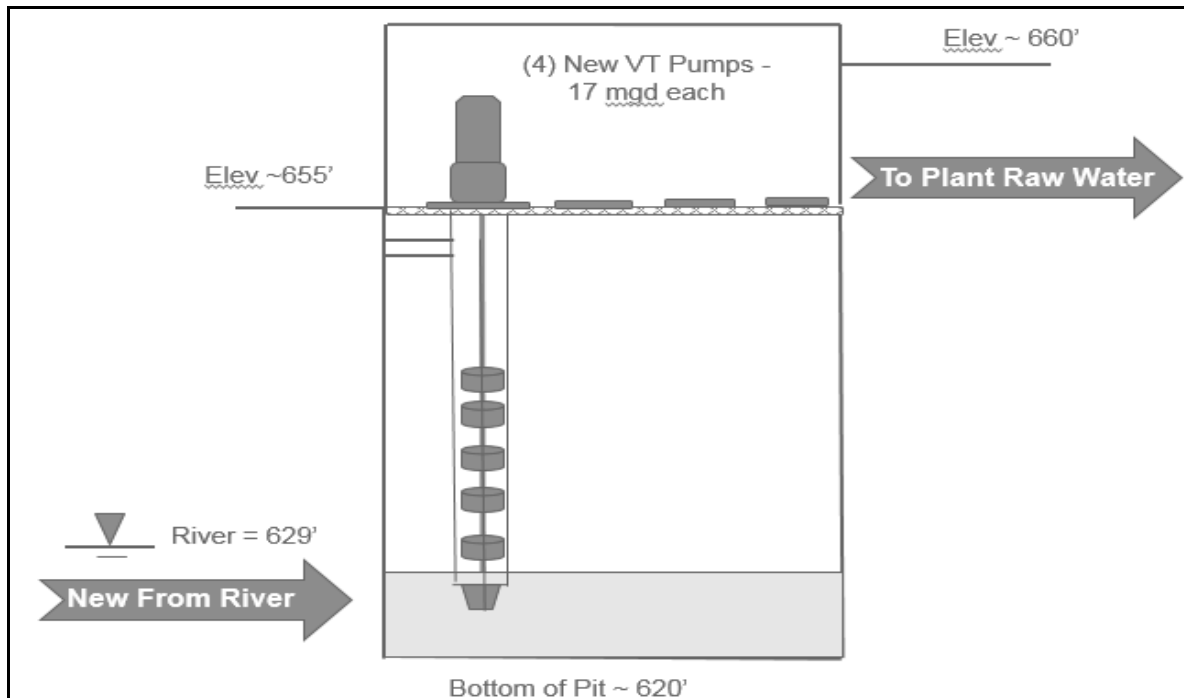
The actual location of the pump station and intake would be refined, however the current proposed location places the pit next to the current pump building, with easy access from existing roads. The concept consists of four vertical turbine pumps extending in to a wet well that is gravity fed from two new intake lines extending from the river. The bottom of the pit would be approximately 9 feet below normal river level, or, 620'. At the current location, this results in a 45' deep wet well, assuming top of the wet well is at an elevation equal to

approximately 665'. Raw water discharge mains would tie in to existing site piping. Plan and section views of Alternative 2 are shown below. Note that the actual location would depend upon other factors, including constructability and underground utility congestion.

Alternative 2 – Plan View



Alternative 2 – Section View



Advantages and Disadvantages

Alt	Advantages	Disadvantages
1	- Keeps existing piping and utilizes existing pit and intakes. - No new superstructure. - Close to electrical gear. - Less expensive	- Need to maintain prime. - Utilizing old concrete for platform attachment. - Construction while maintaining plant operation. - Limited headroom for pump install/remove.
*2	- Simpler construction. - All new equipment. - Able to be phased	- New pump building required. - New intake required.

*Selected alternative

Output and Benefits:

A new raw water pump station provides a more reliable source of raw water by removing the risk of flooding the pumps in the current building in the event of a main break within the current depressed pit. For the same reason, a new pump station also removes a potential safety hazard should anyone be in the depressed pump pit at the time of a main break.

Options:

Maintaining the same raw water pump pit is an option, however it comes with safety risk.

Risks:

The three risks for a new raw water pump station are 1) limited on site space and underground utilities, 2) successful implementation within the floodplain and 3) connections to existing raw water mains.

Budget Discussion:

The budget includes the cost of the pump station and associated mechanical appurtenances only. It does not include electrical upgrades. If electrical upgrades are included as part of the new pump station construction (as recommended in Project A-5), this will add an additional \$4,000,000. A detailed cost estimate is included in **Appendix B**.

Purpose Codes and Drivers:

Asset Code	Purpose Code
311 – Pumping Equipment	Asset Renewal poor condition

**TENNESSEE AMERICAN WATER
CITICO PLANT**

Project B-10	
ELECTRICAL IMPROVEMENTS – MOTOR CONTROLS TEST/REPLACE	
Design and Permitting: 6 months Construction: 12 Months	Project Cost: \$1,000,000

Need for Project:

The Motor Controller contactors have not been tested, along with other control components. Though they are likely to be in good shape, it is due diligence and safety concerns that drive this portion of the project.

The medium voltage switches are the only means for interrupting arc flash hazard incidents, and they are currently unidentifiable. In order to address a potential arc flash hazard, these need to be identified and replaced, if necessary.

The low/medium voltage plant transformers and associated equipment are aged and should be replaced.

Finally, replacement of the medium voltage fusible switchgear equipment will provide redundant low voltage power throughout the facility. Plant station power does not currently have redundant power.

Background:

(See Project A-5 for background discussion and Appendix D for the electrical site visit memorandum).

Recommended Solution:

- 1) Medium Voltage Motor Controller Sections
 - Replace Motor Control Contactors
 - Replace existing GE Multilin MMR's be replaced with SEL 710 MMR for SCADA integration.
 - Evaluate other control components and determine what parts may no longer be available or where it is anticipated that they will become obsolete. Obtain and/or replace with updated and newer technology

2) Medium Voltage Fusible Switchgear Equipment (GE Limitamp Units)

- Reconfigure medium voltage switchgear equipment allow for redundant operation of plant equipment.

3) Medium Voltage Fuses -

- Conduct power systems analysis to evaluate fuse capacity and replace as-necessary with appropriate fuses to maintain an adequate level of protection and safety.

4) Low Voltage Power and VFD/Bypass Starter Systems –

- Replace 2300 – 240 VAC transformer and low voltage powerboard.
- Evaluate Low Service Pump # 12 VFD and separate Bypass Starter for continued long term service. Replace with a combination VFD and integral Bypass assembly in lieu of the separate devices and transformers presently provided.
- Test and replace 2300 – 480 VAC transformers associated with the VFD and Bypass Starter for Low Service Pump # 12.

Output and Benefits:

The benefit of this project is to assess the condition of electrical equipment that has not been tested and/or equipment for which there is no record. Also, due to the obsolescence of much of the equipment, replacement parts will be difficult to obtain – this project will provide for the stockpiling of replacement parts. Finally, the medium voltage transformers will be replaced as part of this project, increasing the reliability of the plant.

Options:

It may be possible to parse out different aspects of this overall project.

Risks:

In general, the overall reliability of the electrical is diminished without this project.

Budget Discussion:

The cost for testing and replacement of various medium voltage equipment is estimated to be \$1,000,000. The overall cost of the project is decreased by parsing out some of the sub projects listed above. A detailed cost estimate is included in **Appendix B**.

Purpose Codes and Drivers:

Asset Code	Purpose Code
310 – Power Generation Equipment	Asset Renewal proactive measure

**TENNESSEE AMERICAN WATER
CHATTANOOGA**

Project B-11	
STORAGE CAPACITY IMPROVEMENTS	
Design and Permitting: Varies	
Construction: Varies	Project Cost: \$7,200,000

Need for Project:

Additional storage capacity is needed to provide increased service reliability in the event of a critical failure at the Citico treatment plant or an unexpected asset failure causing a widespread impact. In addition, the new storage volume will enable TNAW to get closer to the TDEC guideline of providing 24 hours of distribution storage based on the average daily demand.

Background:

An emergency planning assessment was performed, as discussed in Section 7, which includes a storage criticality analysis. The distribution system facilities are designed with reliability and redundancy to meet demand during a power outage and localized emergencies. It is also appropriate to consider how the system would respond to a large unexpected failure causing a widespread impact, such as contamination of the raw water supply. The American Water goal is to provide enough effective storage volume in each gradient to meet a minimum of 16 hours of demand during the minimum month demand conditions. This allows for the desired response time for implementing emergency procedures as part of TNAW's Emergency Response Plan.

Currently, the Ryall Springs, Lookout Mountain, St Elmo and Elder Mountain gradients all provide over 33 hours of effective storage volume to meet the demand. The number of hours of demand met from effective storage in the remaining gradients is as follows: Citico – 7.2 hours, Hill City – 10.9 hours, Mission Ridge – 6.2 hours, and East Ridge – 4.5 hours. It is noted that Rossville does not provide distribution storage and is included as part of the Citico gradient demand, because storage from the Citico gradient can be pumped into the Rossville gradient.

Additional storage is not recommended in the Mission Ridge gradient because it does not appear to be feasible to construct a new storage facility due to limited space at the needed elevations. The Mission Ridge booster stations pump from the Citico gradient, and thus can

utilize the storage volume from the Citico gradient. Therefore, the Mission Ridge gradient is also combined with the Citico gradient for the storage criticality analysis.

The previous recommendations in the East Ridge gradient provide an increase of 3.0 MG in effective storage volume. This increases the number of hours of demand met from effective storage from 4.5 hours to 12.4 hours.

The recommendation to modify some high elevation areas within the Citico gradient to increase the effective storage volume by 6.4 MG has the effect of increasing the number of hours of demand met from effective storage from 7.2 hours to 16.3 hours. This includes the combined analysis with the Rossville and Mission Ridge gradients.

The “Rules of TDEC” for Public Water Systems, dated October 2012, provide guidelines for distribution storage. The document states, “All community water systems serving 50 connections or more are required to have 24 hours of distribution storage based on the average daily demand for the past twelve months. Distribution storage must be located so that the instantaneous demand can be met in all areas at any time.” A few exceptions are noted, with one being the following. “Water systems which have an average daily demand of 10 million gallons or more are not required to have 24 hours of distribution storage provided the system has adopted a contingency plan for emergencies that has been approved by the Department. The contingency plan must demonstrate the water system is able to provide residential service to all customers for a 24 hour period during any emergency involving the shutdown of the treatment facility.”

TNAW is in the process of updating its Emergency Response Plan so that it can continue to provide service to its customers in the event of a critical failure at the plant, such as a contamination event on the Tennessee River. Therefore, the TNAW Chattanooga system may qualify for the above exception.

The average day demand is projected to remain fairly steady at approximately 35 mgd. The current total distribution storage capacity in the system is approximately 22 MG. An additional 13 MG of storage volume would need to be constructed to provide the guideline of providing 24 hours of average day demand in storage. However, the reliability benefit of additional storage capacity must be weighed against the operational challenges in providing adequate water turnover, and the resulting water quality challenges with increased water age and the potential for increased disinfection by-products.

Recommended Solution:

Construct three new storage facilities in the Hill City, East Ridge and Citico gradients in a phased approach to increasing the storage capacity in the system.

In the Hill City gradient, it is recommended to construct a 1.0 MG storage reservoir next to the existing Mountain Creek reservoir.

In the East Ridge gradient, it is recommended to construct a 2.0 MG reservoir next to the existing East Brainerd standpipe.

In the Citico gradient, it is recommended to construct a 2.5 MG reservoir next to the existing North End reservoir. Additional storage volume is recommended in the Citico gradient because it is the most critical gradient in the system for supplying the outlying gradients. The recommendation to modify the high elevation areas within the gradient does increase the number of hours that can be met from effective storage to 16.3 hours. However, it is considered critical to provide additional reliability within the Citico gradient.

Output and Benefits:

The additional storage volume will increase the hours of demand that can be met from effective storage to a minimum of 16 hours in each gradient. After completion of the storage recommendations, the number of hours of demand met from effective storage is as follows: Citico – 19.9 hours, Hill City – 17.1 hours, and East Ridge – 17.6 hours.

The total storage capacity in the system after completion of the storage improvements in the CPS will be nearly 30 MG. This gets the system closer to providing 24 hours of storage based on the 35 mgd average day demand, thus increasing overall service reliability.

Options:

Other locations may be considered for the construction of the new storage facilities. The storage volumes can also be adjusted to reflect any updates in the system's criticality analysis and emergency response plan.

Budget Discussion:

The planning level cost estimate for construction of all three storage facilities is estimated at \$7.2 million, at a unit cost of approximately \$1.30 per gallon.

Risks:

If the project is not completed, the ability to provide service to all customers would be compromised if there is a major emergency involving an extended shutdown of the treatment plant.

Purpose Codes and Drivers:

Asset Code	Purpose Code
330 – Dist Reservoirs & Standpipes	Reg Comp > 3 yrs

**TENNESSEE AMERICAN WATER
CHATTANOOGA**

Project B-12	
INSTALL 8,500 FT OF 24-INCH AND 16,000 FT OF 20-INCH MAIN ON MAIN STREET, CREST ROAD, SEMINOLE DRIVE AND RINGGOLD ROAD	
Design and Permitting: 12 months Construction: 12 months	Project Cost: \$6,400,000

Need for Project:

Additional transmission capacity will be needed in order to maintain adequate levels of service if peak flows of above approximately 4 mgd need to be delivered to Catoosa UD, located in the southern portion of the East Ridge gradient.

Background:

The current peak flows to Catoosa UD are limited to approximately 1.5 mgd when their booster pumps are on. Under the base growth scenario, their peak flows are projected to increase to 2.5 mgd by 2020 and 4 mgd by 2030. The previous recommendations to install 9,000 ft of 20-inch main in Ringgold Road, along with the recommended storage facility and PRV stations from East Ridge – North, provide the ability to deliver the base projections flows of up to 4 mgd to Catoosa UD.

Model simulation with the above improvements, at the maximum day demand scenario of delivering 4 mgd to Catoosa UD, predicts velocities approaching 6 ft/sec and a headloss gradient of approximately 10 ft/1000 ft in portions of the existing 12-inch transmission main extending from the East Ridge reservoir. Service pressures are predicted to be adequate under these conditions, but higher flows that result in even higher velocities are not recommended in the system.

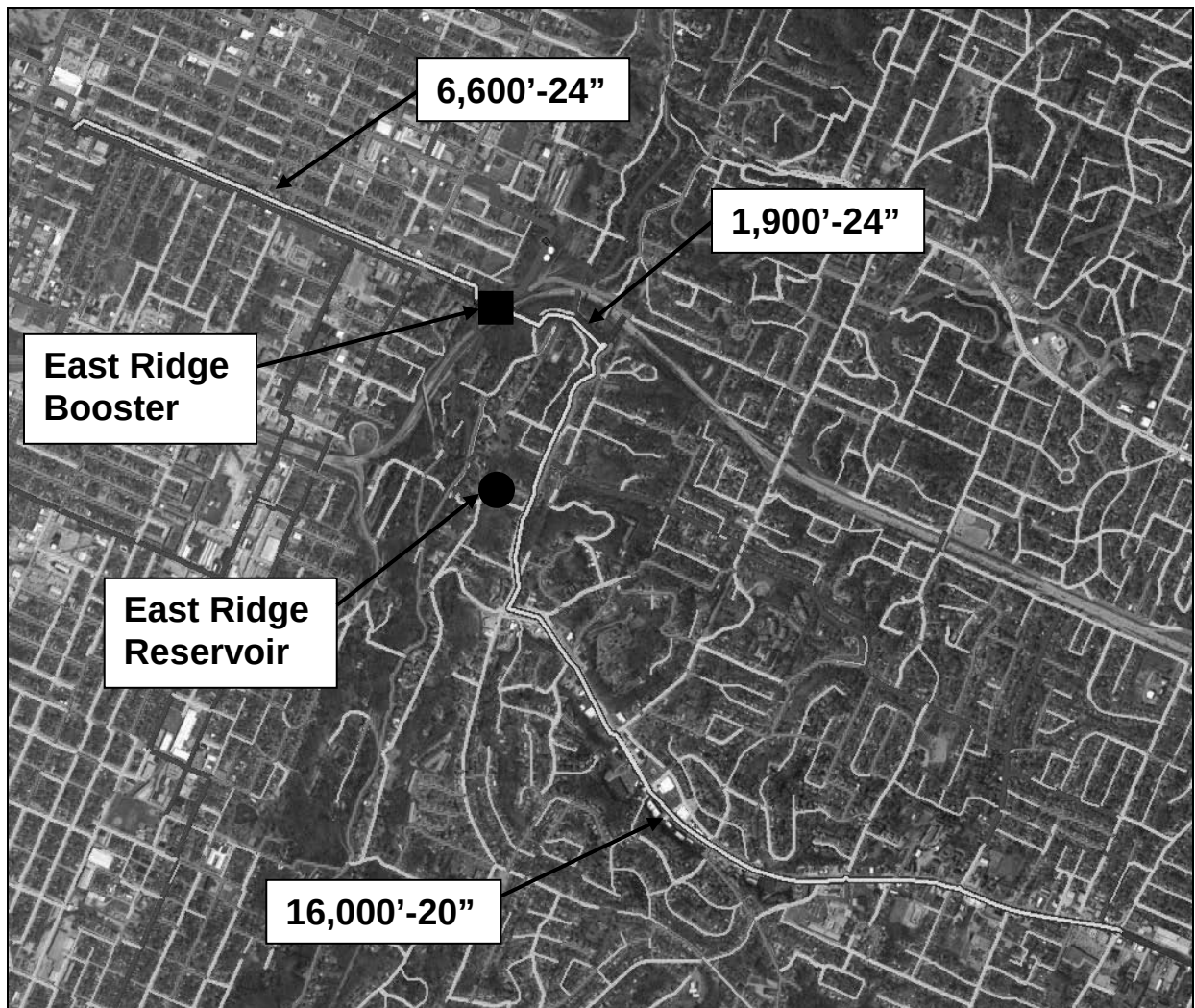
If the base growth projection is exceeded, and the high growth scenario is followed, Catoosa's peak flows could reach approximately 6 mgd by 2030. It is possible that even higher flows may be requested beyond the current planning horizon, with much depending on the condition of their deteriorating well supplies.

Therefore, the proposed transmission improvement should be installed if the flows to Catoosa UD are expected to exceed 4 mgd.

Recommended Solution:

The following sections of transmission main are recommended, and shown in cyan on the exhibit below.

- Install 6,600 feet of 24-inch main on Main Street from South Highland Park Avenue to the East Ridge booster station.
- Install 1,900 feet of 24-inch main extending from the existing 30-inch main on the discharge side of the East Ridge booster station, onto South Crest Road and East Main Street, then down to South Seminole Drive;
- Install 16,000 feet of 20-inch main on South Seminole Drive and Ringgold Road; and



Output and Benefits:

The proposed transmission main will provide the ability to deliver flows above 4 mgd and up to approximately 9 mgd to Catoosa UD, while maintaining adequate system pressures in the gradient. It will also provide the ability to fill the proposed ground reservoir at these demand conditions.

The transmission main on Main Street to the East Ridge booster station provides the benefit of maintaining a higher HGL in the vicinity of the Mission Ridge triple reservoirs. This allows the triple reservoirs and the North End reservoir to continue to float together in the Citico gradient at similar HGLs. Without the improvement in Main Street, the water level in the Mission Ridge triple reservoirs would be lower than the desired operating levels, rendering less effective storage from the reservoirs.

Options:

An alternative pipeline route may be considered if another route is more feasible for pipeline installation and provides similar hydraulic benefit.

Budget Discussion:

The planning level cost estimate for the project is \$6.4 million, based on an overall cost of \$250/LF for 20-inch main and \$280/LF for 24-inch main.

Risks:

If the transmission main is not installed, peak flows above approximately 4 mgd could not be delivered to Catoosa UD while still maintaining adequate service levels.

Purpose Codes and Drivers:

Asset Code	Purpose Code
331 – Trans & Distribution Mains	Rel/Qual customer (pres taste etc.)

**TENNESSEE AMERICAN WATER
CHATTANOOGA**

Project B-13	
EAST RIDGE BOOSTER STATION UPGRADES	
Design and Permitting: 9 months Construction: 3 months	Project Cost: \$550,000

Need for Project:

Additional pumping capacity will be needed at the East Ridge booster station if the peak flows to Catoosa UD exceed approximately 5 mgd, or if the total demand supplied from the East Ridge booster station exceeds approximately 11.5 mgd.

Background:

The total and firm pumping capacity from the East Ridge booster station is approximately 13.5 mgd and 11.8 mgd, respectively. The 2030 projected maximum day demand to be supplied from the booster station is approximately 10.2 mgd for the base growth scenario, with 4 mgd of this demand delivered to Catoosa UD. The firm pumping capacity of 11.8 mgd from the station is adequate for meeting the base growth demand projection. Therefore, pumping upgrades may not be needed during the 2030 planning horizon.

If higher growth scenarios are followed, especially with the possibility of higher flows to Catoosa UD, additional capacity may be needed. Pumping upgrades at the East Ridge booster station are recommended if flows to Catoosa exceed approximately 5 mgd.

Recommended Solution:

The station upgrades include replacement of some of the existing pumps to increase the firm pumping capacity. The design capacity will need to be determined during the preliminary design phase, based on the flow projections to Catoosa UD and the rest of the gradient at the time of the preliminary design. Therefore, specific pump capacities are not detailed in this recommendation. It is expected that two to three of the four pumps will need to be replaced. In addition, consideration should be given to the use of VFD motors on two of the pumps to provide more operational flexibility in flow delivery from the station, and to reduce the on and off cycling of the pumps. It is expected that upgrades to some of the station piping, valves, and electrical gear may be needed, also.

Output and Benefits:

The proposed booster station upgrade will enable the demands to be met in the East Ridge gradient in the event that flows beyond approximately 5 mgd are delivered to Catoosa UD.

Options:

The specific design parameters should be determined during the design phase of the project.

Budget Discussion:

The planning level cost estimate for the project is \$550,000, with a breakdown of the cost shown below.

EAST RIDGE BOOSTER STATION UPGRADES				
Project Component	Quantity		Unit Cost	Total
Pumps	3	EA	\$25,000	\$75,000
VFD Motors	3	EA	\$35,000	\$105,000
Station Piping & Valves	1	LS	\$80,000	\$80,000
Instrumentation & Controls, Electric	1	LS	\$75,000	<u>\$75,000</u>
				\$335,000
	Contingency		30%	\$100,500
	Construction Subtotal			\$435,500
	Engineering		15%	\$65,325
	AFUDC		10%	\$43,550
			PROJECT TOTAL	\$544,375
			SAY	\$550,000

Risks:

If the station upgrades are not performed when the demands reach the stated levels, then the ability to deliver flows to Catoosa UD and the customers in the East Ridge gradient will be compromised.

Purpose Codes and Drivers:

Asset Code	Purpose Code
311 – Pumping Equipment	Growth/Cap in franchise > 3 yrs

**TENNESSEE AMERICAN WATER
CHATTANOOGA**

Project B-14	
EAST RIDGE MINOR FIRE FLOW IMPROVEMENTS	
Design and Permitting: 6 months Construction: 4 Months	Project Cost: \$230,000

Need for Project:

A number of minor improvements are recommended to increase the AFF at specific locations within the East Ridge gradient.

Background:

Model simulation of the fire flows within the East Ridge gradient showed a number of areas with one or a few hydrants with AFFs less than 500 gpm or 750 gpm, while the surrounding hydrants had significantly higher AFFs. An evaluation of the piping in the area of the hydrants showed the ability to provide minor improvements to increase the AFFs. The improvements are detailed below, along with location exhibits.

Recommended Solution:

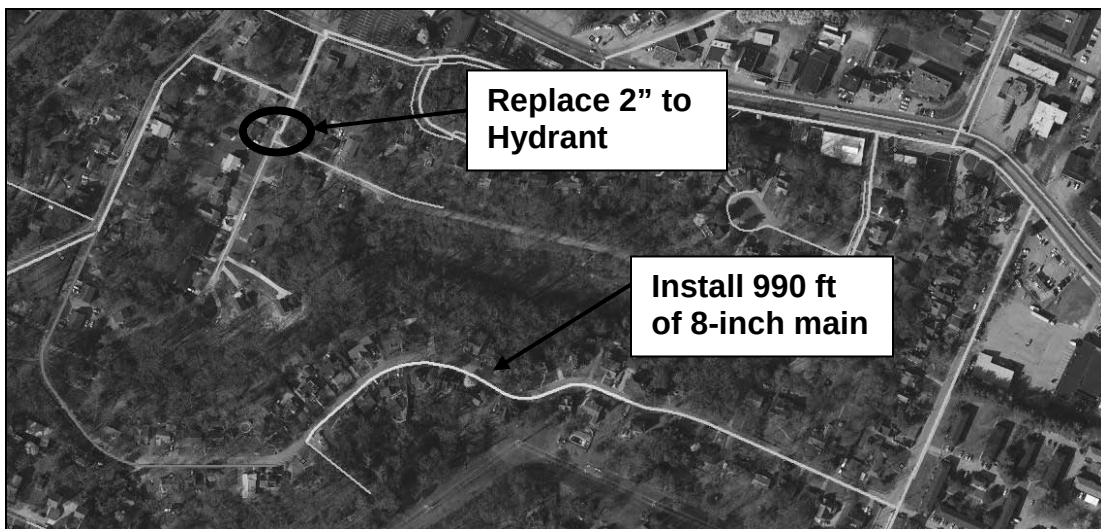
1. Move the hydrant on Fisk Avenue between Tuskegee Boulevard and Walden Avenue from the 4-inch main to the 8-inch main. The AFF at the hydrant is currently predicted to be less than 100 gpm. The AFF improves to over 3,500 gpm when moved to the 16-inch main.



2. Install approximately 60 feet of 8-inch main to replace 2-inch main to the hydrant on Montview Drive, just east of Hemphill Avenue. With the improvement, the AFF increases from approximately 420 gpm to over 2,550 gpm.

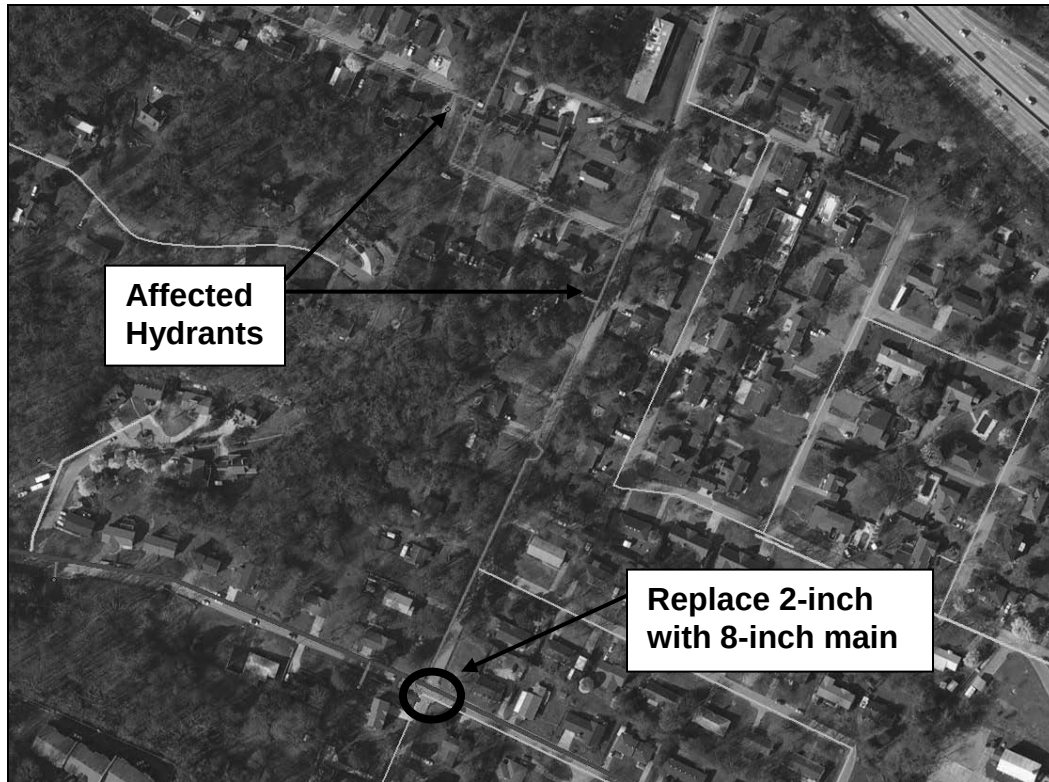


3. Install approximately 990 ft of 8-inch main on Alta Vista Drive, replacing 2-inch main. The hydrant on the west side of the 2-inch main has a predicted AFF of 660 gpm. The proposed main replacement improves the AFF to 870 gpm, while also improving the distribution of flow away from the East Ridge booster station.
4. Install approximately 15 ft of 8-inch main on Elmwood Drive, replacing 2-inch main that extends across the road to a hydrant. The hydrant currently has a predicted AFF of 560 gpm. The proposed main replacement improves the AFF to 1,620 gpm.



5. Install approximately 15 ft of 8-inch main to replace the 2-inch main which connects the 12-inch main on Gleason Drive to the 6-inch main on Donaldson Road. The two

hydrants further north on Donaldson Road and East Castle Avenue currently have predicted AFFs of 550 gpm and 520 gpm. With the replacement, the AFFs are predicted to improve to 1,360 gpm and 1,060 gpm.



Output and Benefits:

The benefits for each specific improvement are stated above.

Options:

No options were considered.

Budget Discussion:

The planning level cost estimate for the various improvements total \$230,000. The estimate for each improvement is listed below.

1. \$15,000
2. \$15,000
3. \$170,000
4. \$15,000
5. \$15,000

Risks:

If the improvements are not completed, the AFFs will remain at their current levels.

Purpose Codes and Drivers:

Asset Code	Purpose Code
331 – Trans & Distribution Mains	Rel/Qual customer (pres taste etc.)

**TENNESSEE AMERICAN WATER
CHATTANOOGA**

Project B-15	
INSTALL 1,500 FT OF 12-INCH MAIN ON JERSEY PIKE	
Design and Permitting: 6 months Construction: 3 months	Project Cost: \$390,000

Need for Project:

Increased transmission capacity is needed from the New York booster station into the East Ridge – North gradient. This project will improve the transmission capacity across a section of existing 6-inch and 8-inch main.

Background:

A section along Jersey Pike, south of Bonny Oaks Drive, contains 6-inch and 8-inch mains. 12-inch mains are installed both north and south of this section. The 6-inch and 8-inch mains restrict flow through this section, and in effect lead to the underutilization of the surrounding 12-inch mains. The headloss across the 1,500 ft section of 6-inch and 8-inch main is approximately 15 ft, or 6.5 psi, and flow velocities are approximately 5 ft/sec. The impact back at the New York booster station is slightly higher discharge pressures and less efficient water distribution.

The section proposed for replacement crosses a number of railroad tracks spanning approximately 200 ft. Installation of new main would need to be performed using directional drilling under the tracks.

Recommended Solution:

Install approximately 1,500 feet of 12-inch main on Jersey Pike, including directional drilling under the railroad tracks. The 12-inch main should be installed inside a larger diameter casing under the tracks to enable replacement with a larger diameter main in the longer-term future, if needed. The location of the proposed main is shown in cyan on the following exhibit.



Output and Benefits:

The proposed main will reduce the headloss across this section of the distribution network by approximately 13 ft, or 5.6 psi, from the current level of approximately 15 ft to 2 ft. The flow through this section of main will nearly double with the installation of 12-inch main. At the New York booster station, it will reduce the discharge pressure by approximately 1 psi, which increases the flow by approximately 1 percent with no increase in pumping energy. This provides for a more efficient pumping operation.

Options:

A larger 16-inch diameter main may be installed if there is not a significant increase in the cost.

Budget Discussion:

The planning level cost estimate for the project is \$390,000, based on an overall cost of \$190/LF for the installation of 12-inch main, plus an allowance of \$100,000 for the directional drilling under the railroad tracks.

Risks:

If the proposed main is not installed, adequate service levels can be maintained; however, the system will continue to be operated less efficiently due to the high headloss through this section and slightly higher discharge pressures at the New York booster station.

Purpose Codes and Drivers:

Asset Code	Purpose Code
331 – Trans & Distribution Mains	Rel/Qual customer (pres taste etc.)

TENNESSEE AMERICAN WATER

CHATTANOOGA

Project B-16	
INSTALL 6,900 FT OF 8-INCH MAIN ON ELDER MOUNTAIN ROAD	
Design and Permitting: 9 months	
Construction: 6 months	Project Cost: \$1,200,000

Need for Project:

The existing single 6-inch main to the Elder Mountain gradient, which is steel wrapped in asbestos, has a history of main breaks. The main replacement is recommended to coincide with a possible road improvement project.

Background:

Water is pumped from the Elder Mountain booster station to the 0.29 MG Elder Mountain standpipe through the single 6-inch steel main. The Elder Mountain standpipe provides storage for the small gradient. The volume from the standpipe could provide up to three to four days of supply to the gradient in the event of a main break.

There is some discussion of improvements to the Elder Mountain Road. The timing of the project should be coordinated with the road improvements.

Recommended Solution:

Install approximately 6,900 feet of 8-inch main, from the Elder Mountain booster station along Elder Mountain Road to the Elder Mountain standpipe.

Output and Benefits:

The proposed main will replace the 6-inch main which has a history of main breaks, thus improving the reliability of service to the customers in the Elder Mountain gradient.

Options:

The 6-inch main detours from the Elder Mountain Road prior to the Elder Mountain standpipe. If this section of main is in good condition, it may not be necessary to replace it at the same time as the portion that runs on Elder Mountain Road.

Budget Discussion:

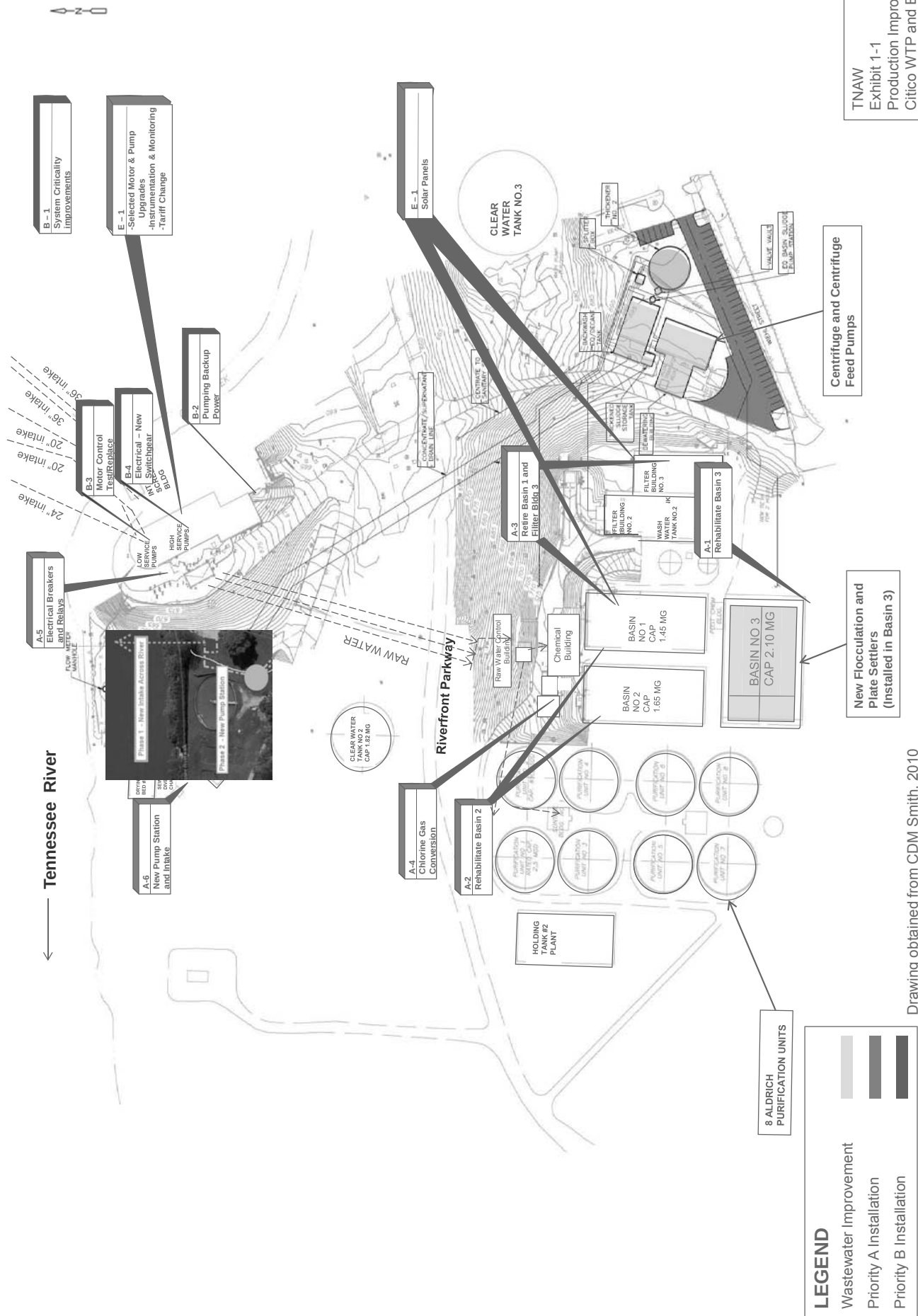
The planning level cost estimate for the project is \$1,200,000, based on an overall cost of \$170/LF for the installation of 8-inch main.

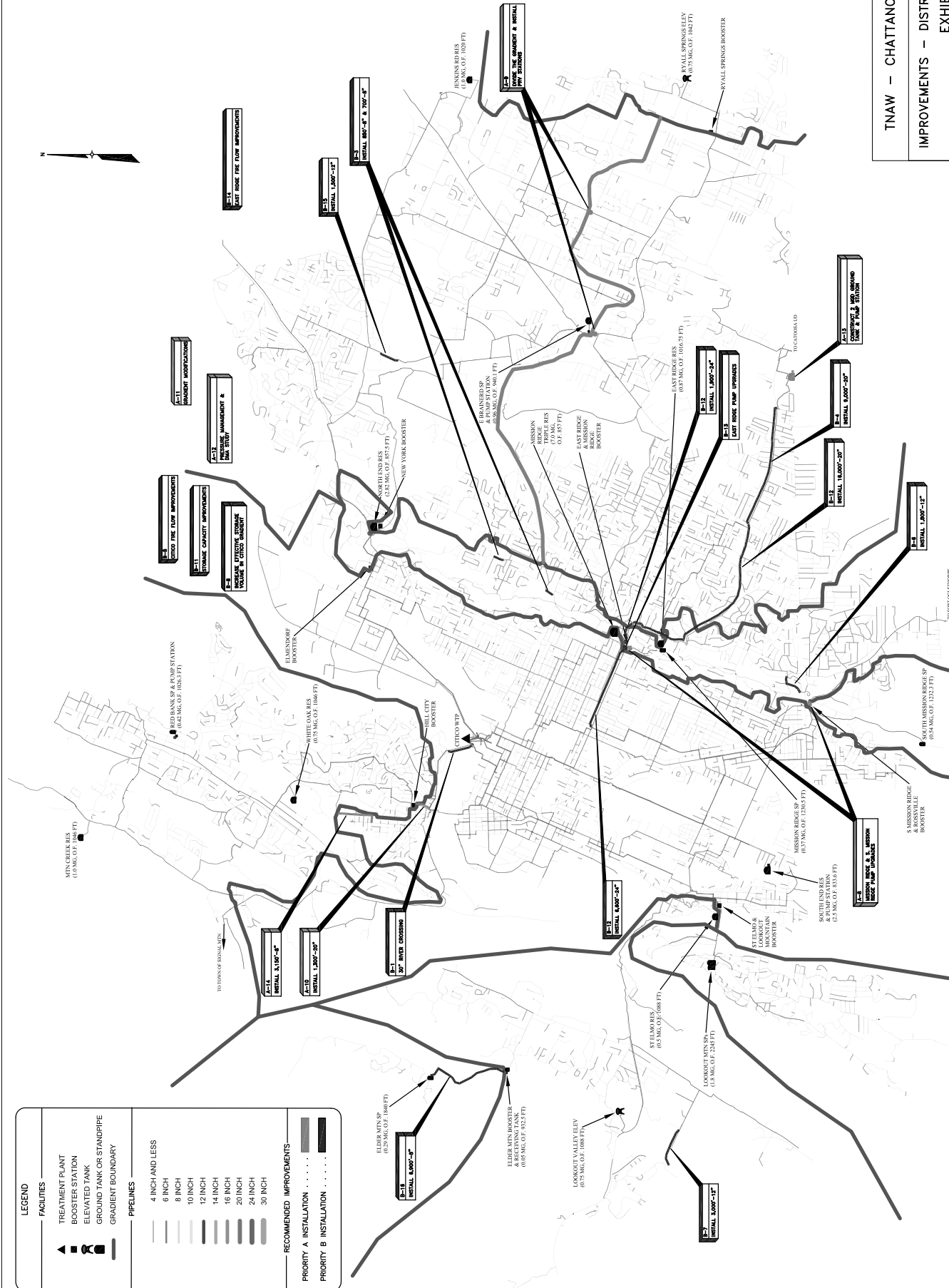
Risks:

If the proposed main is not installed, there is a risk of a major main break along the existing 6-inch main that could impact the ability to provide service to the customers in the gradient. In addition, the repeated cost of repairing breaks will continue.

Purpose Codes and Drivers:

Asset Code	Purpose Code
331 – Trans & Distribution Mains	Asset Renewal imm/actual failure





SECTION 2 COMPREHENSIVE PLANNING PROCESS

2.1 OVERVIEW

This Comprehensive Planning Study recommends capital improvements that are necessary in order for Tennessee American Water (TNAW) to continue to provide safe, adequate and reliable service to its customers. The improvements will also ensure that TNAW will continue to supply domestic, commercial and industrial customer demand; meet federal, state and local regulatory requirements; and provide fire protection capability. The criteria used for evaluating the various system components are summarized in the following subsections. In addition, water resource management, national, state and local trends, and their role in the planning process are discussed.

A brief overview of the planning criteria utilized is provided in this section. Specific details regarding the criteria and applicable regulations are contained in **Appendix A**. Recommendations included in this Comprehensive Planning Study address improvements that contribute toward meeting the planning criteria described below. Improvements are also recommended in this report where structural or mechanical problems with existing facilities are evident.

The purpose of this Comprehensive Planning Study is to provide an engineering analysis which management can utilize, among other tools, to assist in the long-term planning process and operation of the company. The priorities and recommendations contained herein are based on conditions that exist and are known as of the date of the report and should not be construed as a recommendation as to the appropriate management decision with regard to implementation of the recommendations at any particular time. Any such management decisions must also consider a wide range of additional and current factors, which are beyond the scope of this report, including, but not limited to general economic conditions, changing regulatory and environmental requirements, and customer impacts.

It is beyond the scope of this Comprehensive Planning Study to attempt to identify the end of the useful life of each piece of Water Company equipment — for example, the many miles of

pipeline within a distribution system. It should be assumed that capital expenditures will occur over time due to normal aging and operational wear on existing equipment. For this and various other reasons, it is anticipated that the Water Company may encounter additional capital expenditures beyond those identified in this Comprehensive Planning Study.

2.2 ENGINEERING CRITERIA

In planning the needed water facilities, accepted engineering standards and practices have been utilized to evaluate facilities. Using these standards and practices to evaluate the following areas, an assessment is made to determine if adequate capacity and an appropriate level of reliability are present for domestic, commercial, industrial and fire protection needs. **Appendix A**, Planning Criteria, provides a more detailed discussion of the criteria and regulations used in the evaluation of the water facilities.

2.2.1 Customer and Demand Projections

Demand projections provide the basis for evaluating future system needs. Projections of the total number of customers and their associated demands are developed for the water system over a fifteen year planning horizon.

Since each water system is unique, the specific techniques used to project both customers and demand varies, as appropriate. In general, the projections are developed based on a review of population trends, historic customer and demand data, and local planning commission forecasts. The effects of water conservation are considered in the demand projections along with the analysis of historic water consumption trends. A base growth demand scenario was considered as the most likely projection of demand for this study.

2.2.2 Sources of Supply

Water Company sources of supply should have the necessary quantity of water to reliably meet the projected system demand, even in the event of failure/malfunction of one unit of mechanical equipment. The quality of the water from source of supply is regularly monitored and should provide finished water after treatment that complies with all Federal and State regulations. Sources of supply should also have sufficient allocation rights to permit average and maximum demands to be met. For this reason, build-out demands were evaluated to determine supply adequacy in advance of allocation needs as the permitting process can last multiple years and could delay the development of new sources of supply.

The Water Company conducts water resource management activities and programs that are designed to protect, maintain and monitor the efficient use of supply sources and the finished product. These measures include managing water resources from both the supply and demand side. Continuation of these practices will assist in providing high quality service to the customers.

2.2.3 Water Treatment Facilities

The goal of the Water Company is to continue to produce high quality water that meets or surpasses Federal and State water quality standards. Treatment facilities are designed to meet projected maximum day demands and to comply with water quality regulations at all times. Individual components are sized with appropriate standby capacity that allows the facilities to meet maximum day demands under varying operating conditions.

Recommendations for capital improvements are developed after evaluating the Water Company's ability to provide a reliable and high quality water supply. This ensures continued compliance with existing and anticipated federal and state water quality and environmental regulations, and the ability to meet projected customer demands.

The ability to provide continuous service during a power outage is critical to a system's reliability and depends on several factors including: the nature of the electrical service (i.e., service from one vs. two substations), the presence of any floating storage within a pressure zone, standby electrical generating capacity, and the availability of pumps which can be driven by diesel fuel or natural gas.

The Partnership for Safe Drinking Water is a voluntary cooperative effort between USEPA, American Water Works Association (AWWA) and other drinking water organizations to help ensure the safety of America's drinking water. As promoted by AWWA, "The Partnership provides a new measure of safety by implementing prevention programs where legislation or regulation do not exist. The preventative measures are based around optimizing plant performance, and thus increasing protection against microbial contamination in America's drinking water supply."

2.2.4 Pumping, Water Distribution And Storage

The analysis of Water Company facilities includes an evaluation of pipelines, storage tanks, booster stations, and emergency power provisions. These distribution system components are analyzed to determine their ability to provide safe, adequate and reliable service to customers under forecast conditions.

Pumping facilities are designed to meet projected maximum day demands with the largest single unit assumed out of service. This design standard provides an appropriate measure of reliability in the event of a mechanical failure, or if maintenance is required for a pump. Pumping facilities may also be an important component of the fire protection system.

Pipelines are designed to provide adequate working pressures in the distribution system under normal conditions of flow. The minimum service pressure is established at 30 psi. Pipelines are also designed to maintain a minimum pressure of 20 psi at all points in the distribution system under all demand conditions. Fire flows may impose the heaviest demand on the piping network, and should be considered when sizing new mains. Water quality, fire flow delivery and local pressure limitations are also considered in the analysis of distribution system pipelines, where applicable.

Distribution storage facilities are designed to provide the recommended volume of water to equalize the pumping rate at a treatment plant or booster station during the projected maximum day demand event. The volume of water necessary for fire protection needs is also evaluated. Additionally, on a site-specific basis, state regulations on storage volume are evaluated, and storage facilities may need to provide a reserve volume for reliability purposes in the event of a power failure, main break or other emergency.

2.3 THE WATER COMPANY'S ROLE IN REGIONALIZATION

Regionalization can often provide economies of scale, avoid duplication of facilities, and provide more effective service to customers. For example, water systems within a specific geographic area can regionalize to benefit from shared sources of supply, treatment facilities or distribution system facilities. Likewise, the availability of interconnections between water systems can improve reliability and enhance fire protection.

Regionalization opportunities are evaluated to determine if a consolidated solution to water supply problems in a particular area is feasible, or if management services opportunities are viable. In the case of management services, expertise within the Water Company can be utilized to improve other area water supplies and benefit the State's residents.

2.4 CONSIDERATION OF NATIONAL, STATE, AND LOCAL TRENDS

In developing a Comprehensive Planning Study, it is beneficial to review national, state and local trends that can affect future planning. Nationally, there has been a strong trend toward increased and tougher regulations affecting water purveyors. Examples include: increased protection of sources of supply; more stringent water quality regulations of finished water; additional regulation of treatment plant residuals; increased frequency of required water quality monitoring; increased water and energy conservation requirements; and more extensive environmental laws affecting new construction and source development.

Typically these new regulations are passed down from the federal to the state level to be incorporated as state laws. Often, states have passed additional legislation that address issues specific to their individual circumstances, and can be more stringent than federal laws. The Tennessee Department of Environment and Conservation has primary enforcement responsibility (primacy) of the drinking water regulations.

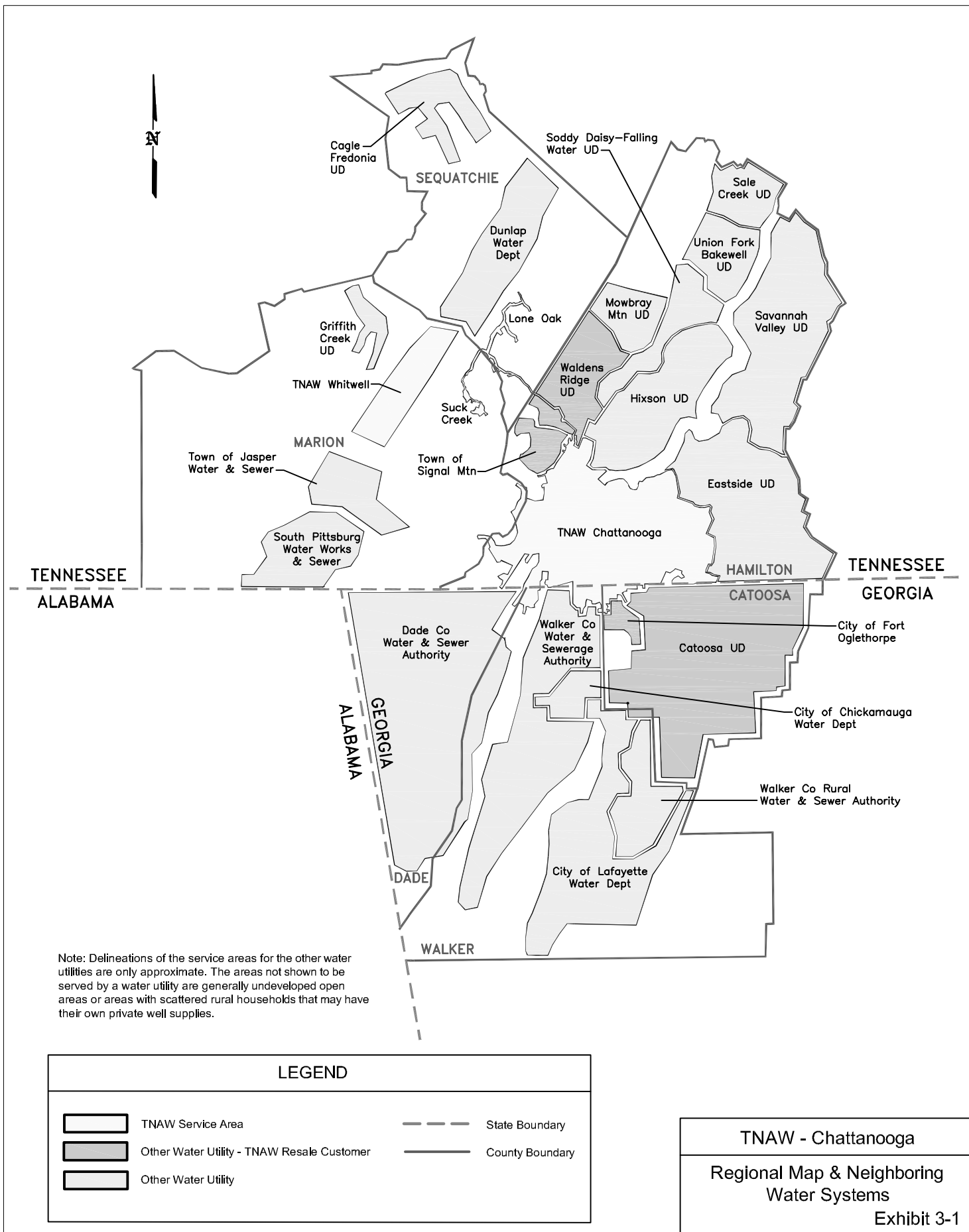
SECTION 3 DEMAND PROJECTIONS

3.1 OVERVIEW

Tennessee American Water (TNAW) owns and operates the Chattanooga District water system, located in the southeastern part of Tennessee and the northwestern corner of Georgia. The system extends into six counties – Hamilton, Sequatchie and Marion in Tennessee, and Catoosa, Walker and Dade in Georgia. This six county area makes up the Chattanooga, TN-GA Metropolitan Statistical Area. The service area, along with the neighboring water systems, is illustrated in **Exhibit 3-1** on the following page.

Within Tennessee, the system serves the City of Chattanooga and the Towns of Red Bank, East Ridge, Ridgeside and Lookout Mountain, all within the southern portion of Hamilton County. The system extends into a small portion of Sequatchie County (Lone Oak) and Marion County (Suck Creek) in the northwest part of the system and crosses over into Marion County on the western side of the system. Within Georgia, the system serves the Cities of Rossville and Lookout Mountain, located in Walker County. The service area in Lookout Mountain extends into a small portion of Dade County. The system also serves unincorporated areas of northwest Catoosa County.

Resale water delivery is provided to the Towns of Signal Mountain and Waldens Ridge Utility District (UD) in Tennessee, and the City of Fort Oglethorpe and the Catoosa UD in Georgia. Although Walden's Ridge UD is currently still purchasing water from TNAW, an agreement was reached for their resale contract to terminate sometime after June, 2014. Water is currently delivered to the Lone Oak and Suck Creek area of the system from TNAW's Chattanooga system through the Walden's Ridge UD. Upon termination of the resale contract, this area will be supplied with purchased water from Walden's Ridge UD, and will no longer be connected to the Chattanooga system. Because of this, the Lone Oak and Suck Creek area is not evaluated as part of the TNAW Chattanooga CPS. Their customers and usage are included in the historic data, but not in the future year projections. This area included only 325 residential customers and six commercial customers in 2012.



The Chattanooga District served a total of 75,679 customers with an average daily demand of 36.2 mgd in 2012. The following table shows a breakdown by customer category as it relates to the overall customer count and water sales.

Table 3-1: Breakdown of Customers & Water Sales by Customer Category

Customer Category	Percent of Total Customers	Percent of Total Water Sales
Residential	86.5%	33.3%
Commercial	10.7%	31.6%
Industrial	0.15%	19.1%
Other Public Authority (OPA)	0.93%	5.3%
Resale	0.01%	10.7%
Fire Service	1.64%	0.00%

The total customer base has increased by 6,860 customers, or nearly 10 percent, over the past 15 years. This corresponds to an average increase of 490 customers per year at an average annual growth rate of 0.71 percent. The customer base has increased by an average of 531 and 233 customers per year over the past 10 and five years, respectively.

Despite the steady increase in the customer base, the average day demand declined from 38.2 mgd in 1998 to the 15-year low of 36.2 mgd in 2012. Over the past 15 years, the average day demand peaked at 41.9 mgd in 2000, and was as high as 40.3 mgd in 2007. The trend of a declining usage per customer has been a factor for the decrease in the average day demand, and trends specific to each customer category are explained in later sections. The industrial base factored significantly into the decline, due to both a decline in the number of industrial customers and the loss of some significant users.

The maximum day of record over the past 15 years is 53.9 mgd, which occurred in 1999. The maximum day demand has exceeded 50 mgd in six of the past 15 years, but has remained under 49 mgd over the past four years, and reached 48.4 mgd in 2012.

The majority of the TNAW service area is located within the City of Chattanooga and the southern portion of Hamilton County. Approximately half of the county population lies within the City of Chattanooga. The Chattanooga-Hamilton County Regional Planning Agency's

Comprehensive Plan 2030, adopted in 2006, is a good source of information on the county's development plans and objectives. The TNAW service area within Hamilton County general lies within the development areas which are termed urban core, urban, inner suburban, and outer suburban. The transitional and rural development areas generally lie outside of the service area.

Catoosa County, at the southeastern part of the system, is considered a Chattanooga bedroom community, with much of the county's labor force commuting to Tennessee for work. The Catoosa County Joint Comprehensive Plan, adopted in 2010, has a goal of promoting commercial and industrial development in the county.

Within Walker County, the City of Lookout Mountain is primarily a residential community with a town center. The City of Rossville is a mix of residential, commercial and industrial areas. The Walker County Joint Comprehensive Plan provides development objectives for each of these cities.

3.2 ANALYTICAL APPROACH

Historic trends in water consumption and customer accounts were used as the basis for predicting future consumption. **Table 3-2** shows the historic usage, expressed as gallons per customer per day (gpcd), for each customer category. The trends for each customer category are shown on the exhibits at the end of the section and explained in more detail later in the section.

The projected number of customer accounts in each category was multiplied by the projected customer consumption figures to yield an estimate of water demands by category. An estimate of projected non-revenue water, based on historic and desired levels, was added to water usage estimates to produce estimates of future average day demands. Three scenarios were developed for projecting the average usage - Low, Base and High. These scenarios reflect the potential range of growth based on historic trends and planning agency data.

Maximum day demand projections were developed by multiplying the average day demand for the Base growth scenario by a ratio correlating the maximum to average day demand. The preceding 15 years worth of data and a statistical factor were used to derive the maximum day ratio. The 95 percent confidence level (CL) maximum day projection serves as the basis for American Water's facilities planning and reflects a level that has a 5 percent

chance of being exceeded in any given year. The 50 percent CL represents the max day levels anticipated under average weather conditions.

Table 3-2: Summary of Water Usage by Customer Category (gpcd)

Year	Residential	Commercial	Industrial	OPA	Resale	Total
1998	164	1,114	48,131	5,233	730,594	448
1999	161	1,112	53,126	4,969	744,292	452
2000	159	1,101	58,483	5,192	757,991	467
2001	155	1,066	54,132	4,726	771,689	446
2002	158	1,044	45,332	4,559	788,368	423
2003	147	1,005	43,244	4,366	575,732	399
2004	146	1,103	40,715	4,253	678,227	403
2005	146	1,082	46,884	3,830	669,964	403
2006	146	1,048	52,075	3,432	863,661	411
2007	152	1,074	53,017	2,173	989,879	412
2008	146	1,048	49,267	1,795	974,603	391
2009	140	983	45,125	1,833	716,041	354
2010	144	1,026	48,472	1,997	711,398	364
2011	140	997	46,557	2,085	791,722	359
2012	138	1,052	45,870	2,011	727,405	358
Minimum	138	983	40,715	1,795	575,732	354
Maximum	164	1,114	58,483	5,233	989,879	467
Avg - 15 Yr	149	1,057	48,695	3,497	766,104	406
Avg - 10 Yr	144	1,042	47,123	2,777	769,863	385
Avg - 5 Yr	141	1,021	47,058	1,944	784,234	365

Information compiled from a number of regional agencies, along with population trends and projections, were used for projecting future customer trends in the Chattanooga District.

Table 3-3 summarizes the relevant regional data used in this analysis.

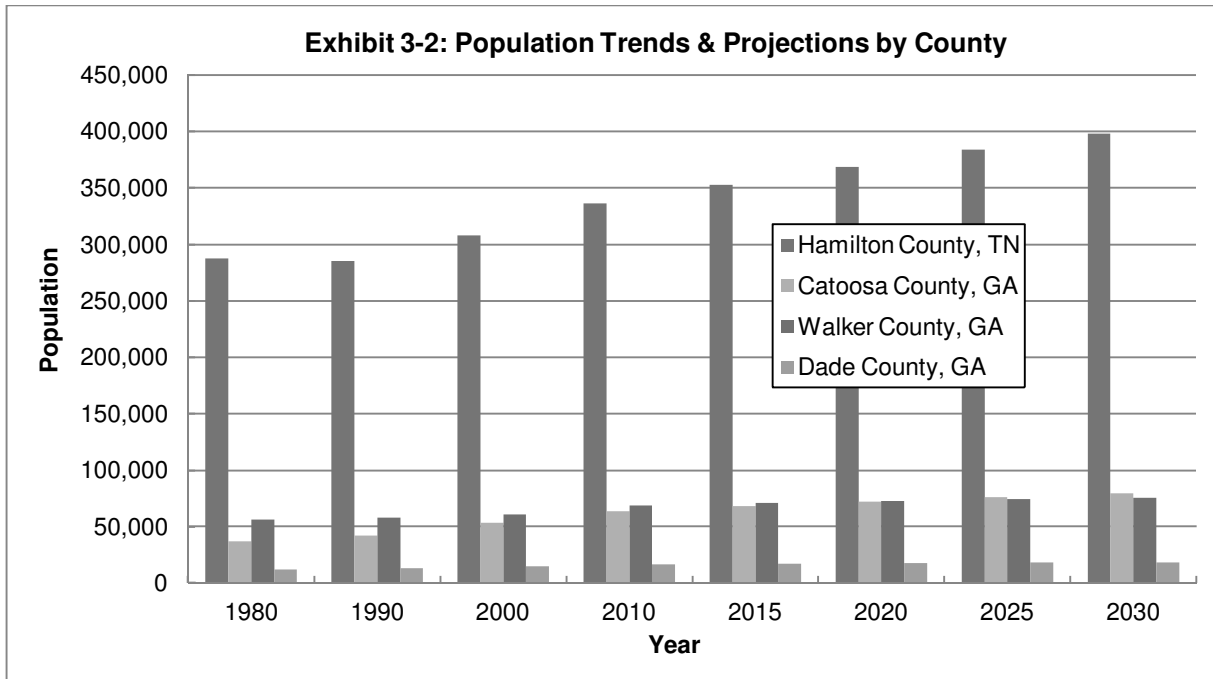
Table 3-3: Summary of Regional Agencies and Data

Agency	Website	Available Information
Chattanooga-Hamilton County Regional Planning Agency	www.chcrpa.org	Comprehensive Plan 2030, adopted 2006; building permits
Hamilton County GIS	gis.hamiltontn.gov	Mapping resources
Chattanooga Chamber of Commerce	www.chattanoogachamber.com	Development initiatives
Center for Business and Economic Research, The University of Tennessee	www.cber.bus.utk.edu	Population projections for Tennessee counties
Georgia Governor's Office of Planning and Budget	opb.georgia.gov	Population projections for Georgia counties
Catoosa County Government	www.catoosa.com	Catoosa County Joint Comprehensive Plan 2011-2031, adopted 2010
Northwest Georgia Regional Commission	www.nwgrc.org	Walker County Joint Comprehensive Plan 2012-2032, adopted 2012
City of Lookout Mountain, GA Government	www.lookoutmtnga.com	Comprehensive Plan, adopted 2009

3.3 POPULATION TRENDS AND PROJECTIONS

Historic population data and projections for the area served by the Chattanooga District are illustrated in **Exhibit 3-2** and presented in **Table 3-4**. Historic data is available for both the county and city/town area, while population projections are only available at the county level.

The 2010 census population for the City of Chattanooga is 167,674, up 12,120 from the 2000 census population of 155,554. This was a significant increase over the previous decade from 1990 to 2000, when the population increased by 3,088. Hamilton County saw an even higher growth rate during these same time periods. The other areas served directly by TNAW in the county have experienced lower growth and some negative growth from 2000 to 2010. As indicated by the Chattanooga-Hamilton County Regional Planning Agency, a population shift has been occurring within the county, with higher growth occurring in the outlying and rural areas. The unincorporated area has seen the largest absolute growth within Hamilton County, growing by 12,856 from 1990 to 2000, and by 14,046 from 2000 to 2010.



Within Georgia, population growth has been the highest in Catoosa County, which has grown by approximately 25 percent and 20 percent over the past two decades. This growth is attributed in part to its proximity to Chattanooga, making it an attractive bedroom community. The City of Fort Oglethorpe also increased significantly from 2000 to 2010, growing by 2,323, or approximately 33 percent. Within Walker County, the City of Lookout Mountain has shown slight declines in population, while the City of Rossville's population increased by nearly 17 percent from 2000 to 2010 after declining during the previous two decades.

The Hamilton County population is projected to increase by 61,613 from 2010 to 2030 at a growth rate of approximately 0.9 percent per year. Catoosa County is also projected to continue with steady growth, adding 15,907 through 2030 at a growth rate of approximately 1.2 percent per year. Walker County is projected to grow at a lower rate of approximately 0.5 percent per year. Specific growth trends as they related to the customer categories are discussed on the following pages.

Table 3-4: Population Trends and Projections

HISTORIC POPULATION DATA							
County or City/Town	Census Population				Growth Rate		
	1980	1990	2000	2010	1980 to 1990	1990 to 2000	2000 to 2010
Hamilton County, TN	287,643	285,536	307,896	336,463	-0.7%	7.8%	9.3%
Chattanooga ¹	169,565	152,466	155,554	167,674	-10.1%	2.0%	7.8%
Collegedale	4,607	5,049	6,514	8,282	9.6%	29.0%	27.1%
East Ridge ¹	21,236	21,105	20,640	20,979	-0.6%	-2.2%	1.6%
Lakesite	651	732	1,845	1,826	12.4%	152.0%	-1.0%
Lookout Mountain ¹	1,886	1,901	2,000	1,832	0.8%	5.2%	-8.4%
Red Bank ¹	13,297	12,322	12,418	11,651	-7.3%	0.8%	-6.2%
Ridgeside ¹	417	400	389	390	-4.1%	-2.8%	0.3%
Signal Mountain ²	5,818	7,035	7,429	7,554	20.9%	5.6%	1.7%
Soddy-Daisy	8,388	8,242	11,530	12,714	-1.7%	39.9%	10.3%
Walden ²	1,293	1,523	1,960	1,898	17.8%	28.7%	-3.2%
Unincorporated	60,485	74,761	87,617	101,663	23.6%	17.2%	16.0%
Marion County, TN	24,416	24,860	27,776	28,237	1.8%	11.7%	1.7%
Sequatchie County, TN	8,605	8,863	11,370	14,112	3.0%	28.3%	24.1%
Catoosa County, GA²	36,991	42,464	53,282	63,942	14.8%	25.5%	20.0%
City of Fort Oglethorpe ²	5,982	6,315	6,940	9,263	5.6%	9.9%	33.5%
Walker County, GA	56,470	58,340	61,053	68,756	3.3%	4.7%	12.6%
Lookout Mountain ¹	1,505	1,636	1,617	1,602	8.7%	-1.2%	-0.9%
Rossville ¹	3,749	3,601	3,511	4,105	-3.9%	-2.5%	16.9%
Dade County, GA	12,318	13,147	15,154	16,633	6.7%	15.3%	9.8%
POPULATION PROJECTIONS³							
County	Population				Projected Growth Rate		
	2015	2020	2025	2030		2010 to 2020	2020 to 2030
Hamilton County, TN	352,955	368,666	383,742	398,076		9.6%	8.0%
Marion County, TN	28,554	28,633	28,564	28,311		1.4%	-1.1%
Sequatchie County, TN	15,548	16,943	18,249	19,425		20.1%	14.6%
Catoosa County, GA	68,161	72,180	76,104	79,849		12.9%	10.6%
Walker County, GA	70,952	72,878	74,489	75,717		6.0%	3.9%
Dade County, GA	17,197	17,726	18,208	18,628		6.6%	5.1%

1. Served directly by TNAW

2. Served by TNAW as a resale customer

3. Population projections for Hamilton County were developed in 2013 by the Center for Business and Economic Research, The University of Tennessee. Projections for the Georgia counties were developed in 2012 by the Georgia Governors Office of Planning and Budget.

3.4 CUSTOMER & DEMAND PROJECTIONS

Customer accounts in the Chattanooga District are categorized as residential, commercial, industrial, OPA, resale, or fire service. Following is a brief review of the history of demands and customer accounts for each user category, along with a discussion of trends in consumption and account growth that serve as the basis for projecting future demands.

The historic and projected customer base for the Chattanooga District is summarized in **Table 3-5** and **Exhibit 3-3** beginning on page 3-27. The historic and projected average and maximum day demands are presented in **Table 3-6** and **Exhibit 3-4**.

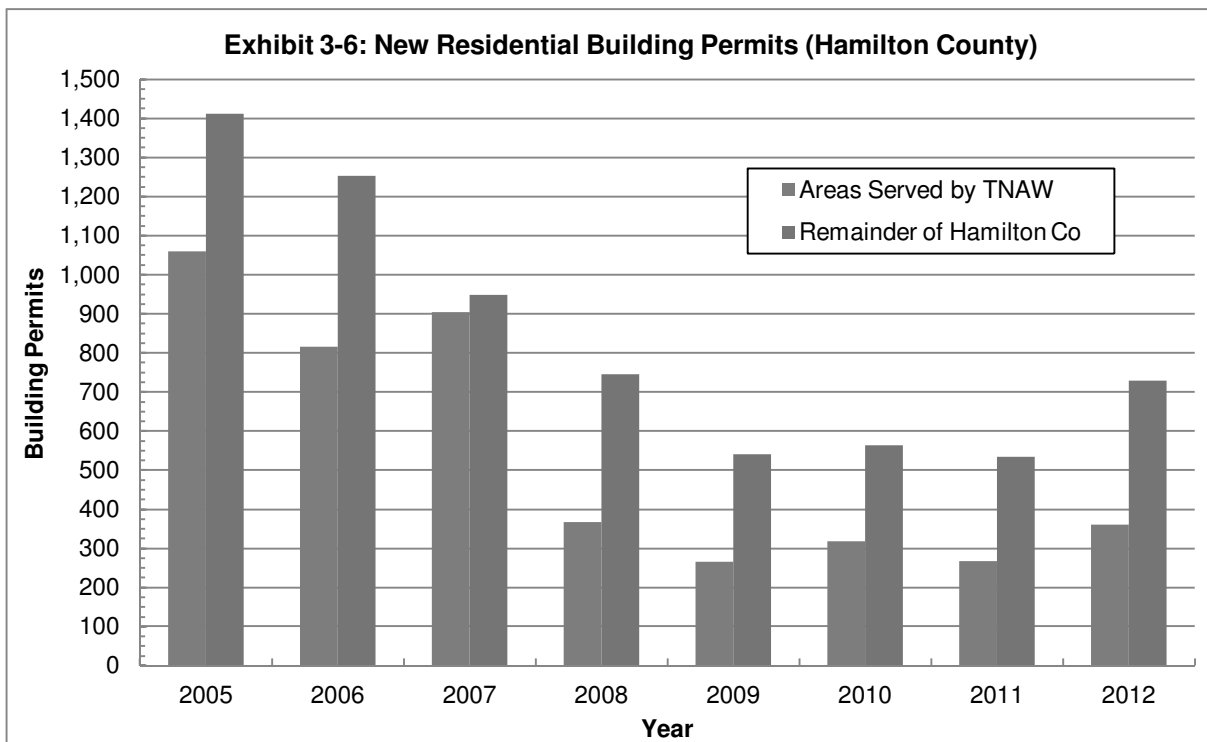
3.4.1 Residential Customer Classification

The residential customer base included 65,478 customers with an average demand of 8.98 mgd in 2012. **Exhibit 3-5**, at the end of the section, illustrates the historic trends in the residential customers and usage. The residential customer base has grown by an average of 393 customers per year over the past 15 years, at an average rate of 0.66 percent per year. The growth rate increased to an average of 494 customers per year over the past 10 years.

Information on residential building permits within Hamilton County was provided by the Chattanooga-Hamilton Regional Planning Agency, delineated by area. **Exhibit 3-6** illustrates the trends in residential construction from 2005 to 2012, both for the areas served by TNAW (Chattanooga, East Ridge, Red Bank, Ridgeside and Lookout Mountain) and the remainder of Hamilton County. As shown in the graph, the remainder of Hamilton County is growing at a faster rate than the areas served by TNAW, primarily due to the availability of open space outside of the TNAW service area. The growth trends also illustrate a decline in growth in the areas served by TNAW beginning in 2008, likely a result of the economic downturn. The growth since 2008 has been more consistent. It is also noted that the outer areas of the City of Chattanooga on the north and northeastern sides of the City lie outside of the TNAW service area, so a portion of the new building permits shown in blue on the graph may have occurred outside of the TNAW service area.

The population projections for Hamilton County predict a growth rate of approximately 0.9 percent per year through 2030. A significant portion of the growth is occurring in the unincorporated areas and outside of the City of Chattanooga, though Chattanooga did realize steady growth from 2000 to 2010. Continued growth in the urban areas is expected through revitalization efforts and in-fill, though some of this growth is in the form of larger

apartment buildings which fall into the commercial category. Within Hamilton County, the service area is bordered to the east, north and northwest by existing water utility districts, so outward growth is limited in these directions, and much of the urban area is built-out. The North Shore area has prospects for development, with a plan for a proposed \$40 million housing and commercial project on Chattanooga's waterfront that recently received preliminary approval. The plan includes the construction of 70 cottage-style homes and 200 apartments. In addition, TNAW has been approached about a significant commercial and residential development plan along the Tennessee River to the south and west of downtown Chattanooga. Although much of the development would be commercial in nature, including apartment buildings, a significant number of town homes are planned. The area north on US 27 also has additional development potential.



1. The building permits include single family homes, duplexes and mobile homes, but do not include apartment units.

The service area in northern Georgia may have the greatest potential for new growth, though it is also bordered by other water utility districts, so outward growth may be limited. Lookout Mountain, GA contains significant open space in its southern half. The City's "Comprehensive Plan – 2009" details a proposed plan for reaching a build-out scenario, though no timeframe is given for when this may happen. At the proposed build-out, the

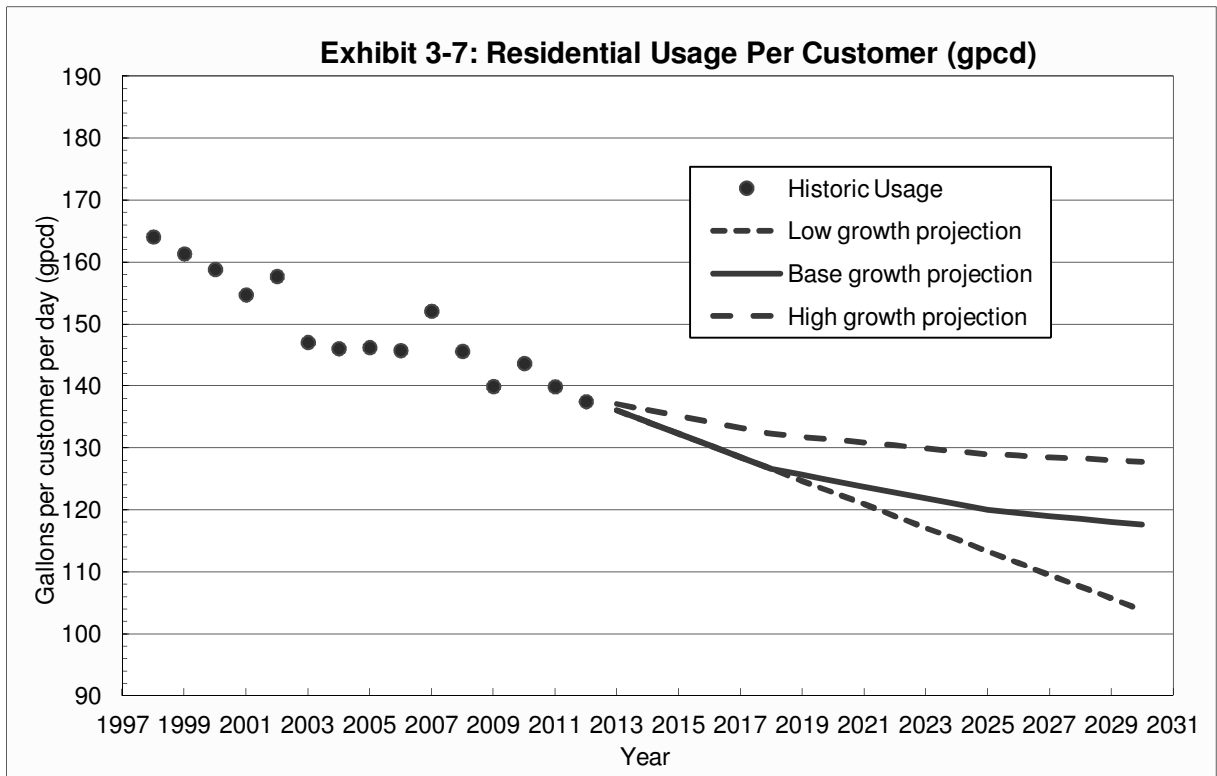
population is expected to be approximately twice the existing population and include 503 new single-family units and 220 new multi-family units. The City of Rossville experienced significant growth from 2000 to 2010 after experiencing declining growth in the previous two decades. It is expected that additional growth may occur in Rossville through redevelopment efforts and potentially some growth into open space. Continued residential growth may occur into the unincorporated area of Catoosa County presently served by TNAW. Because of the neighboring water utility districts, it is expected that a significant portion of new growth will be through additional sales to the resale accounts of Catoosa Utility District and the City of Fort Oglethorpe.

For the base growth scenario, the residential customer base is projected to experience a net increase of approximately 475 customers per year through 2020, 450 customer per year through 2025, and 400 customers per year through 2030. This results in a total net growth of 8,050 residential customers over the 2030 planning horizon, and corresponds to an average growth rate of approximately 0.69 percent per year.

An analysis of residential water use trending for the TNAW Chattanooga system shows that the customer usage has been declining at a winter rate of 1.9 gpcd on an annual basis over the past 10 years, or a decline of 1.44 percent per year. A winter usage rate is analyzed to represent the true indoor residential water usage within a system. Utilizing a winter usage rate eliminates anomalies that may occur in a system due to significant periods of wet and dry summers. When considering the overall residential usage, the historic trends show a decline of 1.1 gpcd on an annual basis over the past 10 years, and a decline of 1.9 gpcd on an annual basis over the past 15 years. The decline in per customer usage is believed to be due to the installation of low flow plumbing fixtures in new and refurbished homes, the decline in persons per household, and rate increases. It is assumed that the trend in declining residential water usage is likely to continue through the 2030 planning horizon, though the rate of decline may slow down as it reaches a more stable low point.

The base growth scenario projects that residential usage will continue to decline at the winter trend of 1.9 gpcd per year through 2018. The decline is reduced by half to 0.95 gpcd per year through 2025, then again by half to 0.475 gpcd per year through 2030, resulting in a residential usage of 118 gpcd in 2030. The low growth scenario projects that residential usage will continue to decline at the winter trend of 1.9 gpcd per year through 2030, resulting in a residential usage of 104 gpcd in 2030. The high growth scenario projects that residential

usage will decline by half the rate of the historic winter trend of 1.9 gpcd, or 0.95 gpcd through 2018. The decline is reduced by half to 0.475 gpcd per year through 2020, then again by half to 0.238 gpcd per year through 2030, resulting in a residential usage of 128 gpcd in 2030. **Exhibit 3-7** illustrates the projected usage per customer for the three growth scenarios. The per customer usage projections are in line with other American Water systems and general declining usage trends nationwide. Projections for the residential customer base and associated demands for all three growth scenarios are presented in **Exhibit 3-8** at the end of the section.



3.4.2 Commercial Customer Classification

The number of commercial accounts in the Chattanooga District was 8,135 at the end of 2012, with an average demand of 8.54 mgd. The commercial customer base increased steadily from 7,334 in 1998 to 8,260 in 2003. It is likely that the rapid increase in commercial customers from 1998 to 2003 was due to a reclassification of some customers from residential to commercial accounts. The average increase during this timeframe was 185 customers per year, with over 250 customers added in three of the years. Since 2003, the customer base has generally remained stagnant, with a slight decline to the 2012 count of

8,135 commercial customers. The number of commercial customers has declined by an average of 14 customers per year since 2003, and by an average of 21 customers per year over the past 5 years. It is also possible that there may have been some reclassifications from commercial to residential accounts in more recent years, contributing to the decline in commercial accounts. **Exhibit 3-9** illustrates the historic trends in the commercial customers and usage.

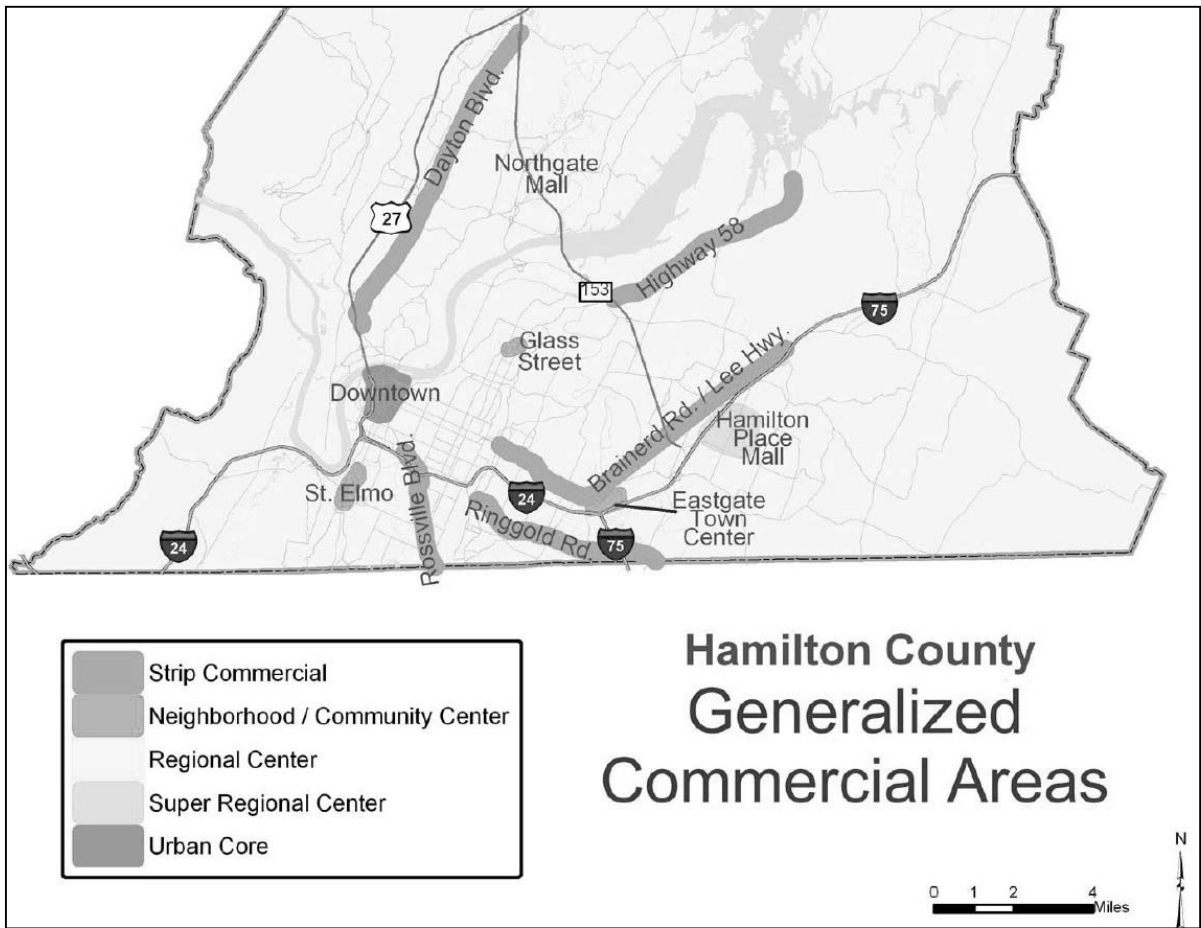
Water usage data for the top commercial customers from 2008 to 2012 are presented in the following table. These customers accounted for approximately 4.3 percent of the overall commercial water sales in 2012. The largest commercial user, Memorial Hospital, was the 14th largest user overall in the TNAW Chattanooga system in 2012.

Table 3-7: Top Commercial Customers

Customer	Address	Average Annual Usage (gpd)				
		2008	2009	2010	2011	2012
Memorial Hospital	2525 De Sales Ave	193,147	206,077	222,639	228,361	132,529
Norfolk Southern Railway	116 Wiehl St	160,541	123,945	126,814	85,753	106,795
Blue Cross Blue Shield	1 Cameron Hill Circle	74,519	152,588	180,258	113,239	66,174
Choo Choo Partners	1400 Market St	95,481	89,543	84,944	50,285	57,734

The largest commercial districts are located in the downtown Chattanooga and Hamilton Place Mall areas. In addition, numerous small-scale shopping centers and strip commercial areas line major thoroughfares. The older commercial areas are generally compact and concentrated within the urban core and urban areas. Commercial uses in the inner and outer suburban areas are typically dispersed along major thoroughfares, such as along Dayton Boulevard, Brainerd Road, Lee Highway, and Ringgold Road. The Chattanooga-Hamilton County Regional Planning Agency classifies the commercial uses into the following categories: urban core, strip commercial, shopping centers, mixed use commercial, interstate exchanges, and big box retail. The general commercial areas within Hamilton County are depicted in **Exhibit 3-10**.

Exhibit 3-10: Hamilton County Commercial Areas



Source: *Comprehensive Plan 2030*, by Chattanooga-Hamilton County Regional Planning Agency

The commercial customer base is expected to reverse the decline in customers and show an increase in the customer base through the planning period. Some growth is expected in existing urban areas through revitalization efforts. Within the Chattanooga area, the North Shore is expected to experience some commercial development. New development is also planned along the Tennessee River to the south and west of downtown Chattanooga. The plans include approximately 11 buildings for commercial office space, 10 buildings for commercial retail space, six apartment and condominium complexes, 10 townhome complexes, and one hotel. The preliminary information indicates an approximately 10-year timeframe for completion of this planned project. Within Georgia, Catoosa County has the goal of promoting more mixed use development, which would include commercial businesses. As with residential development, though, some of this growth is expected to occur in resale areas, such as within the Catoosa Utility District.

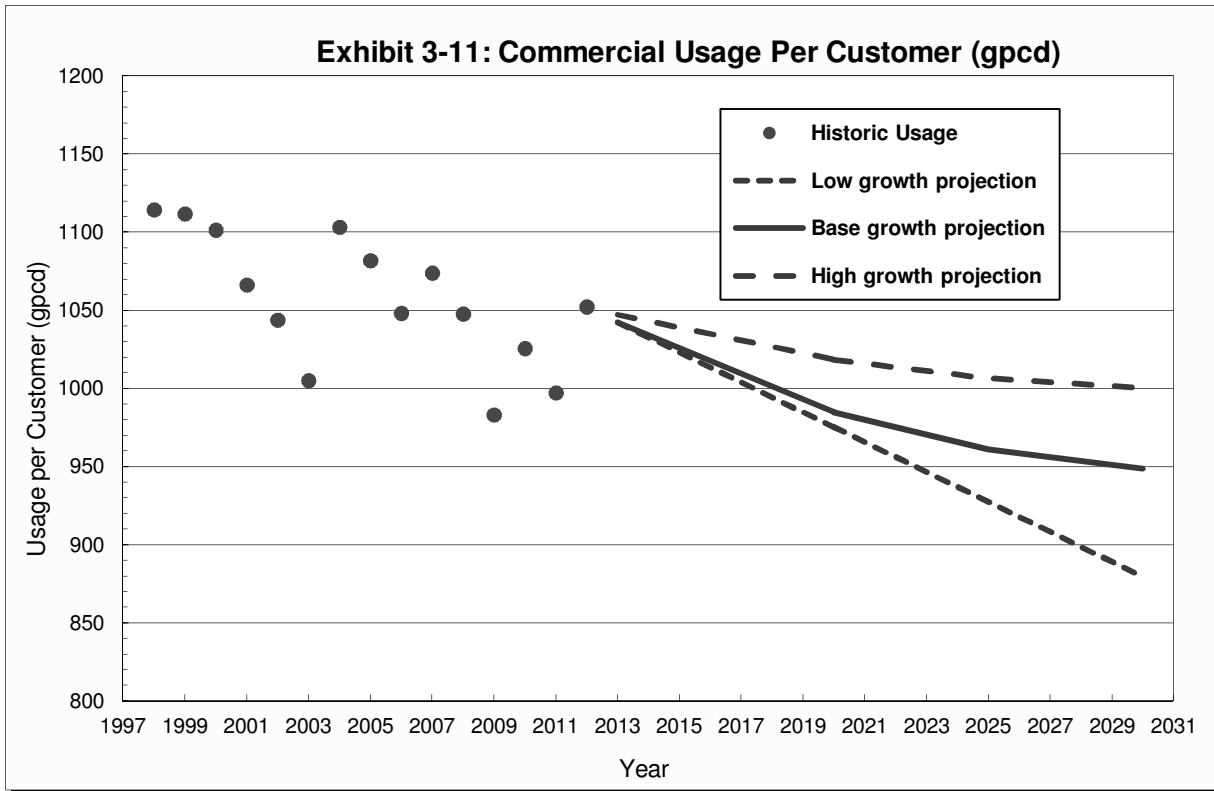
For the base growth scenario, the commercial customer base is projected to experience a net increase of approximately 10 customers per year through 2030. This results in a total net growth of 180 commercial customers over the planning horizon.

An analysis of commercial water use trending for the TNAW Chattanooga system shows that the customer usage has been declining at a winter rate of 9.6 gpcd on an annual basis over the past five years, or a decline of 1.01 percent per year. Similar to residential usage, a winter usage rate is analyzed to represent the true indoor commercial water usage within a system, which eliminates anomalies that may occur due to significant periods of wet and dry summers. When considering the overall commercial usage, the historic trends show a decline of 10.9 gpcd on an annual basis over the past five years. It is assumed that the trend in declining commercial water usage is likely to continue through the 2030 planning horizon, though the rate of decline may slow down as it reaches a more stable low point.

The base growth scenario projects that commercial usage will continue to decline at the winter trend of 9.6 gpcd per year through 2018. The decline is reduced by half to 4.8 gpcd per year through 2025, then again by half to 2.4 gpcd per year through 2030, resulting in a commercial usage of 949 gpcd in 2030. The low growth scenario projects that residential usage will continue to decline at the winter trend of 9.6 gpcd per year through 2030, resulting in a residential usage of 879 gpcd in 2030. The high growth scenario projects that residential usage will decline by half the rate of the historic winter trend of 9.6 gpcd, or 4.8 gpcd through 2018. The decline is reduced by half to 2.4 gpcd per year through 2020, then again by half to 1.2 gpcd per year through 2030, resulting in a residential usage of 1000 gpcd in 2030. **Exhibit 3-11** on the following page illustrates the projected usage per customer for the three growth scenarios. Projections for the commercial customer base and associated demands for all three growth scenarios are presented in **Exhibit 3-12** at the end of the section.

3.4.3 Industrial Customer Classification

The number of industrial accounts in the Chattanooga District was 113 at the end of 2012, with an average demand of 5.17 mgd. The industrial base has decreased from a high of 158 customers in 1998 to the current count of 113 customers. Over the past 15 years, the industrial demand reached a high of 8.92 mgd in 2000, and has since declined to the 2012 demand of 5.17 mgd due to the loss of some significant users. **Exhibit 3-13** illustrates the historic trends in the industrial customers and usage.



Water usage data for the top five industrial customers from 2008 to 2012 are presented in **Table 3-8**, in order of their 2012 usage. The first four customers are in the top seven users in the system, while Southern Cellulose was the 11th highest user in 2012. These five customers accounted for slightly more than 70 percent of the overall industrial water sales in 2012.

Table 3-8: Top Five Industrial Customers

Customer	Address	Average Annual Usage (mgd)				
		2008	2009	2010	2011	2012
Pilgrims Pride	1300 Market St	1.036	1.158	1.384	1.280	1.284
Koch Food LLC	1835 Kerr St	2.286	1.398	1.280	1.116	1.220
Chatt Coca-Cola Bottling	4000 Amnicola Hwy	0.507	0.501	0.531	0.516	0.553
BASF Corporation	32 Lost Mound Dr	0.156	0.145	0.173	0.170	0.402
Southern Cellulose	4201 Dorris St	0.466	0.272	0.331	0.370	0.194

The BASF corporation's billed water usage increased significantly in 2012. They had been taking water off of a fire service, and the higher usage is a result of this water now being metered. They also recently expanded their production capabilities. The impact on future water usage is uncertain, though some additional usage is expected.

The industrial customers are located predominantly in the downtown area with others scattered throughout the system and at various industrial parks. The following industrial parks are located within the TNAW service area:

- Centre South Riverport / Industrial Park (northeast Chattanooga along Route 58)
- Silverdale Industrial Park (eastern Chattanooga close to I-75)
- Lookout Valley Industrial Park (southwestern Hamilton County between I-24 and Wauhatchie Pike)
- Bonny Oaks Industrial and Office Park (eastern Chattanooga off of Jersey Pike and Bonny Oaks Drive)

The Enterprise South Industrial Park is located just outside of the service area, within the Eastside Utility District. The Volkswagen Group of America, Inc opened its production facility in the park in 2011, and may have plans for expansion. The industrial park is seen as an opportunity area for job growth for the region, which could spur population growth.

The three growth scenarios project a range of customers for the industrial sector, from a continued decline in industrial customers for the low growth scenario to slight growth for the high growth scenario. For the base growth scenario, a net growth of three industrial customers is projected through 2030.

The historic usage per customer for the industrial base has fluctuated up and down over the past 15 years, though it has remained more consistent over the past five years. The usage per customer reached a high of 58,483 gpcd in 2000, dropped to a low of 40,715 in 2004, and stood at 45,870 gpcd in 2012. The average over the past 15 years, 10 years and 5 years is 48,695 gpcd, 47,123 gpcd and 47,058 gpcd, respectively. An average usage per customer of 47,000 gpcd is used for the base growth scenario. Projections for the industrial customer base and associated demands for all three growth scenarios are presented in **Exhibit 3-14** at the end of the section.

3.4.4 Other Public Authority Customer Classification

The Other Public Authority (OPA) customer classification includes institutional and public buildings, such as schools, libraries, government hospitals, government offices, community centers and churches. The resale customers have historically been grouped into the OPA category, but are evaluated separately in this analysis. The OPA customer base stood at 705 customers in 2012, increasing from the 1998 level of 581 customers at an average rate of about nine new customers per year. In 2012, the OPA average demand was 1.46 mgd. The demand declined from a high of 3.15 mgd in 2000 to a low of 1.20 in 2008, and has increased slightly since then to the current level of 1.46 mgd. **Exhibit 3-15** illustrates the historic trends in the OPA customers and usage.

Water usage data for the top five OPA customers from 2008 to 2012 are presented in **Table 3-9**, in order based on their 2012 usage. These customers accounted for nearly 59 percent of the overall OPA water sales in 2012. It is noted that the Harriet Tubman Housing is now closed, and there may be plans to rebuild on this site with an industrial customer.

It is projected that the customer base will increase by five new customers per year through 2030 for the base growth scenario. The historic OPA usage per customer has shown a declining trend, from 5,233 gpcd in 1998 to 2,078 gpcd in 2012, but has remained fairly stable over the past four years, averaging 1,998 gpcd. The loss of Harriet Tubman Housing brings the current average usage down to approximately 1,880 gpcd. A value of 1,900 gpcd is used for the base growth scenario. Projections for the OPA customers and demands for all three growth scenarios are presented in **Exhibit 3-16**.

Table 3-9: Top Five OPA Customers

Customer	Address	Average Annual Usage (mgd)				
		2008	2009	2010	2011	2012
City of Chattanooga	Multiple locations	0.537	0.492	0.567	0.583	0.304
Erlanger Medical Center	975 E 3rd St	0.437	0.428	0.391	0.414	0.283
East Lake Courts	2600 4th Ave	0.048	0.059	0.078	0.074	0.148
Harriet Tubman Housing	1801 Southern St	0.053	0.070	0.084	0.093	0.092
Chattanooga Housing Authority	13th & Cyprus St	0.066	0.057	0.059	0.063	0.031

3.4.5 Resale Customer Classification

The Chattanooga District delivered an average flow of 2.90 mgd to its four resale customers in 2012, accounting for nearly 11 percent of the total water sales. **Table 3-10** summarizes the existing resale accounts and their annual average usage from 2009 to 2013. **Exhibit 3-17** at the end of the section illustrates the historic trends in the resale customers and usage.

In addition to the resale customers, TNAW maintains emergency connections with Walker County Water and Sewerage Authority, Dade County Water and Sewer Authority, Eastside UD and Hixson UD. No significant usage has occurred through these interconnections in the past few years, and they are not included in the resale customer analysis.

Table 3-10: Resale Customer Usage

Customer	Address	Average Annual Usage (mgd)				
		2009	2010	2011	2012	2013
City of Fort Oglethorpe	Lafayette Rd	0.997	0.900	0.952	0.980	0.911
Walden's Ridge UD	3900 Taft Hwy	0.896	0.965	0.932	0.848	0.727
Town of Signal Mountain	5 Weeks St	0.867	0.947	0.899	0.824	0.705
Catoosa UD	6730 Ringgold Rd	0.104	0.034	0.384	0.255	0.164

TNAW began wholesale water delivery to the City of Fort Oglethorpe in 1997 and is now the sole provider of their water supply. Their resale contract was renewed in 2013 for an additional five years. Previously, the City of Fort Oglethorpe also purchased water from the Catoosa UD. The City's water usage has remained fairly stable, averaging 0.97 mgd over the past five years. On a monthly basis during 2012 their usage was also steady, with the highest usage occurring in June at an average of 1.10 mgd, corresponding to a peak month ratio of 1.12. Their contract states that they must purchase a minimum of 273.75 MG a year, which averages to 0.75 mgd. No peak flows are stipulated. An average usage of approximately 1.0 mgd is projected for the Base growth scenario.

Walden's Ridge UD began purchasing water from TNAW in July, 2003, with the water delivered to them from the Walden's Ridge booster station and transmission main. They have had steady usage over the past five years. Their peak month usage in 2012 occurred in

July at an average of 1.23 mgd, corresponding to a peak month ratio of 1.46. However, the resale agreement with Walden's Ridge UD will terminate sometime after June 30, 2014, and TNAW will be available as an emergency supply only. The Walden's Ridge booster station and pipeline assets will be sold to the Walden's Ridge UD. Because of this change, no future demand is projected for Walden's Ridge UD. Water that is currently transmitted to TNAW's Lone Oak and Suck Creek areas from the TNAW Chattanooga system through Walden's Ridge UD will now be purchased directly from Walden's Ridge UD.

TNAW's original connection to the Town of Signal Mountain dates back to 1940, with their current wholesale contract dating back to July, 1997. This contract had recently expired but the Town of Signal Mountain signed an 18-month contract extension in January, 2014. TNAW provides all of their water supply. The Town has experienced only slight growth over the past ten years. Their water demand has been fairly stable, though it has declined over the past two years. They currently have a moratorium on new construction due to limitations in their sewer system, though this could be lifted once upgrades are made. They had a peak monthly usage of 1.32 mgd in July, 2012, corresponding to a peak month ratio of 1.60. The contract has a minimum purchase requirement of 273.75 MG annually, which averages to 0.75 mgd, and a peak flow of 3.6 mgd. An average usage of approximately 0.90 mgd is projected for the Base growth scenario.

The Catoosa UD's average annual usage was only 0.255 mgd in 2012 and 0.164 mgd in 2013, but they had a peak month flow averaging 1.19 mgd in July, 2012. They have their own water supply from groundwater wells in the Yates Spring, and generally only take water from TNAW when their demands exceed their available supply. During 2012, TNAW only delivered water to them in the months of May to October. In 2013, they received water all months except March, though the volume delivered in some months was minimal. They maintain connections with both TNAW and the Eastside UD to supplement their own supply. It is unknown how much supply they receive from Eastside UD; however, Eastside UD delivers water into the eastern side of Catoosa's system, and the Catoosa UD has indicated that their system is not designed to move significant amounts of water from east to west. Thus, TNAW may be better positioned hydraulically to serve them. In addition, Catoosa UD is improving transmission piping from the TNAW interconnection.

Due to some issues with deterioration of their wells, their supply capacity is currently limited to approximately 4.5 mgd, and their maximum day demands have reached approximately 6.1

mgd. Because of this, they have requested additional peak supply from TNAW. They renewed their contract in January, 2014 for another three to five years, to allow for peak flows of up to 2.5 mgd. It is likely that TNAW may be requested to provide higher flows in the future if Catoosa's wells continue to deteriorate, but the amounts are uncertain at this time. Catoosa County is projected to be one of the fastest growing counties in the area. Because of the projected growth and their supply limitations, sales to the Catoosa UD are projected to increase, and they have begun taking water on a more regular basis. For the Base growth scenario, their peak usage is projected to increase to approximately 4 mgd through 2030. The high growth scenario projects peak flows of up to approximately 6 mgd by 2030.

No new resale customers are projected through the 2030 planning horizon, though regionalization opportunities are discussed in Section 3.5. The usage projections for the four existing resale customers for the three growth scenarios are shown in **Exhibit 3-18**.

3.4.6 Non-Revenue Usage

Non-revenue water (NRW) usage includes the water used for non-revenue purposes such as hydrant flushing and fire flows, as well as unaccounted-for water due to leaks, main breaks and meter inaccuracies. NRW usage has averaged 23.8 percent, 24.9 percent and 26.3 percent of system delivery over the past 15, 10 and five years, respectively. The 2012 NRW usage was 25.4 percent of the system delivery. The historic trends in non-revenue usage are shown in **Exhibit 3-19**.

A number of reasons have been cited as possible causes of NRW usage. First, the Chattanooga system contains a significant amount of old, small diameter mains. Water Company personnel indicate that most of the main breaks are on small diameter cast iron and galvanized iron mains. It is also noted that East Ridge is more problematic with leaks in cold weather. There could also be significant undetected leakage in the old mains. Secondly, there are approximately 1,400 to 1,600 private fire services, and it is uncertain how much unmetered flow goes through the fire services. Thirdly, inaccurate flow meters may contribute to higher NRW usage. The plant meters were replaced in early 2013 to help with this.

TNAW continues efforts to reduce NRW, though with a significant amount of aging infrastructure in a large system, it can be hard to project. They are checking on customers such as BASF that were taking water through their unmetered fire service, which may help some with reducing NRW. The investment in main replacement has been flat, and it is

recommended to increase this investment to aid these efforts. TNAW has a petition in process with the Tennessee Regulatory Authority (TRA) that would provide for a Qualified Investment Infrastructure Program, with a request for no cap and a two to four percent increase per year. This program would cover aging distribution infrastructure replacements, along with other components, and enable increased investment in main replacement.

For planning purposes, moderate reductions are projected in the NRW percentage for the base growth scenario. The NRW usage is projected at 23 percent of system delivery in 2020, decreasing to 20 percent of system delivery by 2030. The NRW usage projections for all three scenarios are shown in **Exhibit 3-20**.

3.4.7 Customers, Average and Maximum Day Demand Projections

As noted at the beginning of Section 3.4, the historic and projected number of customers is summarized in **Table 3-5** on page 3-27. Similarly, the historic average and maximum day demands and projections through 2030 are provided in **Table 3-6**. The data from these tables are presented in **Exhibits 3-3** and **3-4**, respectively. The average day demand was developed from the summation of the residential, commercial, industrial, OPA, resale and non-revenue projections for the low, base and high growth scenarios. The maximum day demand was projected for the base growth scenario using the statistical maximum to average day ratio at several confidence levels.

Maximum day to average day demand ratios were calculated at various confidence levels as shown in **Table 3-11**. The reliability coefficient is a multiplier that is used with a standard deviation to provide the percent probability that a value will not be exceeded. For example, the likelihood that a ratio of 1.418 will not be exceeded is 99 percent. The mean value of the maximum-to-average day ratio has been 1.280. The 95 percent CL maximum to average day ratio of 1.378 is used to determine the basis of the capacity analysis through this study.

Table 3-11: Maximum to Average Day Ratios for Various Confidence Levels

Confidence Level	Reliability Coefficient	Max/Avg Day Ratio	Years Exceeding CL
99%	2.325	1.418	1 in 100 years
95%	1.645	1.378	1 in 20 years
50%	0.000	1.280	1 in 2 years

Table 3-12 presents the projected average and maximum day demands through 2030 for each year.

Table 3-12: Yearly Projected System Demands (mgd)

Year	Projected Average Day			Projected Max Day (Base Growth)		
	Low	Base	High	50% CL	95% CL	99% CL
2014	35.23	35.93	36.79	45.98	49.50	50.96
2015	34.75	35.80	37.09	45.81	49.32	50.77
2016	34.27	35.66	37.39	45.64	49.14	50.58
2017	33.79	35.53	37.69	45.47	48.95	50.39
2018	33.31	35.40	37.99	45.30	48.77	50.20
2019	32.82	35.26	38.29	45.13	48.59	50.02
2020	32.34	35.13	38.59	44.96	48.40	49.83
2021	31.94	35.09	39.01	44.90	48.34	49.77
2022	31.54	35.04	39.43	44.84	48.28	49.70
2023	31.14	35.00	39.85	44.79	48.22	49.64
2024	30.73	34.96	40.28	44.73	48.16	49.58
2025	30.33	34.91	40.70	44.68	48.10	49.52
2026	29.96	34.94	41.16	44.72	48.15	49.56
2027	29.59	34.98	41.61	44.76	48.19	49.61
2028	29.21	35.01	42.07	44.80	48.23	49.65
2029	28.84	35.04	42.53	44.84	48.28	49.70
2030	28.46	35.07	42.98	44.88	48.32	49.74

3.5 REGIONALIZATION

The TNAW Chattanooga service area is surrounded by numerous water systems in the six county area in which it provides water service. Nine of these systems are located within Hamilton County. **Exhibit 3-1** on page 3-2 provides an overview of the regional area and the neighboring water utilities within the six county area. Available data on these systems is summarized in **Table 3-13**. It is noted that many of the systems within Hamilton County share interconnections to supplement their own water supply sources or to provide emergency supplies when needed.

TNAW's technical capability and resources have led to regionalization opportunities. Activities typically involve extending the distribution network into neighboring systems, or the acquisition of stand-alone systems. Most recently, TNAW acquired the City of Whitwell water system in Marion County. TNAW has completed a preliminary investigation of the system, which serves approximately 3,000 customers, and has developed a plan of improvements. It is a stand-alone system located approximately eight miles west of TNAW's Suck Creek and Lone Oak systems, which were acquired in 2006.

Additional similar regionalization opportunities may exist in the future within Marion and Sequatchie Counties. A regional supply could be a longer term option for water systems in these counties. In addition, the development of a new regional supply for this area may also provide additional supply reliability and assist with vulnerability concerns for TNAW's Chattanooga system, which currently relies on the Tennessee River as its sole source of supply.

TNAW currently has four resale customers, as shown in **Exhibit 3-1**, and as discussed in Section 3.4.5. However, the contract with Walden's Ridge UD will terminate in the near future, and they will begin purchasing water from Hixson UD. The Town of Signal Mountain signed an 18-month extension to their existing contract in January, 2014. TNAW began wholesale water delivery to the City of Fort Oglethorpe in 1997 and is now the sole provider of their water supply. They are expected to continue as a steady user. Catoosa UD is projected to take additional supply from TNAW as their well supplies continue to deteriorate and their demand increases. Overall, increased usage is projected for the resale customers as they continue to play an important part in regionalization efforts.

Table 3-13: Summary Information on Neighboring Water Utilities

Water Utility	Supply	Est. Population Served	Est. Avg Day (mgd)	Est. Max Day (mgd)	Design Capacity (mgd)
Eastside UD	Tennessee River	66,000	12	16	24
Hixson UD	Wells & Springs	56,000	8	12	20
Town of Signal Mountain	TNAW	7,900	0.95	1.9	N/A
Walden's UD	TNAW & Hixson UD	7,000	1.5	2.7	N/A
Soddy-Daisy UD	Wells & Hixson UD	10,800	1.9	2.7	4.3
Mowbray Mountain UD	Soddy-Daisy UD	3,900	0.38	0.52	N/A
Union Fork –Bakewell UD	Wells & Soddy-Daisy UD	4,300	0.45	0.7	1.15
Sale Creek UD	Wells & Union Fork-Bakewell UD	1,730	0.28	0.36	0.37
Savannah Valley UD	Wells & Eastside UD	18,700	1.5	N/A	2.9
Dunlap Water Dept	Sequatchie River	5,650	0.62	N/A	2
Cagle Fredonia UD	N/A	N/A	N/A	N/A	N/A
South Pittsburg Board of Water Works & Sewers	Tennessee River	7,300	1.1	N/A	N/A
Town of Jasper Water & Sewer	Sequatchie River & Spring	8,805	1.0	N/A	N/A
Griffith Creek UD	N/A	N/A	N/A	N/A	N/A
Catoosa UD	Wells, TNAW & Eastside UD	N/A	5	6.5	N/A
City of Fort Oglethorpe	TNAW	9,300	1.0	N/A	N/A
Walker County Water & Sewer Authority	Wells & Surface Water	30,000	3.4	N/A	N/A
City of Chickamauga Water Dept	Wells	N/A	1.0	N/A	N/A
City of Lafayette Water Dept	Wells, Catoosa UD & Walker County	N/A	N/A	N/A	N/A
Walker County Rural Water & Sewer Authority	Wells	N/A	0.2	N/A	N/A
Dade County Water & Sewer Authority	Lookout Creek & Well	N/A	N/A	N/A	N/A

Of the neighboring water utilities, the Eastside UD and the Hixson UD are the largest in terms of population served and demands. Along with TNAW, they are considered to be the main regional suppliers in the area. Eastside UD serves a growing area east of Chattanooga. They appear to be positioned well to serve their existing and future demands, and they have plans to increase their plant capacity above the current capacity of 24 mgd. They deliver wholesale water to Savannah Valley UD, Ocoee UD, Cleveland Utilities, Catoosa UD and Dalton Utilities. The Hixson UD recently increased their plant capacity to 20 mgd to meet existing and future demands, though it is uncertain if they currently have 20 mgd in supply capacity. They also provide wholesale water to Soddy-Daisy UD and Walden's Ridge UD.

An emergency interconnection exists between TNAW and Eastside UD on the far eastern side of the system near the Jenkins Road reservoir, which enables water to be supplied to TNAW, if needed. Because Eastside UD operates at a higher HGL than TNAW, a booster station would need to be constructed to deliver water to Eastside UD. TNAW and Hixson UD share an emergency connection in the Hill City pressure gradient along Hixson Pike, north of Lupton Drive. This connection could deliver water in either direction in an emergency. TNAW also maintains emergency connections with Walker County and Dade County Water Authorities. It may be advantageous to pursue additional interconnections with these neighboring utilities that can improve service reliability for these systems with emergency supply going in both directions.

Three of the utility districts in the northern part of Hamilton County – Sale Creek, Union Fork-Bakewell and Soddy Daisy-Falling Water – recently combined into the Northwest UD. For purposes of this report, they are still listed as separate utility districts.

With the demands in the TNAW Chattanooga system projected to remain fairly flat and even show a slight declining trend, TNAW may be in a position to serve additional areas with the available capacity at its WTP. It is recommended that TNAW continue to make the needed infrastructure improvements to its facilities so that it is positioned as a regional supplier. One of the biggest areas for growth is expected to be in northwest Georgia, primarily through increased sales to Catoosa UD. The distribution section of the CPS evaluates the needed transmission, storage and pumping improvements that are needed to supply increased demands in this area of the system.

Table 3-5
TNAW Chattanooga - Customer Summary

Historic Customers							
Year	Residential	Commercial	Industrial	OPA	Resale	Fire Service	Total
1998	59,784	7,334	158	581	3	956	68,816
1999	60,141	7,588	152	596	3	987	69,467
2000	60,242	7,863	153	608	3	1,014	69,883
2001	60,063	7,924	151	616	3	1,030	69,787
2002	60,344	8,192	143	631	3	1,056	70,369
2003	60,951	8,260	139	630	4	1,065	71,049
2004	61,688	8,189	135	623	4	1,078	71,717
2005	62,328	8,208	130	631	4	1,054	72,355
2006	63,640	8,174	129	659	4	1,069	73,675
2007	64,383	8,238	125	669	4	1,088	74,507
2008	64,567	8,265	123	673	4	1,120	74,752
2009	64,309	8,132	117	673	4	1,229	74,464
2010	64,810	8,120	113	670	4	1,239	74,956
2011	64,897	8,118	112	673	4	1,245	75,049
2012	65,478	8,135	113	705	4	1,241	75,676
Projected Customers							
Low	2020 67,553 2025 68,928 2030 70,178	8,169 8,194 8,219	112 111 110	721 731 741	4 4 4	1,251 1,261 1,271	77,810 79,229 80,523
Base	2020 68,953 2025 71,203 2030 73,203	8,209 8,259 8,309	114 115 116	745 770 795	4 4 4	1,256 1,271 1,286	79,281 81,622 83,713
High	2020 69,553 2025 72,303 2030 74,803	8,249 8,324 8,399	115 117 119	769 809 849	4 4 4	1,261 1,281 1,301	79,951 82,838 85,475

Exhibit 3-3
Customer Summary
TNAW Chattanooga

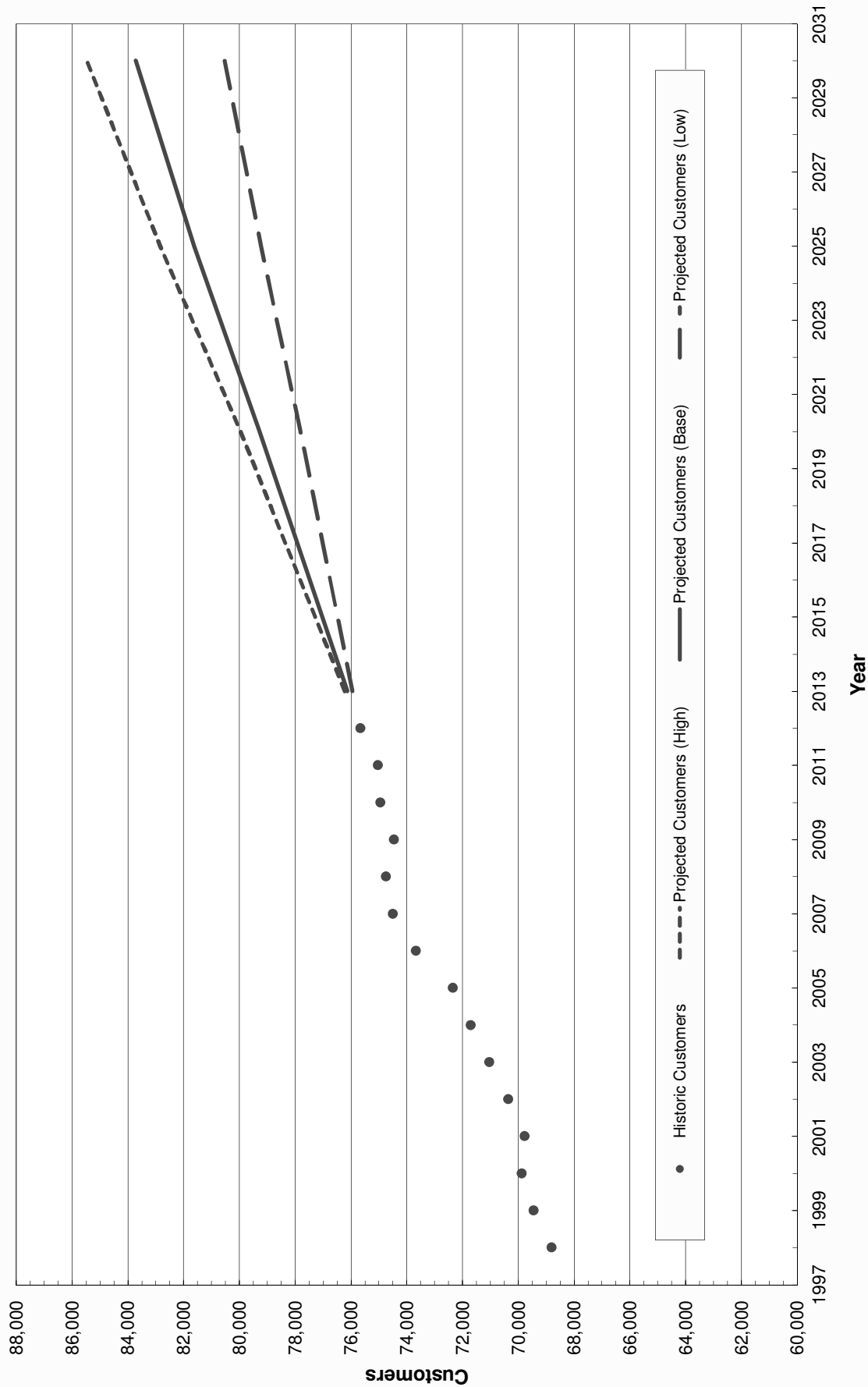


Table 3-6
TNAW Chattanooga - Demand Summary

Historic Demand (mgd)										
Year	Residential	Commercial	Industrial	OPA	Resale	NR Usage	Avg Day	Max Day	Max/Avg Ratio	
1998	9.81	8.17	7.60	3.04	2.19	7.37	38.19	48.83	1.28	
1999	9.71	8.44	8.08	2.96	2.23	7.86	39.27	53.91	1.37	
2000	9.54	8.64	8.92	3.15	2.27	9.33	41.85	50.43	1.21	
2001	9.30	8.45	8.17	2.91	2.32	9.51	40.65	49.38	1.21	
2002	9.52	8.55	6.48	2.88	2.37	9.38	39.18	51.49	1.31	
2003	8.97	8.30	6.01	2.75	2.30	7.87	36.20	45.28	1.25	
2004	8.99	9.01	5.48	2.64	2.71	9.04	37.87	44.28	1.17	
2005	9.12	8.88	6.09	2.42	2.68	9.45	38.64	47.37	1.23	
2006	9.28	8.57	6.72	2.26	3.45	9.13	39.41	53.21	1.35	
2007	9.79	8.85	6.63	1.45	3.96	9.64	40.32	52.05	1.29	
2008	9.38	8.64	6.04	1.20	3.89	9.33	38.48	50.33	1.31	
2009	9.00	8.00	5.28	1.23	2.86	9.89	36.26	48.11	1.33	
2010	9.31	8.33	5.48	1.34	2.85	10.22	37.53	46.49	1.24	
2011	9.08	8.10	5.21	1.40	3.17	10.11	37.07	48.63	1.31	
2012	8.98	8.54	5.17	1.41	2.90	9.19	36.20	48.42	1.34	
Projected Demand (mgd)										
Low	2020	8.31	7.96	4.93	1.30	3.14	6.82	32.45		
	2025	7.79	7.60	4.77	1.24	3.32	5.80	30.52		
	2030	7.30	7.22	4.62	1.19	3.50	4.88	28.70		
Base	2020	8.62	8.09	5.36	1.42	3.69	8.11	35.28	48.61	1.38
	2025	8.54	7.94	5.41	1.46	4.22	7.55	35.12	48.39	1.38
	2030	8.64	7.89	5.45	1.51	4.76	7.06	35.30	48.64	1.38
High	2020	9.11	8.40	5.52	1.69	4.33	9.68	38.73		
	2025	9.33	8.37	5.73	1.86	5.40	10.23	40.93		
	2030	9.57	8.40	5.95	2.04	6.47	10.81	43.24		

Exhibit 3-4
Demand Summary
TNAW Chattanooga

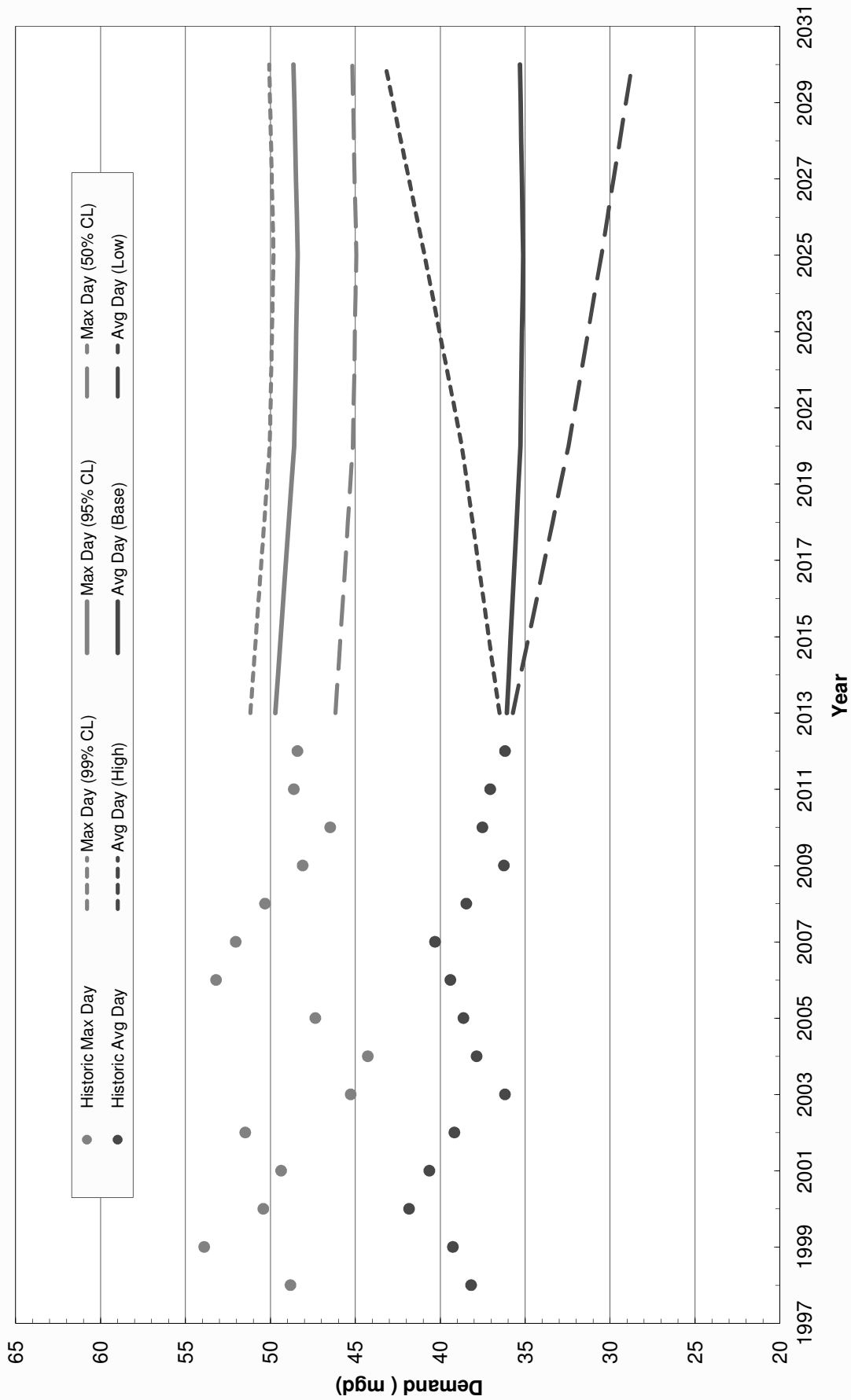
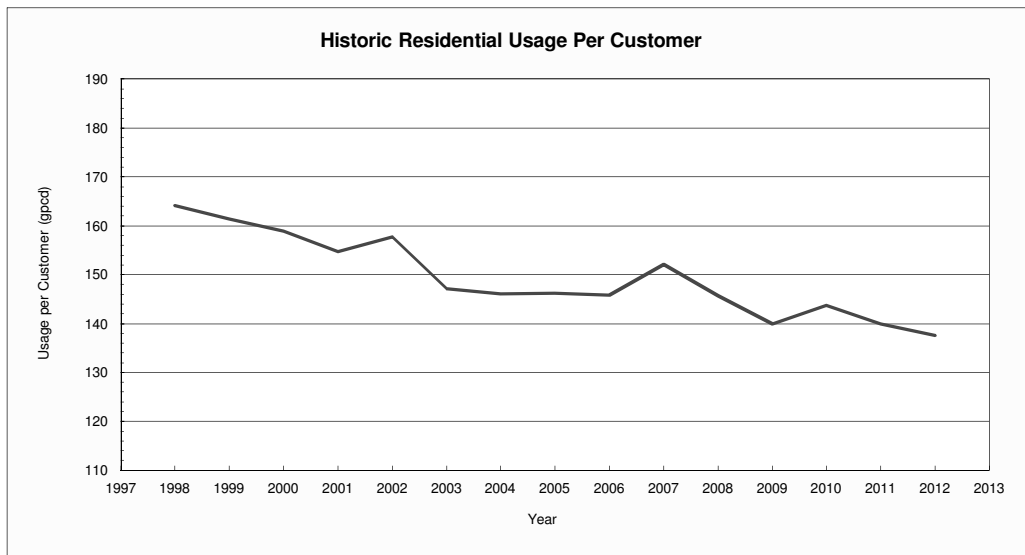
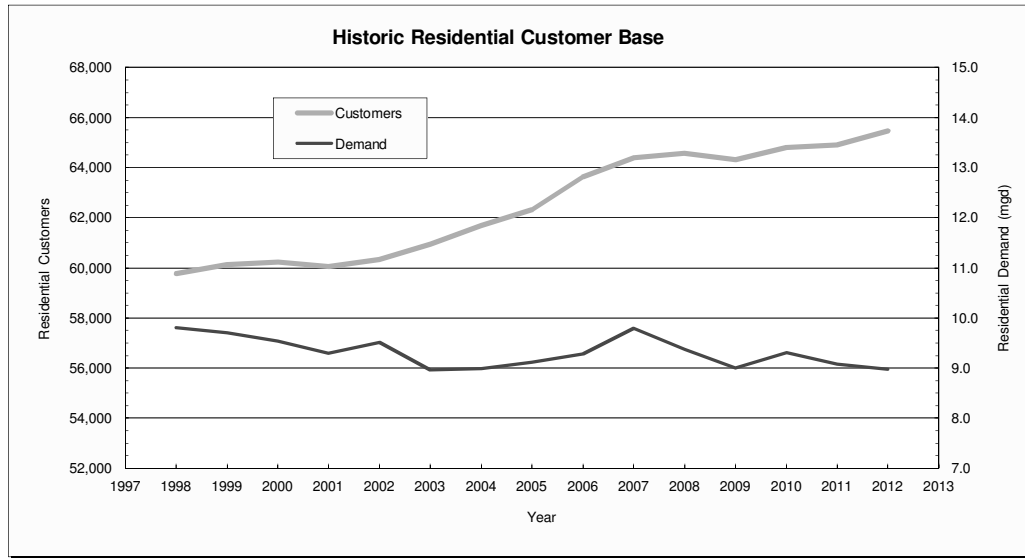


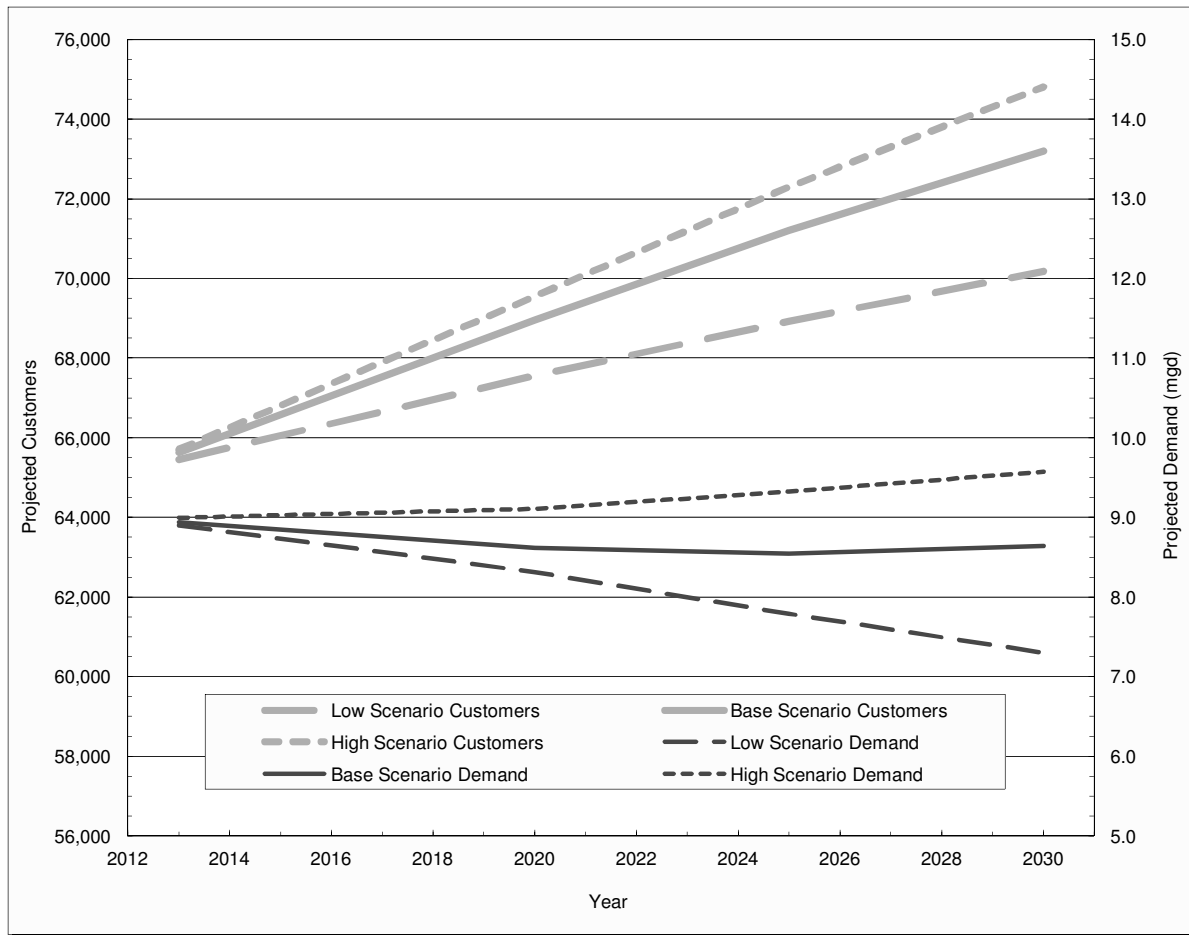
Exhibit 3-5
SUMMARY OF HISTORIC RESIDENTIAL CUSTOMERS & DEMAND
TNAW - Chattanooga



Year	Residential Customers	Customer Growth	Customer Growth Adjusted (1)	Usage Per Customer (gpcd)	Residential Demand (mgd)
1998	59,784			164	9.81
1999	60,141	357	357	161	9.71
2000	60,242	101	101	159	9.54
2001	60,063	-179	-179	155	9.30
2002	60,344	281	281	158	9.52
2003	60,951	607	607	147	8.97
2004	61,688	737	737	146	8.99
2005	62,328	640	640	146	9.12
2006	63,640	1,312	1,115	146	9.28
2007	64,383	743	743	152	9.79
2008	64,567	184	184	146	9.38
2009	64,309	-258	-258	140	9.00
2010	64,810	501	501	144	9.31
2011	64,897	87	87	140	9.08
2012	65,478	581	581	138	8.98
Minimum		-258	-258	138	8.97
Maximum		1,312	1,115	164	9.81
Average - 15 yrs		407	393	149	9.32
Average - 10 yrs		513	494	144	9.19
Average - 5 yrs		219	219	141	9.15

1. TNAW acquired Suck Creek in 2006 with 197 residential customers.

Exhibit 3-8
SUMMARY OF PROJECTED RESIDENTIAL CUSTOMERS & DEMAND
TNAW - Chattanooga



Scenario	Year	Existing Customer Base ¹	Projected New Customers per Year	New Customers Added	Total Projected Customer Base	Projected Customer Usage (gpcd)	Projected Residential Demand (mgd)
Low	2020	65,153	300	2,400	67,553	123	8.309
	2025	65,153	275	3,775	68,928	113	7.789
	2030	65,153	250	5,025	70,178	104	7.299
Base	2020	65,153	475	3,800	68,953	125	8.619
	2025	65,153	450	6,050	71,203	120	8.544
	2030	65,153	400	8,050	73,203	118	8.638
High	2020	65,153	550	4,400	69,553	131	9.111
	2025	65,153	550	7,150	72,303	129	9.327
	2030	65,153	500	9,650	74,803	128	9.575

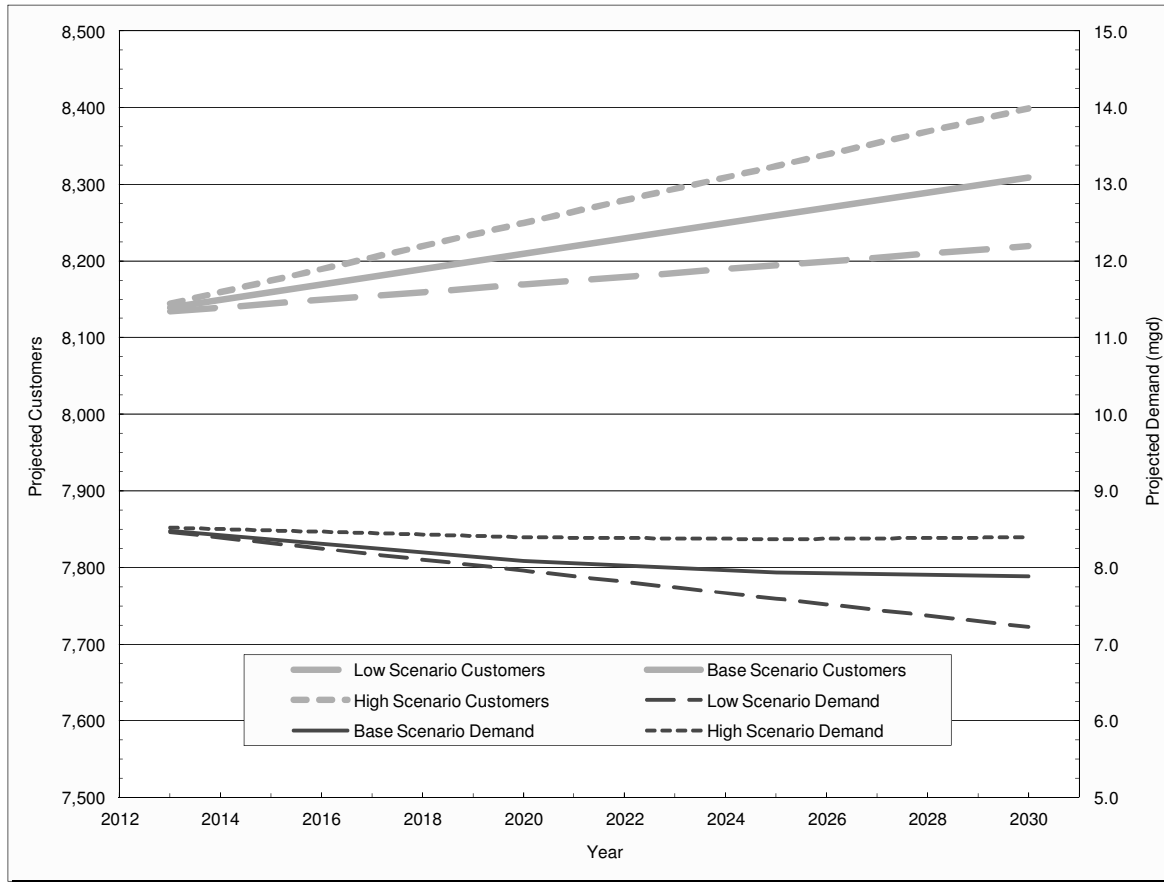
1. The existing customer base does not include the 325 residential customers in Lone Oak and Suck Creek because this area is not considered in the future year projections.

Exhibit 3-9
SUMMARY OF HISTORIC COMMERCIAL CUSTOMERS & DEMAND
TNAW - Chattanooga



Year	Commercial Customers	Customer Growth	Usage Per Customer (gpcd)	Commercial Demand (mgd)
1998	7,334		1,114	8.17
1999	7,588	254	1,112	8.44
2000	7,863	275	1,101	8.64
2001	7,924	61	1,066	8.45
2002	8,192	268	1,044	8.55
2003	8,260	68	1,005	8.30
2004	8,189	-71	1,103	9.01
2005	8,208	19	1,082	8.88
2006	8,174	-34	1,048	8.57
2007	8,238	64	1,074	8.85
2008	8,265	27	1,048	8.64
2009	8,132	-133	983	8.00
2010	8,120	-12	1,026	8.33
2011	8,118	-2	997	8.10
2012	8,135	17	1,052	8.54
Minimum		-133	983	8.00
Maximum		275	1,114	9.01
Average - 15 yrs		57	1,057	8.50
Average - 10 yrs		-6	1,042	8.52
Average - 5 yrs		-21	1,021	8.32

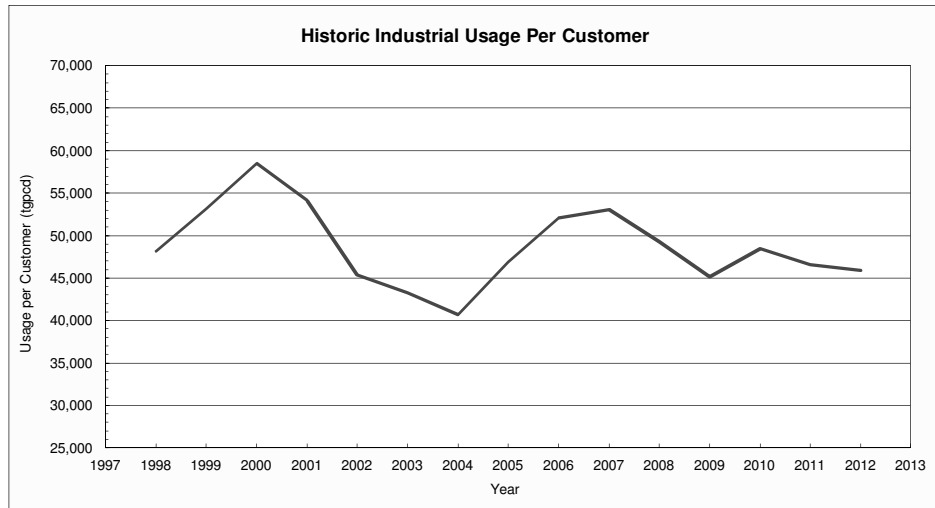
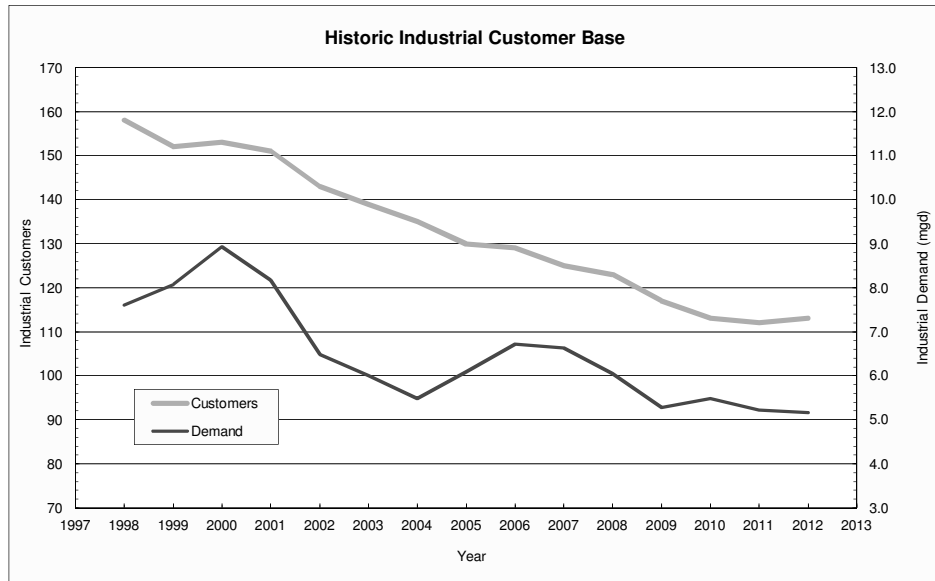
Exhibit 3-12
SUMMARY OF PROJECTED COMMERCIAL CUSTOMERS & DEMAND
TNAW - Chattanooga



Scenario	Year	Existing Customer Base ¹	Projected New Customers per Year	New Customer Base	Total Projected Customer Base	Projected Customer Usage (gpcd)	Projected Commercial Demand (mgd)
Low	2020	8,129	5	40	8,169	975	7.965
	2025	8,129	5	65	8,194	927	7.596
	2030	8,129	5	90	8,219	879	7.225
Base	2020	8,129	10	80	8,209	985	8.086
	2025	8,129	10	130	8,259	961	7.937
	2030	8,129	10	180	8,309	949	7.885
High	2020	8,129	15	120	8,249	1,018	8.397
	2025	8,129	15	195	8,324	1,006	8.374
	2030	8,129	15	270	8,399	1,000	8.399

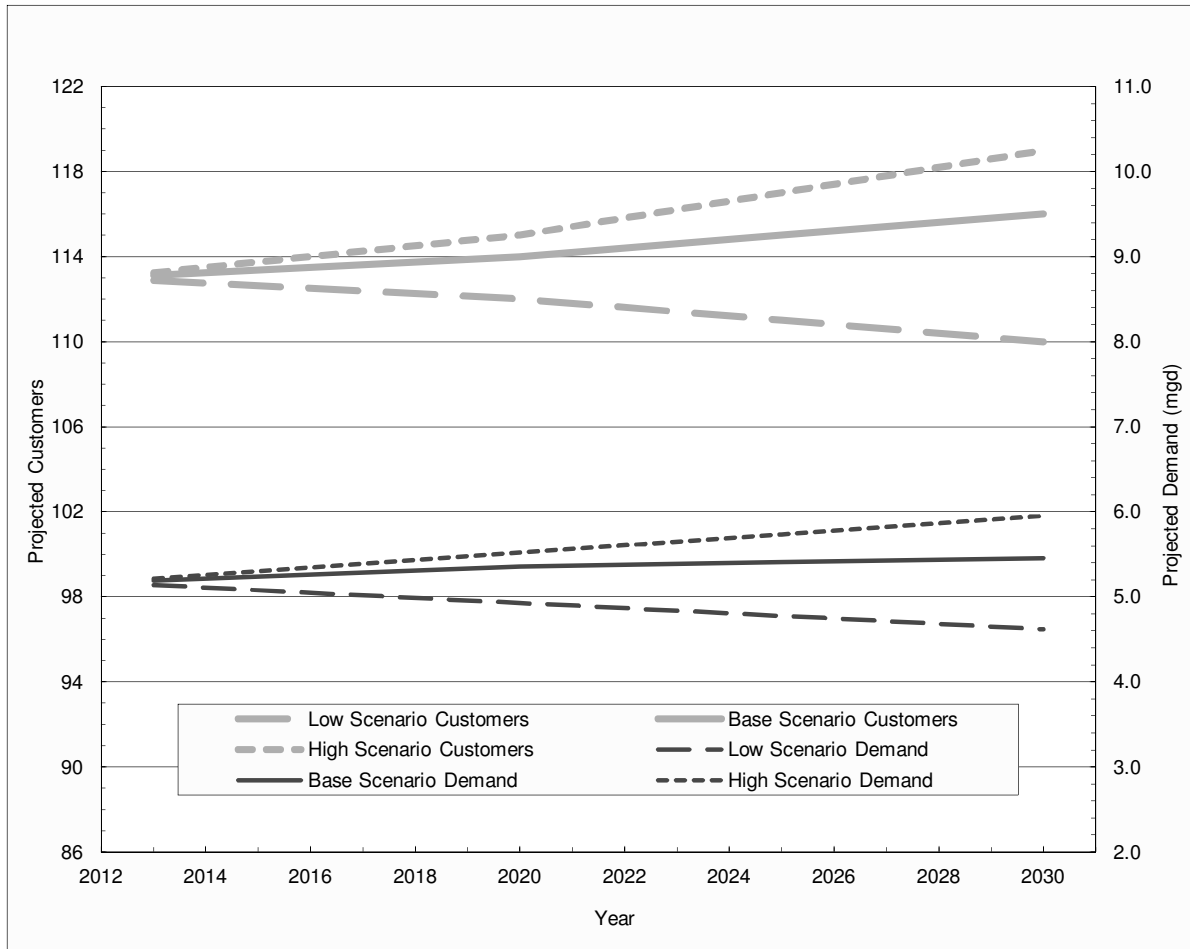
1. The existing customer base does not include the 6 commercial customers in Lone Oak and Suck Creek because this area is not considered in the future year projections.

Exhibit 3-13
SUMMARY OF HISTORIC INDUSTRIAL CUSTOMERS & DEMAND
TNAW - Chattanooga



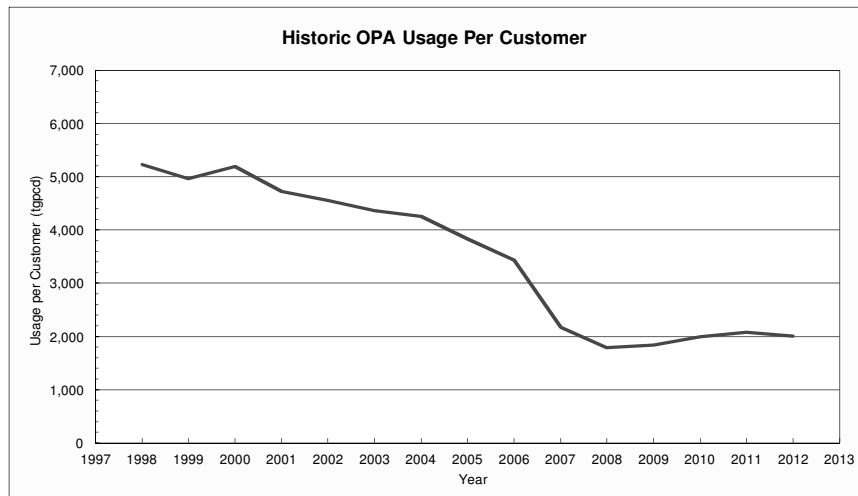
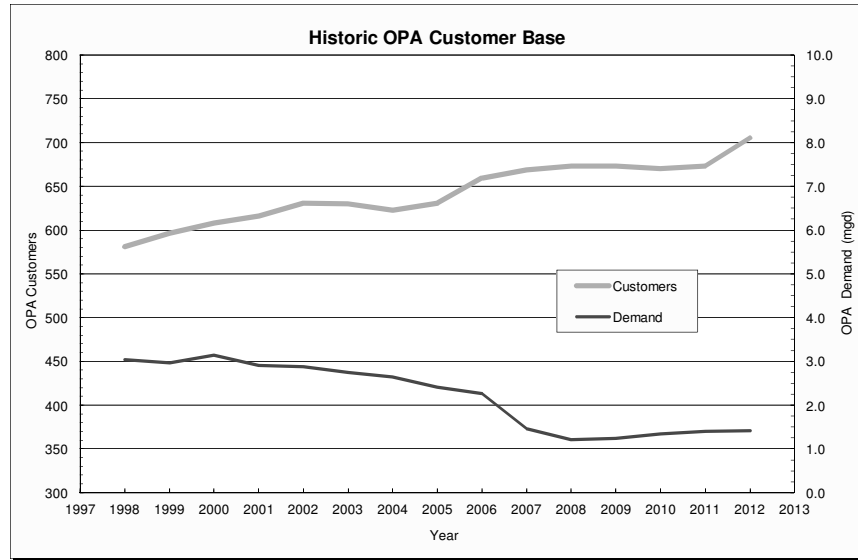
Year	Industrial Customers	Customer Growth	Usage Per Customer (gpcd)	Industrial Demand (mgd)
1998	158		48,131	7.60
1999	152	-6	53,126	8.08
2000	153	1	58,483	8.92
2001	151	-2	54,132	8.17
2002	143	-8	45,332	6.48
2003	139	-4	43,244	6.01
2004	135	-4	40,715	5.48
2005	130	-5	46,884	6.09
2006	129	-1	52,075	6.72
2007	125	-4	53,017	6.63
2008	123	-2	49,267	6.04
2009	117	-6	45,125	5.28
2010	113	-4	48,472	5.48
2011	112	-1	46,557	5.21
2012	113	1	45,870	5.17
Minimum		-8.0	40,715	5.17
Maximum		1.0	58,483	8.92
Average - 15 yrs		-3.2	48,695	6.49
Average - 10 yrs		-3.0	47,123	5.81
Average - 5 yrs		-2.4	47,058	5.44

Exhibit 3-14
SUMMARY OF PROJECTED INDUSTRIAL CUSTOMERS & DEMAND
TNAW - Chattanooga



Scenario	Year	Existing Customer Base	New Customer Base	Total Projected Customer Base	Projected Customer Usage (gpcd)	Projected Industrial Demand (mgd)
Low Growth	2020	113	-1	112	44,000	4.928
	2025	113	-2	111	43,000	4.773
	2030	113	-3	110	42,000	4.620
Base Growth	2020	113	1	114	47,000	5.358
	2025	113	2	115	47,000	5.405
	2030	113	3	116	47,000	5.452
High Growth	2020	113	2	115	48,000	5.520
	2025	113	4	117	49,000	5.733
	2030	113	6	119	50,000	5.950

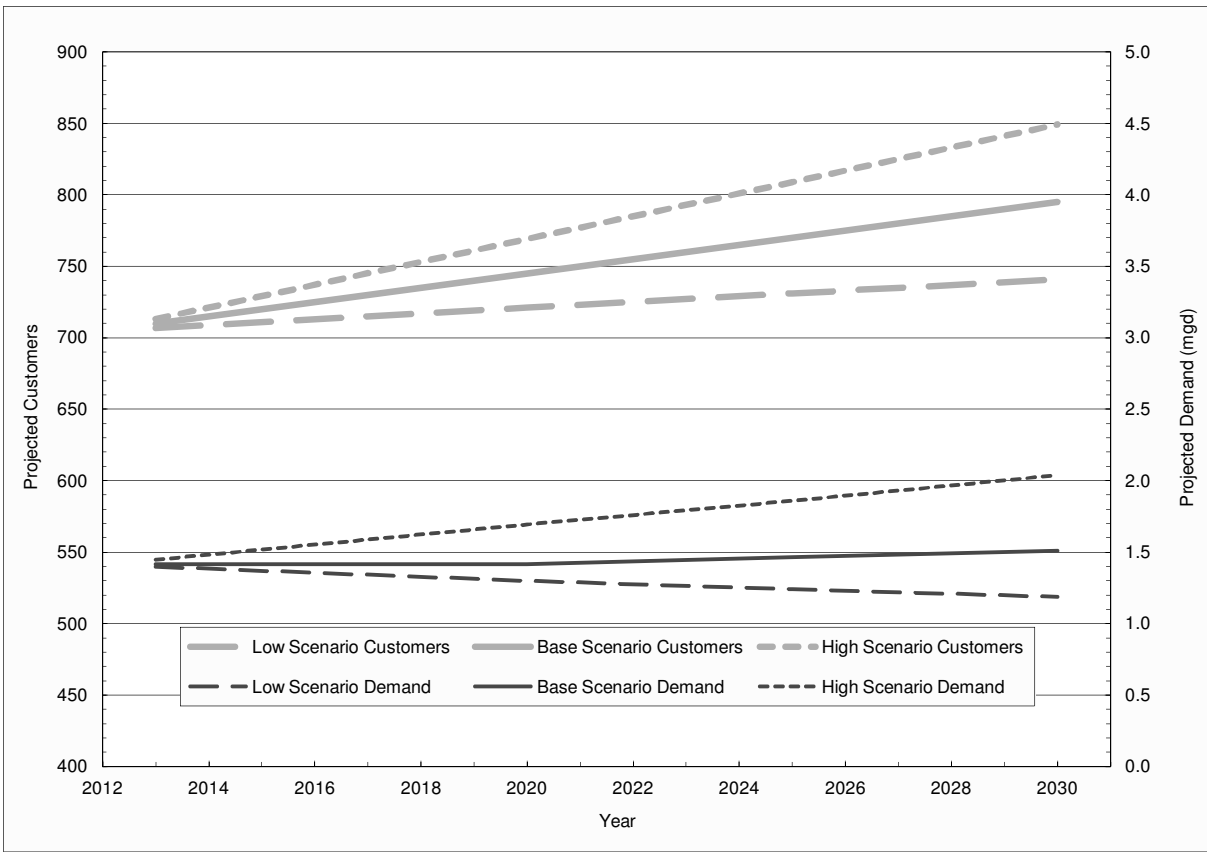
Exhibit 3-15
SUMMARY OF HISTORIC OPA CUSTOMERS & DEMAND
TNAW - Chattanooga



Year	OPA Customers	Customer Growth	Usage Per Customer (gpcd)	OPA Demand (mgd)
1998	581		5,233	3.04
1999	596	15	4,969	2.96
2000	608	12	5,192	3.15
2001	616	8	4,726	2.91
2002	631	15	4,559	2.88
2003	630	-1	4,366	2.75
2004	623	-7	4,253	2.64
2005	631	8	3,830	2.42
2006	659	28	3,432	2.26
2007	669	10	2,173	1.45
2008	673	4	1,795	1.20
2009	673	0	1,833	1.23
2010	670	-3	1,997	1.34
2011	673	3	2,085	1.40
2012	705	32	2,011	1.41
Minimum	-	-7.0	1,795	1.20
Maximum	-	32.0	5,233	3.15
Average - 15 yrs	-	8.9	3,497	2.20
Average - 10 yrs	-	7.4	2,777	1.81
Average - 5 yrs	-	7.2	1,944	1.32

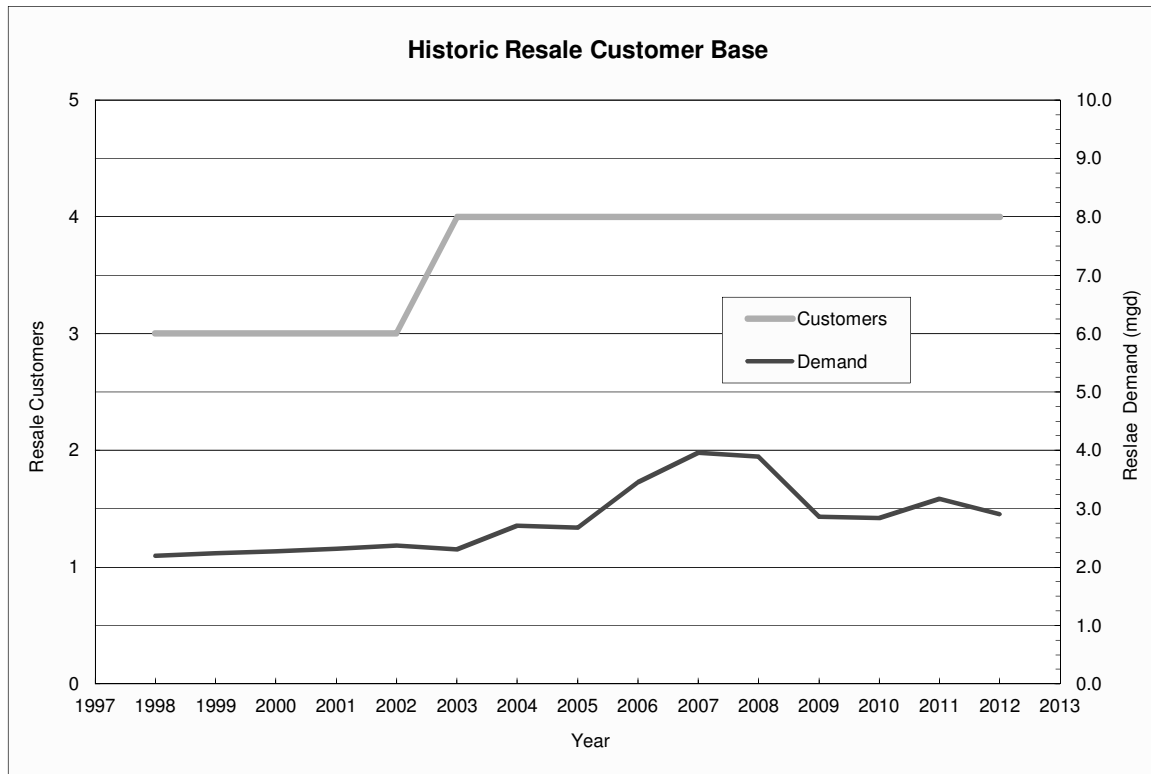
4-yr avg 1,981

Exhibit 3-16
SUMMARY OF PROJECTED OPA CUSTOMERS & DEMAND
TNAW - Chattanooga



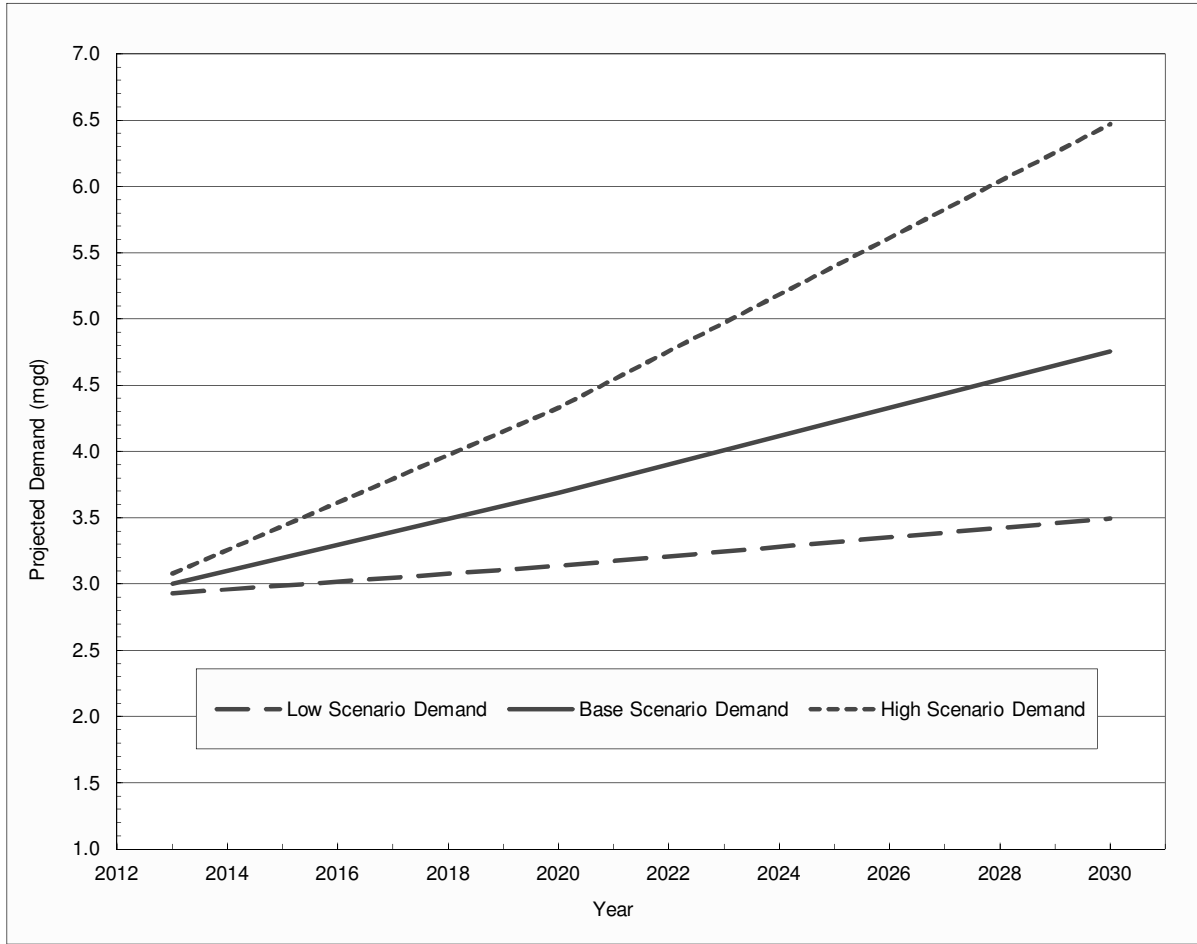
Scenario	Year	Existing Customer Base	Projected New Customers per Year	New Customer Base	Total Projected Customer Base	Projected Customer Usage (gpcd)	Projected OPA Demand (mgd)
Low Growth	2020	705	2	16	721	1,800	1.298
	2025	705	2	26	731	1,700	1.243
	2030	705	2	36	741	1,600	1.186
Base Growth	2020	705	5	40	745	1,900	1.416
	2025	705	5	65	770	1,900	1.463
	2030	705	5	90	795	1,900	1.511
High Growth	2020	705	8	64	769	2,200	1.692
	2025	705	8	104	809	2,300	1.861
	2030	705	8	144	849	2,400	2.038

Exhibit 3-17
SUMMARY OF HISTORIC RESALE CUSTOMERS & DEMAND
TNAW - Chattanooga



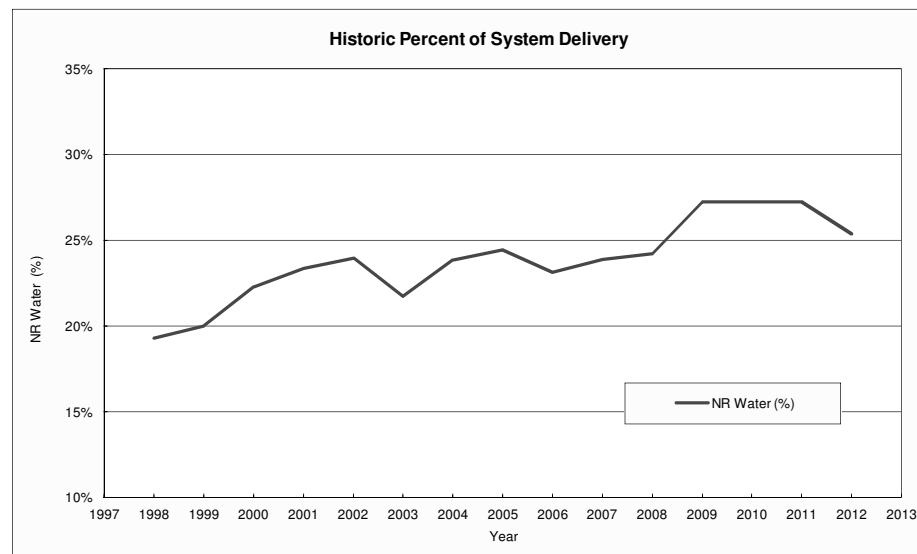
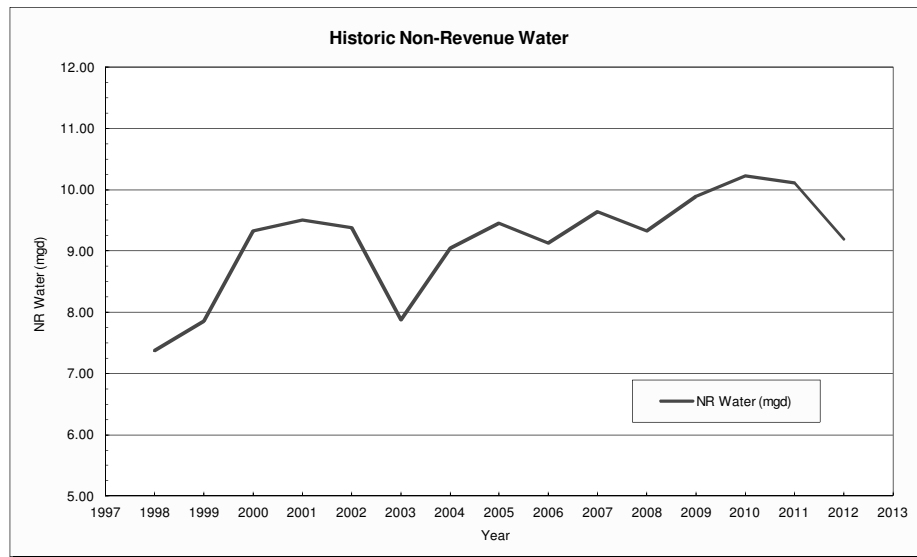
Year	Resale Customers	Customer Growth	Usage Per Customer (gpcd)	Resale Demand (mgd)
1998	3		730,594	2.19
1999	3	0	744,292	2.23
2000	3	0	757,991	2.27
2001	3	0	771,689	2.32
2002	3	0	788,368	2.37
2003	4	1	575,732	2.30
2004	4	0	678,227	2.71
2005	4	0	669,964	2.68
2006	4	0	863,661	3.45
2007	4	0	989,879	3.96
2008	4	0	974,603	3.89
2009	4	0	716,041	2.86
2010	4	0	711,398	2.85
2011	4	0	791,722	3.17
2012	4	0	727,405	2.90
Minimum	-	0	575,732	2.19
Maximum	-	1	989,879	3.96
Average - 9 yrs	-	0	766,104	2.81
Average - 5 yrs	-	0	784,234	3.13
Average - 4 yrs	-	0	736,642	2.94

Exhibit 3-18
SUMMARY OF PROJECTED RESALE DEMAND
TNAW - Chattanooga



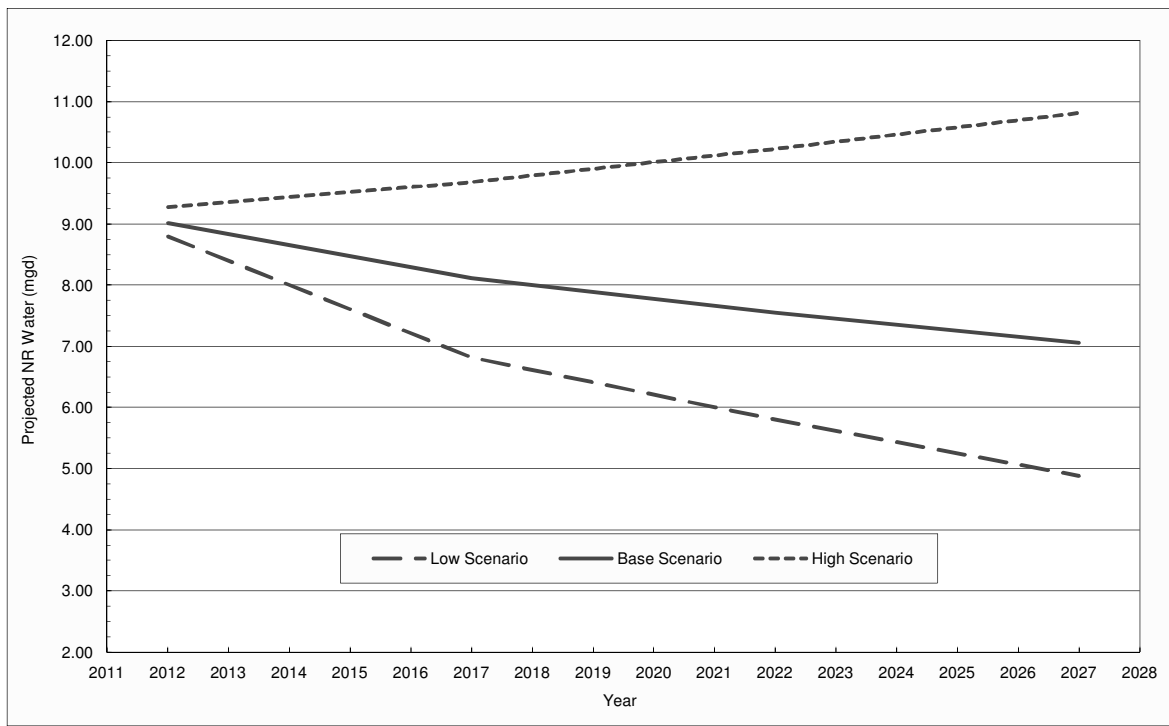
Scenario	Year	Projected Average Demand (mgd)				
		City of Fort Oglethorpe	Walden's Ridge	Signal Mountain	Catoosa Utility District	Total Resale
Low Growth	2020	0.90	0.00	0.81	1.43	3.14
	2025	0.90	0.00	0.81	1.61	3.32
	2030	0.90	0.00	0.81	1.79	3.50
Base Growth	2020	1.00	0.00	0.90	1.79	3.69
	2025	1.00	0.00	0.90	2.32	4.22
	2030	1.00	0.00	0.90	2.86	4.76
High Growth	2020	1.15	0.00	1.04	2.14	4.33
	2025	1.15	0.00	1.04	3.21	5.40
	2030	1.15	0.00	1.04	4.29	6.47

Exhibit 3-19
SUMMARY OF HISTORIC NON-REVENUE WATER
TNAW - Chattanooga



Year	Annual Average Day Demand (mgd)	Non-Revenue Water (mgd)	Non-Revenue Water (% of Avg Day)
1998	38.19	7.37	19.3%
1999	39.27	7.86	20.0%
2000	41.85	9.33	22.3%
2001	40.65	9.51	23.4%
2002	39.18	9.38	24.0%
2003	36.20	7.87	21.7%
2004	37.87	9.04	23.9%
2005	38.64	9.45	24.5%
2006	39.41	9.13	23.2%
2007	40.32	9.64	23.9%
2008	38.48	9.33	24.2%
2009	36.26	9.89	27.3%
2010	37.53	10.22	27.2%
2011	37.07	10.11	27.3%
2012	36.20	9.19	25.4%
Minimum	36.20	7.37	19.3%
Maximum	41.85	10.22	27.3%
Average - 15 yrs	38.47	9.15	23.8%
Average - 10 yrs	37.80	9.39	24.9%
Average - 5 yrs	37.11	9.75	26.3%

Exhibit 3-20
SUMMARY OF PROJECTED NON-REVENUE WATER
TNAW - Chattanooga



Scenario	Year	Total Metered Usage	NR Water (%)	NR Water (mgd)	Projected Total (mgd)
Low Growth	2020	25.64	21.0%	6.82	32.45
	2025	24.72	19.0%	5.80	30.52
	2030	23.82	17.0%	4.88	28.70
Base Growth	2020	27.16	23.0%	8.11	35.28
	2025	27.57	21.5%	7.55	35.12
	2030	28.24	20.0%	7.06	35.30
High Growth	2020	29.05	25.0%	9.68	38.73
	2025	30.69	25.0%	10.23	40.93
	2030	32.43	25.0%	10.81	43.24

SECTION 4

SOURCE OF SUPPLY

4.1 EXISTING SOURCE OF SUPPLY

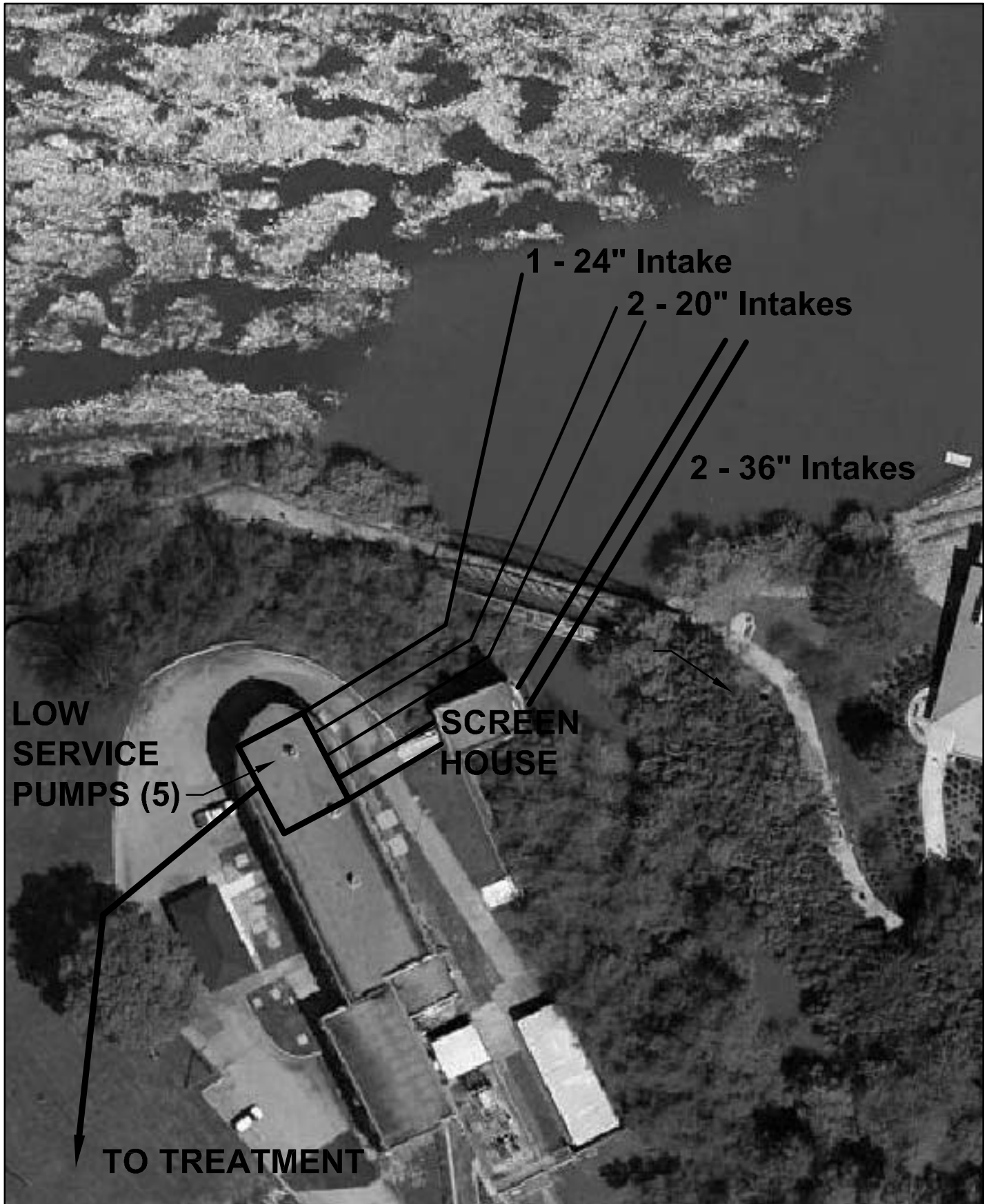
The Tennessee River serves as the sole source of supply for the TNAW Chattanooga system, and it provided an average of 36.2 mgd to the system during 2012. The flow in the Tennessee River is abundant and should easily continue to provide an adequate source of supply for TNAW in the future.

The flow and pool elevations in the river have been controlled by a series of nine dams since 1936. The dams were built by the Tennessee Valley Authority (TVA) between 1933 and 1940 and extend from the river's origin in northern Tennessee to its confluence with the Ohio River in Kentucky. The drainage area of this basin at the United States Geological Survey (USGS) station in Chattanooga is approximately 21,400 square miles.

TNAW maintains five intake pipelines, located at river mile 465.4 in the Nickajack Reservoir on the Tennessee River. The reservoir is created by the Nickajack Dam at river mile 425, approximately 40 miles downstream of the intakes. The normal operating elevations behind the dam range from approximately 632.5 ft to 634.5 ft. The invert of the intake lines is at approximately 615 feet. The intake pipelines are approximately five miles downstream of the Chickamauga Dam at river mile 471.

Exhibit 4-1 on the following page provides an overview of the raw water intake facilities. Of the five intake pipelines, the two primary intakes are 36-inch diameter pipelines extending 175 feet into the river. A majority of the supply travels through these two intake lines, with the other three intake lines primarily serving as backup. Raw water from the two 36-inch intake pipelines is directed through two traveling screens. The traveling screens, installed in 1967 and 1973, are housed in a brick building constructed in 1941. Raw water flows from the wet well in the screen house to the raw water header. The remaining three intake pipelines consist of two 20-inch diameter pipelines and one 24-inch diameter line. These three intake pipelines utilize wire wound screens and are piped directly to the raw water header.

Five raw water pumps are connected to the raw water header and deliver water to the two parallel treatment trains. The raw water pump specifications are discussed further in the Production Section.



4.2 SOURCE WATER QUALITY

TNAW operates a Tennessee Department of Environment and Conservation (TDEC) certified laboratory and monitors raw water quality on its premises. Additional analyses are conducted by the American Water Works Service Company (AWWSC) Laboratory in Belleville, Illinois. Data on relevant raw water quality parameters are presented in **Table 4-1** on the following page.

Reduced industrial activity and increased surveillance by the TDEC, the TVA and TNAW have contributed to an improvement of water quality in the Tennessee River and its tributaries. As part of its source protection program, TNAW collects monthly samples at various industrial outfalls and control points on the Tennessee River, the Citico Creek and the South Chickamauga Creek. Sample points are reached by boating to the actual discharge location or by driving onto the property of the industry or to an adjacent point.

Samples are analysed for the following parameters at 10 locations in the Tennessee River - pH, turbidity, specific conductance, aluminum, antimony, arsenic, barium, beryllium, boron, cadmium, calcium, chromium, copper, iron, lead, manganese, nickel, selenium, sodium, thallium, zinc, and mercury. TNAW receives support from the Belleville Laboratory for the analyses. All of the levels for these parameters were below the primary MCLs at the intakes, based on the 2013 data. The levels for aluminum, iron and manganese are sometime higher than their secondary MCLs at the intakes, but the levels are reduced to below the secondary MCLs after treatment.

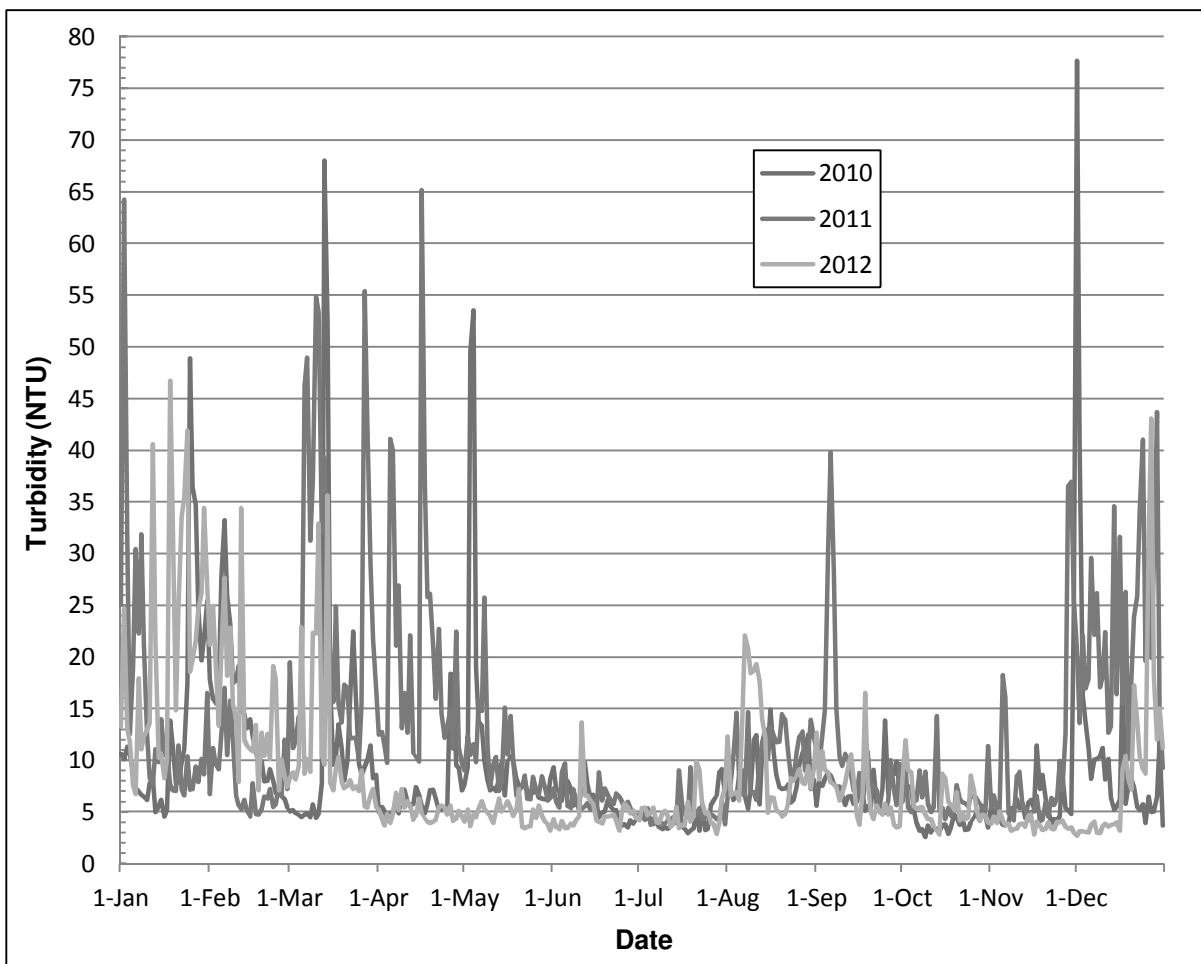
As shown in **Table 4-1**, there are some months with very high levels of coliform in the raw water. These high levels are most likely due to sewer overflows (via manholes) into the Citico and South Chickamauga Creeks. The Citico Creek is adjacent to the raw water intake and the South Chickamauga Creek is upstream of the intake. The high bacteria problem in the raw water is dealt with effectively at the Citico water treatment plant and meets the finished water quality regulations with respect to coliform count.

Table 4-1
Raw Water Quality Data - Tennessee River - 2010 to 2012

Year	Month	Rainfall (in)	Turbidity (NTU)			Coliform (per 100 mL)			Alkalinity (mg/L)			pH			Hardness (mg/L)			Iron (mg/L)			Manganese (mg/L)		
			MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG
2010	JAN	5.78	4.5	48.9	13.5	67	24,196	3,143	53	79	65	7.4	7.6	7.5	64	88	76	0.07	0.46	0.19	0.01	0.09	0.05
	FEB	3.80	5.4	33.2	14.1	65	9,210	980	49	70	61	7.3	7.7	7.5	60	82	71	0.09	0.40	0.23	0.02	0.07	0.05
	MAR	3.82	4.4	68.0	12.3	75	18,416	2,000	65	77	70	7.4	7.8	7.6	76	88	81	0.07	0.42	0.17	0.02	0.08	0.04
	APR	2.40	4.5	18.3	3.9	152	4,813	1,385	63	78	69	7.5	7.7	7.6	66	90	78	0.05	0.32	0.15	0.02	0.09	0.04
	MAY	5.38	6.1	53.6	11.4	1,467	48,392	5,836	56	72	65	7.3	7.6	7.5	66	80	74	0.05	0.71	0.16	0.02	0.11	0.05
	JUN	2.24	3.5	9.8	5.9	1,431	9,768	4,504	61	71	65	7.3	7.5	7.4	68	80	73	0.06	0.72	0.15	0.02	0.08	0.05
	JUL	2.62	2.9	9.1	4.6	1,124	24,066	6,019	64	70	67	7.3	7.5	7.4	70	78	74	0.04	0.19	0.09	0.02	0.11	0.07
	AUG	3.05	5.3	14.9	8.7	1,298	6,212	3,207	63	72	67	7.4	7.6	7.5	71	84	76	0.03	0.12	0.09	0.05	0.28	0.11
	SEP	1.13	5.1	13.8	7.3	365	4,839	2,408	69	74	71	7.4	7.6	7.6	78	84	82	0.04	0.14	0.09	0.04	0.13	0.08
	OCT	2.31	2.6	7.5	4.3	387	9,676	1,291	68	73	70	7.3	7.6	7.5	76	83	80	0.04	0.21	0.11	0.02	0.08	0.04
	NOV	8.00	3.7	24.9	6.2	78	7,945	968	66	77	69	7.4	7.7	7.5	76	86	80	0.03	0.33	0.11	0.02	0.10	0.05
	DEC	1.43	3.7	77.7	11.5	50	259,940	13,081	54	73	64	7.2	7.6	7.5	69	84	77	0.06	1.21	0.22	0.02	0.11	0.05
2011	JAN	4.27	6.6	64.2	15.1	63	490,200	24,388	59	79	68	7.4	7.8	7.6	74	92	82	0.08	0.92	0.23	0.02	0.09	0.05
	FEB	2.24	4.5	17.0	8.0	8	1,986	463	65	77	70	7.6	8.2	8.0	78	90	84	0.08	0.32	0.19	0.02	0.09	0.05
	MAR	11.77	10.1	55.4	25.5	232	83,500	12,210	47	73	63	7.2	8.2	7.5	58	84	75	0.11	0.64	0.31	0.03	0.13	0.07
	APR	8.84	9.7	65.2	19.8	816	433,200	30,009	56	77	66	7.3	7.7	7.5	66	86	77	0.07	0.79	0.30	0.02	0.11	0.05
	MAY	1.62	6.1	25.7	9.9	359	244,200	11,440	63	77	70	7.3	7.6	7.4	74	88	81	0.04	0.10	0.08	0.02	0.06	0.04
	JUN	3.95	4.6	9.7	6.2	770	5,654	2,755	71	81	77	7.4	7.6	7.5	81	94	89	0.03	0.25	0.13	0.03	0.09	0.06
	JUL	3.87	3.8	9.3	4.8	1,159	8,665	3,423	70	76	73	7.4	7.6	7.5	80	88	84	0.06	0.14	0.07	0.02	0.12	0.07
	AUG	0.01	6.2	14.7	10.6	1,733	4,839	3,426	70	77	73	7.5	7.7	7.6	80	88	84	0.06	0.24	0.12	0.08	0.11	0.09
	SEP	10.94	4.9	39.8	11.1	1,540	282,720	15,606	56	76	69	7.3	7.7	7.5	64	88	79	0.09	0.48	0.22	0.07	0.09	0.08
	OCT	2.70	4.3	14.3	6.5	651	3,973	1,594	69	74	72	7.5	7.6	7.6	78	86	82	0.04	0.25	0.12	0.04	0.09	0.06
	NOV	8.14	4.1	37.0	9.5	365	100,700	7,797	51	79	73	7.4	7.7	7.6	59	92	83	0.06	0.47	0.21	0.06	0.16	0.09
	DEC	6.53	9.3	43.7	22.5	582	172,400	16,368	56	76	67	7.4	7.7	7.5	64	88	78	0.17	0.39	0.28	0.07	0.16	0.11
2012	JAN	7.10	6.7	46.7	20.9	107	124,050	9,974	59	75	67	7.5	7.7	7.6	67	88	77	0.15	0.36	0.28	0.02	0.12	0.08
	FEB	2.25	7.1	34.4	14.8	142	4,665	931	59	77	69	7.5	7.7	7.6	68	88	79	0.17	0.25	0.21	0.05	0.07	0.06
	MAR	5.40	5.4	35.6	11.1	15	8,665	1,530	72	79	76	7.5	7.8	7.7	78	91	86	0.11	0.22	0.17	0.04	0.07	0.06
	APR	0.69	3.7	7.2	5.0	488	5,475	1,193	71	82	76	7.4	7.6	7.5	82	92	86	0.11	0.30	0.18	0.05	0.09	0.07
	MAY	2.50	3.2	7.2	4.8	166	3,973	1,537	74	81	77	7.3	7.5	7.4	70	90	84	0.06	0.10	0.08	0.07	0.10	0.08
	JUN	2.43	3.2	13.7	4.9	1,298	9,678	2,897	76	82	78	7.3	7.6	7.4	82	92	86	0.05	0.10	0.08	0.04	0.08	0.07
	JUL	6.87	2.9	9.9	5.0	1,642	39,726	5,295	62	77	69	7.3	7.5	7.4	68	84	76	0.07	0.19	0.12	0.09	0.12	0.10
	AUG	3.79	4.5	22.1	10.1	2,747	10,462	5,102	69	79	74	7.4	7.7	7.6	78	88	83	0.09	0.21	0.16	0.09	0.17	0.12
	SEP	7.38	3.5	16.5	7.1	1,633	385,050	22,105	67	77	73	7.4	7.7	7.5	76	88	83	0.08	0.22	0.15	0.03	0.09	0.06
	OCT	5.25	2.8	11.9	5.8	651	46,040	4,861	68	76	72	7.5	7.7	7.6	77	85	81	0.07	0.20	0.14	0.05	0.10	0.07
	NOV	1.55	2.8	5.1	3.8	261	2,420	739	69	75	72	7.6	7.8	7.7	76	84	80	0.05	0.22	0.16	0.06	0.10	0.07
	DEC	5.57	2.7	43.1	9.0	179	28,272	2,787	67	79	72	7.6	7.8	7.7	72	88	79	0.11	0.30	0.20	0.07	0.12	0.09
ANNUAL	TOTAL		MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG	MIN	MAX	AVG
2010		41.96	2.6	77.7	8.6	50	259,940	3,735	49	79	67	7.2	7.8	7.5	60	90	77	0.03	1.21	0.15	0.01	0.28	0.06
2011		64.88	3.8	65.2	12.5	8	490,200	10,790	47	81	70	7.2	8.2	7.6	58	94	82	0.03	0.92	0.19	0.02	0.16	0.07
2012		50.78	2.7	46.7	8.5	15	385,050	4,913	59	82	73	7.3	7.8	7.6	67	92	82	0.05	0.36	0.16	0.02	0.17	0.08

The turbidity levels from 2010 to 2012 are illustrated graphically in **Exhibit 4-2**. From the graph, it is noted that raw water turbidity levels are generally lower from approximately mid May through November. During this time period, the levels are generally below 15 NTU with the exception of a few spikes. Higher turbidity levels and spikes in turbidity generally occur the remainder of the year. Aerial views of the river indicate that the water is less turbid on the opposite side of the river from the intakes. The more turbid water on the near side where the intakes are located is caused by flows from the South Chickamauga Creek. The option of extending an intake to the opposite side of the river is evaluated in the Production Section.

Exhibit 4-2
Raw Water Turbidity Levels – Tennessee River – 2010 to 2012



4.3 SOURCE WATER PROTECTION

TNAW maintains an active watershed surveillance program since the quality of the raw water has a direct impact on the quality of the finished water. TNAW strives to keep knowledge of activities on the watershed current by keeping abreast on where construction is being performed, maintaining a dynamic interest in the NPDES permit applications, and developing and utilizing an in-depth knowledge of variations of raw water quality. The Water Company maintains daily measurements of total coliform and E. coli to assist in the evaluation of upstream sewer overflows. As noted earlier, it samples and tests various water quality parameters at 10 locations in the Tennessee River.

The upstream watershed is subject to spilled materials that may or may not be removed by standard water treatment procedures. Therefore, TNAW practices a procedure whereby the proper persons are notified so that modifications at the treatment plant can be made or the pollutants contained and cleaned up prior to it reaching the intakes. Powdered activated carbon (PAC) is maintained at the Citico WTP, which can be used as supplemental treatment for catastrophic river events, if needed.

TNAW updates and submits its "Source Water Assessment" report to TDEC every three years, in addition to providing an annual review. The report includes the potential contaminant source inventory, the contingency plan, and methods of protection. The inventory of potential contaminant sources includes the following categories – manufacturing, services, and transportation, communications, electrical, gas and sanitary service. The inventory includes 385 entries. In addition to specific sites, it is noted that the watershed area is highly susceptible to transportation incidents and the emergency responders are aware of the watershed protection.

TNAW has also begun building relationships with industries that may contain watershed hazards. The intent is to establish communication, identify the potential chemical contaminants on site, and then determine mitigating steps for these potential hazards. In addition, TNAW maintains an inventory of water dischargers per the EPA database, a toxic release to water list per the EPA database, the EPA regulated facilities listing, and RCRA sites.

Overall the watershed is of good quality. The EPA recently announced its Index of Watershed Indicators (IWI), which was formerly known as the National Watershed Assessment Program.

The project is designed to characterize over 2,000 watersheds in the United States according to 15 separate indicators of aquatic condition and vulnerability. The Middle Tennessee-Chickamauga watershed, from which TNAW obtains its water supply, is characterized as a watershed with less serious water quality problems and lower vulnerability to stressors such as pollutant loadings, according to the IWI. This assessment indicates that the watershed is in fairly good condition, and is expected to remain that way in the future.

4.4 SOURCE ADEQUACY

TNAW obtains its water supply entirely through surface water obtained from the Tennessee River. No allocation permit is required by the State.

River supplies are considered adequate when the low flow of record is greater than the projected maximum day demand and any passing flow requirement. River flow data is available from a USGS station located approximately 2.2 miles upstream of the raw water intake pipelines, at mile 467.6. Data is only available through 2007, so the station may have been discontinued. The average of the annual mean flows from 1954 to 2007 is 35,429 cubic feet per second (cfs), or 22.90 billion gallons per day (bgd). The minimum and maximum during this same time was 15,850 cfs (10.24 bgd) and 52,020 cfs (33.62 bgd), respectively. The highest flows in the river typically occur in February and March, and the lowest flows in September and October. The lowest historic daily flow during the above time period was 1,200 cfs (775 mgd).

The historic low flow is still more than 16 times the projected maximum day demand in 2030, and is considered sufficient for TNAW to meet its demands through the year 2030 and beyond.

SECTION 5

PRODUCTION

5.1 OVERVIEW

TNAW's 65 mgd surface water treatment facility consists of two parallel treatment plants with rated filter capacities of 40 mgd and 25 mgd. One of the treatment plants ("Plant 1" - 40 mgd) consists of conventional flocculation/sedimentation/filtration and the second plant ("Plant 2" - 25 mgd) consists of eight Aldrich units (combined flocculation/sedimentation/filtration) constructed in the 1950's. Raw water is drawn from the Tennessee River, and provides the only source of water for the treatment plant and for TNAW's Chattanooga operations.

Tennessee Department of Environment and Conservation ("TDEC") has primary enforcement responsibility of the State's drinking water regulations, which must be at least as stringent as the federal regulations. With a few exceptions, TDEC has adopted, unchanged, the federal regulations.

Of note are improvements that are being conducted in 2015 at the Chattanooga facility, primarily with residuals handling. On May 15, 2013, TNAW was issued a new Wastewater Discharge Permit (No. 0074) by the City of Chattanooga. This permit included a compliance schedule for the design and construction of a pretreatment system and compliance monitoring station to effectively lower the concentrations of regulated metals in the TNAW thickened solids discharge. Previously, TNAW had been granted an "Exception to Wastewater Strength Standard" for arsenic, chromium, copper, lead, and zinc. This exception has expired and the City of Chattanooga expects TNAW to be in full compliance with the regulated metals criteria. The primary metal of concern is zinc. Periodically, but not every month, the wastewater discharge from the Citico WTP will have zinc levels that exceed the 5 mg/L permit limit. Testing data provided by TNAW indicates that zinc concentrations in the river sediments can be as high as 400 milligrams per kilogram (mg/kg).

The purpose of the current construction is to build a residuals handling system that will eliminate, or minimize, discharge of residual solids to the City of Chattanooga and will allow TNAW to achieve full compliance with its Wastewater Discharge Permit. The project also has several secondary benefits, including improvements to management of both solids and recycle flows, and reductions in reliance on and costs associated with wastewater discharge to the City.

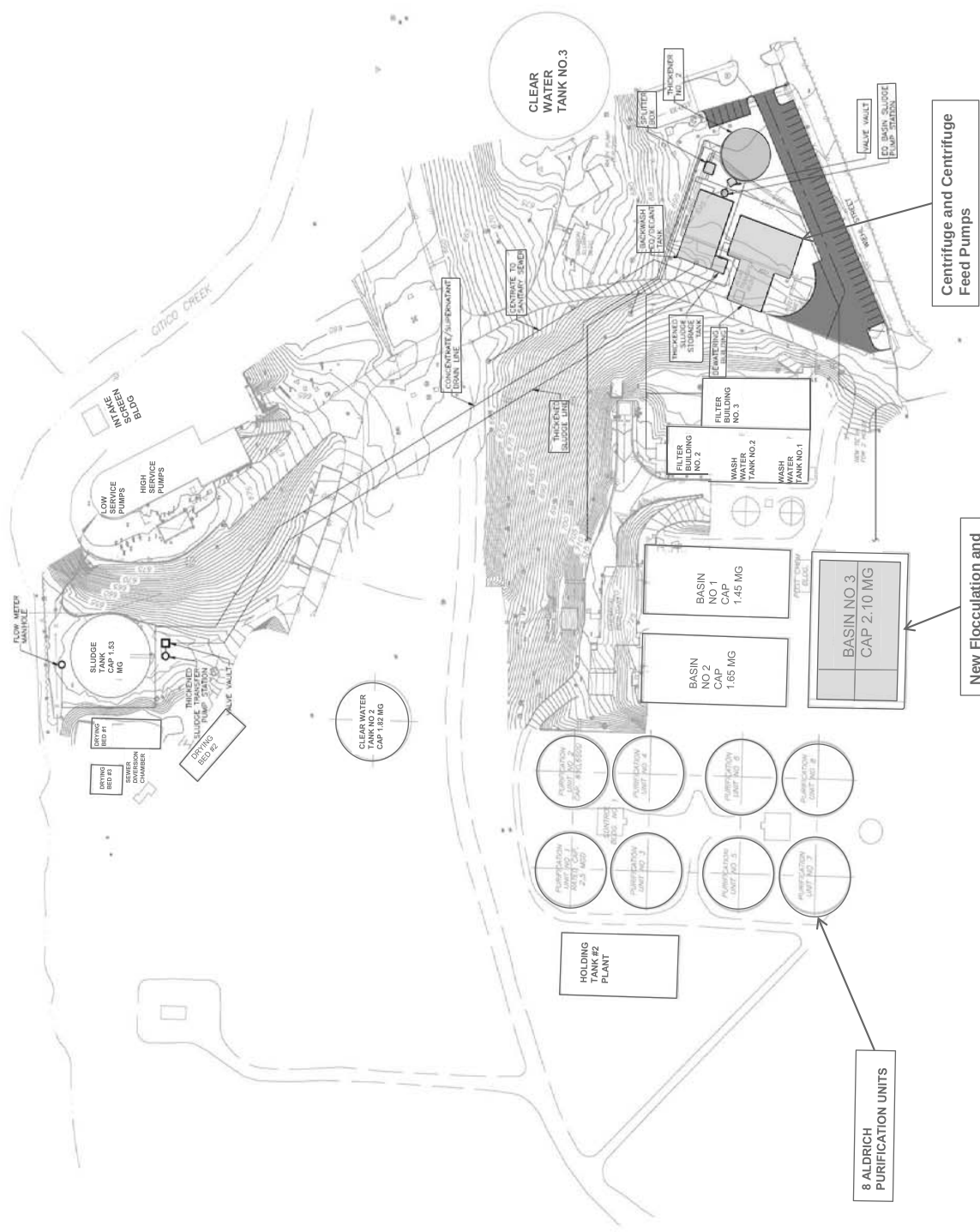
A Site Plan showing current infrastructure is shown on **Exhibit 5-1**.

5.2 PLANT DESCRIPTION

The two plants share a common raw water line and pretreatment before splitting the flow. Though the diversion percentage varies throughout the year, Plant 1 is used as the base load, with about one third of the flow going to Plant 2. Both plants are always on line. A process flow schematic is shown on **Exhibit 5-2** and a listing of the major process equipment is included in **Table 5-1**.

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EXHIBIT 5-1
Site Plan
Citico Water Treatment Plant



LEGEND
New Structure

Exhibit 5-2
Citico WTP Flow Process Schematic

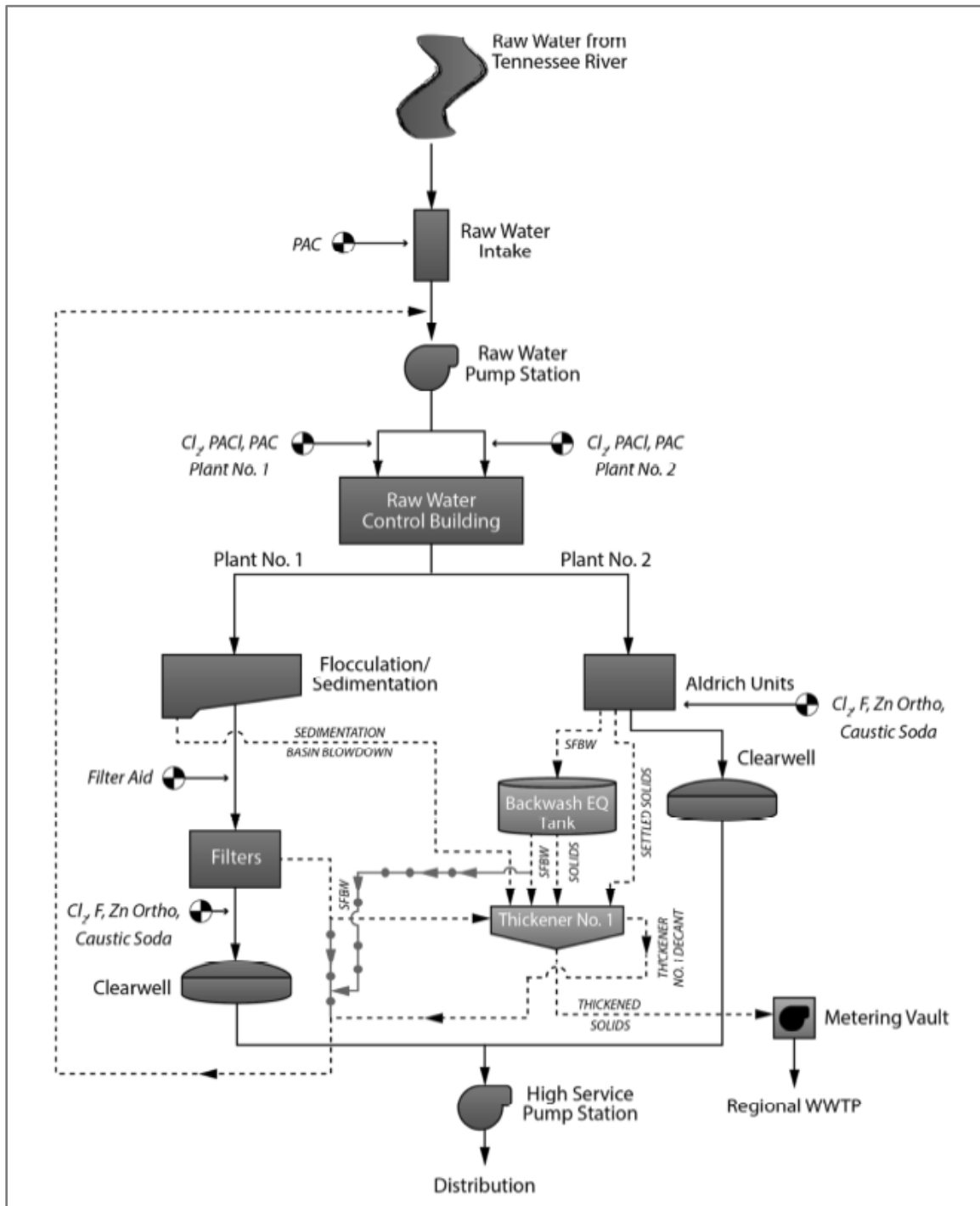


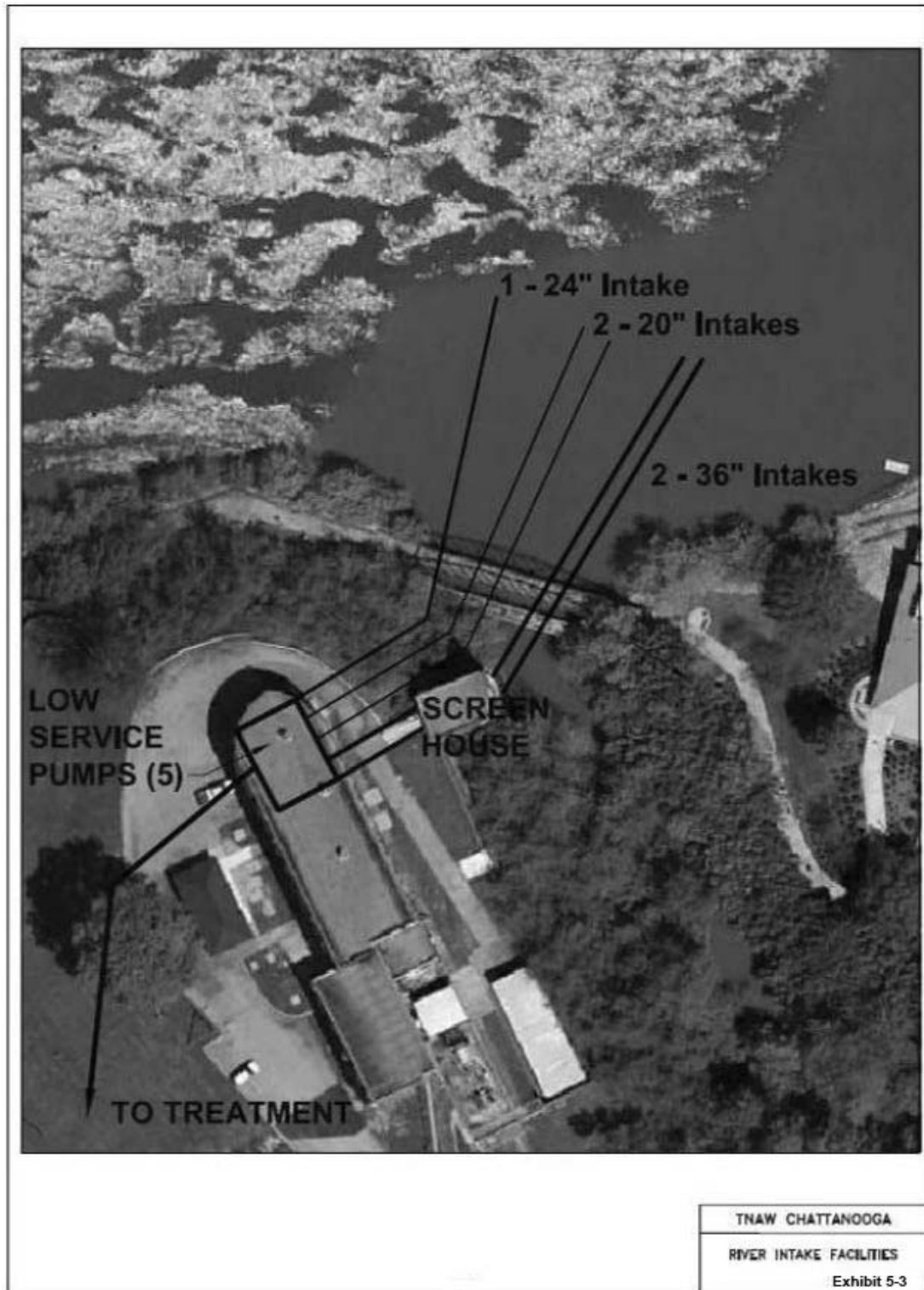
Table 5-1
Summary of Treatment Facilities at the Citico Station (not including 2015 Residuals Upgrades)

Process	Parameter	Units	Value			
Raw Water	Total pumping capacity	mgd	108.9 ⁽¹⁾			
	Reliable pumping capacity	mgd	84.0 ⁽¹⁾			
	Number of pumps		5			
Mixing	Type		static			
	Number of units		2			
Treatment Rate	Plant No.		Plant 1		Plant 2	
	Total filter capacity	mgd	40		25	
	Reliable filter capacity	mgd	38		21.875	
Flocculation	Basin		Basin 1	Basin 2	Basin 3	Hydrotreaters
	Number of Units		2	2	n/a	8
	Volume per unit	gals	290,000	320,000	-	90,000
	Flow rate (total)	mgd	15	15	-	25
	Detention time	mins	28	30	-	41
Clarification	Basin		Basin 1	Basin 2	Basin 3	Hydrotreaters
	Number of units		1	1	1	8
	Volume per unit	gals	1,200,000	1,200,000	2,200,000	600,000
	Flow rate (total)	mgd	15	15	10	25
	Basin loading rate	gpm/ft ²	0.98	0.94	0.34	0.49
	Weir loading rate	gpd/LF	9,228	9,014	n/a	12,280
	Detention time	mins	107	115	307	261
Filtration	Number of units		20			8
	Surface area per unit	ft ²	346			885
	Filtration rate	gpm/ft ²	4.0			2.45
	Empty bed contact time	mins	4.4-4.7			6.4
Washwater	Tank Number		Tank 1	Tank 3		Tank 2
	Storage volume	gals	220,000	290,000		300,000
Clearwater Storage	Clearwell Number		Clearwell 3			Clearwell 2
	Clearwell volume	gals	3,570,000			1,800,000
Distributive Pumps	Total pumping capacity	mgd	83.7 ⁽¹⁾			
	Reliable pumping capacity	mgd	63.2 ⁽¹⁾			
	Number of pumps		7			
Residuals	Wastewater tank volume	gals	564,000			
	Thickening tank volume	gals	530,000			

1. Sum of rated pump capacities. Actual combined output may vary with all pumps in simultaneous operation.

5.2.1 Raw Water Pumping and Pretreatment

Raw water is pumped from the Tennessee River through five intake lines, shown below on Exhibit 5-3.



Two 36-inch diameter intake lines deliver water through two traveling screens to a sump located in the Screen House. Two 36-inch diameter lines then deliver water to the raw water pump suction header. The traveling screens were installed in 1967 and 1973, and are equipped with a wash system. The screens are typically washed once per shift.

One 24-inch and two 20-inch diameter intake pipelines bypass the intake building, and are directly connected to the raw water pump suction header. These three lines are fitted with wire-wound screens. All five intake lines are connected to the header so that any intake line can be used with any pump for reliability. Under normal conditions, the three smaller lines are closed, and are used as a standby supply only.

The raw water pumps are located in a deep pit in the pump building and the isolation valves for the pump suction header are located in the screen house. An 8-inch diameter pipeline at the base of the raw water pump pit drains back to the river. The manually operated valve on this line is normally closed to prevent flooding during high river levels. **Table 5-2** lists the year and capacity of the raw water pumps.

Table 5-2
Raw Water Pumps

Pump No.	Year Installed		HP	Pump Design Points	
	Pump	Motor		Capacity (mgd)	TDH (ft)
12 ⁽¹⁾	1938	1996	500	19.0	118
14 ⁽²⁾	1950	1950	600	25.0	120
15	1950	1950	600	25.0	120
22	1961	1995	600	25.0	120
Total capacity				108.9	
Reliable capacity				84.0	

1. Pump equipped with VFD, motor rpm assumed from factory pump test data
2. Motor information assumed from Pump No. 15 data
3. TNAW also utilizes two 3 mgd wash water pumps rated at 60 hp.

The reliability of the raw water pumping station has been identified as a critical link in the operation of the treatment plant. The elevation of the operating floor in the raw water pump pit is 635.26 feet and normal water elevation in the Tennessee River is 629.28 feet, resulting in a suction lift for the pumps. The 100 year flood elevation is 657.4 feet. An alarm was installed to notify personnel of a flood in the pit area caused by a break of the suction or discharge header. Sump pumps are utilized to remove small amounts of water from the pit. In addition, a 3.0 mgd pump has been installed in the pit, which allows TNAW to pump larger volumes of water out of the pit in the event of a larger flood event. The pump is activated by a float switch. However,

this unit is not capable of handling the volume of water that could result from a major main break.

From the pump building, raw water is delivered to the raw water control building through three pipelines (24, 30 and 42-inches in diameter). These pipelines combine into one 60-inch diameter pipeline with a bypass for approximately 100 feet before entering the raw water control building. Flow is then split between the two independently operated treatment plants. The influent headers to Plants No. 1 and Plant No. 2 are 54-inch and 36-inch in diameter, respectively.

A summary of plant flows is shown on **Table 5-3**.

Table 5-3			
TNAW Chattanooga Treatment Plant Flows			
Year	Minimum (mgd)	Maximum (mgd)	Annual Average (mgd)
2013	30.98	51.50	37.18
2012	32.66	49.80	39.59
2011	30.70	51.23	40.50
2010	29.32	52.03	40.90
2009	30.97	42.51	39.97
5 year Average	30.50	49.4	39.61

5.3 TREATMENT PROCESSES

5.3.1 Chemical Addition

Flow rates and chemical addition are controlled individually for each plant. Motorized rate-of-flow controllers are located on the influent header to Plant No. 2 and on each of the three basin inlets in Plant No. 1 to adjust the distribution of flow in the two plants. The following chemicals are applied to the raw water stream for each plant in the raw water control building:

- Gaseous chlorine for pretreatment disinfection,
- Polyaluminum chloride (PACL) for coagulation,
- Powdered activated carbon (PAC) for taste and odor control and organics removal.

Jet mixers provide blending of treatment chemicals and raw water at each plant. Chemicals can be applied to each individual plant influent stream or in a combined stream prior to the flow split.

The raw water then flows to the two parallel treatment processes and treated with the following chemicals:

- Gaseous chlorine for post-treatment disinfection
- Hydrofluosilicic acid for dental protection
- Zinc orthophosphate for corrosion control
- Caustic soda for pH adjustment

Filter aid polymer can be fed to Plant 1 or to individual Aldrich units in Plant 2.

5.3.2 Chemical Feed and Storage Facilities

The chemical storage and feed facilities at the two treatment plants were modified in 1996 and 1998 to increase safety and improve the treatment process. Chemical feed and storage systems for Plants No. 1 and No. 2 were modified to meet the reliability and safety criteria of the American Water's Engineering Standards for Liquid and Gaseous Chemical Feed and Containment. Improvements included exterior venting and level alarms for all chemical tanks, and remotely actuated isolation valves for bulk storage tanks. Also included were improved secondary containment for bulk tanks, day tanks, metering pumps and bulk tank fill connections, and improvements to the chlorine scrubber system. Several liquid chemical transfer pumps were replaced to provide higher capacities, reduce leakage and eliminate the excessive maintenance requirements of the existing units. Sample pumps, sample lines and continuous pH measurement equipment were installed to properly monitor the finished water quality at the entry to the two clear wells. Given the projected declining demands since these improvements were made, the facilities are adequate for projected firm capacity.

The chlorine feed system includes two evaporators and nine chlorinators. Chlorine is stored in one ton containers in a room that is separate from the evaporators. Both the storage and evaporator rooms are equipped with chlorine leak detectors. A liquid caustic soda based chlorine scrubber system, originally installed in 1988, provides protection against a leak in either room.

Filter aid polymer is fed from a day tank to each plant with separate metering pumps. A Distributed Control System (DCS) allows for remote monitoring and operation of the chlorine, caustic soda, fluoride, corrosion inhibitor and coagulant feed systems.

TNAW has a high volume slurry system which allows for the efficient feed of powder activated carbon (PAC) during a spill event, or as needed for taste and odor control. The ability to quickly

mobilize and feed carbon provides TNAW with some flexibility in dealing with certain types of river contamination, and possibly even acting as an earlier barrier in the event of a river spill. A summary of the chemical dosing and storage equipment is presented in **Table 5-4**. Chemical feed data for 2013 is shown in **Table 5-5** for the past five years, and chemical use (in pounds) is shown for 2013 in **Table 5-6**.

Table 5-4 Summary of Chemical Feed and Storage Facilities							
Plant	Year	Chemical	Type/No.	Size	Point of Application	Bulk	Day
1	1989	Chlorine	2	2,000 ppd	Raw Water Bldg	12 - 1 ton containers	n/a
2	1989	(Pre)	2	1,000 ppd	Vault No. 6		
1	1989	Chlorine	2	2,000 ppd	Clearwell Inlet		
2	1989	(Post)	2	1,000 ppd			
1 or 2	1989	Standby	1	4,000 ppd	Raw Water Bldg		
	1989	Chlorine (Pre) ⁽¹⁾			Vault No. 6		
1	1989	Polyaluminum Chloride	2	236 gph	Raw Water Bldg	2 - 10,500	none
2	1989		2	2,500 gpd	Vault No. 6		
1	1970	Filter Aid	1		Sed Basin Outlet	1 - 1,000 gal	1 - 250 gal
2	1970	Polymer	1		Filter Influent		
1 & 2	1978	Powdered	3	760 gph	Screen House	2 - 40,000 gal	1 - 4,000 gal
	1978	Activated Carbon			Vault No. 6		
1	1989	Caustic	2	500 gpd	Clearwell Inlet	1 - 9,200 gal	1 - 800 gal
2	1989	Soda	2	264 gpd			
1	1989	Zinc Orthophosphate	2	10 gph	Clearwell Inlet	1 - 5,500 gal	1 - 305 gal
2	1989		2	5 gph			
1	1989	Hydrofluosilicic Acid	2	10 gph	Clearwell Inlet	1 - 10,000 gal	1 - 305 gal
2	1989		2	5 gph			

Table 5-5 Chemical Use by Rate										
		Flowrate	PACL	Pre-Chlorine	Filter Aid	Carbon	Post-Chlorine	Caustic	Fluoride	Corrosion Inhibitor
		*1000 gallons	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Jan	max	42087.99	29.95	2.62	0.06	0.00	2.15	3.26	4.07	3.95
	min	31415.27	7.33	0.88	0.01	0.00	1.79	0.00	2.52	2.09
	avg	36506.51	12.82	1.36	0.02	0.00	2.00	1.65	3.11	3.08
Feb	max	39698.68	17.50	1.77	0.04	0.00	2.23	0.00	4.10	3.92
	min	32733.75	7.94	1.08	0.02	0.00	1.87	0.00	2.51	2.58
	avg	36698.49	11.52	1.29	0.03	0.00	2.04	0.00	3.17	3.19
Mar	max	38148.78	32.36	2.70	0.05	0.00	2.14	0.13	4.24	4.31
	min	31614.21	7.73	1.12	0.02	0.00	1.82	0.00	2.33	2.45
	avg	36002.84	11.05	1.43	0.03	0.00	1.96	0.01	3.16	3.14
Apr	max	39615.45	30.94	3.80	0.06	0.00	2.34	7.23	4.78	4.66
	min	31815.18	7.20	1.29	0.01	0.00	1.71	0.00	2.29	2.46
	avg	36908.11	12.96	2.11	0.02	0.00	1.89	1.46	3.20	3.66
May	max	42511.25	25.76	3.14	0.03	1.37	2.26	6.63	4.57	4.51
	min	31768.49	7.53	1.58	0.00	0.00	1.65	3.22	1.91	3.45
	avg	38191.08	11.88	2.25	0.01	0.04	1.96	4.65	3.02	4.02
Jun	max	42010.85	10.68	2.55	0.00	0.00	2.33	6.41	4.00	4.65
	min	33043.33	7.28	1.85	0.00	0.00	1.93	0.75	2.06	3.09
	avg	38912.80	8.49	2.20	0.00	0.00	2.10	4.09	3.18	4.23
Jul	max	41731.73	22.69	3.36	0.03	0.00	2.70	11.34	4.11	5.63
	min	33149.90	7.40	1.94	0.00	0.00	1.86	4.60	1.83	1.95
	avg	38023.96	12.15	2.45	0.00	0.00	2.26	8.46	2.96	4.26
Aug	max	41630.23	16.49	4.07	0.02	11.49	2.72	9.41	3.58	5.13
	min	33366.10	7.50	1.95	0.00	0.00	1.92	5.97	2.43	2.84
	avg	37847.22	10.27	2.79	0.00	5.07	2.38	7.34	3.01	4.53
Sep	max	42458.47	10.18	2.70	0.00	0.00	2.63	9.61	3.64	4.72
	min	33185.43	7.61	1.70	0.00	0.00	2.20	6.00	2.39	3.17
	avg	38560.63	8.95	2.15	0.00	0.00	2.40	7.23	3.06	4.09
Oct	max	40187.91	11.78	2.21	0.01	0.00	2.91	7.39	4.38	5.56
	min	31793.86	6.55	1.16	0.00	0.00	1.75	1.54	2.48	2.68
	avg	37312.81	8.45	1.64	0.00	0.00	2.31	4.09	3.35	3.79
Nov	max	40969.46	20.94	2.05	0.01	0.00	2.80	2.33	4.54	5.04
	min	31344.22	7.20	0.99	0.00	0.00	1.86	0.00	2.06	2.19
	avg	36144.42	10.33	1.30	0.01	0.00	2.25	0.31	3.29	3.66
Dec	max	39158.70	25.68	2.20	0.03	0.00	2.46	3.02	4.54	4.32
	min	28948.82	9.02	1.03	0.02	0.00	2.06	0.00	2.18	2.65
	avg	35075.88	14.07	1.45	0.02	0.00	2.27	0.63	3.17	3.32

Table 5-6 Chemical Use in Pounds							
2013	CHLORINE lbs	FLUORIDE lbs	CAUSTIC lbs	CORR INH lbs	F. AID lbs	PACL lbs	CARBON lbs
Jan	31844	29465	15635	29051	206	121901	0
Feb	28565	27222	116	27430	263	98785	0
Mar	31577	29445	80	29268	267	103161	0
Apr	36652	29074	13266	33337	193	119241	0
May	41627	29648	45831	39700	79	116788	0
Jun	41904	31055	39697	41027	0	82726	0
Jul	46423	29249	83300	41835	16	119144	0
Aug	50681	29512	69593	44304	8	100516	0
Sep	43841	29593	69818	39516	0	86537	0
Oct	38123	32279	39674	36478	4	81473	0
Nov	32110	29892	2819	33019	51	93363	0
Dec	33699	28706	5540	30143	214	127482	0
Total	457046	355141	385370	425109	1300	1251117	0
Avg	38087	29595	32114	35426	108	104260	0

A chemical storage assessment is was conducted, based on average dose for maximum day flows and maximum dose for average day flows as shown on **Table 5-7**. Other factors involved with assessing chemical storage include the proximity of the chemical to the Citico facility and/or the frequency of delivery. The analysis indicates sufficient storage for anionic polymer, caustic soda, fluosilicic acid and zinc orthophosphate based on on-site storage. Discussions with TNAW personnel indicate that the frequency of delivery, response time and/or proximity of the chemical to the Citico plant compensates for the slight deficiency of on-site storage.

Table 5-7 Chemical Storage										
Chemical	Function	Form	Delivery	31 Day Ave Dose/Max Flow (lbs)	31 Day Max Dose/Avg Flow (lbs)	31 Day Ave Dose/Max Flow (gal)	31 Day Max Dose/Avg Flow (gal)	Storage Gals Provided	Storage Lbs Provided	Storage Sufficiency
PACl	Coagulant	Liquid	Bulk	128,340	284,580	11,774	26,108	21,000	-	Check
PAC	Adsorbent	Dry	Bulk	5,580	101,184	-	-	-	80,000	Check
Chlorine	Disinfectant	Gas	Ton Cylinder	47,430	61,132	-	-	-	24,000	Check
Anionic Polymer	Filter Aid	Dry	50 lb bags	140	527	-	-	-	2,000	OK
Caustic Soda (50%)	pH Adj	Liquid	Bulk	39,060	100,130	3,125	8,010	9,200	-	OK
Fluosilicic Acid (23%)	Source of F ion	Liquid	Bulk	36,270	42,160	3,556	4,133	10,000	-	OK
Zinc Orthophosphate	Corrosion Inhibitor	Liquid	Bulk	43,245	49,538	3,861	4,423	5,500	-	OK
Notes: Dosages are monthly values "Check" means storage does not meet both 31 day avg dose/max day and max dose/avg day criteria. Other criteria may apply, such as frequency of delivery and proximity of the chemical manufacturer.										

The following subsections describe the facilities in each of the two parallel treatment processes.

5.3.3 Plant No. 1 Treatment Criteria and Process Equipment Condition

Plant No. 1 provides 40 mgd of conventional treatment capacity utilizing coagulation, sedimentation and filtration. Flow is split between three sedimentation basins operating in parallel – Basins No. 1, 2 and 3. Flow control valves and venturi tubes are installed on each basin inlet, and enable the operator to monitor and adjust flow rates to each unit.

Plant 1 Flocculation/Sedimentation Basins - Elevated turbidities currently impact the settled water quality at Citico's Plant 1 during elevated turbidity periods. This is due to poor flocculation/sedimentation. For this reason, the flocculation equipment was upgraded and installed in Basins 1 and 2 in 2012 (Phase 1A), and is scheduled for Basin 3 installation in 2016. The weir configuration of Basins 1 and 2 is divided in to 20 settling zones. While this provides added benefit to weir loading rates (WLR), it short circuits the hydraulic residence time (HRT) and surface loading rate (SLR) due to their proximity to the flocculation basins. While WLR is an important parameter, SLR and HRT tend to govern effective sedimentation. For this reason, Basins 1 and 2 are overloaded. TNAW continues to meet demands but with poor water quality coming from the basins. Thus TNAW is struggling to meet water quality during maximum day demands under all conditions, and average day demands with elevated raw water turbidities. Basin 3 has no baffling.

Maximum applied water turbidities are worse from December to June, generally ranging from 6 to 11 NTU, while ranging from roughly 2 to 4 NTU during the summer and fall. Average turbidities range from 3 to 7 NTU during the winter months and from 1.5 to 2.0 NTU during the summer months. Preferred applied turbidities would be between 1 and 2 NTU. The elevated applied turbidities overload the filters and restrict flow-through capacity, though the plant has been able to meet demands. In addition to compromised water quality, the settled turbidities preclude TNAW from meeting EPA's Partnership Goals, which require settled water turbidities equal to, or less than, 1 NTU.

Sedimentation Basin Nos. 1, 2 and 3 were constructed in 1892 (123 years old), 1912 (103 years old), and 1925 (90 years old), respectively. Basins 1 and 2 consist of separate flocculation and sedimentation zones, whereas Basin 3 has no flocculation. A visit to the site revealed outer deterioration of the concrete, concrete joints and collection troughs. The troughs have holes in the bottom and cracks throughout Basins 1 and 2, allowing water to infiltrate the troughs below the weir structures – shown below.

Inoperable Weirs



Concrete testing was recently performed on the two basins. Basin 2 concrete testing indicates competent concrete, with good compressive strengths ranging from 2,900 to 4,970 psi. From a safety perspective, Basin 2 is not considered a risk for collapse as Basin 1 is, and is a candidate for upgrades to improve settling. The basin is aged, however, and any anchoring that is required to should take this in to consideration if the tank is retro-fitted. Of the nine core samples obtained from Basin 1 in 2010 (SM&E, 2010), seven of them simply fell apart and were soft enough to be pulverized by hand. The two samples that were able to be tested indicated compressive strengths of approximately 1,000 psi, whereas 28 day cure compressive strengths are typically specified to be equal to or greater than 4,000 psi. The exhibit below indicates a typical sample obtained from Basin 1. Basin 1 concrete testing results indicate that the basin is no longer structurally sound and is potentially unsafe.

Typical Basin 1 Core Sample



Basin No. 3 was constructed in 1925, and provides a capacity of 2.10 MG. Treatment in this basin consists of clarification only, since mechanical flocculation equipment is not provided. Settled solids are manually cleaned from this basin at a minimum of once per year. The basin does not have effluent weirs and launders and settled solids need to be removed manually.

Plant 1 Filters - Filter House No. 2 contains 20 mixed media filters which are being rebuilt in 2015. The filters have a capacity of 2.0 mgd each, and a combined surface area of 6,917 square feet. The loading on these filters is 4.0 gpm/ft². Filters No. 1 through 8 contain nine inches of gravel and 35 inches of filter media. Filters No 9 through 20 contain 12 inches of gravel and 41.5 inches of filter media. The media consists of garnet, sand, and 28 to 30 inches of GAC. An empty bed contact time of approximately 4½ minutes is achieved in the GAC portion of the filters at the design rate.

The filters in the conventional plant are backwashed from two wash water tanks with a combined capacity of 0.51 MG. The wash water tanks are refilled from the high service pumps. Two wash water pumps are available to refill the tanks; however they are no longer utilized. The filters are furnished with surface wash equipment. Filtration and backwash rates for Filter House No. 2 are controlled automatically. Filter valves, motor operators and flow controllers were replaced with new equipment in the 1990s.

5.3.4 Plant No. 2 Treatment Criteria

Plant No. 2 is rated at 25 mgd, and was constructed between 1952 and 1954 when additional treatment capacity was required to meet customer growth. Plant No. 2 consists of eight Purification Units, each providing flocculation, clarification and filtration within in a single treatment vessel. Based on demand needs in the early 1970's, the treatment plant capacity was expanded to 72 mgd by high-rating the filters in Filter House No. 2 to 4 gpm/ft². In the early 1990's, industrial usage had declined from previous levels, and updated forecasts indicated that customer demand was not projected to exceed 61mgd in the planning period through 2007, and no new retail sales were anticipated. The plant capacity was then reduced to 65 mgd.

Each Purification Unit is rated at 3.125 mgd and contains a flocculation chamber, a settling chamber and a perimeter filter. At the design flow rate, the overflow rate is 0.5 gpm/ft² and the filtration rate is 2.45 gpm/ft². At the design flow rate, approximately 4+ hours of settling time are provided, and 6½ minutes of empty bed contact time are achieved through the GAC portion of the filter media.

Each Purification Unit is 90 feet in diameter and contains three concentric sections. The flocculation chamber is 30 feet in diameter, the settling tank extends to 81 feet in diameter, and the filters extend to the outer perimeter at 90 feet in diameter. Each unit is 17 feet high. The settling and filtering surface areas are approximately 4,446 ft² and 885 ft² per unit, respectively. The filter media consists of 12 inches of gravel, 4 inches of sand and 25 inches of GAC.

These units do not contain surface wash, continuous solids removal equipment, filter-to-waste piping or mechanical flocculators. (PACI has proven to be an effective coagulant, eliminating the need for surface wash).

Settled solids are manually removed from these Purification Units once per year. Flocculation occurs within the piping downstream of the jet mixers and in the flocculation chamber. Water quality data on settled water indicates treatment performance is adequate in these units without mechanical flocculators.

5.3.5 Finished Water Delivery

Filtered water is disinfected with gaseous chlorine, and delivered by gravity to two steel, above ground clearwells (No. 2 & No. 3). The total finished water storage volume is 5.35 MG. Filtered water from Plant No. 1 flows by gravity to Clearwell No. 3, and filtered water from Plant No. 2 flows to Clearwell No. 2. Clearwell No. 2 was constructed in 1952, and has a diameter of 94 feet. This clearwell has a capacity of 1.80 MG, and is not baffled. Clearwell No. 3 was constructed in 1970, and has a diameter of 150 feet. This clearwell has a capacity of 3.55 MG, and is also not baffled. For reliability purposes, bypass piping is provided for each clearwell that allows either unit to be taken out of service for maintenance. When a clearwell is bypassed, water flows directly from the filters to the distributive pumps. Disinfection procedures are modified as necessary to ensure that adequate CT is maintained through the treatment process.

Finished water leaving the clearwells is combined and delivered to the system by the distributive pumps at the Citico Station. The distributive pumps are located in the same building as the raw water pumps. The total distributive pumping capacity is 83.7 mgd. With the largest unit out of service, the reliable rated pump capacity is 63.2 mgd. The operating range of the distributive pumping units is considered adequate to meet demands projected through the planning horizon of this study. Specifications for distributive pumps are presented in **Table 5-8**.

The clearwell storage capacity is adequate to provide equalization for the plant and sufficient disinfectant contact time in combination with pretreatment contact time. No additional clear water storage is recommended at this time.

Table 5-8 Distribution Pumps					
Pump No.	Year Installed		HP	Pump Design Points	
	Pump	Motor		Capacity (mgd)	TDH (ft)
11	1939	2015	900	20.5	210
16	1951	2014	600	13.0	231
17	1951	1951	600	13.0	231
18	1951	1951	400	8.6	231
19	1951	1951	400	8.6	231
20	1951	1980	250	5.6	231
21	1951	1953	700	14.4	240
Total capacity				83.7	
Reliable capacity				63.2	

5.3.6 Treatment Residuals Management

TNAW is currently rehabilitating and constructing additional infrastructure at their Citico facility. While the original intent was to upgrade raw water piping and floc/sed infrastructure (see Phase 1A and 1B, below), this effort was largely superseded with significant modifications to plant residuals infrastructure (due to regulatory limits on residual waste disposal to the City's wastewater facility). In summary, a portion of the original improvements to the raw water piping and floc/sed infrastructure has been completed, while improvements have been put on hold.

Phase 1A - Completed – Floc/sed equipment was replaced in Basins 1 and 2 (Plant 1), and jet mixers were installed in the Raw Water Control Building for Plants 1 and 2. Some electrical upgrades to the process equipment were implemented and a chemical unloading facility was constructed. Hydraulic improvements were also made the raw and finished water piping.

Phase 1B - Incomplete – Where improvements to Basins No. 1 and No. 2 were included as part of Phase 1A, the focus of Phase 1B will on Basin No. 3. Improvements include the installation of new flocculators, plate settlers and sludge removal equipment, along with some chemical feed improvements.

Residuals – Completed – The residuals improvements were completed in 2015. The residuals improvements were extensive, including new tanks, sludge conveyance and electrical improvements. The details of each of the phases are shown below on **Table 5-9**.

Table 5-9 Design/Construction Status as of February 2015	
Phase 1A	Bypassing the 60-inch raw water line with a section of 48-inch raw water line to Plant No. 1 and a section of 30-inch piping to Plant No. 2.
	Installing jet mixers (2) for rapid mixing in the existing Raw Water Control Building for Plant No. 1 and Plant No. 2.
	Replacing flocculators in Basins No. 1 and No. 2 in Plant No. 1.
	Constructing a chemical unloading facility (Zinc Orthophosphate, PACI, HFS, Caustic Soda) to provide secondary containment for delivery trucks during the unloading process.
	Installing a second 30-inch finished water line in Plant No. 2 from the clarifier / filter units to Clearwell 2 to eliminate hydraulic limitations between the filters and the clearwell.
	Upgrading electric service to the Chemical Building and Plant No. 1 facilities.
	Providing a standby electric generator for the Chemical Building and Plant No. 1 facilities.
	Installing electric facilities to support flocculation improvements to Plant No. 1.
Phase 1B	Constructing two flocculation and sedimentation treatment trains (Basins No. 3a and No. 3b) within the footprint of the existing Basin No. 3.
	Installing flocculators, plate settlers, and sludge collection equipment in Basin Nos. 3a and No. 3b.
	Adding chlorination facilities to allow delayed application of chlorine to the Plant No. 1 sedimentation basins.
	Adding chlorine application feed points at the flocculation chambers for Basin Nos. 1 and 2.
	Replacing the temporary filter aid feed system with a permanent system.
Residuals	Modifying existing Thickener No. 1 to improve settling and solids retention performance.
	Installing a Thickened Sludge Transfer Pump Station to draw thickened sludge from Thickener No. 1 and deliver to a new Thickened Sludge Holding Tank.
	Installing a Thickened Sludge Holding Tank to receive sludge from Thickener No. 1, allowing more flexibility with the sizing for the sludge transfer line and reducing potential sludge pumping complications
	Adding a second thickener (referred to as Thickener No. 2), operating in parallel with Thickener No. 1, to provide a measure of redundancy and allow for peak day storage of solids.
	Constructing a flow splitter box to split sedimentation basin blowdown from Plant No. 1 between the two thickeners
	Adding a Plant No. 1 Filter Backwash EQ/ Decant Tank to allow equalization of SFBW prior to recycling to the raw water intake.
	Adding a decant assembly to the existing Plant No. 2 Backwash EQ Tank and piping the supernatant to the recycle manhole.
	Conveying sedimentation basin sludge from Basin Nos. 1 and 2, and the modified Basin Nos. 3A and 3B, to the flow splitter box.
	Constructing a Dewatering Building and system that will include centrifuge feed pumps, two centrifuges, a polymer storage and feed system, and a dewatered sludge conveyance and truck loading area.
	Adding flow metering of recycled flows from the two thickeners, Plant No. 1 Filter Backwash EQ/ Decant Tank, and Plant No. 2 Backwash EQ Tank to the raw water intake.
	Completing associated site work, electrical improvements, and instrumentation and control modifications to support the new equipment and systems.

5.4 TREATMENT PROCESS MONITORING AND CONTROL

The treatment plant has two operator stations. The first is located at the Citico Station, and controls the raw water and distributive pump facilities, as well as the numerous distribution system booster pumps and tanks. Controls for chemical treatment and operation of the filters

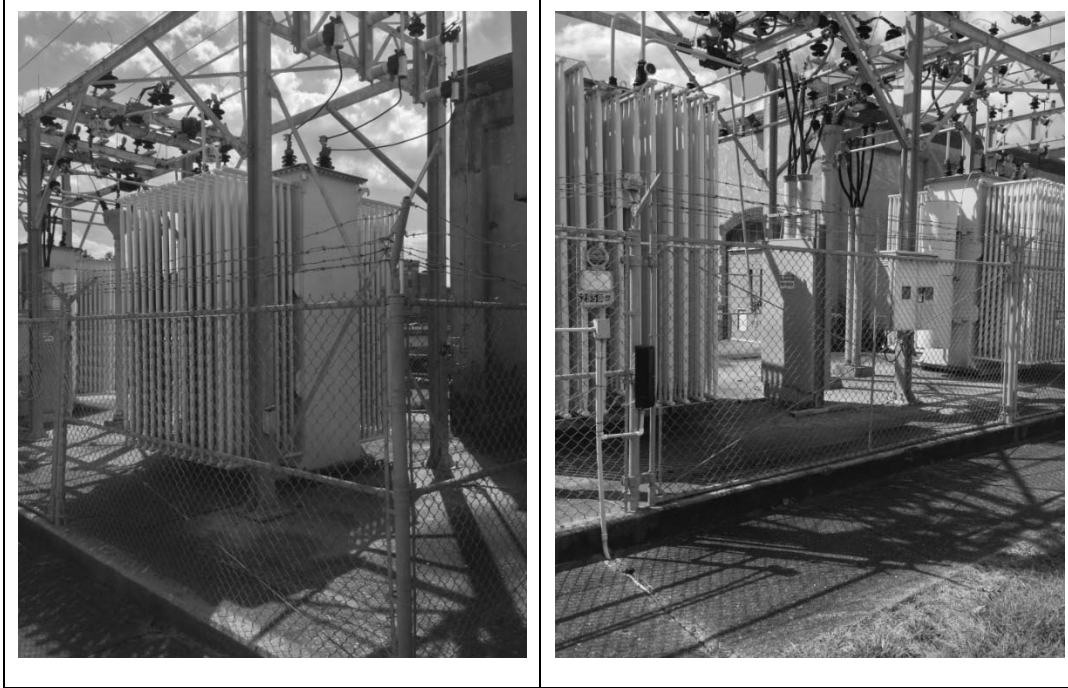
are located at the second operator's station in the chemical building. Each station is manned by an operator.

The existing control systems were replaced in 1999, and consolidated into a single PC-based Distributed Control System (DCS). New instrumentation and controls have been installed to provide improved operation of the plant. Plant telemetry is performed by RTUs hardwired to the DCS. Distribution system telemetry is also performed by RTUs, and is transmitted via radio to the DCS. The updated control systems also provide additional benefits such as the ability to flow pace chemical feed rates, monitor chemical usage, and monitor and control distribution system pumps and storage tanks. The ability to acquire and store data enables TNAW to optimize chemical usage and power consumption.

5.5 ELECTRICAL SERVICE

The plant is serviced by two independent Electric Power Board of Chattanooga (EPB) Utility lines (12.47 KV) to the two utility company provided (2) 5 MVA substation transformers which step the voltage down to the 2,400 VAC, three-phase power distributed in the plant. The substation transformers are owned and maintained by the power company. Based on discussions with the utility, the units are original construction provided when the plant was constructed, approximately 50 years ago, and no issues have been reported. Based on industry standards associated with this type of equipment, the units are considered at (or past) their "end of life" although they appear to be in reasonable physical condition with no signs of corrosion or other physical damage observed. Photos of the transformers are shown below in **Exhibit 5-4**.

Exhibit 5-4
On Site Electric Power Board (“EPB”) Transformers



American Water Business Services Engineering (“AWBSE”) visited the site on August 6, 2015 and met with David Stocks of the Electric Power Board (“EPB”). A summary of the site visit and review of the electric facilities is included as **Appendix D**. During AWBSE’s site investigation, American Water Maintenance Services (“AWMS”) conducted a limited infrared (“IR”) scan of the utility’s substation equipment to determine if any issues may exist with the terminations, bus work or other exposed electrical devices. Based on this cursory external review, nothing abnormal was found. AWMS also reported that they have not found abnormal observations over the past three years of their site investigations. This may be in part due to the light loading conditions associated with these transformers (present demand is only about 30% of the transformers base rating). One concern, however, is the close proximity of these transformers to each other and to the building. In the event of a catastrophic failure of one unit, significant damage to the transformers and water company structures would be incurred.

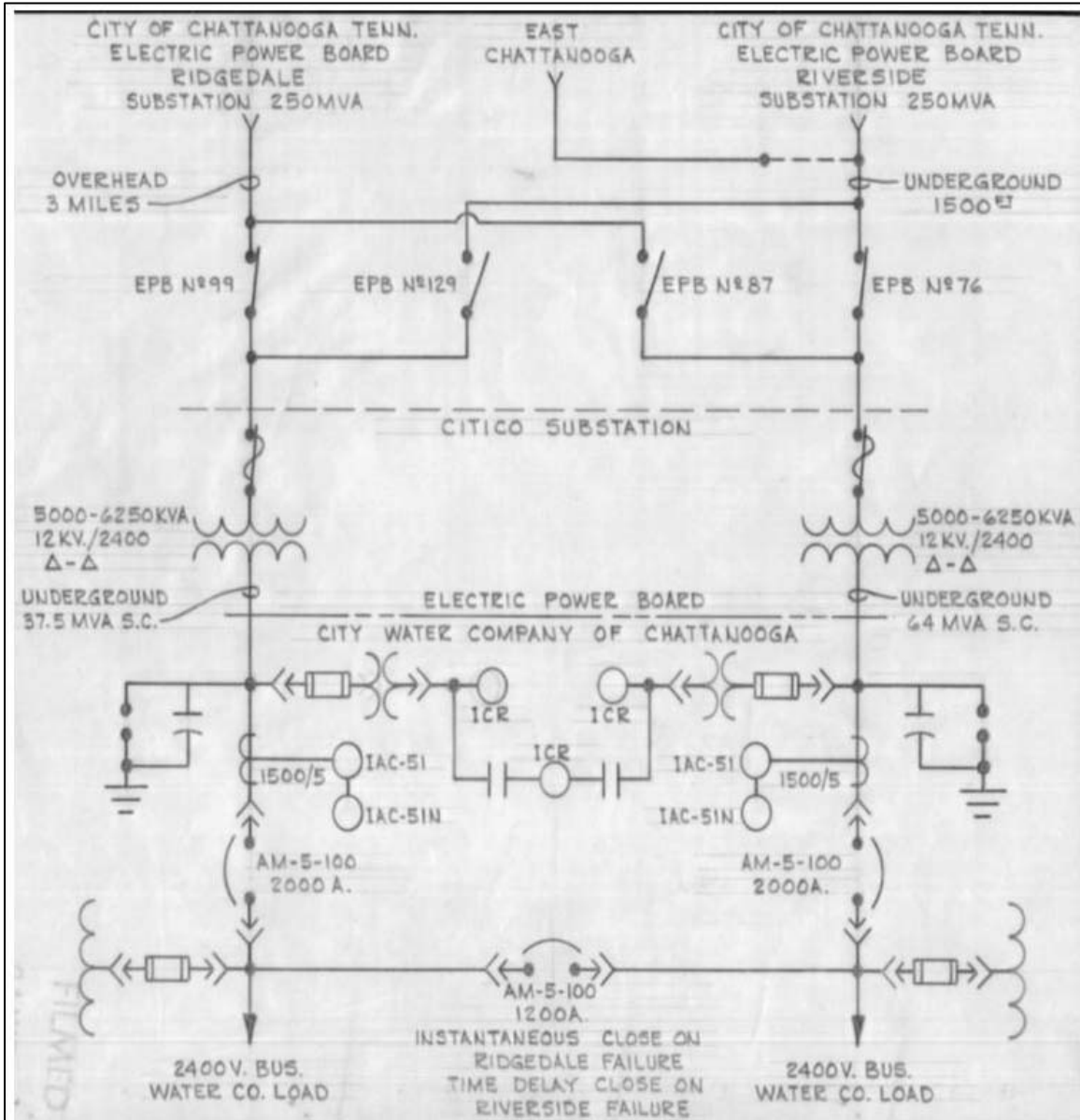
Discussion with EPB indicated that no actual electrical or oil testing was known to have been performed and that no actual schedule or information for any of these tests was available from the power company outlining possible conditional-based maintenance or other testing conducted for inclusion in this report. The Utility reported they do not have a formalized Preventative Maintenance (PM) Program for routine testing of these units and most likely no

actual oil testing has been conducted (this was not verified). The utility indicated that if any of their existing 12.47 KV or 2400 VAC equipment requires service, modifications and/or replacement due to damage or failure, this would be part of their maintenance cost.

Service Voltage - The EPB Utility Transformers provide the dual electrical service to the facility. Each unit is 5 MVA as is served from the Utility's 12.47 KV "Riverside" and "Ridgedale" power grid circuits. Present demand loading on each service is only about 1.5 MVA, indicating that these units are oversized for the facility and more than capable of handling the total load on one unit in the event of an equipment failure (via the "Tie" breaker in TNAW's 2.4 KV MV switchgear lineup). As configured, the two feeds providing power to the facility's main switchgear from these transformers are arranged in the center of the units to transition into the underground feeders terminating in the plant's medium voltage ("MV") switchgear.

On Site Power Distribution - From the utility substation, each of the two 2.4 KV services terminates in General Electric ("GE") switchgear / motor controls located in the High Service Pump Station. This equipment is arranged to provide Main-Tie-Main power for the facility, allowing limited operation intent in the event of a single utility outage. A one-line diagram of the current switchgear / motor controller arrangement is shown below in **Exhibit 5-5**.

Exhibit 5-5
Current One Line Schematic



The 2.4 KV switchgear assembly, while aged, has been maintained by the plant staff and is in good condition. However, obsolescence and availability of parts does offer a known risk, which is currently being experienced by the Water Company. This risk will become more prevalent as time continues making the equipment vulnerable for increased time to repair should parts not be found in timely manner. A physical (internal) inspection was not performed during AWBSE's site visit. The medium voltage switchgear is shown below in **Exhibit 5-6**.

Exhibit 5-6
Medium Voltage Switchgear



Medium Voltage Sub Distribution Power and Motor Controllers - The balance of this switchgear assembly provides power distribution for the motor loads and station facility power as follows:

Right-hand Side of the "Ridgedale Main" Lineup - This portion of the switchboard assembly provides service / feeders to the following;

- High Service Pump #20 (250 HP)
- High Service Pump #16 (600 HP)
- High Service Pump #21 (600 HP)
- Low Service Pump #22 (600HP)
- Low Service Pump #12 (500 HP) via the GE Limitamp fusible lineup at the left-hand side of this existing switchgear
- Station Power via 2300 – 480/277 VAC Transformer (150 KVA) - This same fuse / switch also now serves the Thickened Sludge Transfer PS via the 112.5 KVA transformer located at the new dewatering facility.

Between the Riverside "Main" and the Tie -

- High Service Pump #11 (900 HP) (Note - this is identified as Pump #20).

Left-hand Side of the “Riverside Main” Lineup - This portion of the switchboard assembly provides service / feeders to the following;

- High Service Pump #17 (600HP)
- High Service Pump #18 (400 HP)
- High Service Pump #19 (400 HP)
- Low Service Pump #14 (600 HP)
- Low Service Pump #15 (600 HP)

Individual Fused Tap on the Back of the Switchgear -

- Low Service Pump #20 ** (400 HP) (Note - This is identified as Pump #13 on one line and requires clarification).

Emergency Power – The Citico WTP has two generators on site:

- North of Filter House 2 – A 300 KW generator (1,000 gallon diesel fueled) operates all of the process equipment in both Filter Plants, including the Aldrich units and the conventional filters),
- A small generator (120/240V, 25A) in the foyer of the pump station that operates emergency lighting.

There is some added reliability of power supply due to the redundancy of the dual electric feeds coming in the facility, though there is still the possibility that both of these might go down. If such an event were to occur, the plant would lose the ability to pump raw and finished water, resulting in a plant shut down. Given limited storage, the service area would experience widespread outages within several hours. A backup generator would provide the capability to maintain uninterrupted power to the raw and finished water pumps in the event of a major power outage.

5.5.1 Electrical Service Summary

In summary, the AWW-owned electrical equipment is past its industry standard rated life. From a safety perspective, one of the basic functions of switchgear is protection, which includes interruption of short-circuit and overload fault currents while maintaining service to unaffected circuits. Some of this equipment associated with the medium voltage gear has no record of testing, and, in some cases, no record of installation history. This poses a potential safety risk to operators. Also, while routine maintenance and service is provided on the medium voltage motor controllers and switchgear, the availability of parts will become more difficult in the future.

The existing main-tie-main switchgear circuit breakers are no longer manufactured making this critical equipment even more vulnerable in the event of a failure. Failures of these main devices would have significant impact to facility operations and the ability of the plant to maintain full capability. Similar concerns are noted for the medium voltage motor controllers although there is some redundancy in the number of pumps which may allow facility services to continue while replacement parts are attempted to be located.

The utility-owned high voltage transformers have no reported testing history by the Utility Company. Though AW has conducted high level infrared screening of the transformers, the ultimate integrity and reliability of the units is incumbent upon the utility that owns the transformers – the Electric Power Board (“EPB”). It is the best interest of AW to reach out to the EPB with the intent of developing a testing and maintenance program for the transformers. Should the Water Company decide on replacing the main substation equipment (transformers and related medium voltage devices), there are several options available; one is to provide the new substation and turn it over to EPB, the other is to provide the new substation and maintain this as Owner-Owned. Regardless of the selected option, the Water Company is responsible for all of the equipment and installation costs.

5.6 WATER QUALITY

The TNAW Citico facility meets all current federal and state water quality standards. A summary of select water quality data for 2014 is shown in below in **Table 5-10**. The table includes maximum, minimum and average values for most raw water parameters, applied turbidity and effluent turbidity.

Table 5-10 Water Quality													
2014		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
pH	min	7.6	7.5	7.6	7.3	7.4	7.3	7.3	7.3	7.4	7.5	7.5	7.5
	max	7.8	7.8	7.8	7.6	7.5	7.4	7.5	7.5	7.6	7.7	7.7	7.8
	avg	7.7	7.6	7.7	7.5	7.2	7.3	7.4	7.4	7.5	7.6	7.7	7.7
Alkalinity	min	56	46.0	62	54.0	68.1	63.0	59.0	58.0	58.0	62.5	64.0	63.0
	max	65	71.0	84	78.0	73.0	68.0	66.0	65.0	72.0	75.0	78.0	76.0
	avg	61	62.3	71	70.3	57.0	65.9	61.5	61.0	66.3	69.9	71.3	71.8
Hardne ss	min	60	54.0	70	52.0	72.1	58.0	60.0	66.0	66.0	66.0	66.0	68.0
	max	74	80.0	88	86.0	82.0	72.0	70.0	73.0	81.0	80.0	80.0	84.0

	avg	68	70.9	79	74.9	60.0	64.1	64.1	68.6	74.5	72.8	70.3	75.1
EI	min	0.06	0.1	0.05	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	max	0.09	0.1	0.09	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	avg	0.08	0.1	0.07	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Fe	min	0.12	0.1	0.09	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	max	0.39	0.6	0.22	0.7	0.1	0.1	0.1	0.3	0.5	0.2	0.2	0.3
	avg	0.24	0.3	0.13	0.3	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1
Mn	min	0.05	0.0	0.04	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0
	max	0.11	0.1	0.08	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	avg	0.07	0.1	0.06	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0
Coliform	min	7	75	143	137	472	517	231	1259	120	276	158	75
	max	9222	86645	5794	460400	48392	12098	8664	12760	7701	48392	4839	2420
	avg	1405	6551	685	27647	3701	2649	2376	2628	1852	3158	1139	522
	Eff	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Raw Turbidity	min	6.4	6.7	3.6	3.6	5.2	4.5	4.1	3.5	3	3.7	2.2	2
	max	31.5	66.5	15.2	46.6	30.2	14.1	14.7	10.7	15.4	20.5	7.8	48.3
	avg	11.5	18.3	7.2	9.7	8.5	7.5	6.6	7.2	6.2	6.1	4.2	7.2
Applied Turbidity (2 house)	Min	3.0	3.6	1.5	1.6	1.2	1.1	0.9	0.7	0.8	0.8	1.0	1.1
	max	5.5	12.2	3.9	5.1	5.2	1.6	2.2	1.4	1.4	2.3	2.3	2.9
	avg	3.9	5.9	2.7	2.4	2.0	1.4	1.3	1.0	1.0	1.2	1.5	1.7
Applied Turbidity (2 plant)	min	1.1	1.2	0.7	0.7	0.7	0.6	0.5	0.5	0.4	0.4	0.4	0.4
	max	3.2	3.9	2.2	2.3	1.4	1.9	1.0	0.8	1.1	1.1	1.1	1.7
	avg	1.9	2.1	1.4	1.2	1.0	0.8	0.7	0.6	0.6	0.7	0.7	0.8
Effluent Turbidity	min	0.04	0.05	0.04	0.04	0.04	0.06	0.03	0.03	0.03	0.03	0.03	0.03
	max	0.18	0.09	0.26	0.38	0.1	0.07	0.09	0.16	0.06	0.08	0.05	0.06
	avg	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.04	0.04	0.04	0.04	0.04

5.6.1 Disinfection By-Products

Raw water that has the presence of TOC and is treated with chlorine creates Trihalomethanes (TTHM) and Haloacetic acids (HAA), also known as Disinfection By-Products (DBPs). As

5.6.1 Disinfection By-Products

Raw water that has the presence of TOC and is treated with chlorine creates Trihalomethanes (TTHM) and Haloacetic acids (HAA), also known as Disinfection By-Products (DBPs). As discussed in **Appendix A**, the Stage 2 D/DBPR states that systems must comply with meeting TTHM and HAA maximum contaminated levels (MCL) of 80 µg/L and 60 µg/L, respectively. Under the Stage 1 D/DBPR, the running annual average (RAA) for the system, as a whole, shall not exceed the MCL for TTHM and HAA. With the new Stage 2 D/DBP, rule the locational running annual average (LRAA) must not exceed the MCL for each sampling site in the distribution system. The Stage 2 D/DBPR went into effect in October of 2012 and requires DBP monitoring at eight sites within the distribution system. **Tables 5-11** and **Table 5-12** show the LRAA for the TTHM and HAA at each of the sites. As shown, the LRAA for TTHM was slightly elevated the start of the Stage 2 sampling at some locations in the system. Since that time, the LRAA has decreased to around 80% of the MCL. TNAW should continue to monitor the DBPs to ensure the MCL is not exceeded.

Table 5-11
TNAW TTHM LRAA

Location	2012 Q2	2012 Q3	2012 Q4	2013 Q1	2013 Q2	2013 Q3	2013 Q3	2013 Q4	2014 Q1	2014 Q2	2014 Q3	2014 Q4	2012 Q2
6760 Hickory Creek Rd	0.0471	0.0484	0.0441	0.0426	0.0477	0.0497	0.0497	0.0495	0.0465	0.0403	0.0351	0.0389	0.0393
941 Spring Creek Rd	0.0533	0.0520	0.0504	0.0473	0.0534	0.0547	0.0547	0.0523	0.0481	0.0418	0.0398	0.0438	0.0461
610 Pinbrow Trail	0.0595	0.0590	0.0576	0.0546	0.0588	0.0647	0.0647	0.0639	0.0619	0.0556	0.0513	0.0562	0.0557
1009 W. 39th St	0.0518	0.0496	0.0473	0.0446	0.0502	0.0585	0.0585	0.0573	0.0533	0.0466	0.0394	0.0437	0.0464
72 Diane Lane	0.0635	0.0635	0.0620	0.0588	0.0634	0.0663	0.0663	0.0623	0.0573	0.0504	0.0478	0.0540	0.0561
4700 Cummings Cove Rd	0.0669	0.0693	0.0638	0.0574	0.0607	0.0628	0.0628	0.0611	0.0577	0.0509	0.0491	0.0535	0.0560
725 Creek Dr	0.0594	0.0648	0.0615	0.0561	0.0603	0.0598	0.0598	0.0582	0.0556	0.0483	0.0446	0.0490	0.0501
1200 Cumberland Dr	0.0749	0.0894	0.0815	0.0743	0.0765	0.0753	0.0753	0.0726	0.0662	0.0599	0.0575	0.0624	0.0678
Maximum	0.0749	0.0894	0.0815	0.0743	0.0765	0.0753	0.0753	0.0726	0.0662	0.0599	0.0575	0.0624	0.0678

Note: MCL for TTHM is 0.080 mg/L

Table 5-12
TNAW HAA LRAA

Location	2012 Q2	2012 Q3	2012 Q4	2013 Q1	2013 Q2	2013 Q3	2013 Q3	2013 Q4	2014 Q1	2014 Q2	2014 Q3	2014 Q4	2012 Q2
6760 Hickory Creek Rd	0.0162	0.0171	0.0151	0.0154	0.0178	0.0168	0.0168	0.0186	0.0193	0.0173	0.0177	0.0157	0.0148
941 Spring Creek Rd	0.0159	0.0151	0.0137	0.0151	0.0189	0.0193	0.0193	0.0215	0.0216	0.0188	0.0188	0.0171	0.0164
610 Pinbrow Trail	0.0234	0.0237	0.0219	0.0231	0.0274	0.0281	0.0281	0.0307	0.0317	0.0283	0.0275	0.0264	0.0247
1009 W. 39th St	0.0146	0.0129	0.0124	0.0135	0.0181	0.0235	0.0235	0.0258	0.0265	0.0229	0.0186	0.0166	0.0162
72 Diane Lane	0.0192	0.0192	0.0188	0.0213	0.0275	0.0284	0.0284	0.0309	0.0337	0.0290	0.0287	0.0274	0.0238
4700 Cummings Cove Rd	0.0234	0.0222	0.0213	0.0213	0.0262	0.0277	0.0277	0.0291	0.0303	0.0264	0.0260	0.0256	0.0238
725 Creek Dr	0.0193	0.0195	0.0176	0.0187	0.0262	0.0266	0.0266	0.0289	0.0301	0.0229	0.0226	0.0220	0.0209
1200 Cumberland Dr	0.0258	0.0292	0.0263	0.0279	0.0240	0.0240	0.0240	0.0272	0.0258	0.0294	0.0292	0.0269	0.0296
Maximum	0.0258	0.0292	0.0263	0.0279	0.0275	0.0284	0.0284	0.0309	0.0337	0.0294	0.0292	0.0274	0.0296

Note: MCL for HAAM is 0.060 mg/L

SECTION 6

DISTRIBUTION & STORAGE

6.1 OVERVIEW

This section presents the results of the analysis of the TNAW Chattanooga distribution system facilities and includes recommendations to address system deficiencies. The recommendations do not address all of the improvements that may occur during the planning horizon, such as small diameter main replacements and general maintenance needs which are part of an on-going program. Rather, they focus on larger, non-routine capital improvements.

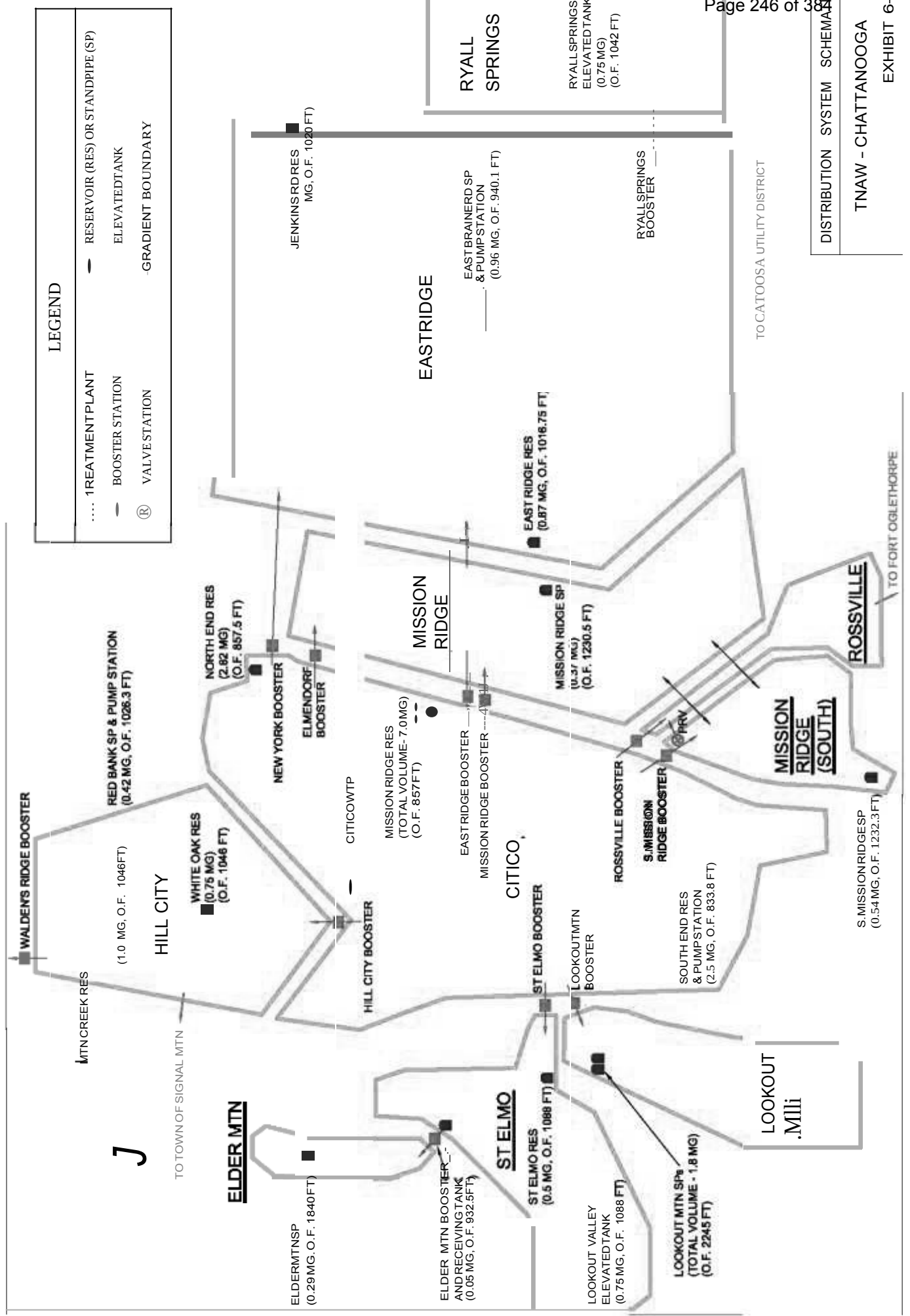
The ability of these facilities to provide safe, adequate and reliable service to the approximately 76,000 customers in the Chattanooga service area was analyzed based on forecasted customer demands and fire protection goals. The system analyses were based on a review of historic operating data, demand patterns and projections, an updated hydraulic model and information from TNAW staff.

A schematic representation of the Chattanooga distribution system is shown in **Exhibit 6-1** on the following page. **Exhibit 1-1**, at the end of the Recommendation Section, illustrates the location of the water treatment plant (WTP), booster stations, storage tanks, pipelines and proposed improvement projects. These projects are listed in Section 6.5 and discussed in detail in Section 1 of the CPS.

This section is divided into several subsections, including a brief discussion on hydraulic modeling, a summary of the existing facilities, an evaluation of the adequacy of the distribution system facilities, and an overview of the recommended improvements.

6.2 HYDRAULIC MODELING

The water distribution system model was updated and calibrated as part of the TNAW CPS, to reflect the current physical topology and operational controls of the system. Billed customer usage data was geocoded and applied to the model demand nodes to generate geographically and quantitatively accurate demands for modeling purposes. Growth projections developed in Section 3 were used as a basis to allocate the future system demands to the model for the 2020 and 2030 target years. Diurnal demand patterns, including peak hour factors, were developed based on recorded system operating data.



The model was calibrated for the peak hour and minimum hour of the maximum day demand conditions, as well as for the 24-hour extended period simulation of the maximum day. The model was also calibrated based on the results of numerous hydrant flow tests.

Hydraulic simulations were conducted to identify potential areas of compromised hydraulics, and areas of concern were identified and prioritized. Successive model runs were conducted to test various combinations of distribution system improvements and their success in providing the desired results, leading to recommendations to improve the system.

6.3 EXISTING FACILITIES

The Chattanooga distribution system is supplied by the Citico WTP, with a majority of the customers located within Hamilton County. It also extends into Marion County in Tennessee, and Catoosa, Walker and Dade counties in Georgia. Resale water delivery is provided to the Town of Signal Mountain in Tennessee, and the City of Fort Oglethorpe and the Catoosa Utility District (UD) in Georgia.

The pipe network consists of over 1,340 miles of mains with diameters up to 54 inches. Overall, distribution mains 4-inch or less in diameter comprise approximately 18 percent of the total distribution network; 6-inch mains comprise approximately 26 percent; 8-inch mains comprise nearly 38 percent; 10-inch to 16-inch mains comprise approximately 15 percent; and 20-inch and larger mains comprise nearly three percent of the total network.

The Chattanooga system operates as nine major pressure gradients, when considering the Mission Ridge and South Mission Ridge gradients as one gradient. In addition, 14 smaller pressure gradients serve localized high elevation areas. Customer elevations across the system range from 640 feet to 2,365 feet above mean sea level (msl). The Citico WTP delivers water into the Citico gradient, which is centrally located within the service area, and from there it is pumped to outlying gradients located at higher elevations. A summary of the facilities in each gradient is shown in **Table 6-1**. The pump characteristics at each station are listed in **Table 6-2**, **Table 6-3** and **Table 6-4**.

A total of 18 storage facilities are located throughout the Chattanooga distribution system, with the Mission Ridge triple reservoirs and the two Lookout Mountain standpipes each counted as one facility. The characteristics of the storage tanks are listed in **Table 6-5**. Photo pages of select distribution system facilities are provided in **Exhibits 6-2 to 6-11** at the end of this Section. A brief discussion of each major gradient follows.

Table 6-1
Pressure Gradient Facility Summary

Gradient	Average Demand (mgd)	Station(s) Which Supply Gradient	Storage Facilities In Gradient ¹	Major Booster Station(s) From Gradient	Localized Booster Station(s) From Gradient
Citico	16.4	Citico WTP	Mission Ridge Triple Res North End Res South End Res	Hill City Elmendorf Mission Ridge New York Ave East Ridge Rossville South Mission Ridge Lookout Mountain St Elmo	Windridge
Hill City ²	5.2	Hill City	White Oak Res Red Bank SP Mountain Creek Res	Walden's Ridge	Berkley Circle Crestview Crestwood Hill Pointe Johnson Boulevard Minnekahada Stuart Heights Summit Ave
Mission Ridge & South Mission Ridge ³	1.9	Elmendorf Mission Ridge South Mission Ridge	Mission Ridge SP South Mission Ridge SP	None	None
East Ridge	9.2	New York Ave East Ridge	East Ridge Res East Brainerd SP Jenkins Rd Res	Ryall Springs	Panorama Heights
Ryall Springs	0.4	Ryall Springs	Ryall Springs Elev	None	Windy Hill
Rossville	1.2	Rossville	None	None	None
Lookout Mountain	0.8	Lookout Mountain	Lookout Mountain SP	None	None
St Elmo	1.1	St Elmo	St Elmo Res Lookout Valley Elev Elder Mountain Res	Elder Mountain	Maple Hill Rolling Acres
Elder Mountain	0.06	Elder Mountain	Elder Mountain SP	None	Cumberland Rd

1. Res - Reservoir; SP - Standpipe; Elev - Elevated Tank

2. The demand in the Hill City gradient includes the demand pumped through the Walden's Ridge booster to the Walden's Ridge UD and on to Lone Oak and Suck Creek. However, the Walden's Ridge booster station and the area served from the station will no longer be a part of the TNAW Chattanooga system after June, 2014 due to Walden's Ridge UD terminating as a resale customer.

3. The Mission Ridge and South Mission Ridge pressure gradients are combined as one gradient in the analysis because there is not complete closure of the gradient boundary and flow can be delivered across the gradients.

Table 6-2
Pump Data – Major Gradients

Gradient	Station	Pump No.	Rated Motor HP	Rated Flow (mgd)	Rated TDH (ft)
Citico	Citico WTP	11	900	20.51	210
		16	600	12.96	231
		17	600	12.96	231
		18	400	8.64	231
		19	400	8.64	231
		20	250	5.60	231
		21	700	14.40	240
Hill City	Hill City	3	75	0.94	240
		6	125	2.30	242
		7	150	2.77	250
		8	300	4.32	250
Mission Ridge	Elmendorf	8	60	0.58	425
		9	60	0.58	425
	Mission Ridge	3	60	0.58	410
		4	100	1.01	435
		6	100	2.02	425
	South Mission Ridge	7	125	1.15	460
		10	150	1.44	450
		11	150	1.44	450
East Ridge	New York	1	200	4.03	235
		2	200	4.03	235
		3 ¹	350	6.05	235
	East Ridge	5	125	3.00	205
		6	200	4.32	210
		7	200	4.54	210
		8	200	4.54	210
Ryall Springs	Ryall Springs ¹	1	20	0.36	200
		2	30	0.63	200
		3	40	1.15	200
		4	60	1.15	200
Rossville	Rossville ¹	7	200	2.30	310
		8	200	2.30	310
Lookout Mountain	Lookout Mountain	4	250	0.66	1500
		6	460	1.37	1480
		8	450	1.44	1460
St Elmo	St Elmo	4	60	0.78	325
		5	100	1.15	350
		6	150	1.51	380
Elder Mountain	Elder Mountain	1	60	0.18	1275
		2	60	0.18	1275

1. VFD pumps

Table 6-3
Pump Data – Small Closed Gradients

Major Gradient	Station	Pump No.	Rated Motor HP	Rated Flow (mgd)	Rated TDH (ft)
Citico	Windridge	1	15	0.29	160
		2	15	0.29	160
		3	50	1.44	140
Hill City	Berkley Circle	1	5	0.14	110
	Crestview	1	20	0.14	100
		2	15	0.14	100
	Crestwood	1	15	0.29	185
		2	15	0.29	185
	Hill Pointe	1	N/A	0.19	200
		2	N/A	0.19	200
	Johnson Blvd	1	2	0.040	110
	Minnekahada	1	7.5	0.29	235
		2	5	0.22	235
	Stuart Heights	1	3	0.10	100
		2	5	0.14	100
		3	N/A	0.10	100
	Summit Ave	1	1.5	0.040	140
East Ridge	Panorama Heights ¹	1	N/A	0.22	80
		2	N/A	0.14	120
		3	N/A	N/A	N/A
		4	N/A	N/A	N/A
Ryall Springs	Windy Hill	1	N/A	0.072	125
St Elmo	Maple Hill	1	7.5	0.070	210
		2	7.5	0.070	210
	Rolling Acres	1	15	0.18	270
		2	15	0.18	270
Elder Mountain	Cumberland Rd	1	7.5	0.22	120

Table 6-4
Pump Data – Pumped Storage

Gradient	Station	Pump No.	Rated Motor HP	Rated Flow (mgd)	Rated TDH (ft)
Citico	South End Reservoir	1	40	4.03	42
		2	40	4.03	42
East Ridge	East Brainerd Standpipe ¹	1	75	2.88	100
		2	75	2.88	100
Hill City	Red Bank Standpipe	1	25	1.15	100
		2	25	1.15	100

1. VFD pumps

**Table 6-5
Tank Data**

Gradient	Tank Name	Type ¹	Year Constructed	Total Volume (MG)	Effective Volume ² (MG)	Diameter (ft)	Bowl Range (ft)	Bottom of Tank Elevation (ft)	Overflow Elevation (ft)
Citico	Mission Ridge	RES	1965	2.50	0.56	107	37	819.5	856.5
	Mission Ridge	RES	1965	2.50	0.56	107	37	819.5	856.5
	Mission Ridge	RES	1982	2.00	0.50	100	37	820.5	857.5
	North End	RES	1979	2.82	0.62	107	42	815.5	857.5
	South End ³	RES	1962	2.50	2.25	116	32	801.6	833.6
Hill City	White Oak	RES	1954	0.75	0.58	64	32	1014	1046
	Red Bank ³	SP	1947	0.42	0.38	30	80	946.3	1026.3
	Mountain Creek	RES	2005	1.00	0.80	75	31	1015	1046
Mission Ridge & South Mission Ridge	Mission Ridge	SP	1924	0.37	0.20	25	100	1130.5	1230.5
	South Mission Ridge	SP	1957	0.54	0.21	35	75	1157.3	1232.3
East Ridge	East Brainerd ³	SP	1960	0.96	0.86	50	65.4	874.7	940.1
	East Ridge	RES	N/A	0.87	0.87	113 X 70	15	1001.75	1016.75
	Jenkins Rd	RES	2006	1.00	0.00	66	40	980	1020
Ryall Springs	Ryall Springs	ELEV	1997	0.75	0.56	64	40	1002	1042
Lookout Mountain	Lookout Mtn No. 2	SP	1926	0.48	0.26	30	90	2155.4	2245.4
	Lookout Mtn No. 3	SP	1954	1.32	0.71	50	90	2154.9	2244.9
St Elmo	St Elmo	RES	1954	0.50	0.50	46	40	1048	1088
	Lookout Valley	ELEV	2000	0.75	0.75	56	40	1048	1088
	Elder Mtn Receiving	RES	N/A	0.05	0.00	23	15	917.5	932.5
Elder Mtn	Elder Mtn	SP	N/A	0.29	0.26	25	80	1840	1920
Entire System Volume				22.37	11.45				

1. RES - Reservoir; SP - Standpipe; ELEV - Elevated Tank

2. Effective distributive volume is the approximate volume available from the floating storage facilities while maintaining a minimum pressure of 20 psi within the gradient under all flow conditions. For the pumped storage facilities, the effective volume is calculated at 90 percent of the total volume to account for the estimated volume at the bottom of the tank that is not available for pumping. Currently, none of the volume of the Jenkins Road reservoir is considered effective storage because water cannot enter the reservoir during maximum demand periods.

3. Pumped storage facility.

6.3.1 Citico Pressure Gradient

The Citico WTP supplies water directly to the Citico gradient and its storage facilities. It is the largest gradient with an average demand of approximately 16.4 mgd, serving a large portion of the City of Chattanooga, including the downtown area. The high service pumps at the plant are operated manually to maintain adequate water levels in the Mission Ridge triple reservoirs and North End reservoir. Water is pumped from the South End reservoir during peak demands, and it is filled during low demand periods through an electrically controlled valve. A total of nine booster stations deliver water from the Citico gradient to the outlying gradients. The hydraulic grade line (HGL) is established by the water level in the Mission Ridge triple reservoirs and the North End reservoir, all with an overflow elevation of approximately 857 feet msl.

6.3.2 Hill City Pressure Gradient

The Hill City gradient serves most of the area of Chattanooga north of the Tennessee River and the City of Red Bank. The customers have had an average demand of approximately 5.2 mgd, which includes the demand that had been pumped through the Walden's Ridge booster station. Two resale customers had been served from the gradient, the Town of Signal Mountain and Walden's Ridge UD. However, the resale contract with Walden's Ridge UD was recently terminated. Because of this, water is no longer delivered through the Walden's Ridge booster station.

The gradient is supplied from the Hill City booster station, which delivers water to the gradient from the Citico gradient. The pumps are operated based on the water level in the Mountain Creek reservoir. The Mountain Creek and White Oak reservoirs have the same overflow elevation of 1,046 feet msl; however, the White Oak reservoir is located significantly closer to the Hill City booster station causing water turnover to be an issue. Water from the Red Bank standpipe can be pumped to the gradient if the peak demands require it, and it is filled through an altitude valve. The standpipe is located at the same location as the Crestwood booster station, which serves a small localized area, and the booster station draws its supply from the standpipe. There are a total of eight small booster stations that serve small localized high elevation areas within the Hill City gradient.

6.3.3 Mission Ridge Pressure Gradient

The Mission Ridge gradient, for purposes of this analysis, refers to the combined Mission Ridge and South Mission Ridge gradients. A limited amount of water is able to flow across the gradients through a few small diameter mains. The Mission Ridge Standpipe, at an

overflow elevation of 1230.5 feet msl, and the South Mission Ridge Standpipe, at an overflow elevation of 1232.3 feet msl, can operate together in the same gradient due to their similar overflow elevations. However, they serve distinct areas due to their locations and the network hydraulics.

The gradient within Mission Ridge includes a narrow high elevation band through central and south Chattanooga, while the southern area serves customers in Walker County, Georgia. The average day demand in the gradient is approximately 1.9 mgd

The Elmendorf booster station supplies the northern portion of the Mission Ridge gradient. One of two pumps at the station is normally operated to maintain adequate system pressures in the north, taking suction from the Citico gradient. The Mission Ridge booster station delivers water to the central part of the gradient, taking suction from the Citico gradient near the Mission Ridge triple reservoirs. The booster pumps are operated based on the water level in the Mission Ridge standpipe. The South Mission Ridge booster station delivers water to the southern area of the gradient within Walker County, Georgia, also taking suction from the Citico gradient. The pumps are operated based on the water level in the South Mission Ridge standpipe.

6.3.4 East Ridge Pressure Gradient

The East Ridge gradient serves a large area on the eastern side of Chattanooga, including the Catoosa UD resale customer at the southern end of the gradient. The customers have an average demand of approximately 9.2 mgd. The gradient is supplied from two booster stations. The New York Avenue booster station delivers water into the northern portion of the gradient, taking suction from the Citico gradient near the North End reservoir. This station is run continuously to maintain adequate system pressures in the north. The largest pump no. 3 is equipped with a VFD so the speed can be adjusted to deliver the required flows and pressures. The East Ridge booster station, at the same location as the Mission Ridge booster station, delivers water into the central portion of the gradient, also taking suction from the Citico gradient near the Mission Ridge triple reservoirs. The pumps are operated based on water levels in the East Ridge reservoir.

The East Ridge reservoir, at an overflow elevation of 1,016.75 feet msl, is located close to the East Ridge booster station. Adequate water levels can be maintained in the reservoir, though it does drop quickly if the East Ridge booster station is off. The Water Company has had difficulty in maintaining adequate water levels in the Jenkins Road reservoir, located on

the east side of the gradient at a slightly higher overflow elevation of 1,020 feet msl. During the peak demand season, the tank often times remains empty, while water levels of up to approximately 10 to 15 feet, of its 40 feet height, are sometimes achieved during average demand periods. Recommendations are included to enable the full volume of the Jenkins Road reservoir to be utilized. The East Brainerd standpipe and pump station is centrally located within the gradient. The two pumps are equipped with VFDs and deliver water from the tank during peak demands. The tank empties and refills through a double acting altitude valve. Water can drain from the tank to the gradient without pumping if the HGL drops low enough, though this seldom occurs. The Panorama booster station is located within the East Ridge gradient, and delivers water to a small localized high elevation area.

6.3.5 Ryall Springs Pressure Gradient

The Ryall Springs booster station takes suction from the East Ridge gradient and supplies a primarily residential area on the eastern edge of Chattanooga just north of the Georgia border. The demands in the gradient average approximately 0.40 mgd. Four VFD pumps deliver flows based on the water level in the 0.75 MG Ryall Springs elevated tank, at an overflow elevation of 1,042 feet msl. The Windy Hill booster station is located within the gradient and delivers water to a small localized high elevation area.

6.3.6 Rossville Pressure Gradient

The Rossville gradient is a closed gradient with no distribution storage. Two VFD pumps at the Rossville booster station, located in the same building as the South Mission Ridge booster pumps, deliver flows to meet the instantaneous demands in the gradient. The average customer demand is approximately 1.2 mgd, with the resale customer, City of Fort Oglethorpe, accounting for nearly 1.0 mgd of this demand. A PRV from the South Mission Ridge booster pumps can be utilized to supplement flow into the Rossville gradient, or provide a backup supply in the event of a pump failure.

6.3.7 Lookout Mountain Pressure Gradient

The Lookout Mountain gradient serves the highest elevation area in the system, with elevations ranging from approximately 1,050 to 2,150 feet msl. A few areas within the gradient are served from PRVs due to the large elevation changes, and a number of customers have individual PRVs. The Lookout Mountain booster station takes suction from the Citico gradient. The pumps are operated based on the water level in the Lookout Mountain standpipes, at an overflow elevation of 2,245 feet msl. The design pumping head of the booster pumps ranges from 1,460 to 1,500 feet, delivering discharge pressures up to 630

psi and slightly higher. The customers in the gradient have an average demand of approximately 0.80 mgd.

6.3.8 St Elmo Pressure Gradient

The St Elmo gradient serves the area east of Lookout Mountain and the Lookout Valley/Tiftonia area northwest of Lookout Mountain, with an average demand of approximately 1.1 mgd. The St Elmo booster station, at the same site as the Lookout Mountain booster station, takes suction from the Citico gradient. The pumps are operated based on the water level in the Lookout Valley elevated tank.

The St Elmo reservoir, at an overflow elevation of 1,088 feet msl, is located close to the St Elmo booster station and generally remains full when the station is operating. The Lookout Valley elevated tank, also at an overflow elevation of 1,088 feet msl, is located further west in the gradient and exhibits fluctuating water levels. The Elder Mountain receiving tank is a small 50,000 gallon tank located on the suction side of the Elder Mountain booster station. It is used as a storage buffer prior to the booster station to stabilize suction pressures. The tank is filled from the St Elmo gradient but water is delivered from the tank into the Elder Mountain gradient. The Maple Hill and Rolling Acres booster stations are located within the St Elmo gradient, and deliver water to the small localized high elevation areas.

6.3.9 Elder Mountain Pressure Gradient

The Elder Mountain booster station delivers water from the St Elmo gradient to the 0.29 MG Elder Mountain standpipe, at an overflow elevation of 1,840 feet msl. One of the two booster pumps is operated based on the water level in the standpipe. No customers are served between the booster station and the standpipe. The Cumberland Road booster station then takes suction from the Elder Mountain standpipe and delivers water to the customers within the higher elevation area.

6.4 DISTRIBUTION SYSTEM ANALYSIS

The distribution system analysis includes an evaluation of: 1) pressures and flows in the overall pipe network, 2) system pumping capacity, 3) distribution storage adequacy, 4) fire flow analyses, and 5) emergency power availability. The calibrated hydraulic model of the Chattanooga distribution system was used to perform system investigations.

6.4.1 Piping Network Analysis

The water distribution system model was updated to reflect the current and projected physical topologies, operational controls and demand patterns of the system. The system

responses to various model scenarios were evaluated. The maximum day and peak hour of maximum day steady-state scenarios were analyzed to focus on conditions of the greatest hydraulic stress and were used to identify excessive hydraulic restriction and system deficiencies, such as low or marginal service pressures. From these analyses, areas of concern are identified and prioritized, and recommendations made to improve the system performance. The improvement projects are evaluated and verified by hydraulic simulations. Extended period simulations are used primarily to validate recommended improvement projects and determine proper operation of the pumping and storage facilities.

The “Community Public Water Systems Design Criteria”, produced by the Tennessee Department of Environment and Conservation’s (TDEC) Division of Water Supply in 2008, provides distribution system design standards. The standards state that “the system shall be designed to maintain a minimum pressure of 20 psi at ground level at all points in the distribution system under all conditions of flow.” When possible, however, providing a minimum of 30 psi during all non-emergency flow conditions is a desirable design goal. Pressures were evaluated at the system nodes during the peak hour of the maximum day demand. Pipeline headloss gradients and velocities were also evaluated against distribution system guidelines during the same model scenario. Of particular concern are excessive headloss gradients which may cause low or marginal pressures or excessive velocities which may result in water hammer concerns.

A number of exhibits are included in **Appendix E** illustrating the results of model analysis during peak hour of maximum day scenarios. **Exhibit E-1** shows the predicted pressures across the entire system during the 2015 projected peak hour of maximum day condition. These pressures are summarized in **Table 6-6** by gradient. **Exhibit E-2** illustrates the predicted headloss gradients for all 12-inch diameter and larger mains during the same 2015 peak hour of maximum day model scenario.

The model analysis shows a number of low and marginal pressure areas within the system. A majority of these areas are a result of localized high elevations. Within the Citico pressure gradient, there are two specific locations where the model predicted pressure is approximately 20 psi. The first area is at the triangle formed by Hwy 29, Signal Mountain Road and Dayton Road. A 2-inch main serves a newer developed area within this triangle at a higher elevation, resulting in model predicted pressures of approximately 20 psi, both as a result of a high headloss and the high elevation. The second location is along Dogwood Lane, off of Hamm Road. A few homes are served along this 2-inch main at a higher

elevation, resulting in model predicted pressures of approximately 20 psi. It is recommended that these areas be field checked to confirm the actual field pressures and determine if improvements, such as a small booster pump, are needed to improve the pressures. There are also a number of areas that show model predicted pressures between 20 psi and 30 psi. Some are located next to ground reservoirs or standpipes, and a number are located along the edge of the Citico gradient at higher elevations. It is recommended that the Water Company determine if these marginal pressure areas result in customer complaints or other operational issues. If so, it may be possible to modify the gradient so the customers can be served at higher pressures.

Table 6-6
Chattanooga Predicted Pressures – 2015 Projected Peak Hour of Maximum Day

Gradient	Pressure Range (psi)	Elevation Range (ft msl)
Citico	20 to 218	640 to 820
Hill City	30 to 170	640 to 975
Mission Ridge	26 to 240	656 to 1155
East Ridge	33 to 160	650 to 930
Ryall Springs	48 to 158	712 to 966
Rossville	46 to 147	730 to 922
Lookout Mountain	33 to 322	1046 to 2150
St Elmo	75 to 235	645 to 1035
Elder Mountain (Cumberland Rd)	97 to 231	1510 to 1820

There are also a number of areas in the system with high pressures, as noted in **Table 6-6** and **Exhibit E-1**. The large range in pressures is to be expected with the given elevation differences across the system and within the individual pressure gradients. There are some pressure reducing valves (PRVs) used in the system to reduce pressures to localized areas. In addition, a number of customers have individual PRVs on their service lines. The TDEC's "Community Public Water Systems Design Criteria" states that "wide variations in pressure

above the minimum requirement of 20 psi may be inherent in the design of a distribution system but pressures no greater than 100 psi should be delivered to the customer (unless higher pressures are requested.). Main line pressure reducing valves can be used to reduce pressures below 100 psi where feasible. Where water pressures over 100 psi are necessary to the operation of the distribution system, customers must have individual pressure reducing valves.” Because of the large areas within the system that have pressures over 100 psi, it may not be possible to provide individual pressure reducing valves to all customers with these pressures. However, the improvements analysis considers options for improving pressure management, including adjusting gradient boundaries and the use of additional PRVs.

For the target years, a majority of the growth in the system is projected to occur within the East Ridge gradient, with most of the growth a result of the projected increased flows to Catoosa UD. The model analysis shows excessively high head loss gradients in the southern part of the East Ridge gradient when delivering the projected flows to Catoosa UD without any transmission improvements. This results in a large area with predicted pressures of less than 20 psi. Because of this, transmission improvements are evaluated in the East Ridge gradient to deliver the higher flows to Catoosa UD while maintaining adequate system pressures. The future demands in the remaining gradients are projected to remain steady or even drop slightly from current demands.

6.4.2 Pumping Capacity Analysis

The firm pumping capacities are evaluated for their ability to meet the projected maximum day demands in each pressure gradient, as summarized in **Table 6-7**. Firm capacity is the amount of water that can be delivered with the largest or most critical pumping unit out of service. Each pressure gradient should have sufficient firm capacity to satisfy the projected maximum day demand for the duration of the planning period. Actual pumping capacities are used for the analysis, rather than the given design capacities. The actual capacities are based on field data and model simulations with the elevated tanks in the near-full condition.

The pumping capacities are shown to be adequate for meeting the current and projected maximum day demands for the base growth scenario. If the high growth scenario is followed, resulting in even higher flows to Catoosa UD, pumping upgrades may be needed at the East Ridge booster station. With the exception of the East Ridge gradient, the future demands are projected to remain steady or decline due to the general trend of a declining usage per customer. The following subsections discuss the pumping capacity analysis by gradient.

Table 6-7
Distributive Pumping Capacity Adequacy (mgd)

Gradient	Supply Station(s)	Total Pumping Capacity (1)	Firm Pumping Capacity (2)	Year	Projected 95% CL Max Day (3)	Firm Distributive Pumping Surplus / (Deficit)
Citico	Citico WTP	63.66	60.85	2015	49.51	11.34
				2020	48.31	12.54
				2030	47.26	13.59
Hill City	Hill City	8.99	6.98	2015	6.46	0.52
				2020	6.20	0.78
				2030	5.79	1.19
Mission Ridge	Elmendorf Mission Ridge S. Mission Ridge	0.94	0.66	2015	3.43	1.91
		3.22	1.75	2020	3.15	2.19
		3.87	2.93	2030	2.93	2.41
		8.03	5.34			
East Ridge	New York East Ridge	10.32	8.32	2015	13.84	6.26
		13.52	11.78	2020	14.77	5.33
		23.84	20.10	2030	15.10	5.00
Ryall Springs	Ryall Springs	2.21	2.01	2015	0.54	1.47
				2020	0.52	1.49
				2030	0.51	1.50
Rossville	Rossville	3.73	2.51	2015	2.44	0.07
				2020	2.41	0.10
				2030	2.39	0.12
LOOKOUT Mountain	Lookout Mountain	3.45	2.13	2015	1.59	0.54
				2020	1.62	0.51
				2030	1.60	0.53
St Elmo	St Elmo	2.43	1.98	2015	1.53	0.45
				2020	1.56	0.42
				2030	1.52	0.46
Elder Mountain	Elder Mountain	0.43	0.23	2015	0.12	0.11
				2020	0.11	0.12
				2030	0.11	0.12

1. Total pumping capacity is the sum of the actual pumping capacities with all of the pumps operating, as determined from model simulation with the calibrated model.

2. Firm pumping capacity is the capacity with the largest pumping unit out of service, as determined from model simulation with the calibrated model.

3. The projected max day for the Citico gradient included the entire system demand because all of the supply originates from the Citico WTP. The demand for the East Ridge gradient includes the Ryall Springs demand, and the demand for St Elmo includes the Elder Mountain demand. The projected demand in the Rossville gradient is the peak hour demand because no storage is provided in the gradient to deliver equalization flows.

6.4.2.1 Citico

The Citico gradient distributive pumping capacity originates from the Citico WTP. The seven high service pumps at the WTP have design capacities ranging from 5.6 mgd to 20.5 mgd. The total pumping capacity from model simulation is approximately 63.7 mgd. The firm pumping capacity, with the largest pump out of service, is approximately 60.8 mgd. The firm capacity must be adequate for meeting the entire system maximum day demand, because all of the system supply originates from the WTP. As shown in **Table 6-7**, there is adequate firm pumping capacity for meeting the maximum day demands through the planning period.

6.4.2.2 Hill City

The Hill City booster pumps take suction from the Citico gradient and deliver water to the Hill City gradient. The total and firm pumping capacities are approximately 9.0 mgd and 7.0 mgd, respectively. The firm capacity, with the largest pump no. 8 off, is shown to be adequate for meeting the maximum day demand in the gradient, which is projected to decrease from approximately 6.5 mgd in 2015 to 5.8 mgd in 2030. The demands in the gradient show an initial drop from current demands because of the loss of Walden's Ridge UD as a resale customer. If Walden's Ridge UD had remained a resale customer, then additional pumping capacity would have been recommended at the booster station. The demands are projected to decrease slightly in the future due to the overall declining usage per customer trend.

It is noted that the pump flow readings from the SCADA system are inaccurate. It is recommended to replace the flow meters at the station.

6.4.2.3 Mission Ridge

The Mission Ridge gradient, a narrow gradient extending from north to south along the east side of the City of Chattanooga, is supplied from three booster stations. The Elmendorf booster is located at the northern end of the gradient, the Mission Ridge booster is located in the central portion, and the South Mission Ridge booster is located at the southern end. The South Mission Ridge gradient had been designated as a separate distinct gradient; however, water is able to flow through a few small diameter mains that connect the Mission Ridge and South Mission Ridge areas. Thus, they are evaluated as one gradient. A recommendation is included to provide additional transmission capacity from South Mission Ridge to Mission Ridge for the benefit of sharing pumping and storage capacity. The South Mission Ridge booster does and will continue to supply the South Mission Ridge area, but flow can also be delivered north to Mission Ridge.

The three booster stations take suction from the Citico gradient. The combined total pumping capacity to the gradient is approximately 8.0 mgd. The firm capacity with the largest pump off at each of the three booster stations is approximately 5.3 mgd, which is adequate for meeting the gradient's maximum day demands. The firm capacity is even greater if only the largest pump from the combined three booster stations, pump no. 6 at the Mission Ridge booster, is considered to be out of service, rather than the largest pump out of service at each station.

6.4.2.4 East Ridge

The East Ridge gradient, which encompasses a large area on the east side of the system, is supplied from two booster stations. The New York Avenue booster is located at the northern end of the gradient, while the East Ridge booster is located in the central portion. Both booster stations take suction from the Citico gradient.

The New York Avenue booster station contains two constant speed pumps with a design capacity of 4.0 mgd each and a 6.0 mgd pump with a VFD motor. The VFD motor was installed recently in an attempt to better control the flow and pressure to the gradient and fill the Jenkins Road reservoir. A recommendation is included to divide the East Ridge gradient, which will enable the New York booster pumps to fill the Jenkins Road reservoir. The East Ridge booster station contains four pumps with design capacities ranging from 3.0 mgd to 4.5 mgd. The combined total pumping capacity to the gradient is approximately 23.8 mgd. The firm capacity with the largest pump off at each of the booster stations is approximately 20.1 mgd. This capacity is shown to be adequate for meeting the gradient's projected maximum day demands for the base growth scenario, which includes peak flows of approximately 4 mgd to Catoosa UD. Additional capacity may be needed at the East Ridge booster station if the high growth scenario is followed and even higher flows are delivered to Catoosa UD. Providing adequate transmission capacity to deliver the projected maximum day flows is addressed in the improvements analysis.

6.4.2.5 Ryall Springs

The Ryall Springs booster station takes suction from the East Ridge gradient to supply the Ryall Springs gradient. The booster station consists of four pumps, all with VFD motors. The pumps range from 0.36 mgd to 1.15 mgd in design pumping capacity. The total and firm pumping capacities, with the pumps operating at full speed, are approximately 2.2 mgd and 2.0 mgd, respectively. The firm capacity is adequate for meeting the gradient's maximum day demands.

6.4.2.6 Rossville

The Rossville booster station takes suction from the Citico gradient and delivers water to the Rossville gradient. The station contains two pumps, both with the same design capacity of 2.3 mgd each, and both with VFD motors. They are located in the same building as the South Mission Ridge booster pumps. Because no storage is provided in the gradient, the VFD is set to deliver a specified discharge pressure to the gradient. The total and firm pumping capacities at full speed are approximately 3.7 mgd and 2.5 mgd, respectively.

Because there is no storage in the gradient for providing equalization flows, the booster station pumps must have the firm capacity to deliver the instantaneous peak demand on the maximum day, projected at approximately 2.45 mgd. The firm capacity is adequate for meeting the instantaneous peak demand. A majority of the demand in the gradient is a result of flows to the City of Fort Oglethorpe resale customer. In addition to the Rossville booster pumps, water can be delivered to the Rossville gradient from the South Mission Ridge booster pumps through a PRV.

6.4.2.7 Lookout Mountain

Water is delivered to the Lookout Mountain gradient from the Lookout Mountain booster station, which takes suction from the Citico gradient. The station contains three pumps with design capacities of 0.66 mgd, 1.37 mgd and 1.44 mgd. The booster station shares its location with the St Elmo booster station. The total and firm pumping capacities are approximately 3.5 mgd and 2.1 mgd, respectively. The firm capacity is adequate for meeting the maximum day demands. It is noted that the Lookout Mountain booster pumps deliver water with a pumping head of over 1,400 feet, resulting in discharge pressures over 630 psi.

6.4.2.8 St Elmo

The St Elmo booster station contains three pumps with design capacities of 0.78 mgd, 1.15 mgd and 1.51 mgd. The pumps take suction from the Citico gradient and deliver water to the St Elmo gradient. The total and firm pumping capacities are approximately 2.4 mgd and 2.0 mgd, respectively. The firm capacity is adequate for meeting the maximum day demands.

6.4.2.9 Elder Mountain

The Elder Mountain booster station contains two pumps, each with a design capacity of 0.18 mgd. The pumps deliver water from the St Elmo gradient to the 0.29 MG Elder Mountain standpipe. No customers are served between the booster station and the standpipe. The Cumberland Road booster station then takes suction from the Elder Mountain standpipe and

delivers water to the customers within the higher elevation area served by the Cumberland Road booster station. The total and firm pumping capacities of the Elder Mountain booster pumps are approximately 0.43 mgd and 0.23 mgd, respectively. The firm capacity is adequate for meeting the maximum day demands.

The single Cumberland Road booster pump delivers water to the small closed gradient. The pump design capacity of 0.22 mgd is adequate for meeting the instantaneous peak demands in the gradient.

6.4.3 Storage Capacity Analysis

The “Community Public Water Systems Design Criteria”, produced by the TDEC Division of Water Supply in 2008, provides distribution storage design standards. Similar to American Water’s storage capacity criteria, the TDEC document indicates that “the purpose of system storage is to have sufficient water available to provide adequate flow and pressure at peak demand as well as to provide for fire flows when needed.” The document states that “in the absence of an acceptable engineering study of the amount of water the system needs to meet customer demand and to provide for fire emergencies, the projected 24-hour demand at the end of the planning period will be the minimum requirement for elevated storage. This requirement may be reduced when the source, treatment facilities and pumps have sufficient capacity with standby power capability to supplement peak demands of the system.” The CPS does include a detailed engineering study of the amount of storage needed for peak demands (equalization storage) and for fire reserve, along with a standby power analysis. Based on this, according to the above criteria, the guideline to provide enough storage capacity to meet an average day’s demand can be waived.

Additionally, however, the “Rules of TDEC” for Public Water Systems, dated October 2012, also provides guidelines for distribution storage. The document states, “All community water systems serving 50 connections or more are required to have 24 hours of distribution storage based on the average daily demand for the past twelve months. Distribution storage must be located so that the instantaneous demand can be met in all areas at any time.” A few exceptions are noted, with one being the following. “Water systems which have an average daily demand of 10 million gallons or more are not required to have 24 hours of distribution storage provided the system has adopted a contingency plan for emergencies that has been approved by the Department. The contingency plan must demonstrate the water system is able to provide residential service to all customers for a 24 hour period during any emergency involving the shutdown of the treatment facility.”

TNAW is in the process of updating its Emergency Response Plan so that it can continue to provide service to its customers in the event of a critical failure at the plant, such as a contamination event on the Tennessee River. It is expected that this plan will meet the above exception to providing 24 hours of distribution storage. Even so, the benefits of providing improved reliability through additional storage volume are evaluated as part of the CPS improvements analysis.

The storage capacity was evaluated in each pressure gradient to determine its adequacy for meeting the determined equalization volumes and fire flow reserves. Effective storage volume is the storage volume available while maintaining a minimum of 20 psi throughout the pressure gradient during all flow conditions, including fire flows. The effective capacity of the pumped storage tanks is estimated at 90 percent of their total volume, to account for a portion at the bottom of the tanks which cannot be delivered with the tank pumps.

Equalization volume is defined as the volume of hourly demands that are in excess of the average hourly demand. SCADA records defining tank levels and station flows during the 2012 maximum demand period were used to determine the equalization percentage for each pressure gradient. **Table 6-8** summarizes this information. Required fire flow reserve was based on the fire flow needs in each gradient.

For planning purposes, an equalization percentage is applied to each gradient based on the percentages determined from the SCADA records as shown in **Table 6-8**. A summary of the storage analysis with the existing system facilities and gradients is presented in **Table 6-9**. The storage analysis indicates that adequate storage volume is available in all of the gradients for meeting the equalization and fire reserve needs, with the exception of Mission Ridge, East Ridge and Rossville. The Rossville gradient does not contain any distribution storage, and it is recommended to continue to operate the gradient without storage. Fire and emergency flows can be pumped through the booster station, drawing on storage in the Citico gradient. Storage improvements are recommended in the East Ridge gradient, along with a gradient modification to enable full use of the Jenkins Road reservoir. The option to construct a new storage facility in the Mission Ridge gradient does not appear to be feasible, due to a lack of available space at adequate elevations. Therefore, no new storage is recommended in Mission Ridge. However, the three booster stations supplying the gradient are able to draw from storage in the Citico gradient and deliver higher peak flows in the event of a fire demand. The storage analysis is discussed in the following subsections for each pressure gradient.

Table 6-8a
Summary of Equalization Percentages by Gradient – 2012 Maximum Demand Period

Date	Citico		Hill City		Mission Ridge		East Ridge		Ryall Springs	
	Demand (mgd)	Equal. %	Demand (mgd)	Equal. %	Demand (mgd)	Equal. %	Demand (mgd)	Equal. %	Demand (mgd)	Equal. %
30-Jun	17.721	5.8%	7.086	4.6%	3.572	5.3%	13.893	5.9%	0.507	15.4%
1-Jul	17.577	5.8%	7.010	4.6%	3.594	5.0%	13.064	6.5%	0.508	20.7%
2-Jul	20.778	5.0%	6.962	4.5%	3.473	4.4%	12.960	7.7%	0.399	27.5%
3-Jul	20.492	7.4%	6.737	5.6%	3.512	4.2%	12.872	6.3%	0.468	17.4%
4-Jul	16.527	8.0%	6.990	4.3%	3.512	5.2%	12.303	8.4%	0.502	18.4%
AVG		6.4%		4.7%		4.8%		7.0%		19.9%
MAX		8.0%		5.6%		5.3%		8.4%		27.5%

Table 6-8b
Summary of Equalization Percentages by Gradient – 2012 Maximum Demand Period

Date	Rossville		Lookout Mountain		St Elmo		Elder Mountain	
	Demand (mgd)	Equal. %	Demand (mgd)	Equal. %	Demand (mgd)	Equal. %	Demand (mgd)	Equal. %
30-Jun	1.306	23.4%	1.876	13.1%	1.184	8.5%	0.148	16.3%
1-Jul	1.500	1.9%	1.660	10.9%	1.140	15.7%	0.112	21.3%
2-Jul	1.431	1.5%	1.799	13.0%	1.146	12.4%	0.153	19.3%
3-Jul	1.098	21.8%	1.854	10.3%	1.210	15.4%	0.092	16.1%
4-Jul	1.088	23.0%	1.697	19.2%	1.156	16.0%	0.125	24.0%
AVG		14.3%		13.3%		13.6%		19.4%
MAX		23.4%		19.2%		16.0%		24.0%

**Table 6-9
Storage Analysis**

Gradient	Year	Projected Max Day (mgd)	Equal. %	Needed Equal. Storage (MG)	Needed Fire Storage¹ (MG)	Total Needed Storage Volume (MG)	Existing Effective Storage (MG)	Surplus / (Deficit) (MG)
Citico	2015	21.04	10%	2.10	0.63	2.73	4.50	1.76
	2020	19.39		1.94		2.57		1.93
	2030	18.73		1.87		2.50		2.00
Hill City	2015	6.46	10%	0.65	0.63	1.28	1.76	0.48
	2020	6.20		0.62		1.25		0.51
	2030	5.79		0.58		1.21		0.55
Mission Ridge	2015	3.43	10%	0.34	0.30	0.64	0.41	(0.23)
	2020	3.15		0.32		0.62		(0.20)
	2030	2.93		0.29		0.59		(0.18)
East Ridge	2015	13.30	10%	1.33	0.63	1.96	1.73	(0.23)
	2020	14.25		1.43		2.06		(0.32)
	2030	14.59		1.46		2.09		(0.36)
Ryall Springs	2015	0.54	28%	0.15	0.30	0.45	0.56	0.11
	2020	0.52		0.15		0.45		0.11
	2030	0.51		0.14		0.44		0.11
Rossville	2015	1.63	25%	0.41	0.30	0.71	0.00	(0.71)
	2020	1.61		0.40		0.70		(0.70)
	2030	1.59		0.40		0.70		(0.70)
Lookout Mountain	2015	1.59	20%	0.32	0.30	0.62	0.98	0.36
	2020	1.62		0.32		0.62		0.35
	2030	1.60		0.32		0.62		0.36
St Elmo	2015	1.41	18%	0.25	0.63	0.88	1.25	0.37
	2020	1.45		0.26		0.89		0.36
	2030	1.41		0.25		0.88		0.37
Elder Mountain	2015	0.12	25%	0.03	0.18	0.21	0.26	0.05
	2020	0.11		0.03		0.21		0.05
	2030	0.11		0.03		0.21		0.05

1. Fire Storage is based on the volume required to sustain the maximum needed fire flow for the specified duration. The maximum needed fire reserve is limited to 3500 gpm for 3 hours, or 0.63 MG.

6.4.3.1 Citico

The Mission Ridge triple reservoirs (7.00 MG), North End reservoir (2.82 MG) and South End reservoir (2.50 MG) provide a total storage volume of 12.32 MG in the Citico gradient. However, the effective volume from these storage facilities is only approximately 4.50 MG. The highest elevation in the Citico gradient is just over 800 ft msl, and in order to maintain a minimum of 20 psi in the gradient under all flow conditions, only the top 22 to 25 percent of the floating storage reservoirs can be considered effective storage volume. Because the South End reservoir is pumped storage, 90 percent of its volume is considered effective storage.

The recommended storage volume for meeting equalization and fire storage needs in the Citico gradient is 2.85 MG in 2015, decreasing to 2.60 MG by 2030. Included in the amount is 0.63 MG for fire reserve, based on a 3,500 gpm fire flow for a 3-hour duration. The 4.50 MG of effective storage volume is adequate for meeting the gradient's equalization and fire storage needs. Consideration is given to increasing the overall storage volume to provide improved reliability during emergency conditions, such as major main breaks or a plant shutdown.

6.4.3.2 Hill City

A total storage volume of 2.17 MG is provided in the Hill City gradient from the White Oak reservoir (0.75 MG), the Red Bank standpipe (0.42 MG) and the Mountain Creek reservoir (1.00 MG). The effective volume from these storage facilities is approximately 1.76 MG. The highest elevation in the Hill City gradient is approximately 975 ft msl. In order to maintain a minimum of 20 psi in the gradient, the top 78 to 80 percent of the floating storage reservoirs can be considered effective storage volume. The Red Bank standpipe is pumped storage, and thus 90 percent of its volume is considered effective storage.

The recommended storage volume for meeting equalization and fire storage needs in the Hill City gradient is 1.28 MG in 2015, decreasing to 1.21 MG by 2030. Therefore, the 1.76 MG of effective storage volume is adequate for meeting the gradient's storage needs.

It is difficult to turn over the water in the White Oak reservoir due to its location with respect to the Hill City booster station in comparison to the location of the Mountain Creek reservoir. Both reservoirs share the same overflow elevation of 1,046 feet msl. However, the White Oak reservoir is closer to the Hill City booster station, whereas the Mountain Creek reservoir is located in the northwest portion of the gradient. The Hill City booster station pumps are

operated based on the water level in the Mountain Creek reservoir. The White Oak reservoir normally remains full because the HGL at the reservoir is generally higher than the water level in the reservoir. The SCADA records for both the average and maximum demand periods show no movement in the White Oak reservoir during the five day periods, and the model simulation shows the same results. The 2015 and target year model simulations, however, do show some drop in water level from the White Oak reservoir. This change is likely the result of reduced pumping from the Hill City booster station due to the reduced demand in the gradient with the loss of Walden's Ridge UD as a resale customer. Thus, with more pumps cycling off at the booster station, the White Oak reservoir is able to drain some to the system. Providing adequate water turnover in the White Oak reservoir should be a goal of system operation. This can be accomplished by allowing the Mountain Creek reservoir to drop slightly lower with a modified pump settings at the Hill City booster station.

The Red Bank standpipe is located next to the Crestview booster station, which pumps to the small closed Crestview gradient. The standpipe drains to supply the booster station. Two pumps are also available to deliver water from the standpipe to the Hill City gradient, though these pumps are not operated on a regular basis. The SCADA records for the average and maximum demand periods indicated that the pumps were not operated during these periods. It is recommended to operate the Red Bank standpipe pumps on a daily basis during the peak hourly demands to improve water turnover and to provide additional equalization storage to the gradient.

6.4.3.3 Mission Ridge

The Mission Ridge standpipe (0.37 MG) and the South Mission Ridge standpipe (0.54 MG) provide a total storage volume of 0.91 MG in the Mission Ridge gradient. The effective volume from the two storage facilities is approximately 0.41 MG. A number of customers are located at the same ground elevation as the bottom of the standpipes, and thus the bottom 46 ft of the standpipes cannot be considered effective volume in order to maintain a minimum of 20 psi in the gradient under all flow conditions.

The recommended storage volume for meeting the equalization storage needs in the Mission Ridge gradient is currently approximately 0.34 MG. The fire storage needs in the Mission Ridge gradient are based on a 2,500 gpm fire flow for a 2-hour duration, for a volume of 0.30 MG. The current total storage need is therefore approximately 0.64 MG, decreasing to approximately 0.59 MG by 2030. This corresponds to an overall storage deficit of approximately 0.18 MG by 2030. Because of available space limitations for constructing new

storage at an adequate elevation in the gradient, a new storage facility is not recommended for Mission Ridge. However, the pumps from the three booster stations can draw from storage in the Citico gradient and deliver the peak fire flows in the event of a fire demand. A number of piping improvements are recommended to improve the transmission of peak fire flows, along with the ability to better share the pumping and storage capacity across the long and narrow gradient. In addition, VFD motors are recommended on some of the Mission Ridge and South Mission Ridge booster pumps to enable steadier pump operation with the given Standpipes.

6.4.3.4 East Ridge

A total storage volume of 2.83 MG is provided in the East Ridge gradient from the East Brainerd standpipe (0.96 MG), the East Ridge reservoir (0.87 MG) and the Jenkins Road reservoir (1.00 MG). The theoretical effective volume from these storage facilities is approximately 2.73 MG. The entire volume of the floating storage reservoirs is effective storage, while 90 percent of the East Brainerd standpipe is effective storage because it is a pumped storage facility. However, it has not been possible to fill the Jenkins Road reservoir. During average demand conditions, the water level sometimes reaches approximately 15 feet of its 40 feet height. During maximum demand periods, the reservoir is often empty. With the current operation, the effective storage volume of the Jenkins Road reservoir is considered to be zero.

A primary reason for the inability to fill the Jenkins Road reservoir is its location and overflow elevation in relation to the East Ridge reservoir. The East Ridge reservoir is located close to the East Ridge booster station, at an overflow elevation of 1,016.75 feet msl. The Jenkins Road reservoir is located on the eastern side of the gradient, away from the booster stations, and with a slightly higher overflow elevation of 1,020 feet msl. Because the HGL is significantly lower on the east side of the gradient due to headloss through the piping network, it is difficult to maintain adequate water levels in the reservoir.

The recommended storage volume for meeting equalization and fire storage needs in the East Ridge gradient is 2.09 MG through 2030. This includes 0.63 MG in fire reserve, based on a 3,500 gpm fire flow for a 3-hour duration. The 1.73 MG of effective storage volume is not adequate for meeting the gradient's storage needs with the existing gradient configuration. A project is recommended to divide the gradient to enable full utilization of the Jenkins Road elevated tank. Another project recommends the construction of a new storage facility in the southern part of the East Ridge gradient.

6.4.3.5 Ryall Springs

The 0.75 MG Ryall Springs elevated tank provides the storage volume in the Ryall Springs gradient. Approximately 0.56 MG of the total storage volume is considered effective storage. The recommended storage volume for meeting the equalization storage needs in the Ryall Springs gradient is approximately 0.15 MG. The fire storage needs in the gradient are based on a 2,500 gpm fire flow for a 2-hour duration, for a volume of 0.30 MG. The total storage need is therefore approximately 0.45 MG. The effective storage volume is adequate for meeting the equalization and fire storage needs in the gradient through the planning period.

6.4.3.6 Rossville

No storage exists in the Rossville gradient. The Rossville booster pumps effectively draw from storage in the Citico gradient to deliver equalization and fire flows. Additional supply is also available through the PRV from the South Mission Ridge booster pumps. The Rossville booster pumps have VFD motors which are set to deliver a set discharge pressure. The motor speed increases and decreases as needed to deliver the instantaneous demand while maintaining the set discharge pressure. The fire flow goal for the gradient is up to 2,500 gpm for a 2-hour duration. Model runs indicate that a 2,500 gpm fire flow can be delivered to the gradient, corresponding to a volume of 0.30 MG. This volume is available from the Citico gradient's surplus storage capacity.

6.4.3.7 Lookout Mountain

The Lookout Mountain standpipes provide a total storage volume of 1.80 MG in the Lookout Mountain gradient. The effective volume from the storage facilities is approximately 0.98 MG. A number of customers are located next to the standpipes at close to the same ground elevation as the bottom of the standpipes. This limits the effective volume to approximately 55 percent of the total volume in order to maintain a minimum of 20 psi in the gradient under all flow conditions.

The recommended storage volume for meeting the equalization storage needs in the gradient is approximately 0.32 MG. The fire storage needs in the gradient are based on a 2,500 gpm fire flow for a 2-hour duration, for a volume of 0.30 MG. The total storage need is therefore approximately 0.62 MG. The effective storage volume of 0.98 MG is adequate for meeting the gradient's storage needs through the planning period.

6.4.3.8 St Elmo

A total storage volume of 1.30 MG is provided in the St Elmo gradient from the St Elmo reservoir (0.50 MG), the Lookout Valley elevated tank (0.75 MG) and the Elder Mountain receiving reservoir (0.05 MG). The effective volume from these storage facilities is approximately 1.25 MG. The entire volume of the St Elmo reservoir and the Lookout Valley elevated tank is considered effective storage. None of the volume from the Elder Mountain receiving reservoir is effective storage because the reservoir primarily acts as a storage buffer for the Elder Mountain booster station.

The recommended storage volume for meeting equalization and fire storage needs in the St Elmo gradient is approximately 0.88 MG. Of this amount, the fire storage need is 0.63 MG, based on a 3,500 gpm fire flow for a 3-hour duration. The 1.25 MG of effective storage volume is adequate for meeting the gradient's storage needs.

It is difficult to turn over the water in the St Elmo reservoir due to its proximity to the St Elmo booster station. Both the St Elmo reservoir and the Lookout Valley elevated tank share the same overflow elevation of 1,088 feet msl. However, the Lookout Valley elevated tank is located on the west side of the gradient, while the St Elmo reservoir is close to the St Elmo booster station. The St Elmo booster station pumps are operated based on the water level in the Lookout Valley elevated tank. The St Elmo reservoir normally remains full because the HGL at the reservoir is generally higher than the water level in the reservoir. The reservoir only drains for the short intervals in which all the pumps are off at the St Elmo booster station. Providing adequate water turnover in the St Elmo reservoir should be a goal of system operation. Allowing the water level in the Lookout Valley elevated tank to drain a little lower will slightly improve water turnover in the St Elmo reservoir.

6.4.3.9 Elder Mountain

The 0.29 MG Elder Mountain Standpipe provides the storage volume in the Elder Mountain gradient. The standpipe is considered a pumped storage facility because the Cumberland Road booster station pumps water from the standpipe to the higher elevation customers within the Cumberland Road gradient. Therefore, approximately 90 percent, or 0.26 MG is considered effective storage. This volume is adequate for meeting the equalization and fire storage needs of 0.21 MG in the gradient. The fire storage is based on a 1,500 gpm fire flow for a 2-hour duration, or a volume of 0.18 MG.

6.4.4 Fire Flow Analysis

Fire flow analyses were performed by running the distribution system model during the maximum day demand condition to predict the available fire flow (AFF) at every hydrant. The fire flow analysis was run separately for each pressure gradient because the system settings, such as tank levels and pump operation, are specific for each gradient during a fire flow event. The predicted AFF represents the maximum flow available while sustaining 20 psi at all locations throughout the distribution system. The TDEC's "Community Public Water Systems Design Criteria" states that "the minimum pipe size to which a fire hydrant may be connected is 6-inch." In addition, it states that fire hydrants should be able to deliver a minimum of 500 gpm at 20 psi, and "system design should consider the recommendations of the state Insurance Services Organization."

The predicted AFFs in each of the gradients during the 2015 projected maximum day scenario are illustrated in **Exhibits E-3 to E-11** in **Appendix E**. These exhibits are intended to show the range of AFFs across each gradient, and highlight areas where the predicted AFF is less than 500 gpm. More detailed evaluation of specific areas can then be performed using the distribution model and mapping tools. In some cases, a low AFF is the result of a hydrant being connected to a main that is less than 6-inches in diameter. This may be the case where a low AFF is surrounded by hydrants with significantly higher AFFs. In these cases, it is recommended that TNAW consider upsizing the main that supplies the hydrant, or if possible, move the hydrant to a larger diameter nearby main.

Areas with predicted AFFs of less than 500 gpm are first identified. Many of these locations are associated with smaller diameter mains, or may be located in localized high elevation areas. Specific improvements are recommended to improve the AFFs to above 500 gpm in these areas, as feasible. When possible, the improvements also aim to address other distribution or transmission issues. For projects aimed only at improving AFFs through the replacement of small diameter mains, it is recommended that TNAW prioritize these projects as part of the long-term small and obsolete main replacement program. The AFFs should be considered as one of the factors in determining the priority for obsolete main replacements.

Some of the areas with AFFs less than 500 gpm are within the small, closed gradients serving localized high elevation areas. In the absence of storage in these closed gradients, and with pumping capacity limitations from the booster stations supplying the gradients, the AFFs may be limited. In some cases, it is possible to bypass the station pumps and serve the areas with higher flows, and this was included in the model simulations, where possible.

In addition to evaluating areas with AFFs less than 500 gpm, test locations surveyed by the Insurance Services Offices, Inc. (ISO) Commercial Risk Services in the past 10 years were evaluated. The ISO guidelines were used as another indication of the adequacy of the AFFs. These surveys generally represent specific locations of significantly higher target fire flows. The only two ISO surveys available for the Chattanooga system over the past 10 years were for Red Bank, TN and Lookout Mountain, GA. Flow guidelines identified for insurance evaluation by ISO ranged from 750 gpm to 1000 gpm in residential areas, and from 1250 gpm to 5000 gpm in commercial areas. Desired fire flows over 3500 gpm should be addressed by individual customers with their own on-site storage.

6.4.5 Power Outage Analysis

The ability to provide continued service in the event of a power outage was evaluated for each pressure gradient in the TNAW Chattanooga system under the 2015 and 2030 average day demand conditions. **Table 6-10** provides a summary of the emergency power facilities at the stations. The emergency power analysis is presented in **Table 6-11**. During a loss of utility power, each pressure gradient should have the ability to provide customers with a full day supply of water, assuming average day demands.

The only gradient showing an emergency power deficit is the Citico gradient at the Citico WTP. However, this deficit also impacts the ability to provide flows during a power outage to the Hill City, Mission Ridge, East Ridge and Rossville gradients. These gradients do not have adequate floating storage to meet all of the demands during a power outage and rely on standby pumping capacity to deliver flows. With no or limited flow from the Citico WTP during a power outage, and limited effective floating storage in the Citico gradient, the pumping capacity to these gradient would be significantly limited.

The generator located at the WTP is only for the treatment process and not for distributive pumping. The transformer located at the WTP is owned by the local power company, with supply from two substations. The ability to switch to a separate substation provides only limited additional reliability. Therefore, the improvements analysis includes a recommendation for standby power generators at the WTP for the high service pumps, as well as automating the switchover of electric services between substations.

A combination of emergency power and floating storage is shown to be adequate in the remaining major gradients for meeting the projected average day demands.

Table 6-10
Summary of Emergency Power Facilities

Gradient	Station	Emergency Power Provided	Equipment Operated
Citico	Citico WTP	None, but supplied from two electrical substations	None
Hill City	Hill City	Diesel motor for pump no. 8 (300 HP)	Pump no. 8 (5.3 mgd), when operated alone
Mission Ridge	Elmendorf	Portable generator ¹ ; quick disconnect	One pump (0.65 mgd)
	Mission Ridge	Diesel generator	All pumps (1.75 mgd firm capacity)
	S. Mission Ridge	Diesel generator	One pump (1.35 mgd)
East Ridge	New York	Diesel motor for pump no. 1 (200 HP)	Pump no. 1 (4.77 mgd)
	East Ridge	Diesel generator (725 kW)	All pumps (11.7 mgd firm capacity)
Ryall Springs	Ryall Springs	None	None
Rossville	Rossville	Diesel generator	One pump (2.3 mgd)
Lookout Mountain	Lookout Mountain	None	None
St Elmo	St Elmo	None	None
Elder Mountain	Elder Mountain	None	None

1. Six (6) portable diesel generators are available throughout the system.

The fourteen (14) small pressure gradients that serve localized high elevation areas do not contain distribution storage or dedicated emergency powered pumping capacity. In some cases, limited service can be provided at lower pressure by manually opening the booster station bypass. The installation of dedicated emergency power facilities and/or storage facilities within each of these gradients would be cost prohibitive based on the number of customers that would benefit. A portable diesel generator may be used to provide emergency power to a booster station supplying one of the small gradients during a power outage. TNAW also has two trailer-mounted portable pumps, each capable of supplying up to 250 gpm at 231 feet

TDH. These portable pumps have also been used to supplement pressure in localized areas following a main break, and to supplement flow in high elevation areas during peak demand periods.

Table 6-11
Emergency Power Analysis (mgd)

Gradient	Supply Station(s)	Standby Power Pumping Capacity	Effective Floating Storage Volume¹ (MG)	Total 24-Hr Standby Power Capacity	Year	Projected Avg Day	Standby Power Surplus / (Deficit)
Citico	Citico WTP	0.00	2.25	2.25	2015	35.91	(33.66)
					2030	34.27	(32.02)
Hill City	Hill City	5.30	1.38	6.68	2015	4.53	2.15
					2030	4.11	2.57
Mission Ridge	Elmendorf Mission Ridge S. Mission Ridge	3.75	0.41	4.16	2015	1.90	2.26
					2030	1.62	2.54
East Ridge	New York East Ridge	16.47	0.87	17.34	2015	9.84	7.50
					2030	10.77	6.57
Ryall Springs	Ryall Springs	0.00	0.56	0.56	2015	0.40	0.16
					2030	0.35	0.21
Rossville	Rossville	2.30	0.00	2.30	2015	1.17	1.13
					2030	1.15	1.15
Lookout Mountain	Lookout Mountain	0.00	0.98	0.98	2015	0.80	0.18
					2030	0.76	0.21
St Elmo	St Elmo	0.00	1.25	1.25	2015	1.11	0.14
					2030	1.00	0.25
Elder Mountain	Elder Mountain ²	0.00	0.10	0.10	2015	0.06	0.04
					2030	0.05	0.05

1. Does not consider pumped storage volume.

2. Water from the Elder Mountain standpipe is normally pumped to the customers from the Cumberland Road booster station. In the event of a power outage, the top 30 feet of the standpipe, or 0.10 MG, is still available as floating storage to the customers while maintaining a minimum of 30 psi at the highest elevation.

6.5 RECOMMENDATIONS

The analysis of the capacity of the piping network, pumping facilities and storage facilities, along with an evaluation of fire flow capabilities and emergency power adequacy, has resulted in a number of identified system deficiencies, as discussed in the previous sections. Improvements analyses were performed using the hydraulic model to determine recommendations that address the deficiencies and enable the system to provide adequate levels of service while meeting the projected demands through the planning horizon. The prioritized list of distribution projects and their detailed descriptions are included in Section 1.

A number of the highest priority projects address existing issues in the East Ridge gradient, one being the inability to fully utilize the Jenkins Road reservoir. This contributes to the storage deficit in the gradient and the issues with marginally low pressures in some areas. The recommendation to divide the gradient into an East Ridge – North and East Ridge – South gradient, along with the installation of PRV stations, will enable full utilization of the Jenkins Road reservoir. A new storage facility is then recommended for East Ridge – South to overcome the existing storage deficit and provide adequate storage capacity through the planning horizon. It will also enable more reliable service provision in the gradient with the delivery of higher flows to Catoosa UD. Significant transmission improvements are also recommended in the East Ridge gradient for delivery of the projected demands, especially the higher flows to Catoosa UD.

In the Mission Ridge gradient, the recommendation to install VFD motors on some of the Mission Ridge and South Mission Ridge booster pumps will provide more consistent pump operation and flows from these stations. The pumps frequently cycle on and off based on the water level in the Mission Ridge and South Mission Ridge standpipes. The replacement of pumps that are not adequately sized is also recommended. Piping improvements are recommended in the gradient to improve transmission and fire flows, and to enable better sharing of the pumping and storage capacity between the South Mission Ridge and Mission Ridge areas of the gradient. The option to construct a new storage facility in the gradient was evaluated. However, it was not considered feasible, due primarily to the lack of open space at suitable elevations. The recommended improvements to the booster pumps and the piping improvements enables the booster stations to deliver fire flows into the gradient drawing on storage from the Citico gradient.

A second transmission main is recommended to the Hill City booster station, which will reduce the marginally high flow velocities and also provide service reliability with a second

transmission feed to the station. The pumping capacity at the Hill City booster station is shown to be adequate for meeting the demands through the planning horizon. The loss of Walden's Ridge UD as a resale customer lowers the demands in the gradient, and alleviates the need to upgrade the pumping capacity.

A number of areas are recommended for improvements to increase the AFF where the existing AFF is below 500 gpm. In some cases, only small improvements are necessary to increase the AFF, such as replacing a short section of small diameter main, or moving a hydrant to a larger nearby main. Other areas include more significant pipe installations.

A significant number of areas in the system experience high service pressures above 200 psi and even a few areas above 300 psi. This is due to the large variation in ground elevations within the gradients. In a few areas, the recommendation to move some customers to an adjacent gradient enables the delivery of more desirable pressures. The possibility of installing additional PRV stations within the Lookout Mountain gradient was evaluated as a method of reducing the excessively high pressures. Up to approximately seven PRV stations could be installed. However, this has the negative effect of reducing the AFFs in the gradient. Further evaluation of alternatives for managing the high pressures is recommended, to include the installation of more PRVs on individual residences.

The storage recommendation in the East Ridge gradient is included to overcome the existing and projected deficit in equalization and fire reserve capacity. The other gradients are shown to have adequate equalization and fire reserve storage volumes. One exception is the Rossville gradient, which does not have any distribution storage, and continued operation in this manner is recommended. As noted, the deficit in the Mission Ridge gradient is addressed through the ability to pump the needed fire flows through the booster stations using storage from the Citico gradient. In addition to the equalization and fire reserve storage needs, consideration is given to the need to provide additional service reliability across the system through the availability of additional storage capacity. Modifications to some high elevation areas in the Citico gradient are recommended to increase the effective storage volume of the existing Citico reservoirs. In addition, storage improvements are recommended to provide additional volume in the system for service reliability and additional response time in the event of a critical failure at the Citico plant or other major emergency.

In addition to the larger capital projects, the flow metering equipment should be checked and replaced, if necessary, at the following stations: Hill City booster, Lookout Mountain booster

and East Ridge booster. It is known that the flow meters at the Hill City booster are inaccurate. At the other stations, there were some noted discrepancies between the field flows and the expected flows based on the pump operation. It is important to have accurate flow metering to track the pumpage into the various gradients. It is also recommended to provide an accurate flow meter to Catoosa UD which can also be trended on SCADA.

Pump Gallery ▶



◀ Pump No. 19

Pump No. 18 ▶



◀ Pump No. 16

TNAW
CHATTANOOGA

Citico WTP
High Service Pumps

Exhibit 6-2



Building

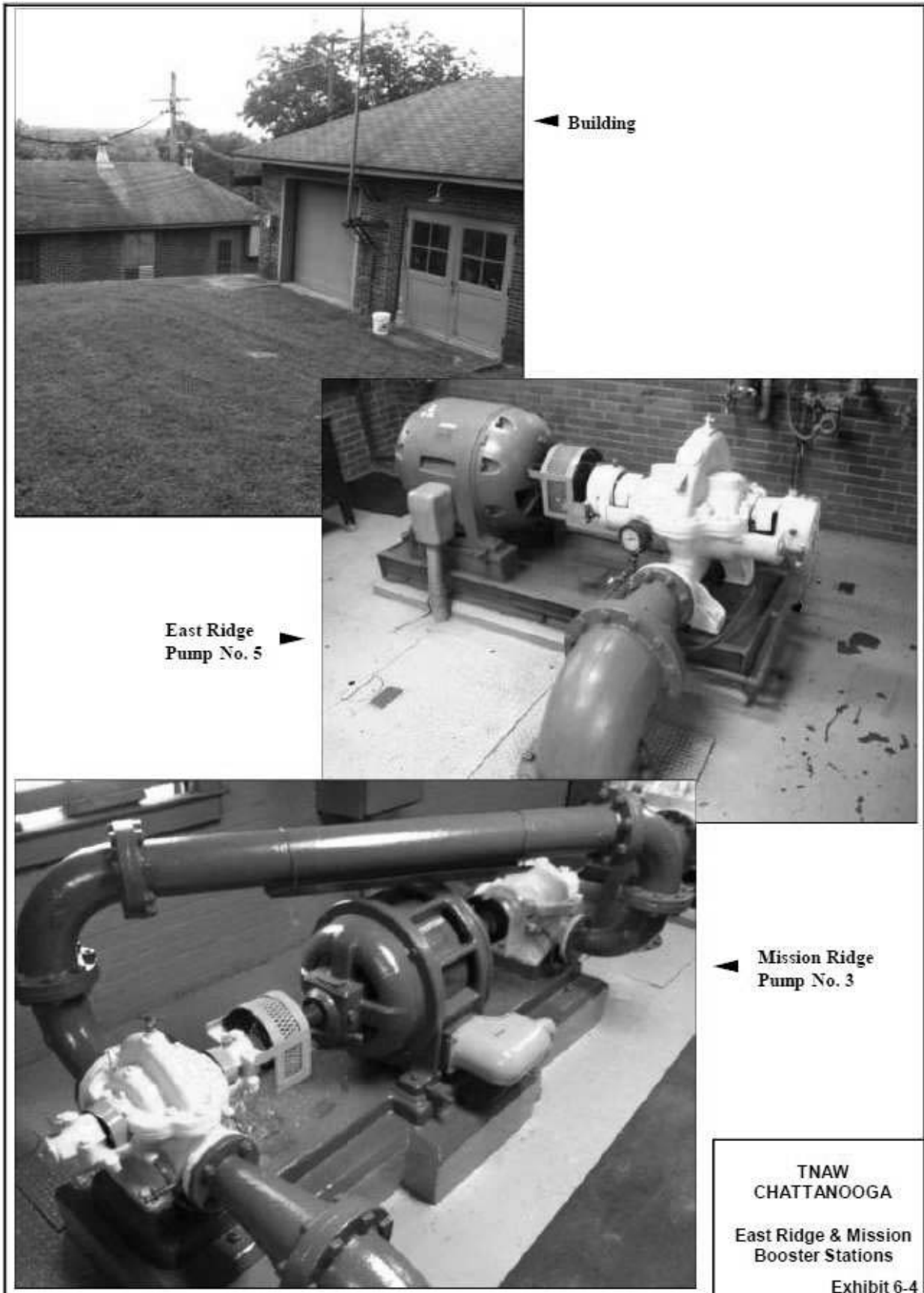
Pumps

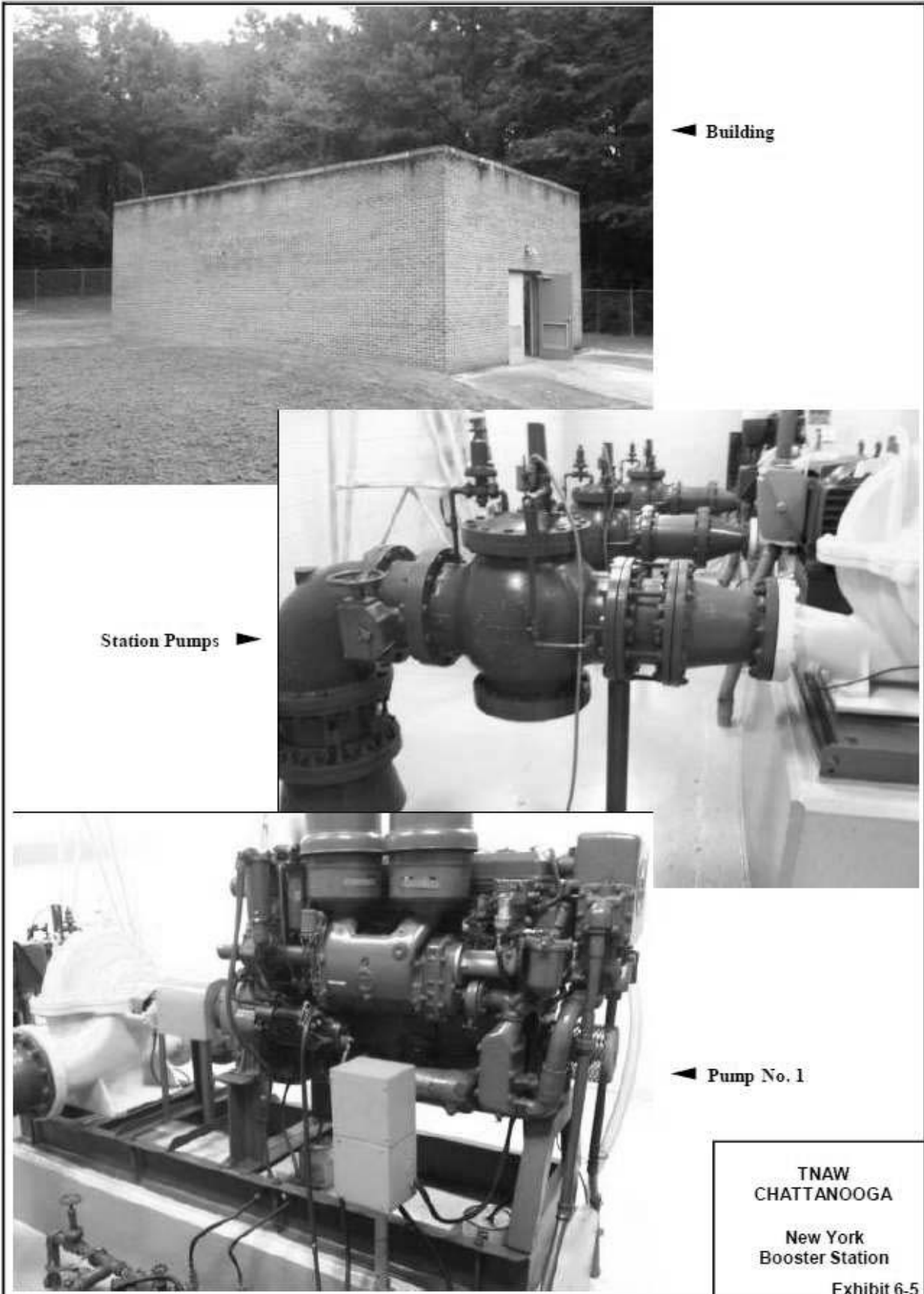


TNAW
CHATTANOOGA

Elmendorf
Booster Station

Exhibit 6-3







◀ Building

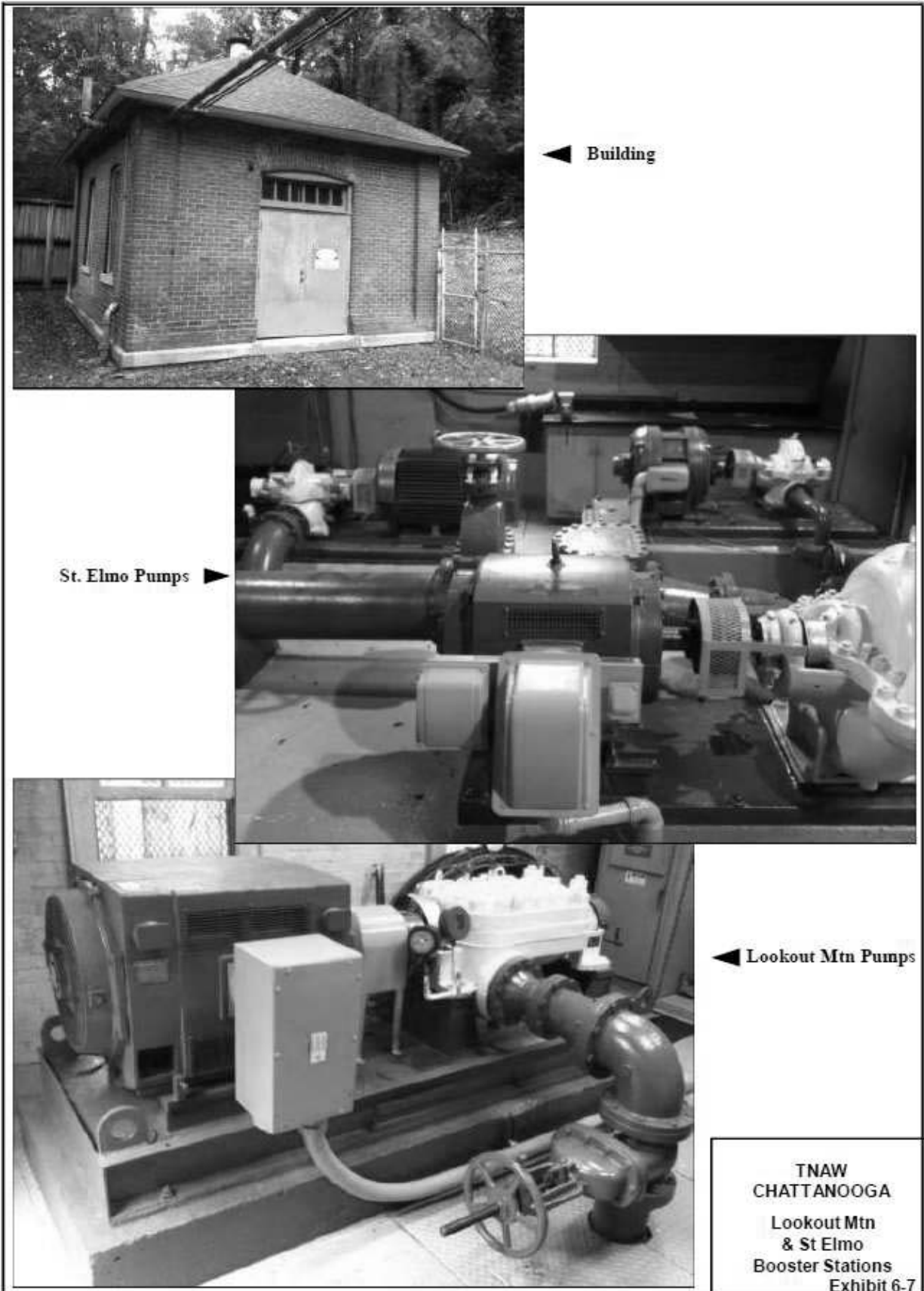


South Mission Ridge Pumps ▶



◀ Rossville Pumps

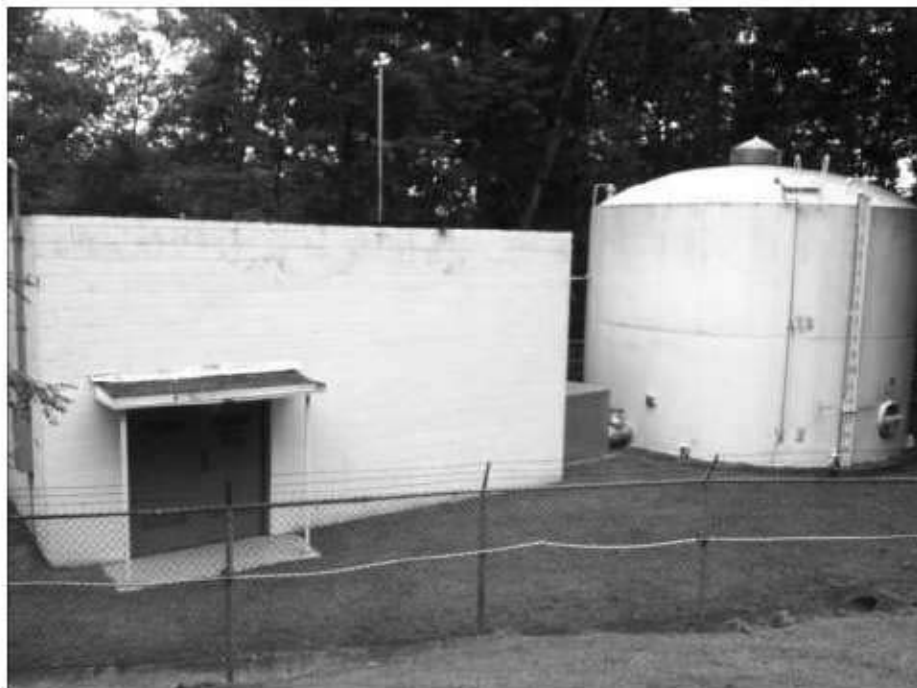
TNAW
CHATTANOOGA
South Mission Ridge
& Rossville
Booster Stations
Exhibit 6-6





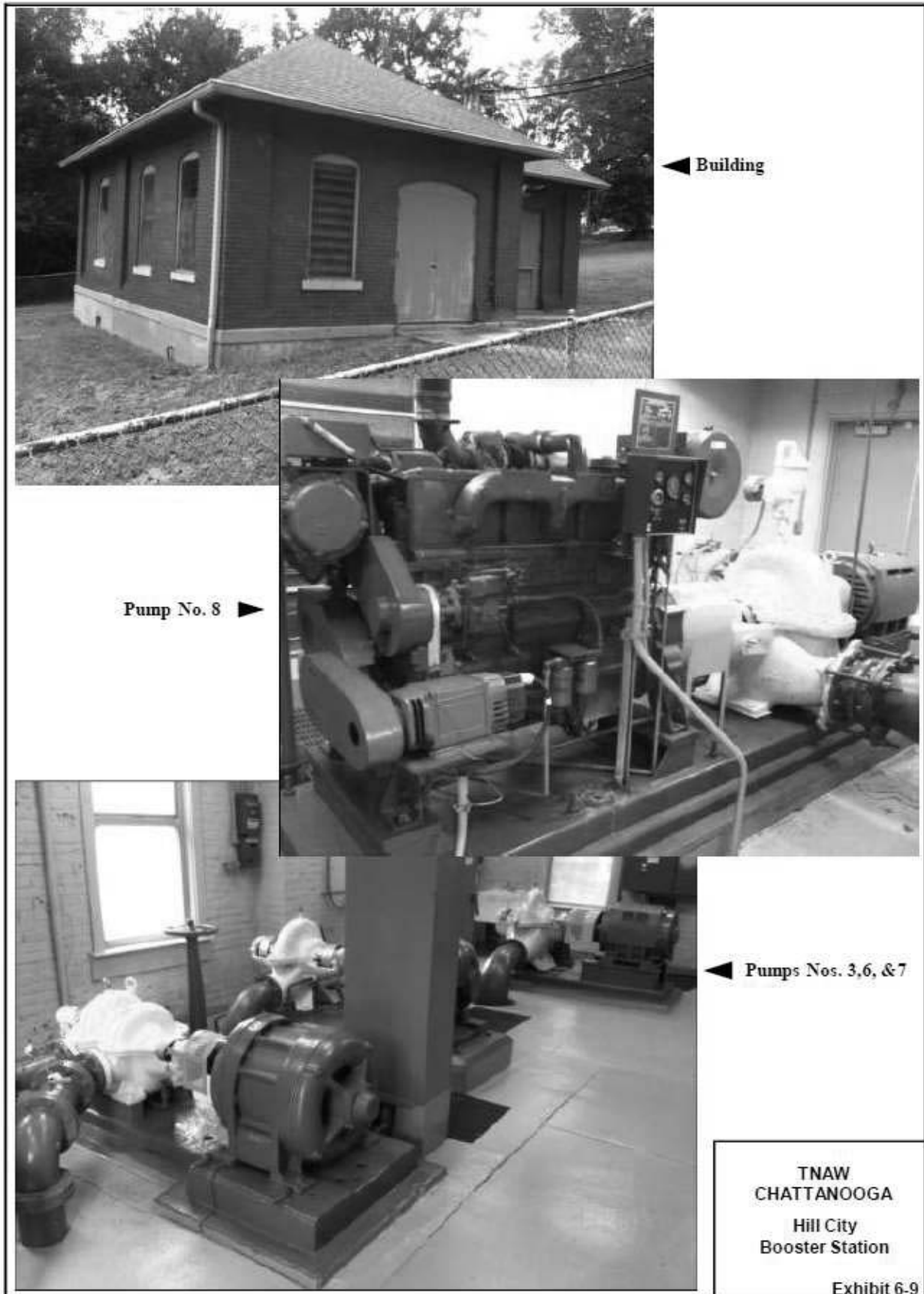
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Pumps

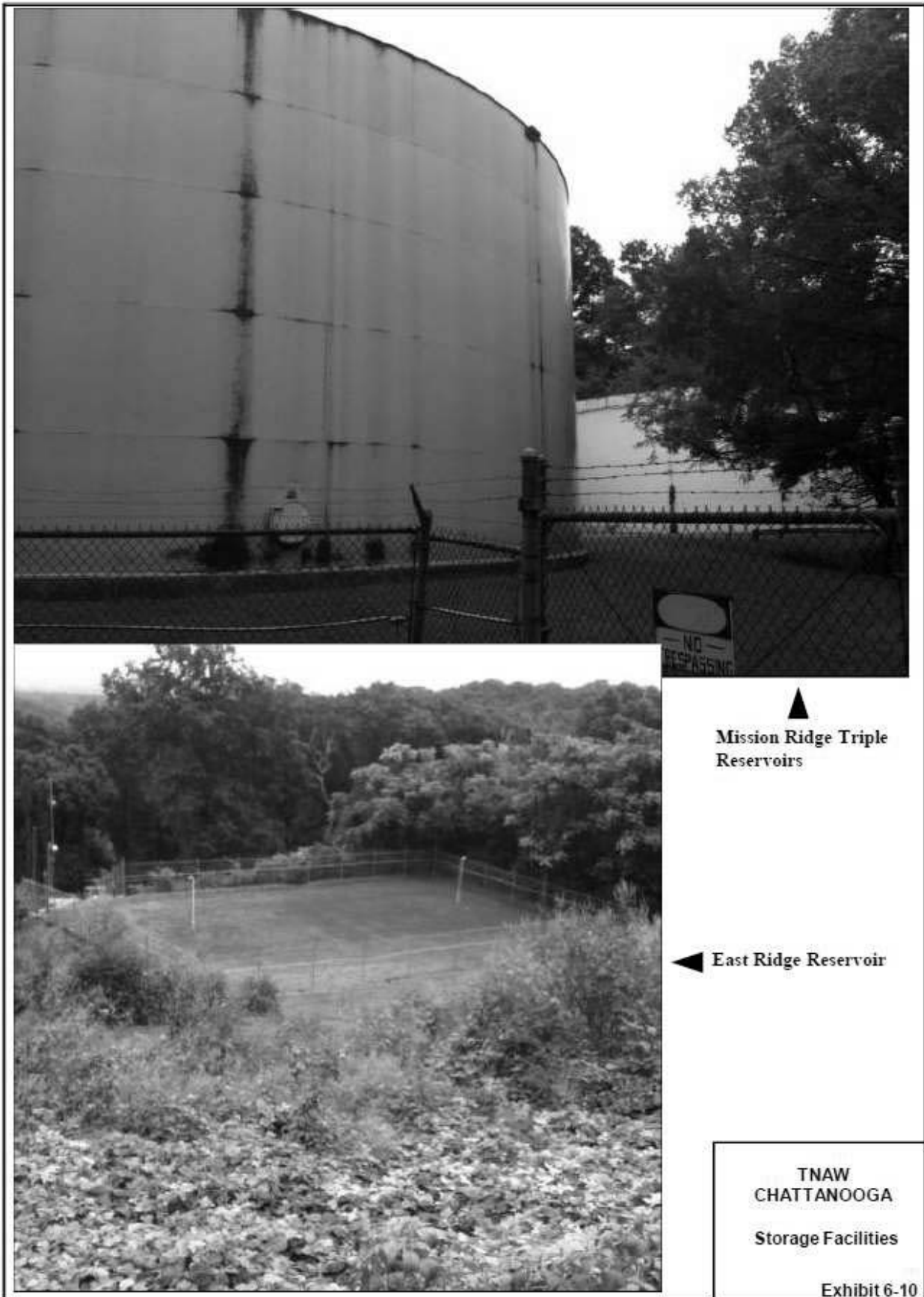
Building & Receiving Tank
▼

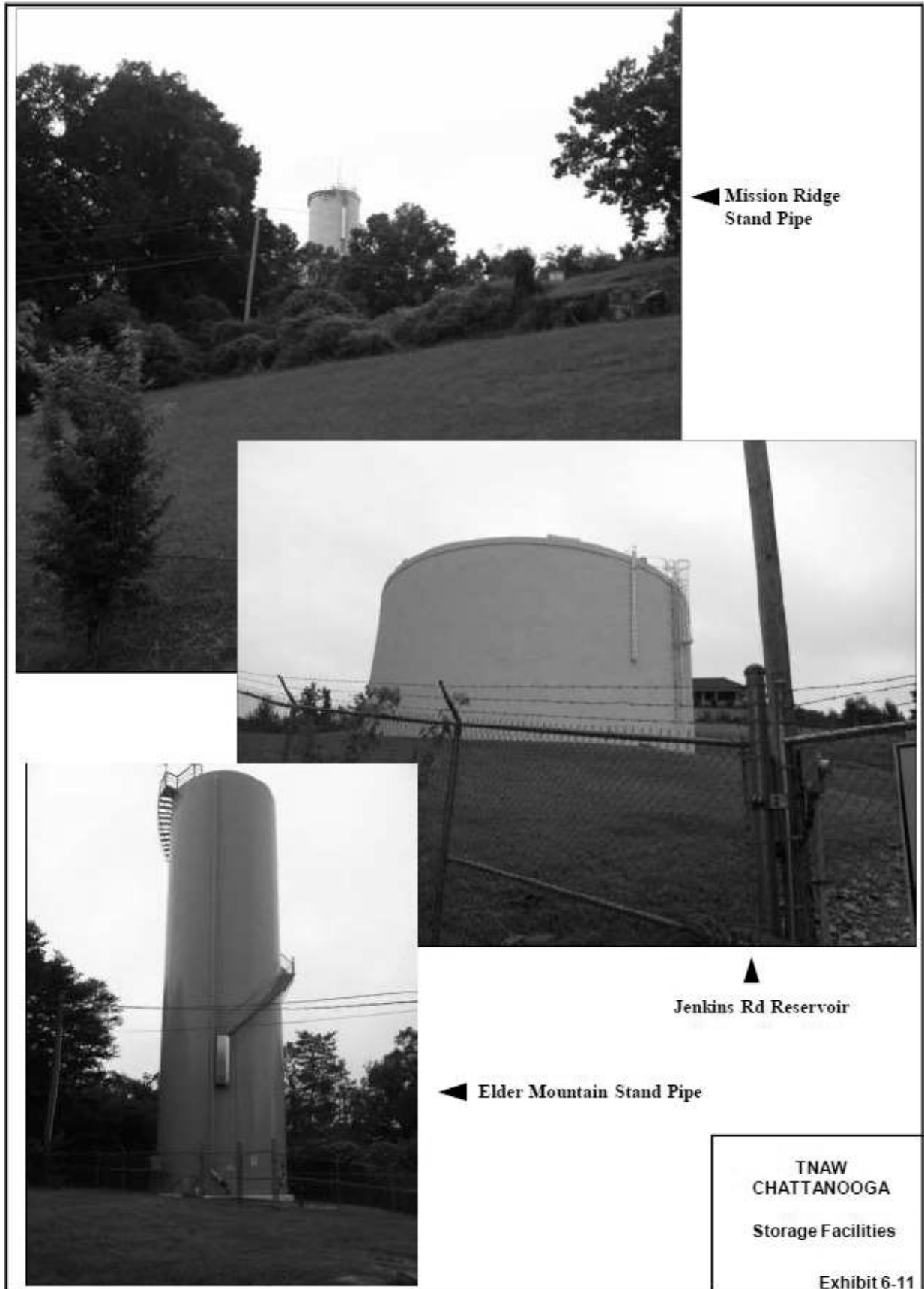


TNAW
CHATTANOOGA
Elder Mountain
Booster Station

Exhibit 6.8







SECTION 7

EMERGENCY PLANNING ASSESSMENT

7.1 OUTAGE ASSESSMENT

The system's ability to respond to a major asset failure was assessed as part of this study and is presented in this section. Such an event could result from contamination of the raw water supply, a failure of key system(s) or a security threat. While the facilities are designed with reliability and redundancy per engineering standards, it is appropriate to look at how the system would respond to an unexpected asset failure causing a widespread impact. This analysis can be used within the Emergency Response Plan updates. Power outage scenarios are discussed separately in Sections 5 and 6.

7.1.1 Approach

The following approach was used to assess the system's ability to maintain customer service at reduced demand rates during an emergency:

- Can the system operation maintain a supply level equivalent to the minimum indoor use so as to enable the customer to remain in their residence?
- Is the "Time to Deplete" system storage > "Time to Recover"?
- What response timeframe is available using storage and interconnections at minimum demand level?

7.1.2 Basis

Two scenarios were examined in this analysis. First, the system was reviewed based on AW planning guidelines. A minimum month demand of 31.7 mgd was selected as the recommended basis for the targeted minimum service level. Likewise, the available system storage was set at 75% of effective storage to account for the possibility that tanks may not be full when an event occurs. The preferred operation would be to not completely drain the tanks. This evaluation accounts for variations within reasonable operating ranges and assumes that demands can be reduced to minimum month levels using normal utility management approaches.

The second analysis scenario is specific to Chattanooga based on Tennessee guidelines. In this scenario, the average daily demand is compared to system capacity with loss of the primary treatment plant.

7.1.3 Resiliency Level

The ability to withstand a major facility outage or failure is in part dependent on the volume of stored finished water in the distribution system and the capacity of the interconnections. **Table 7-1** and **Exhibit 7-1** illustrate the window of response time available under current conditions until storage is depleted. **Table 7-2** and **Exhibit 7-2** illustrate the window of response available after improvements are constructed.

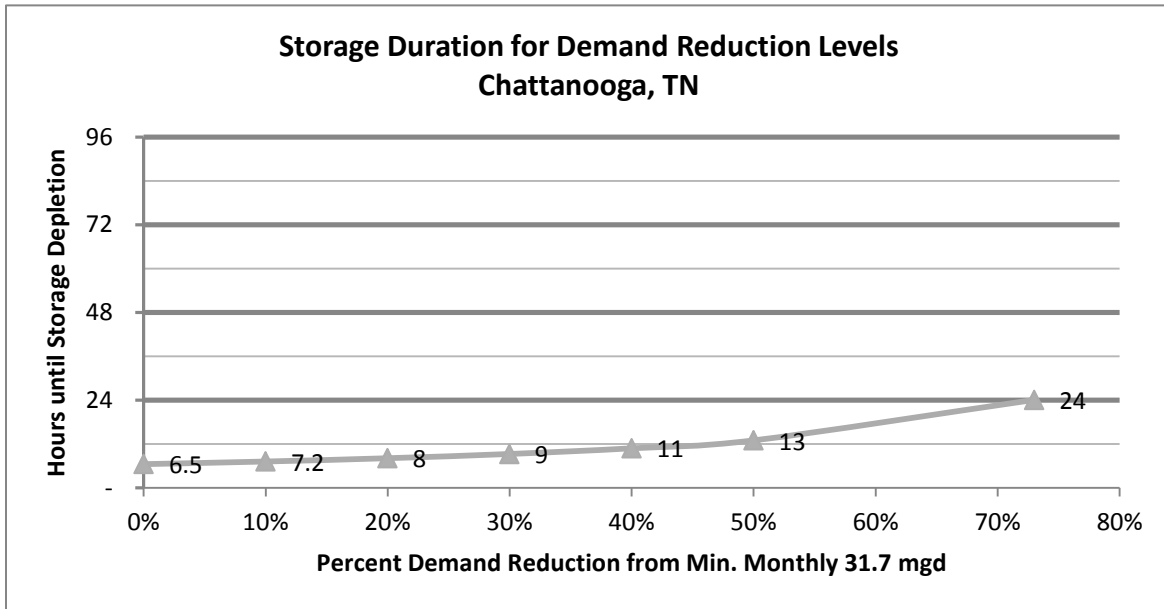
Assumptions: This analysis is intended to provide a system wide view and examines water volumes and flows across the service to assess overall customer impact. The amount of storage available and the demand reduction levels achieved within each gradient will vary. Likewise, the ability to deliver water between gradients either by permanent or temporary pumping would need to be assessed during ERP updates. An assessment by individual gradients is shown in **Table 7-3**.

The available response time window for this system is less than desirable for implementing emergency procedures. Several projects are recommended in the study to increase the system storage and to upgrade interconnections with neighboring utilities to increase the response window to 16 hours under the AW guideline for the minimum month scenario and the 24 hour guideline under the Tennessee EPA/DEC rules.

Table 7-1				
Response Time Window Under Current Conditions				
	Current Condition			
	Min Month		Ave Day	
Demand Condition (MGD)	31.7	MGD	36	MGD
Interconnection #1 Capacity (MGD)	0	MGD	0	MGD
Interconnection # 2 Capacity (MGD)	0	MGD	0	MGD
Capacity w/o Intake / Plant (MGD)	0	MGD	0	MGD
25% of Clearwell capacity (MG)	1.34	MG	1.34	MG
Total Storage Volume (MG)	22.37		22.4	MG*
Total Effective Storage Volume (MG)	11.3	MG	11%	
Storage Utilized (%)	75	% Eff	100	% total +CW
Storage Utilized (MG)	8.4	MG	23.7	MG
Available Response Window Using Storage & Interconnections	6.4	hours	15.8	hours

*not including clearwell storage

Exhibit 7-1
Response Time Window Available for Level Achieved in Usage Reductions



The following outlines the recommended improvements to the Critical Asset Management Plan.

Critical Asset Management Plan

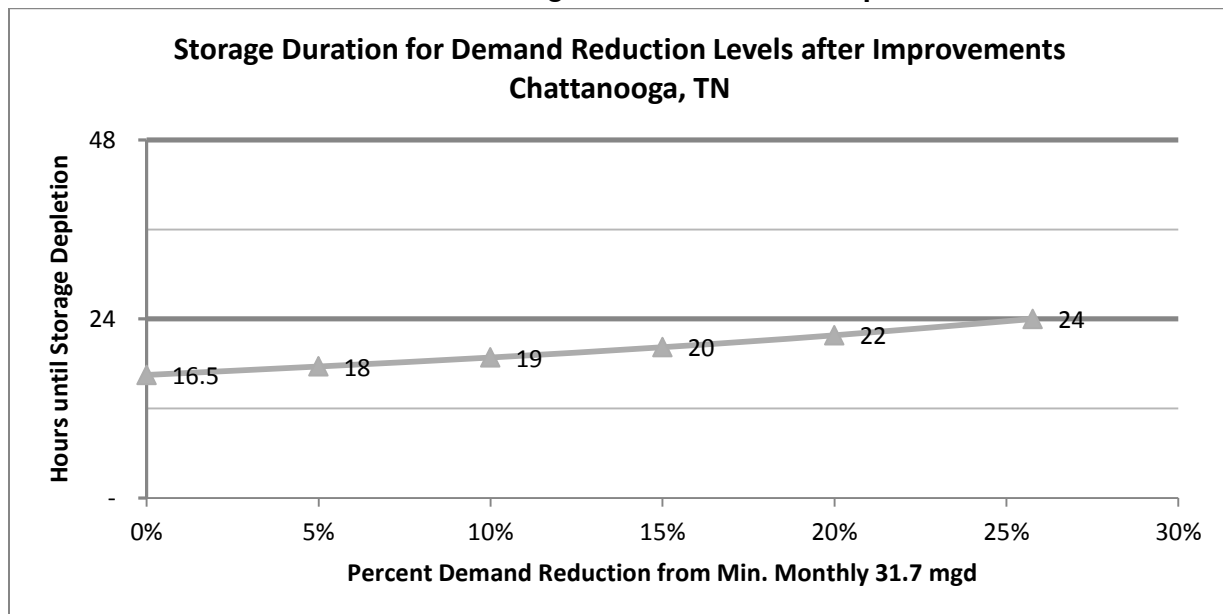
- 1) Update ERP annually including demand reduction plan & temporary equipment deployment plan.
- 2) Deploy bottled water distribution plan.
- 3) Perform table top exercise to simulate loss of critical assets & associated response.
- 4) Enter into discussions with neighboring utilities to upgrade and establish interconnections.
- 5) Perform hydraulic modeling analysis as part of ERP preparedness to determine strategy to deliver water between gradients.
- 6) Develop a relationship with railway owner to obtain a density study to identify potential contaminants.
- 7) Update Source Water Protection Plan using GIS applications and install water quality monitor at intake.
- 8) Develop an emergency sourcing plan for a temporary alternate intake (floating pump station).
- 9) Initiate a river modeling study to determine quality of water across the river during contamination event.
- 10) Pending the success of #4, upgrade the interconnections.
- 11) Pending the results of #9, advance the concept of a new intake on the Tennessee River.
- 12) Implement system storage improvements per CPS recommendations.
- 13) If #4, 9 are not successful, re-evaluate alternatives presented in this plan.

Table 7-2 Storage Window after Improvements				
	After Improvements**			
	Min Month		Ave Day	
Demand Condition (MGD)	31.7	MGD	36	MGD
Interconnection #1 Capacity (MGD)	2.7	MGD	2.7	MGD
Interconnection # 2 Capacity (MGD)	2.6	MGD	2.6	MGD
Capacity w/o Intake / Plant (MGD)	5.3	MGD	5.3	MGD
Clearwell capacity (MG) @25%			1.34	MG
Total Storage Volume (MG)	29.4		29.4	MG*
Total Effective Storage Volume (MG)	24.3	MG**		
Storage Utilized (%)	75	% eff	100	% total + CW
Storage Utilized (MG)	18.2	MG	30.7	MG
Available Response Window using storage & Interconnections	16.5	hours	24.0	hours

*not including clearwell storage

**7MG of new storage plus improvements to utilization

Exhibit 7-2
Response Time Window Available for
Level Achieved in Usage Reductions after Improvements



Resiliency by Gradient

The resiliency within each gradient was also reviewed. **Table 7-3** shows the current response time window available using storage if the supply was lost. **Table 7-4** shows the available response time following implementation of the recommendations in this study. Recommendations include additional storage in the East Ridge and Citico gradients. Additional local piping and pumping improvements are recommended in the Citico gradient to increase the effective storage volume in existing tanks.

Table 7-3 Storage Criticality Analysis				
Existing System				
Gradient	Average Demand¹ (mgd)	Reduced Demand (mgd)	Effective Storage Volume (MG)	Hours Supplied from Effective Storage (hrs)
Citico ²	16.64	15.06	4.50	7.2
Hill City	4.27	3.87	1.76	10.9
Mission Ridge	1.75	1.58	0.41	6.2
East Ridge	10.16	9.19	1.73	4.5
Ryall Springs	0.37	0.34	0.56	39.8
Lookout Mountain	0.77	0.70	0.98	33.5
St Elmo	0.99	0.90	1.25	33.5
Elder Mountain	0.06	0.05	0.26	125.7
TOTAL	35.00	31.68	11.45	

Demand Level: 90.5%

1. The 2020 projected average demand of 35.00 mgd is used in the table. The projected 2015 average demand is 35.75 mgd and the 2030 projected average demand is 34.27 mgd.
2. The Citico gradient demand includes the Rossville gradient demand because no storage is provided in the Rossville gradient. The Rossville booster station delivers the instantaneous flows to the gradient, effectively drawing from storage in the Citico gradient. A diesel generator provides standby power at the Rossville booster station.

Table 7-4 lists the available storage and response times following completion of the recommended improvement projects. This improvement plan will add 14.9 MG of effective storage to the system to enhance TAWC's resiliency.

Table 7-4 Storage Criticality Analysis						
With Storage Improvements						
Gradient	Average Demand¹ (mgd)	Reduced Demand (mgd)	Effective Storage Volume (MG)	Hours Supplied from Effective Storage (hrs)	Recommendation for Effective Storage Increase (MG)	Recommended Projects
Citico ^{2,3}	18.38	16.64	13.81	19.9	8.90	A-3, B-1
Hill City	4.27	3.87	2.76	17.1	1.00	B-1
Mission Ridge ³	1.75	1.58	0.41	6.2		
East Ridge	10.16	9.19	6.73	17.6	5.00	A-1, A-2, B-1
Ryall Springs	0.37	0.34	0.56	39.8		
Lookout Mountain	0.77	0.70	0.98	33.5		
St Elmo	0.99	0.90	1.25	33.5		
Elder Mountain	0.06	0.05	0.26	125.7		
TOTAL	35.00	31.68	26.35		14.90	
Demand Reduction		90.5%				

1. The 2020 projected average demand of 35 mgd is used in the table. The projected 2015 average demand is 35.75 mgd and the 2030 projected average demand is 34.27 mgd.

2. The Citico gradient demand includes the Rossville gradient demand because no storage is provided in the Rossville gradient. The Rossville booster station delivers the instantaneous flows to the gradient, effectively drawing from storage in the Citico gradient. A diesel generator provides standby power at the Rossville booster station.

3. It is not feasible to construct new storage in Mission Ridge due to limited available space at the needed elevations, so some storage from Citico must be pumped to Mission Ridge; therefore, the Mission Ridge gradient is combined with the Citico gradient for the criticality analysis.

APPENDIX A
PLANNING CRITERIA

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1.0 OVERVIEW

The purpose of the Comprehensive Planning Study is to recommend capital improvements that enable American Water to:

- continue to provide safe, adequate and reliable service to customers in its service territory
- meet domestic, commercial and industrial customer demand, and
- enhance fire protection capability.

The engineering criteria used to evaluate various system components are detailed in the following subsections. Note that all American Water systems are unique and some of the following sections may not be applicable to certain water systems. For example, surface water system criteria are not applicable for systems supplied solely by groundwater.

2.0 ENGINEERING CRITERIA

In planning the needed water facilities, accepted engineering standards and practices are utilized to evaluate facilities. Using these standards and practices, an assessment is made to determine if adequate capacity and an appropriate level of reliability are present for domestic, commercial, industrial usage, and fire protection needs.

Specific details regarding the planning criteria utilized are provided in the following subsections. Recommendations included in this Comprehensive Planning Study address improvements that work towards meeting the planning criteria described above. In addition, recommendations are included in this report where structural or mechanical problems with existing facilities are evident.

It is beyond the scope of this Comprehensive Planning Study to attempt to identify the end of the useful life of each piece of American Water's equipment; for example, the many miles of pipeline within a distribution system. Also, capital expenditures will occur over time due to normal aging and operational wear on existing equipment, and to enhance system security. For this and various other reasons, it is expected that American Water may encounter additional capital expenditures beyond those identified in this Comprehensive Planning Study.

2.1 Customer & Demand Projection Methodology

Projections of the total number of customers and their associated demands are developed for the water system over a fifteen-year planning horizon. Since each water system is unique, the specific techniques used to project both customers and demands vary as appropriate. In general, the projections are developed based on a review of population trends, historic customer and demand data, and local planning commission forecasts. Large customers may be interviewed by telephone, or are asked to complete surveys of current and potential water consumption. Discussions are held with water system personnel, either in conjunction with field visits to the system and/or via telephone. More specific methods used to develop both customer and demand projections are discussed below.

Three projections of water demand are developed for the water system, referred to as the Low Growth scenario, Most Likely Growth (or Base) scenario, and High Growth scenarios. These

three projections represent the forecast range of water demands that may occur over the 15-year planning period. The three water demand projections are generated by considering different forecasts of residential customer growth, increases in (or decline of) major commercial and industrial customer water consumption, and various levels of non-revenue water.

Long term per customer water use is anticipated to be impacted water efficiency trends resulting from the passage of the federal Energy Policy Act in 1992 (EPAct) and the Energy Independence and Security Act of 2007. In 1992, it was anticipated that over the next 20-25 years, water utilities in the U.S. would realize demand reductions as a result of the national water efficiency requirements that were set by the EPAct. The efficiency requirements set maximum use levels for toilets (1.6 gallons per flush (gpf), urinals (1 gpf), showerheads (2.5 gallons per minute (gpm) and faucets (2.5 gpm). These efficiency standards applied to plumbing fixtures in new and renovated residential and non-residential facilities. The EPAct standards will have a cumulative and long term impact on lowering future indoor water usage as existing fixtures are gradually replaced.

AW has already seen savings on indoor residential consumption in the range of 10-17% over the last 12 years due to the Energy Policy Act requirements. Based on a thorough analysis of trends across AW, a 1% annual reduction in existing residential consumption is expected to result from the Energy Policy Act and The Energy Independence and Security Act of 2007 mandating lower flow plumbing fixtures and appliances in new homes and renovations, see **Table A-1**. Based on an assumed appliance lifetime and the years the new regulations on dishwashers and clothes washers take effect, the effects could be noticeable for another 10-15 years. Therefore this reduction should be considered (at a minimum) in planning analyses over the next 10-15 years before leveling off.

TABLE A-1

Flow rates from typical fixtures and appliances before and after Federal Standards

Type of Use	Pre-Regulatory Flow*	New Standard (maximum)	Federal Standard	Year Effective	WaterSense / ENERGY STAR Current Specification+ (maximum)
Toilets	3.5 gpf	1.6 gpf	U.S. Energy Policy Act	1994	1.28 gpf
Clothes washers**	41 gpl (14.6 WF)	Estimated 26.6 gpl (9.5 WF)	Energy Independence & Security Act of 2007	2011	Estimated 16.8 gpl (6.0 WF)
Showers	2.75 gpm	2.5 gpm	U.S. Energy Policy Act	1994	2.0 gpm
Faucets***	2.75 gpm	2.5 gpm (1.5 gpm)	U.S. Energy Policy Act	1994	1.5 gpm at 60 psi
Dishwashers	14.0 gpc	6.5 gpc for standard; 4.5 gpc for compact	Energy Independence & Security Act of 2007	2010	4.25 gpc for standard; 3.5 gpc for compact
Commercial Pre Rinse Spray Valves	1.8 to 6 gpm	1.6 gpm	U.S. Energy Policy Act of 2005	2006	Under development

* Source: *Handbook of Water Use and Conservation*, Amy Vickers, May 2001

** Average estimated gallons per load and water factor (see calculations)

*** Regulation maximum of 2.5 gpm at 80 psi, but lavatory faucets available at 1.5 gpm maximum (see calculations)

+Source: <http://www.epa.gov/watersense/> and <http://www.energystar.gov> websites

ABBREVIATIONS USED	
gpcd	gallons per capita per day
gpf	gallons per flush
gpl	gallons per load
gpm	gallons per minute
gpc	gallons per cycle
WF	water factor, or gallons per cycle per cubic feet capacity of the washer (the smaller the water factor, the more water efficient the clothes washer)

Trends in Residential Consumption

Residential customer growth is projected based upon trends in historic customer figures as well as population and housing forecasts developed by state, county, and/or local planning agencies. The Low Growth scenario, Most Likely Growth scenario, and High Growth scenario projections of customer growth are developed to cover the range of potential increases. In some water systems, where growth is minimal, the Low Growth scenario may indicate that the residential customer base will remain constant or decline. Customer forecasts also account for new home construction, connection of existing homes on private water supplies to the water system, and acquisition of adjacent water systems.

Per customer residential usage in gallons per customer per day (gpcd) is projected based upon historic use patterns, consideration of the impacts of both existing and future water conservation efforts, and any potential changes in the number of persons per household.

Trends in Commercial Consumption

Projections of commercial customers and water demand are based primarily on historic trends. Growth in commercial water demand generally follows residential growth trends, as commercial development typically goes hand-in-hand with residential growth. One parameter that is considered in projecting commercial usage is the historic relationship between residential customers and commercial customers. Where confirmed major changes in commercial activity are identified (e.g., a large office complex or shopping center), appropriate figures are incorporated into the projections.

Trends in Industrial Consumption

As in the commercial category, industrial water demand projections are also dependent on historic usage trends. However, since there are typically far fewer industrial customers than commercial customers, it is easier to identify changes in water demands by the major industries, and thus forecast industrial water demand. The projected water usage for key industrial customers is based in part on information obtained through interviews conducted by water system personnel familiar with the service area.

Trends in Other Public Authority Consumption

Additional water efficiency is anticipated in the federal government sector with the introduction of the following executive order. Executive Order (EO) 13514, "Federal Leadership in Environmental, Energy, and Economic Performance," was signed on October 5, 2009. EO 13514 introduces new greenhouse gas (GHG) emissions management requirements, expands water reduction requirements for federal agencies, and addresses waste diversion, local planning, sustainable buildings, environmental management, and electronics stewardship. EO 13514 enhances EO 13423, which requires agencies to reduce energy and water intensity and achieve other sustainability goals. This EO also defines specific water conservation criteria to reduce potable water consumption intensity 26 percent by FY 2020, compared to an FY 2007 baseline (This extends the water consumption intensity reduction requirement of EO 13423 by five years.) and reduce industrial, landscaping, and agricultural water use 20 percent by FY 2020, compared to an FY 2010 baseline. Based on an analysis of trends across AW, a 2.5% annual reduction in existing other public authority consumption occurred over the last 10 years

presumably resulting from the Executive Orders discussed above in addition to the Energy Policy and Energy Independence and Security Acts see **Table A-1**.

Non-revenue and Unaccounted-for Water

Non-revenue water is projected based on historic annual data and discussions with water system personnel regarding future activities in these classifications. Non-Revenue water is defined as the difference between the total system delivery and the sum of all billed authorized (metered) consumption. It includes water for fire fighting, street cleaning, main flushing, and identifiable leakage or unbilled authorized consumption as well as water losses. Unbilled Authorized consumption includes usage such as: fire fighting, street cleaning, main flushing, and other beneficial uses that are not typically metered, but can be estimated. Water losses are defined as the difference between the total system delivery and the sum of all metered sales, and unbilled authorized consumption.

Maximum Day to Average Day Demand Ratios

The average day demand projections are determined from a summation of forecasts for the individual classifications. Future maximum day to average day demand ratios are estimated using a statistical analysis of historic data. Both a point estimate and an interval estimate of this ratio are determined. The point estimate is the median value of the ratio over the chosen historic period, and represents a value for which past ratios were above this value 50% of the time, and at or below this value 50% of the time. While this level may be adequate to estimate annual operational parameters, the level is not adequate on which to base long-term capital planning decisions. Rather, American Water's long-range forecasts utilize the criteria that facility planning should be based upon meeting projected maximum day customer demands with a 95% confidence level, where supply availability and affordability constraints don't dictate a lower confidence level. The confidence level value of 95% represents a level that is not expected to be exceeded more than once in 20 years. Planning facilities for a higher confidence level (e.g., in 20 of 20 years) would result in higher capital costs for small incremental gains in reliability.

To define the maximum day to average day demand ratio that will not be exceeded in a given number of years, an interval estimate around the mean value of this ratio is determined. The interval estimate defines the interval of values that the maximum to average day ratio will fall within for a certain degree of confidence. Several confidence intervals, namely the 99%, 95%, 50% and 5% intervals, are evaluated to illustrate the probable variation in maximum day demands that will likely be experienced during the planning period. Each confidence interval is calculated based upon multiplying the mean value (plus or minus the standard deviation) by a reliability coefficient.

2.2 Source of Supply Analysis Methodology

American Water's sources of supply should have the necessary quantity of water to meet the projected system demand, and be of good enough quality to provide finished water after treatment that complies with all Federal and State regulations. Cost effective water efficiency and demand side management options should be maximized prior to developing new sources of water.

The quality of the water from source of supply is regularly monitored for routine wet chemistry parameters such as pH, turbidity, alkalinity, parasites, microbes, etc., as well as for potential chemical contaminants in order to optimize the chemical treatment process.

State and American Water's standards are applied (whichever is more stringent) when evaluating the adequacy of supply. Sources of Supply should have the necessary quantity of water to supply the system's needs and be of good enough quality to provide, through treatment, finished water that meets all Federal and State regulations.

River supplies are considered adequate when the low flow of record is greater than or equal to the maximum day demand plus required passing flows. Surface reservoirs or lakes should have a safe yield sufficient to meet the average day demand during the critical drought period, based on an event with a recurrence interval of no less than one in fifty years. Groundwater supplies should have a safe yield sufficient to meet the average day demand during the critical drought period without overdrafting the supplying aquifer, based on an event with a recurrence interval of no less than one in fifty years. Sources of supply should also have sufficient allocation rights to permit average and maximum demands to be met.

2.3 Source Water Quality and Watershed Protection

The quality of surface water is affected by the amount and types of activity in watersheds that feed surface water sources. Runoff from farmland and urbanized area storm water, discharges from sewage treatment plants and industrial plants, and accidental spills in the water body can adversely impact raw water quality.

A source water monitoring program is maintained to ensure the quality of the finished water, and to control the costs associated with treating the water supply. The program is designed to define the potential for water quality impacts from both point and non-point sources. Watersheds are actively monitored through routine sampling of various raw water quality parameters. For surface supplies, monitoring activities are coordinated with local, state and federal authorities, and communication procedures have been established in the event of a contamination incident.

Raw water testing is performed by American Water's laboratory in Belleville, Illinois. Selected contaminants of concern include: inorganics, metals, minerals, pesticides, priority pollutants, synthetic and volatile organic chemicals, and microbiological and radiological parameters. A brief summary of some key parameters is provided in the Source of Supply and Production Section of this report to provide an indication of general water quality.

2.4 Treatment Facility Evaluation Criteria

Production facilities are defined as those used in raw water acquisition, transmission, treatment and pumping. Recommendations for capital improvements were developed after evaluating American Water's ability to provide a reliable and high quality water supply, to ensure continued compliance with existing and anticipated federal and state water quality and environmental regulations, and to meet projected customer demands through the planning period.

The goal of American Water is to continue to produce high quality water that meets or surpasses federal and state water quality standards. However, the characteristics of each individual source of supply require a diversity of treatment techniques including: disinfection,

corrosion control, pH adjustment, and complete clarification/filtration. Other, more sophisticated treatment techniques are applied, as necessary, on a case-by-case basis.

The adequacy of production (treatment) facilities is evaluated based on the ability to provide an adequate, reliable finished water supply that will satisfy present and future demands, be aesthetically satisfactory to customers, and meet all federal and state regulations. Treatment plants are evaluated to assure that loading rates for all components are sustainable under maximum demand conditions without compromising water quality. Plant hydraulics are evaluated to ensure that adequate volumes of water can flow through the various components.

Each treatment process and chemical feed system at the plant is analyzed both as a separate entity and in conjunction with the facility's overall operations. Monitoring and control equipment should meet regulatory requirements and American Water's standards. Chemical feed and storage systems should be adequately sized to meet the full range of production rates while conforming to American Water's standards for safety, reliability, and construction. These issues are discussed further in this subsection.

Consideration is also given to providing adequate redundancy of treatment plant components to ensure reliability of service during scheduled or unscheduled maintenance and during emergencies. Adequate auxiliary power and/or dual utility power feeds should be provided to enable the plant to produce 100% of the average daily demand.

2.4.1 Drinking Water Regulations

Using the authorities granted under the Safe Drinking Water Act (SDWA) and state statutes, USEPA and state regulatory agencies have proposed and promulgated numerous drinking water regulations that will impact the treatment process and operation of Water Company facilities both now and in the future. In particular, Congress passed the 1996 Amendments to the Safe Drinking Water Act to reaffirm prior rules, establish new requirements for selecting contaminants to be regulated, allow for the analysis of health risk reduction, costs and benefits, and permit competing risks to be weighed. Currently, USEPA has standards set for almost 100 contaminants.

Current federal regulations are explained in more detail in the following subsections and a summary of the time frame for proposal, promulgation, and enforcement of recently promulgated and future regulations is shown in **Table A-2**.

Table A-2**Target Dates for Current and Future Drinking Water Regulations**

Rule	Proposal Date(1)	Promulgation Date(1)	Compliance Date(1,2)
IESWTR	November 1997	December 16, 1998	January 2002
Stage 1 D/DBPR	November 1997	December 16, 1998	January 2002
LT1 ESWTR	April 2000	January 14, 2002	January 2005
Arsenic Rule	June 2000	January 22, 2001	2004 (new sources) 2006 (existing sources)
Filter Backwash Recycle Rule	April 2000	June 8, 2001	2004 (2006 if capital improvements required)
Radionuclides	April 2000	December 7, 2000	By Dec. 31, 2007
Stage 2 D/DBPR	August 2003	January 4, 2006	April 2012(3)
LT2 ESWTR	August 2003	January 5, 2006	April 2012(3)
Ground Water Rule	May 2000	November 8, 2006	December 1, 2009
Revisions to Lead and Copper Rule	July 2006	October 10, 2007	April 10, 2008(4)
Revised Total Coliform Rule	July 14, 2010	January 2013	April 1, 2016
Radon	November 1999	TBD	TBD

Notes:

- (1) Dates for regulations that have not yet been promulgated are best estimates based on latest information.
- (2) Compliance (effective) dates are normally 3 years after promulgation date. Many rules use a staggered implementation schedule with larger systems (e.g., systems serving larger populations) beginning implementation at the compliance date and smaller systems complying at a later date. Systems making major capital improvements may be allowed two additional years to achieve compliance, depending on the rule.
- (3) The implementation schedule for the Stage 2 D/DBPR and Long Term 2 ESWTR will use a 6-month phase-in approach as follows: systems serving over 100,000 people; systems serving 50,000 – 99,999; systems serving 10,000 – 49,999; and systems serving less than 10,000.
- (4) The revisions to the Lead and Copper Rule became effective upon State adoption of primacy for the revised rule (April 10, 2008 for States that adopt rules by reference).

Disinfection Byproduct Regulations

Disinfection of drinking water helps protect against microbial contamination. However, the disinfectants themselves can react with naturally-occurring materials in the water to form unintended organic and inorganic byproducts which may pose health risks. In order to address cancer concerns related to high disinfection byproduct (DBP) levels, USEPA has promulgated a number of regulations to limit DBP levels in the distribution system. The most recent sets of DBP regulations were developed in conjunction with new regulations to control microbial contaminants in an effort to balance microbial protection and DBP formation. Current disinfectant and disinfection byproduct limits are provided in **Table A-3**.

Previous DBP Rules – Through the Total Trihalomethanes Rule (TTHM Rule) (1979) and the Stage 1 Disinfectants and Disinfection Byproducts Rule (Stage 1 DBPR) (1998), USEPA established monitoring requirements and limits for TTHMs (0.1 mg/L under the TTHM Rule; reduced to 0.080 mg/L under the Stage 1 DBPR) and HAA5s (0.060 mg/L under the Stage 1 DBPR). Compliance was determined by calculating a running annual average based on a system-wide average of quarterly monitoring. The number of samples required was based on the number of treatment plants in the system. Only systems disinfecting the water with a chemical disinfectant were required to monitor and meet the Maximum Contaminant Levels (MCLs) (although some State drinking water programs extended the Stage 1 DBPR requirements to consecutive systems that purchase disinfected water).

The Stage 1 DBPR also set enforceable maximum residual disinfectant levels for chlorine, chloramines, and chlorine dioxide; MCLs for bromate and chlorite; and set requirements for removal of total organic carbon (TOC) in conventional treatment plants.

Stage 2 Disinfectants and Disinfection Byproducts Rule (Stage 2 DBPR) – The Stage 2 DBPR, promulgated in January 2006 in conjunction with the Long Term 2 Enhanced Surface Water Treatment Rule, is designed to further reduce cancer risks (and potential reproductive / developmental risks) and ensure that all customers are equally protected. The rule applies to all water systems that add a chemical disinfectant or deliver water that has been treated with a chemical disinfectant (e.g., consecutive systems). Although the TTHM and HAA5 levels have not changed (0.080 mg/L and 0.060 mg/L, respectively), compliance is now based on the Running Annual Average (RAA) at each location (Locational Running Annual Average or LRAA) and the number of samples required is based on the population served. Further, to ensure that monitoring captures both maximum TTHM levels as well as maximum HAA5 levels, systems are required to conduct an Initial Distribution System Evaluation to identify Stage 2 compliance monitoring locations. The rule also includes requirements for systems to investigate any “high DBP levels” under an Operational Evaluation.

Table A-3**Disinfectant and Disinfection Byproduct Limits**

Disinfectant	MRDLG (mg/L)	MRDL (mg/L)	Comment
Free chlorine	4.0	4.0	as Cl ₂
Chloramines (Total chlorine)	4.0	4.0	as Cl ₂
Chlorine dioxide	0.8	0.8	as ClO ₂
Contaminant	MCLG (mg/L)	MCL (mg/L)	Comment
Total trihalomethanes	0.0	0.080	Converting from RAA to LRAA
Total haloacetic acids (HAA5)	0.0	0.060	Converting from RAA to LRAA
Bromate	0.0	0.01	for systems with ozone
Chlorite	0.8	1.0	for systems with ClO ₂

MRDLG - Maximum Residual Disinfectant Level Goal

MRDL - Maximum Residual Disinfectant Level

MCLG - Maximum Contaminant Level Goal

MCL - Maximum Contaminant Level

Surface Water RegulationsBackground

The various Surface Water Treatment Rules govern water supplies whose source of drinking water is surface water, which it defines as “all water which is open to the atmosphere and subject to surface runoff” such as rivers, lakes, and reservoirs. Surface water is particularly susceptible to microbial contamination from sewage treatment plant discharges and runoff from storm water and snow melt. These sources often contain high levels of fecal microbes that originated in livestock wastes or septic systems. The Surface Water Treatment Rules set forth requirements for removal and / or inactivation of these contaminants.

Previous Surface Water Treatment Rules

The original Surface Water Treatment Rule (1979) sets non-enforceable health goals, or Maximum Contaminant Level Goals (MCLGs), for *Legionella*, *Giardia*, and viruses at zero because any amount of exposure to these contaminants represents some health risk. Since measuring disease-causing microbes in drinking water is not considered to be feasible, USEPA established a treatment technique in this rule rather than an MCL. Under the rule, all systems must filter and disinfect their water to provide a minimum of 99.9 percent combined removal and

inactivation of *Giardia* and 99.99 percent of viruses. The adequacy of the filtration process is established by measuring turbidity (a measure of the amount of particles) in the treated water and determining if it meets USEPA's performance standard. Further, to assure adequate microbial protection in the distribution system, water systems are also required to provide continuous disinfection of the drinking water entering the distribution system and to maintain a detectable disinfectant level within the distribution system.

Interim Enhanced Surface Water Treatment Rule

The Interim Enhanced Surface Water Treatment Rule (1997) applies to systems using surface water or ground water under the direct influence of surface water that serve 10,000 or more persons. The rule also includes provisions for states to conduct sanitary surveys for surface water systems regardless of system size. The rule builds upon the treatment technique requirements of the original Surface Water Treatment Rule with the following key additions and modifications:

- MCLG of zero for *Cryptosporidium*
- 2-log *Cryptosporidium* removal requirements for systems that filter
- Strengthened combined filter effluent turbidity performance standards
- Individual filter turbidity monitoring provisions
- Disinfection profiling and benchmarking provisions
- Systems using ground water under the direct influence of surface water now subject to the new rules dealing with *Cryptosporidium*
- Inclusion of *Cryptosporidium* in the watershed control requirements for unfiltered public water systems
- Requirements for covers on new finished water reservoirs
- Sanitary surveys, conducted by states, for all surface water systems regardless of size

Long Term 1 Enhanced Surface Water Treatment Rule (LT1 SWTR)

While the Interim Enhanced Surface Water Treatment Rule only applies to systems serving 10,000 or more people, the Long Term 1 Enhanced Surface Water Treatment Rule (2002) is designed to strengthen microbial controls for systems serving fewer than 10,000 people. The rule will also prevent significant increase in microbial risk where small systems take steps to implement the Stage 1 Disinfectants and Disinfection Byproducts Rule. The Long Term 1 Rule generally tracks the approaches used in the Interim Enhanced Surface Water Treatment Rule for improved turbidity control, including individual filter monitoring and reporting.

Long Term 2 Enhanced Surface Water Treatment Rule (LT2 SWTR)

The purpose of the LT2 SWTR is to reduce disease incidence associated with *Cryptosporidium* and other pathogenic microorganisms in drinking water. The rule applies to all public water systems that use surface water or ground water that is under the direct influence of surface

water regardless of the number of people served. The rule bolsters existing regulations and provides a higher level of protection of drinking water supplies by:

- Targeting additional *Cryptosporidium* treatment requirements to higher risk systems
- Requiring provisions to reduce risks from uncovered finished water storage facilities
- Providing provisions to ensure that systems maintain microbial protection as they take steps to reduce the formation of disinfection byproducts

Systems initially monitor their water sources to determine treatment requirements. This monitoring involves two years of monthly sampling for *Cryptosporidium*. To reduce monitoring costs, small filtered water systems will first monitor for *E. coli*—a bacterium that is less expensive to analyze than *Cryptosporidium*—and will monitor for *Cryptosporidium* only if their *E. coli* results exceed specified concentration levels.

Filtered water systems will be classified in one of four treatment categories (bins) based on their monitoring results. Most systems are expected to be classified in the lowest bin and will face no additional requirements. Systems classified in higher bins must provide additional water treatment to further reduce *Cryptosporidium* levels by 90 to 99.7 percent (1.0 to 2.5-log), depending on the bin. Systems will select from different treatment and management options in a “microbial toolbox” to meet their additional treatment requirements. All unfiltered water systems must provide at least 99 or 99.9 percent (2 or 3-log) inactivation of *Cryptosporidium*, depending on the results of their monitoring.

Additionally, systems that store treated water in open reservoirs must either cover the reservoir or treat the reservoir discharge to inactivate 4-log virus, 3-log *Giardia lamblia*, and 2-log *Cryptosporidium*. These requirements are necessary to protect against the contamination of water that occurs in open reservoirs.

Finally, systems must review their current level of microbial treatment before making a significant change in their disinfection practice. This review will assist systems in maintaining protection against microbial pathogens as they take steps to reduce the formation of disinfection byproducts under the Stage 2 DBPR, which USEPA is finalizing along with the LT2 ESWTR.

Arsenic Rule

In January 2001, USEPA reduced the MCL for arsenic from 0.05 mg/L to 0.010 mg/L based on new health data.

Radionuclides Rule

In 2000, USEPA revised the existing radionuclides regulation, which had been in effect since 1977, by requiring new monitoring provisions that will ensure that all customers of community water systems will receive water that meets the appropriate limits for radionuclides in drinking water. This included a standard for uranium as required by the 1986 Amendments to the Safe Drinking Water Act. The current standards are:

- Combined radium 226/228 standard of 5 pCi/L
- Gross alpha standard for all alphas of 15 pCi/L (not including radon and uranium)
- Combined standard of 4 mrem/year for beta emitters

- Uranium standard of 30 µg/L

Lead and Copper Rule Revisions

In 1991, USEPA published the Lead and Copper Rule in an attempt to control lead and copper in drinking water. The rule aimed to minimize lead and copper in drinking water, primarily by reducing water corrosivity. Lead and copper enter drinking water primarily through plumbing materials. Exposure to lead and copper may cause health problems ranging from stomach distress to brain damage.

In the Lead and Copper Rule, USEPA established “Action Levels” for lead and copper. Based on first-draw samples collected at taps within the distribution system, lead and copper concentrations must be less than 0.015 mg/L and 1.3 mg/L, respectively, in ninety percent of the samples. Selected sample sites must consist of single-family residences which contain copper pipes with lead solder installed after 1982, which contain lead pipes, or which are served by a lead service line. Following implementation of state-specified “optimal” treatment to minimize lead and copper concentrations at consumer taps, annual follow-up monitoring is required. If the results of follow-up monitoring indicated that the system is consistently in compliance with the lead and copper Action Levels, the state may elect to reduce the annual monitoring requirements. Should follow-up monitoring indicate noncompliance, the utility is required to initiate a public education program, collect additional water quality samples, and possibly begin a program of replacing lead service lines.

In 2000, USEPA published minor revisions to the Lead and Copper Rule. These revisions streamline and reduce monitoring and reporting burden, and address implementation problems and issues arising from legal challenges. The minor revisions addressed implementation problems and issues arising from legal challenges to the 1991 rule.

USEPA issued Short-Term Revisions to the Lead and Copper Rule in late 2007 that covered a number of issues:

- The revisions addressed confusion about sample collection by clarifying language that speaks to the number of samples required and the number of sites from which samples should be collected. It also modified definitions for monitoring and compliance periods to make it clear that all samples must be taken within the same calendar year. Finally, the revisions added a new reduced monitoring requirement, which prevents water systems above the lead action level to remain on a reduced monitoring schedule.
- The revisions require water systems to provide advanced notification and gain the approval of the primacy agency for intended changes in treatment or source water that could increase corrosion of lead.
- The revisions require that all utilities provide notification of tap water monitoring results for lead to owners and/or occupants of homes and buildings who consume water from the taps that are part of the utility’s sampling program.
- The revisions add a requirement for utilities to reconsider previously “tested-out” lines when resuming lead service line replacement programs.

- The revisions change the content of the message to be provided to consumers in the event of a lead action level exceedance, changes how the materials are delivered to consumers, and the timeframe in which materials must be delivered.

Ground Water Rule

USEPA published the final Ground Water Rule (GWR) in the Federal Register on November 8, 2006. The purpose of the rule is to provide for increased protection against microbial pathogens in public water systems that use ground water sources. USEPA is particularly concerned about ground water systems that are susceptible to fecal contamination since disease-causing pathogens may be found in fecal contamination including *E. coli*, *enterococci*, and coliphage.

The Ground Water Rule applies to public water systems that serve ground water. The rule also applies to any system that mixes surface and ground water, where the ground water is not treated in by the surface water treatment process. The risk-targeting strategy incorporated into the Ground Water Rule provides for:

- Regular sanitary surveys of public water systems to look for significant deficiencies in key operational areas;
- Triggered source water monitoring when a system that does not sufficiently disinfect drinking water identifies a positive sample during its Total Coliform Rule monitoring and assessment monitoring (at the option of the state) targeted at high-risk systems;
- Implementation of corrective actions by ground water systems with a significant deficiency or evidence of source water fecal contamination to reduce the risk of contamination; and,
- Compliance monitoring for systems that are sufficiently disinfecting drinking water to ensure that the treatment is effective at removing pathogens.

The compliance date for triggered monitoring (and associated corrective actions) and compliance monitoring was December 1, 2009. There are no timeframes associated with the assessment monitoring because it is at the option of state. States must complete their initial round of sanitary surveys by December 31, 2012 for most community water systems. States will have until December 31, 2014 to complete the initial sanitary survey for community water systems that are identified by the state as outstanding performers and non-community water systems.

Revised Total Coliform Rule (RTCR)

The USEPA has revised the 1989 Total Coliform Rule (TCR), a national primary drinking water regulation (NPDWR). The purpose of the 1989 TCR is to protect public health by ensuring the integrity of the drinking water distribution system and monitoring for the presence of microbial contamination. USEPA anticipates greater public health protection under the revised requirements, which are based on recommendations by a federal advisory committee and the agency's consideration of public comments.

The final RTCR establishes a Maximum Contaminant Level Goal (MCLG) and an MCL for E. coli and eliminates the MCLG and MCL for total coliforms, replacing it with a treatment technique for coliforms that requires assessment and corrective action. Specifically:

- The revised rule establishes an MCLG of 0 for E. coli, a more specific indicator of fecal contamination and potential harmful pathogens than total coliform. EPA has removed the 1989 MCLG and MCL for total coliform. Many of the organisms detected by total coliform methods are not of fecal origin and do not have any direct public health implication. The “acute” total coliform MCL violation under the 1989 TCR has been maintained as the MCL for E. coli under the RTCR.
- Under the new treatment technique for coliforms, total coliforms serve as an indicator of a potential pathway of contamination into the distribution system. A PWS that exceeds a specified frequency of total coliform occurrence must conduct an assessment to determine if any sanitary defects exist and, if found, correct them. In addition, under the new treatment technique requirements, a PWS that incurs an E. coli MCL violation must conduct an assessment and correct any sanitary defects found.

Radon

The 1991 proposed standard for radon was withdrawn under the 1996 SDWA Amendments. Under the new SDWA Amendments, the USEPA prepared a risk assessment study for radon in drinking water using the best available science. In addition, USEPA directed an assessment of the health risk reduction benefits that are associated with reducing radon concentrations in indoor air. The USEPA published a health risk reduction and cost analysis in February 1999, for exposure to radon in drinking water and air. This included a discussion on the costs and benefits of multimedia mitigation programs. The MCLG and MCL for radon were proposed in November 1999 at 0 pCi/L and 300 pCi/L, respectively. An alternative MCL was proposed at 4,000 pCi/L with a Multimedia Mitigation program (MMM) to address radon risks in indoor air. The State or Community Water System (serving over 10,000 persons) can develop a MMM program. Most Community Water Supplies (CWSs) serving 10,000 or less are expected to meet the Alternative Maximum Contaminant Level (AMCL) and to participate in a State MMM. The USEPA is strongly encouraging States to take full advantage of the flexibility and risk reduction opportunities in the MMM program. The USEPA fact sheet on Radon states, “It is more cost-effective to reduce risk from radon exposure from indoor air, than from drinking water”. Radon is generally not found in surface water at levels of concern, but is present at high levels in some groundwater sources.

States regulators have indicated that implementing an MCL / AMCL regulation would be difficult. However, since the regulatory construct was included as part of the 1996 Amendments to the Safe Drinking Water Act, USEPA would be hard pressed to pursue another approach. Therefore, it is unlikely that the rule will be promulgated as proposed and USEPA has not indicated an expected promulgation date.

Regulating New Contaminants

The 1996 SDWA Amendments include a process that USEPA must follow to identify new contaminants which may require Federal regulation in the future. Specifically, USEPA must periodically release a Contaminant Candidate List (CCL), which is a list of unregulated contaminants that it uses to prioritize research and data collection efforts to help make a determination whether to regulate a specific contaminant. USEPA must make “regulatory determinations” on at least five contaminants every five years – this could include a

“determination” to regulate, to not regulate, to issue a health advisory, or that no action is necessary. When making a “determination” to regulate, the law requires that USEPA consider three areas: 1) projected adverse health effects from the contaminant; 2) the extent of occurrence of the contaminant in drinking water; and 3) whether regulation of the contaminant would present a “meaningful opportunity” for reducing risks to health. More information on the CCL process is available at <http://water.epa.gov/scitech/drinkingwater/dws/ccl/index.cfm>

Related to the CCL process is the Unregulated Contaminant Monitoring Rule (UCMR) program. Under this program, monitoring is required at selected water systems to determine the occurrence levels for contaminants that may occur in drinking water and may potentially have an adverse health impact, but are not yet regulated at the Federal level. Most contaminants that are monitored under the UCMR are listed on the CCL. More information on the UCMR, including unregulated contaminants currently included in the rule, is available at <http://www.epa.gov/safewater/ucmr/index.html>

Once USEPA decides to regulate a contaminant (which could be through the CCL process, the Six Year Review of current regulations required under the SDWA, or by a separate decision), the regulatory development process is a slow, deliberative process. From the time that USEPA makes a decision to regulate, the process of developing a proposed rule, taking comment, responding to comment, and finalizing the rule can take anywhere from 3-5 years or even longer. Water systems then have 3 years from the date of promulgation to prepare to comply with the rule, so in essence, water systems have at least 6-8 years until they would have to be in compliance with any new regulations that USEPA would begin working on today.

2.4.2 Design and Construction Standards

Many states have adopted regulations governing water quality that are identical to federal regulations. However, in several instances, states have established regulations and standards that are more stringent than federal requirements, sometimes by a significant amount. For a state to be granted primacy by the USEPA, that state’s adopted regulations must be at least as stringent as the federal regulations.

The Recommended Standards for Water Works has been used by many States to form the basis of standards for the design and construction of public water supply systems. It should be noted that the actual design of facilities may vary from these standards, and will be subject to review by each state. State-specific regulations are discussed in the Production Section of this report. Some of the major provisions of the Recommended Standards for Water Works are summarized in **Table A-4**.

Table A-4

Major Provisions of the Recommended Standards for Water Works

Treatment Process	Summary of Standard
Mixing	The detention period should be no less than 30 seconds.
Flocculation	- The detention period should be no less than 30 minutes. - Duplicate facilities should be provided.
Sedimentation	The detention period for conventional basins should be no less than 4 hours.

	• At least two units should be provided for redundancy. • Inlet and outlet devices should be provided to provide uniform settling velocities and to minimize short-circuiting. • Mechanical solids collecting equipment should be provided.
Filtration	• At least two units should be provided for redundancy, and provisions should be made to assure continuity of service with (1) filter removed from operation. • The normal filtration rate is 2 gpm/ft², but rates can be increased to 3 gpm/ft² for greensand media and 4 gpm/ft² for dual media. • Indicating rate-of-flow controllers, loss-of-head gauges and filter-to-waste piping should be provided for each filter. • Provisions should be made to backwash filters at a rate between 15 and 20 gpm/ft² for a period not less than 15 minutes. Rate-of-flow control should also be provided. • Filter media should have a total depth between 24 and 30 inches.
Disinfection	• Standby equipment shall be provided to replace the largest unit during shutdowns.

2.5 Underground Storage Tank Management

Federal regulations call for upgrading existing underground fuel and chemical storage tanks to provide leak detection, corrosion protection and spill/overflow protection.

2.6 Electrical Service and Standby Power

In order to provide an acceptable degree of reliability, the ability to produce 100% of the projected average day demand is desirable in each distribution system pressure zone. In some instances, the availability of a sufficient volume of finished storage water or interconnections helps to meet this guideline. Emergency generators, engine driven pumps and/or dual utility power feeds can also be used to provide temporary power to the plant during an outage.

2.7 Partnership for Safe Drinking Water

The Partnership for Safe Drinking Water is a voluntary cooperative effort between USEPA, American Water Works Association (AWWA), and other drinking water organizations to help ensure the safety of America's drinking water. According to AWWA, "The Partnership provides a new measure of safety by implementing prevention programs where legislation or regulation do not exist. The preventative measures are based around optimizing plant performance and thus increasing protection against microbial contamination in America's drinking water supply."

The Partnership agreement requires participating utilities to attempt to reach certain performance goals and to perform a self-assessment of surface water plant performance. Performance criteria include the following targets:

- Clarified turbidities less than 3.0 NTU in 95% of samples,
- Filter effluent turbidities less than 0.1 NTU in 100% of samples,
- Filter effluent turbidities less than 0.3 NTU for less than 15 minutes following filter backwash.

American Water has targeted these performance criteria as treatment goals, and has implemented operational changes at various treatment plants where necessary and practical to consistently meet the targets.

2.8 AW Guidelines for Chemical Feed, Storage and Containment

Compressed gas and liquid treatment chemicals used in the water industry are generally stored and fed in a concentrated form with many being strong acids and bases. While these chemicals are necessary to provide safe, potable water, proper management of the chemicals is necessary to protect the consumer, American Water's personnel, and the environment. In addition, many of these chemicals can damage American Water's facilities if the proper equipment and safeguards are not provided.

Chemical feed and storage facilities at American Water treatment plants are evaluated to determine adequacy compared to the AW Standard for Liquid Chemical Storage, Feed, and Containment. These guidelines go beyond the minimum requirements of the Recommended Standards for Water Works by providing increased protection to consumers, Company personnel and facilities, and the environment.

Feed equipment is considered adequate if sufficient capacity is available to treat the water while considering maximum flow and feed rates with the largest chemical feeder or pump out of service. Chemical storage is considered adequate if 31 days storage is available while considering maximum flow and feed rates, and provisions for containment. Primary containment is defined as the container holding the chemical. Secondary containment is a structure designated to hold spillage or leakage. The minimum secondary containment volume is considered to be 110 percent of the largest storage tank volume within the containment area.

Facilities to house compressed gas feed systems are required to provide safety for the operator and local population, and to ensure adequate containment in the event of a gas leak. Individual feed and storage rooms are recommended for all installations. The storage room should contain all elements of the feed system which are under pressure, and be sized for a minimum 30 day supply.

More specific guidance for liquid and compressed gas feed systems is provided in the AW Engineering Standards: Liquid Chemical Storage, Feed and Containment, and Compressed Gas Feed Systems and Storage Facilities. An analysis of chemical facilities can be found in the Production Section of this report.

3.0 DISTRIBUTION PIPING, PUMP AND STORAGE EVALUATION CRITERIA

The ability of distribution system facilities to provide safe, adequate and reliable service to customers is analyzed based on forecasted customer demands and fire protection requirements. Computer modeling of the distribution system is utilized as a tool in the analysis to determine system deficiencies and evaluate the effectiveness of proposed improvements under future demand conditions. Published reports from the Insurance Service Office (ISO) are used as a guideline in analyzing the ability of various system components to deliver fire protection. The ISO is a major source of information, products, and services related to property and liability risk; and one of their important services is to evaluate the fire suppression delivery systems of jurisdictions around the country. The result of those reviews is a classification number that ISO distributes to insurers, who then use the Public Protection Classification (PPC) information to help establish fair premiums for fire insurance. Generally, communities with better fire protection are offered lower insurance premiums.

3.1 Distribution System Analysis Methodology

The analysis of American Water's facilities includes pipelines, storage tanks, booster stations and emergency power provisions. Under peak demand conditions, a number of minimum standards should be met for each of these facilities. These standards are described below.

- **Pipelines** - Distribution system mains are considered adequate if they can meet customer demand at a minimum system pressure of 20 psi. Fire protection requirements should be met while maintaining a minimum pressure of 20 psi in the distribution system. (Note: State and local guidelines may require that higher pressures be maintained.)
- **Distribution Storage** - Storage facilities are considered adequate if the effective volume of the facility, or groups of facilities acting together, provide sufficient volume to meet equalization needs and a fire protection reserve (if necessary) during maximum day demand events. In addition, State regulations are also considered as they relate to a particular distribution system.

The effective volume of storage is that quantity which can be used from the tank while maintaining adequate system pressures under the domestic and fire flow conditions outlined above for distribution mains. The ideal equalization volume is that quantity of water needed to allow the production plant or booster station output rates to be constant and equal to the daily demand on the maximum day of the year. The actual use of equalization storage enables a reasonably constant rate of treatment plant or booster station operation, and thereby promotes overall system efficiency and economy.

Existing storage capacity was also analyzed to determine its contribution to overall system reliability. Where appropriate, recommendations are made if additional storage will significantly improve system reliability (e.g., ability of the system to maintain service to customers during an emergency, such as a power outage, a chemical or fuel spill impacting the source of supply, or a large main break).

Other factors considered when determining storage reserves are the fire protection ratings published by ISO. Storage reserves for a given pressure zone are calculated on the basis of the highest published ISO Needed Flow and duration. The impact of storage volume on water quality is also considered when sizing proposed storage facilities. ISO's municipal fire protection testing may identify sites with needed fire flows greater than 3,500 gpm for a duration of three hours. In many pressure zones, particularly in residential areas, the identified

maximum is less than 3,500 gpm. Where individual structures are assigned ISO Needed Flows above 3,500 gpm, it is assumed that fire protection needs in excess of 3,500 gpm at these sites will be satisfied through the development of individual customer-owned fire suppression systems.

- **Distribution System Booster Stations** - Booster pumping facilities are considered adequate if the capacity of the pump stations, with the largest pumping unit out of service, is sufficient to meet the maximum daily demand projected to occur within each pressure zone. When storage facilities are not present in a pressure zone, the booster station pumps should be able to meet peak instantaneous demands at adequate pressure. In pressure zones without storage, the booster pumps may also provide the only source of fire protection.
- **Emergency Power** - The ability to provide continuous service during a power outage is critical to a system's reliability and depends on several factors including: the nature of the electrical service (i.e., service from one vs. two substations), the presence of any floating storage within the pressure zone, standby electrical generating capacity, and the availability of pumps which can be driven by diesel fuel or natural gas.

During a power outage, the demand is assumed to be 100 percent of the average day demand. Analysis of outages in other systems has shown this to be a reasonable estimate of customer usage under these conditions.

The facilities within a pressure zone are considered adequate if 100 percent of the projected average day demand can be met from emergency powered pumping facilities, or if floating storage facilities are available, to provide the needed demand for more than 24 hours.

A number of distribution system improvement projects are recommended in this report with specific justification such as assuring safe, adequate, and reliable general service, while others are primarily to improve water transmission, provide redundancy, and to enhance fire protection. Each type of project has multiple benefits that may result in general improvement of the system in terms of increased pressures, flows, reliability, and more stable water quality.

3.2 Distribution System Computer Modeling

The computer model has become a valuable tool for developing future distribution system improvement programs. A computer model is developed for the distribution system using the WATERCAD software program. Data relating to pipe diameter, length, material, age and connection points are obtained from distribution maps and records supplied by the Water Company. Pipe friction coefficients (or C-factors) are determined for selected pipelines utilizing available flow test data, or standard values based on the age, material and size of pipeline. These results are then used to estimate C-factors for other pipelines of similar diameter, age and material.

Customer demands are modeled by applying meter route data at the appropriate pipeline junctions in the computer model to simulate customer demands. Large customers are considered individually in order to apply specific peaking factors to metered consumption. After any newly installed pipes, tanks, or booster stations are added to the model, the output data are compared with known pressures, flows, and water levels obtained from data recorders at key locations in the actual system. Consumption data or pipeline data are then adjusted to achieve

the best possible correlation between actual and modeled parameters. Three demand scenarios are generally considered:

- The peak hour demand on the maximum day.
- The minimum hour demand on the maximum day (during night time storage refill conditions).
- The maximum day flow for use in evaluating fire protection.

After calibration, future demands are allocated throughout the system to sectors of projected growth for the individual scenarios. Successive computer runs are then made to test various alternatives of distribution system improvements and their success in solving system problems. Final selection of distribution system improvement projects is based in part on computer simulations of water system hydraulics under these various present and future demand scenarios.

3.3 Property Sizing for Distribution System Storage Tanks

Where projects are recommended involving the construction of distribution storage tanks to meet equalization and fire protection storage needs in the system, preliminary sites are chosen for planning purposes. In the preliminary design phase of such projects, the final site selection and purchase of appropriate property for the tank is undertaken. The American Water guideline “Property Sizing for Steel Tank Construction” includes the following considerations for lot sizing:

- Obtain a lot large enough to provide an adequate layout area for steel plates, columns, etc., during tank erection.
- The size of the lot should be sufficient to provide reasonable isolation from existing or possible future residential or industrial building sites or parking facilities.
- The size of the lot should also be sufficient to minimize airborne migration during blast cleaning and painting operations (additional containment procedures may be required by regulatory agencies).

Sufficient property should be purchased to provide a minimum of 100 feet from the tank sidewall. In cases where elevated tanks are involved, the 100-foot dimension would be from the sidewall of the bowl. Additionally, in the case of an elevated tank, the length of each side of the lot should be at least twice the height of the tank. The size of the lot for an elevated tank would be the greater of the two criteria. In addition, specific regulatory requirements regarding site screening may increase lot size requirements.

Another factor for consideration when purchasing a tank site is the handling of the water produced during an accidental overflow event. These flows typically involve high volumes for short durations. If an adequately sized conduit or pond, which can be permitted to receive intermittent flows of chlorinated water, is not easily accessible from the tank site, sufficient property should be purchased to allow construction of an overflow retention pond at the site. The general rule for estimating the size of the retention pond is based on the assumption that it may take about 30 minutes for American Water’s operating personnel to valve off the tank to stop an overflow event.

Prior to purchasing property for a tank site, the need and potential for constructing multiple tanks at the site should be considered. This may be either a present or future need. If additional tanks may be located at the site in the future, a preliminary plan of the future site layout should be completed to define the appropriate lot size.

3.4 Distribution System Main Replacement Programs

Many water distribution networks operated throughout American Water have been developed over many years. In the past, distribution mains have been acquired or installed using then-current design standards that, in some cases, do not conform to present day engineering design practice. Some mains that were installed under these historically acceptable practices are now unable to satisfy current requirements. Many of American Water's operating companies have an ongoing main replacement program to address these deficiencies.

Mains in need of replacement typically include pipes that are 4-inch diameter or smaller, unlined, cast iron, or galvanized iron pipe. Priority under the main replacement programs is given to those pipes which have become maintenance problems. It is recommended that Investment Projects continue to be developed with projects prioritized on an annual basis. The Investment Projects should be revised annually as mains are replaced and newer priorities are added.

The design of main replacements and extensions is normally based upon projected system demands and the maximum needed fire flow, but the following general criteria should also be followed:

- Mains should not be less than 8-inches in diameter, except where the main does not serve a fire hydrant and there is no possible further extension of the facilities beyond 500 feet, or where proper engineering justification for a smaller main can be made.
- Major transmission mains or mains which potentially can serve as major transmission mains should not be less than 12-inches in diameter.

Many pipelines that will be constructed in the future to reinforce an existing system will be installed parallel to smaller, older pipelines. In most instances, it is recommended that the old main be retired and that all fire hydrants and customer services be connected to the new main. As part of American Water's policy, any lead services encountered during water main installation are generally replaced as part of that construction project.

3.5 Tank Maintenance Programs

Each operating system has developed a tank maintenance program to schedule routine inspections, evaluate the condition, and identify needed improvements. Any deficiencies are then budgeted for improvements. A tank inventory should be maintained of all steel tanks utilized in American Water including distribution storage, washwater, sedimentation and wastewater holding tanks.

3.6 Geographic Information Systems

GIS (Geographic Information Systems) software provides an association between graphic data from maps and drawings and textual data in a database. Facility data such as hydrant records, tap orders, and maintenance history can be linked to American Water's distribution system maps, providing a geographic reference for managed facilities.

GIS systems replace the need to use Computer-Aided Drafting (CAD) to maintain distribution system maps, thus eliminating the need for maintaining two separate graphics software systems: one to perform CAD operations and one to perform facility maintenance tracking of distribution system infrastructure and GIS operations. This is particularly advantageous to utility companies since CAD software is commonly used to maintain distribution system maps.

GIS software provides a means to perform analyses on geographic areas. GIS would be a valuable tool for engineering or internal accounting purposes, and for obtaining data for use by outside entities. Capabilities of GIS systems include:

- **Distribution System Mapping** - eliminates need of manual drafting for map updates; consolidates data in one location.
- **Facilities Management** - provides computerized inventory and maintenance programs for distribution system facilities; allows link between facilities and maintenance data; improves data collection and reporting.
- **Engineering and Operations Queries and Reports** - integrates data so that information retrieval is an automated process; provides the ability to query more than one source of data within single or multiple geographic areas for the purpose of developing maintenance programs.
- **Other Features** – can provide a link between customer information, facilities management data and water company maps for geographic analyses; furnishes a potential link to existing Distributed Control Systems (DCS), distribution system computer models, and water quality analyses.

With the increasing use of information systems to collect and manage data, and the higher performance of newer computing equipment, consideration should be given to implementation of or updating to a GIS system as existing data systems become outdated or obsolete. Time and labor needed to manually maintain, update and query multiple disparate sources of information should be reduced, while facility maintenance can be better managed and system analysis for determining and prioritizing capital improvement needs can be significantly enhanced.

4.0 AMERICAN WATER'S ROLE IN REGIONALIZATION

Regionalization opportunities are evaluated to determine if a consolidated solution to water supply problems in a particular area is feasible or if management services opportunities are viable. Regionalization of water systems can often provide economies of scale, avoid duplication of facilities, and provide more effective service to customers. Water systems within a specific geographic area can regionalize to benefit from shared treatment facilities or pumping facilities. Interconnections between water systems can improve reliability and enhance the fire

protection system. In the case of management services, expertise within American Water can be utilized to improve other area water supplies and benefit the State's residents.

American Water's technical capability and financial resources have led to acquisition and regionalization opportunities. In general, activities have involved acquiring water systems near an existing American Water service area, and physically consolidating the new system's distribution network into the existing American Water distribution system. In the case of remote water systems, they are operated as satellite service areas, but with management from the American Water's corporate office.

5.0 WATER RESOURCE MANAGEMENT

Water resource management has become an important part of the planning process. Water resource management refers to those activities and programs designed to protect, maintain and monitor efficient use of water resources. These measures include managing water resources from both the supply and demand side. Such activities include: meter maintenance and replacement programs, leak detection and repair, scheduled water main replacement, and drought management.

Metering provides an accurate accounting of water flowing through the system, thereby helping to determine where losses and excess usage may occur. American Water policy is to meter all customers. In some cases, commercial meters on apartment buildings or other multi-tenant facilities may have been changed over to individual meters. Also, fire services may be equipped with flow indicators. Residential service meters are replaced after a predetermined interval, based on State guidelines. Larger meters should be tested on a routine basis. On the supply side, all source of supply meters should be tested and calibrated regularly.

Water resource management through leak detection and repair results in reduced non revenue water by reducing water losses. Reducing the volume of unaccounted-for water can improve system hydraulics, reduce costs for water treatment and pumping, and in some cases can delay capacity-oriented construction. In situations where water demand exceeds supply, reducing non revenue water can result in the availability of more water for customer consumption.

Leak detection surveys should be performed on an ongoing basis. In addition, valves should be sounded for leaks as part of a valve exercise program. Hydrants should be inspected on a regular basis and tested for leaks. Customer meters should be sounded on all service calls, and whenever a curb box is relocated or raised for paving.

Replacement of aged facilities can conserve water through controlling system losses. For instance, unlined pipelines can be a source of leakage. In addition to the major main replacements recommended in this report, mains that have known leakage problems or require frequent maintenance are given priority under ongoing main replacement programs. The program concentrates on mains which are 6-inches in diameter or smaller. These mains are frequently constructed from unlined, cast, or galvanized iron.

All of these measures are aimed at a water resource management program that controls water losses, protects the sources of supply, and maintains efficient and economical delivery and usage of water resources. Continuation of these practices will assist in providing high quality service to the customer.

APPENDIX B
PRODUCTION AND SUPPLY
DETAILED COST ESTIMATES

A-1	Rehabilitate Basin 2 With Tube Settlers						
			Type	Qty	Cost	Total	
	Basin 2 Demolition Costs (troughs and eqpt)		LS	1	\$150,000	\$150,000	
	Structural Upgrades to Basin 2		LS	1	\$700,000	\$700,000	
	Installation of Tube Settlers		LF	1	LS	\$1,500,000	
						\$2,350,000	
	Engineering				10%	\$235,000	
	AFUDC				15%	\$352,500	
	Contingency				25%	\$587,500	
	Total Construction					\$3,525,000	
					Roundup	\$3,600,000	

A-2	Retire Basin 1 and Filter Building 3						
			Type	Qty	Cost	Total	
	Demo Filter Bldg #3		SF	11250	\$75	\$843,750	
	Remove and Dispose of Floc and Sludge Eqpt		LS	1	\$75,000	\$75,000	
	Demo and remove precast conc troughs		LS	1	\$50,000	\$50,000	
	Demo top 3' of perimeter wall		LF	602	\$128	\$77,056	
	Haul, place compact fill		CY	8044	\$12	\$96,528	
	Finish, grade, seed		LS	1	\$7,500	\$7,500	
						\$1,149,834	
	Engineering				10%	\$114,983	
	AFUDC				15%	\$172,475	
	Contingency				25%	\$287,459	
	Total Construction					\$1,724,751	
					Roundup	\$1,800,000	

A-3	Electrical - Breakers and Relays	Unit		Mtrl \$ / Unit	Mtrl \$\$ Total	Labor \$\$/Hr	Labor Hours/unit	Total MHs / Item	Labor Total	Equip	Total
	GE Power Vac Breakers	3	Ea	\$ 75,000	\$ 225,000	\$ 200	36	108	\$ 21,600	\$ 1,000	\$ 247,600
	SEL Relay and Meters	4	Ea	\$ 3,500	\$ 14,000	\$ 200	16	64	\$ 12,800		\$ 26,800
	PT's / Ct's	6	Ea	\$ 2,500	\$ 15,000	\$ 200	12	72	\$ 14,400		\$ 29,400
	Control Wiring, cleaning and miscel	3	Ea	\$ 500	\$ 1,500	\$ 200	8	24	\$ 4,800		\$ 6,300
					\$ -	\$ 200		0	\$ -		\$ -
	SCADA cabling and programming	4	LS		\$ -	\$ 200	12	48	\$ 9,600	\$ 120	\$ 9,720
	fiber-optic cabling and raceway	1	LS	\$ 5,000	\$ 5,000	\$ 200	36	36	\$ 7,200		\$ 12,200
					\$ -	\$ 200		0	\$ -		\$ -
					\$ -	\$ 200		0	\$ -		\$ -
	Demolition - selective for M-T-M	3	Ea		\$ -	\$ 200	16	48	\$ 9,600	\$ 1,000	\$ 10,600
	Subtotal:				\$ -			0	\$ -		\$ 342,620
					\$ -			0	\$ -		\$ -
	Contingency (25%)				\$ -			0	\$ -		\$ 85,655
	Indirect Capital Costs (Design, etc.) (15%)				\$ -			0	\$ -		\$ 51,393
	AFUDC (15%)				\$ -			0	\$ -		\$ 51,393
	Overhead (5%)				\$ -			0	\$ -		\$ 17,131
	Subtotal:				\$ -			0	\$ -		\$ 205,572
					\$ -			0	\$ -		\$ -
	TOTAL:				\$ -			0	\$ -		\$ 548,192
					\$ -			0	\$ -	SAY	\$600,000

A-4	Chlorine Gas Conversion				
		<u>Type</u>	<u>Qty</u>	<u>Cost</u>	<u>Total</u>
Site Work	Demo Filter Bldg #3	SF	0	\$75	\$0
	Demo Exist Chlorine	SF	3750	\$50	\$187,500
	Chemical Piping	LS	1	\$200,000	
	Misc Civil	LS	1	\$100,000	
Arch	Building	SF	5000	\$400	\$2,000,000
Mech	Parkson Quote *see below	LS	1	\$1,270,000	\$1,270,000
	Add Hypo Storage Tank	LS	2	\$10,000	\$20,000
	Add 52 to Brine Generator Tank	LS	1	\$20,000	\$20,000
	Add Chem Metering Pumps	LS	12	\$30,000	\$360,000
Electrical/Instr	Med V Transformer (Incr Amp to 1200)	LS	1	\$200,000	\$200,000
	New Switchgear	LS	1	\$200,000	\$200,000
	New Conduit	LS	1	\$100,000	\$100,000
	Generator	LS	1	\$150,000	\$150,000
				Subtotal:	\$4,507,500
Engineering				10%	\$450,750
AFUDC				15%	\$676,125
Contingency				25%	\$1,126,875
Total Project					\$6,761,250
				Roundup	\$6,800,000

A-5	Pumping Auxilliary Power				
		<u>Type</u>	<u>Qty</u>	<u>Cost</u>	<u>Total</u>
2 MW Backup Generator		LS	1	\$350,000	\$350,000
Pad and Fencing		LS	1	\$100,000	\$200,000
Cable		LF	100	\$500	\$75,000
MV Switchgear		LS	1	\$300,000	\$300,000
					\$925,000
Engineering				10%	\$92,500
AFUDC				15%	\$138,750
Contingency				25%	\$231,250
Total Construction					\$1,387,500
				Roundup	\$1,400,000

Phase	A-6		3 Phases - Interconnection, Chick Reservoir and New Pump Station with Alternate Intake	Type	Qty	Size	Unit	Unit Cost	Cost
	1	Project #							
		1	Upgrade the existing interconnection between EUD and TAW at Jenkins Road / US XPRESS trucking company	PRV DIP	20	24	LF		\$ 240,000
		2	Install a new interconnection at Jenkins Road /Cemetery Road	DIP	20	24	LF		\$ 340,000
		3	Install a new interconnection at Bonny Oaks Drive/Enterprise South Industrial Park	PRV,DIP	40	12	LF		\$ 170,000
		4	Reconnect the emergency interconnection at Highway 58 at the EUO treatment plant	DIP	1200	12	LF		\$ 340,000
		5	Install a new interconnection at East Brainerd Road near Hurricane Creek	DIP	500	12	LF		\$ 225,000
		6	Upgrade the existing interconnection at Hixson Drive/ Lupton Drive	PRV,DIP	5200	12	LF		\$ 1,140,000
		7	Install an interconnection between HUD and TAW on Mountain Creek Road	PRV,DIP	40	16	LF		\$ 260,000
		8	Install 3 pressure sustaining valves on the mains leading from EUO to TAW	PSV	N/A	16, 24, 12	LF		\$ 520,000
								SUBTOTAL	\$ 5,000,000
	2		Deploy 4 x 12" flexible hose pipe						
		1	Flexible Hose		133056		LF	\$ 29	\$ 3,858,624
		2	Floating barge		2		Ea	\$ 500,000	\$ 1,000,000
		3	Tap into Citico raw water line		1		Ea	\$ 500,000	\$ 500,000
		4	Deployment Labor and Logistics		1		Ea	\$ 50,000	\$ 200,000
		5	Police Oversight		1		Ea	\$ 100,000	\$ 100,000
		6	Booster Station		1		Ea	\$ 300,000	\$ 300,000
			Subtotal						\$ 5,958,624
	3								
		1	New Pump Station on Citico Property wth Alternate Intake		1		Ea		
			Subtotal						\$ 10,958,624
			Contingency					25	\$ 3,835,518
							TOTAL		\$ 15,000,000

A-8 MISSION RIDGE & SOUTH MISSION RIDGE BOOSTER STATION UPGRADES				
Project Component	Quantity		Unit Cost	Total
VFD Motors on Existing Pumps	2	EA	\$30,000	\$60,000
New Pumps & VFD Motors	2	EA	\$45,000	\$90,000
Misc Valve & Equipment Upgrades	1	LS	\$25,000	\$25,000
Instrumentation & Controls, Electric Upgrades	1	LS	\$25,000	<u>\$25,000</u>
				\$200,000
	Contingency		20%	\$40,000
	Construction Subtotal			\$240,000
	Engineering		15%	\$36,000
	AFUDC		10%	\$24,000
		PROJECT TOTAL		\$300,000
		SAY		\$300,000

A-13 2 MG GROUND RESERVOIR & PUMP STATION				
Project Component	Quantity		Unit Cost	Total
Site Work	1	LS	\$100,000	\$100,000
Tank - 2 MG	2	MG	\$600,000	\$1,200,000
Pump Building	1	LS	\$350,000	\$350,000
Pumps & VFD Motors	2	EA	\$50,000	\$100,000
Piping & Valves	1	LS	\$100,000	\$100,000
Instrumentation & Controls, Electric	1	LS	\$75,000	<u>\$75,000</u>
				\$1,925,000
	Contingency		20%	\$385,000
	Construction Subtotal			\$2,310,000
	Engineering		15%	\$346,500
	AFUDC		10%	\$231,000
Land Purchase				\$100,000
		PROJECT TOTAL		\$2,987,500
		SAY		\$3,000,000

[illegible]

B-8 CITICO GRADIENT MODIFICATIONS TO INCREASE EFFECTIVE STORAGE				
Project Component	Quantity		Unit Cost	Total
New and replacement main	3,000	LF	\$170	\$510,000
Single booster pump or PRV stations	6	EA	\$75,000	\$450,000
Field work - valves	1	LS	\$25,000	\$25,000
Miscellaneous	1	LS	\$50,000	\$50,000
				\$1,035,000
	Contingency		30%	\$310,500
	Construction Subtotal			\$1,345,500
	Engineering		15%	\$201,825
	AFUDC		10%	\$134,550
		PROJECT TOTAL		\$1,681,875
		SAY		\$1,700,000

[illegible]

B-13 EAST RIDGE BOOSTER STATION UPGRADES				
Project Component	Quantity		Unit Cost	Total
Pumps	3	EA	\$25,000	\$75,000
VFD Motors	3	EA	\$35,000	\$105,000
Station Piping & Valves	1	LS	\$80,000	\$80,000
Instrumentation & Controls, Electric	1	LS	\$75,000	\$75,000
				\$335,000
	Contingency		30%	\$100,500
	Construction Subtotal			\$435,500
	Engineering		15%	\$65,325
	AFUDC		10%	\$43,550
	PROJECT TOTAL			\$544,375
	SAY			\$550,000

Project	Pipeline LF	Dia	Cost/LF	Pipeline Subtotal	Extras	Extras Explanation	Total	Rounded
A-10	1300	20	\$250	\$325,000			\$325,000	\$330,000
A-14	3150	8	\$170	\$535,500			\$535,500	\$540,000
B-3	1550	8	\$170	\$263,500			\$263,500	\$270,000
B-4	9000	20	\$250	\$2,250,000			\$2,250,000	\$2,300,000
B-6	1800	12	\$190	\$342,000			\$342,000	\$350,000
B-7	3000	12	\$190	\$570,000	\$100,000	bore under roadway	\$670,000	\$670,000
B-12	16000	20	\$250	\$4,000,000			\$6,380,000	\$6,400,000
	8500	24	\$280	\$2,380,000				
B-15	1500	12	\$190	\$285,000	\$100,000		\$385,000	\$390,000
B-16	6900	8	\$170	\$1,173,000			\$1,173,000	\$1,200,000

APPENDIX C
CRITICALITY ANALYSIS FOR POTENTIAL RIVER SPILL
-CHATTANOOGA CITICO PLANT

MEMORANDUM

To: Rosemary Carswell, TNAW

From: Daniel Blake, BSE
Mike McDonald, BSE

Date: April 14, 2015

Re: Criticality Analysis for Potential River Spill – Chattanooga Citico Plant

INTRODUCTION

The Citico WTP has a single source intake on the Tennessee River which is vulnerable to a river spill. Assuming a minimum demand of 31.69 mgd in the Chattanooga system (the average day of the minimum month of Dec 2012), and a useable storage volume of 14.89 mg (75% of Chattanooga's effective storage of 19.85 mg) after Distribution Projects A-2 and A-3 are implemented, the amount of potable water available during a three day Citico plant outage is equal to 4.96 mgd. [Note – these criteria were adopted across the company for consistency in AW's approach to criticality analyses]. The Chattanooga system does not have a secondary supply, nor does it have interconnections that it can primarily rely on. The current available supply of 4.96 mgd over a three day period equates to a deficit equal to 26.73 mgd over the same three day period, as displayed below in **Table 1** and graphically in **Figure 1**.

Table 1
Existing Conditions in Event of Emergency

Ave Day Demand	36.2	MGD
Minimum Daily Demand (ave day of min month)	31.69	MGD
Primary Supply Safe Yield	65	MGD *
Secondary Supply Safe Yield	0	MGD
Capacity w/o Critical Asset (CapCA)	0	MGD
Total Effective Storage Volume	19.85	MG
75% of Storage (STRG)	14.89	MG
Storage needed Day 1 (MIN-CapCA)	31.69	MG
Additional water needed Day 1 (MIN-CapCA-STRG)	16.80	MG
Remaining storage day 2	0.00	MG
Outage Duration using storage	11.27	hours
Outage Duration Plan (ODP)	3	days
Available Eff. Storage/ Outage	4.96	MGD
Unmet Demand	26.73	
Total Available Water for ODP	4.96	

* plant capacity. Safe yield well in excess of 65 mgd.

These tables detail the assumptions for this scenario and the associated severity.

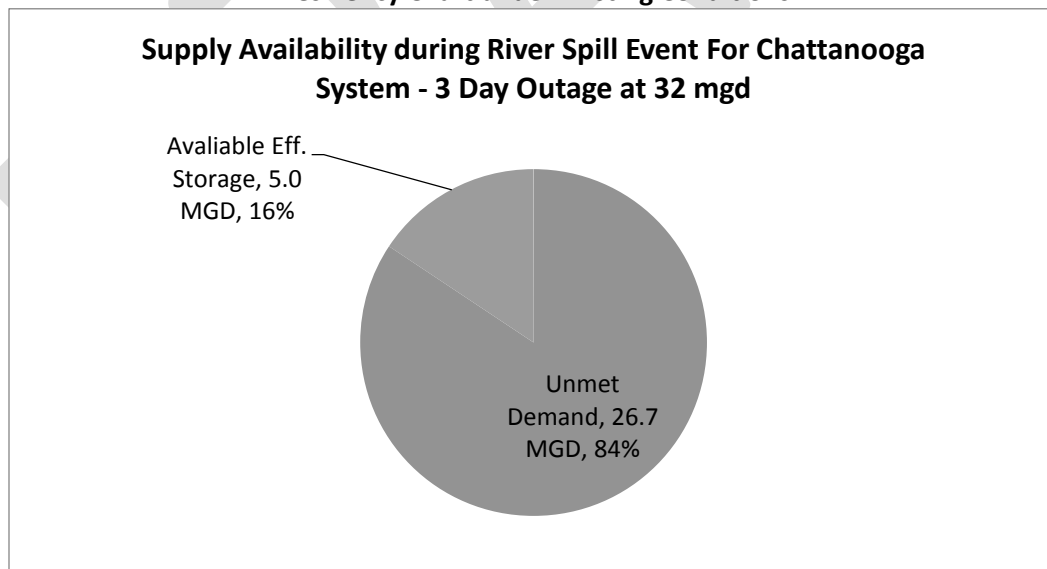
Scenario 1: Level 4 – Loss of Tennessee River Supply Due to Contamination

Storage Analysis: See Figure for time to storage depletion vs. demand reduction level.
Impact Level 4: Assumes a 3 day outage until contamination is resolved.
Requires a > 53% reduction to maintain service for 3 days.
Volume is equivalent to 69,000 customers w/o service for 96 hours.

Resiliency Outage Impact Matrix

Duration	number of customer equivalents impacted				
	<100	101-1,000	1001 - 10,000	10,001-100,000	>100,001
<8 hours	1	1	2	2	3
8-24 hours	1	2	2	3	3
25-48 hours	2	2	3	3	4
49-96 hours	3	3	3	4	5
>96 hours	3	4	4	5	5

Figure 1
Resiliency Chart under Existing Conditions



APPROACH

A set of alternatives were evaluated that would enable the delivery of 26.73 mgd over a three day period to the Chattanooga system. The alternatives were evaluated based first on their ability to provide the deficit of 26.73 mgd, then on feasibility, and finally on a risk versus cost analysis. The alternative that best met these criteria was selected as the recommended alternative. The alternatives were developed based on knowledge developed during the ongoing Comprehensive Planning Study ("CPS"), as well as ideas that were discussed

during Business Service Engineering's ("BSE") meeting with TNAW staff on June 4-5, 2014. Given the challenge of developing a new supply equal to 26.73 mgd that will be utilized infrequently (if at all), the alternatives each have implicit and significant barriers that would not otherwise be encountered for a longer and more sustained supply alternative. Thus the assumption is that the alternatives would be part of a regional Emergency Response Plan ("ERP") that would enlist local, and potentially State and Federal authorities, to assist with institutional and governmental measures necessary to implement either one of these measures.

RECOMMENDED ALTERNATIVE

Table 2, below, summarizes the alternatives which were evaluated in order to achieve the 26.73 mgd of unmet demand over the three day period. Each alternative is discussed in more detail following Table 1, including advantages and disadvantages. A total of six distinct alternatives were first evaluated. Based on the parameters outlined above, the selected alternative (Alternative 1) involves a combination of three of these different alternatives (Phases 1, 2, and 3). This recommended alternative attempts to provide the full capacity of 26.73 mgd for the least cost, with the least risk. The alternative involves placing a floating pump station in the Chickamauga reservoir (located approximately 6 miles upstream from the Citico plant) to pump through temporary flexible piping to the plant, improvements to interconnections, and constructing a new pump station and an alternate intake at the plant (the pump station was discussed with TNAW staff in the June 14, 2014 CPS review meeting – this alternative would extend one of the intakes to the opposite side of the river).

Table 2
Alternative TNAW Emergency Supplies and Recommended Alternative

Alternative Number	Alternative Description	Components	Added Capacity (mgd)	Estimated Cost	Risk
1	Interconnections; Chickamauga Reservoir Pump and Piping; Alternate Intake	*Phase 1, Phase 2 and Phase 3 – shown below.	26.7	\$54,000,000 - \$72,000,000	
	*Phase 1 – Chickamauga Reservoir Pump/Piping	- Floating barge pump station - Flexible pipe to Citico	20.6 – 26.7	\$8,000,000 - \$12,000,000	Rapid Deployment. Piping Storage.
	*Phase 2 – Interconnections	Interconnections to EUD/HUD	1.6 - 6.2	\$6,000,000 - \$10,000,000	Cooperation with Adjacent Districts
	*Phase 3 – Alternate Intake	- New Pump Station at Citico - Intake Pipe Across River	26.7	\$40,000,000 - \$50,000,000	Widespread River Contamination.
2A	Chickamauga Reservoir Pump and Flex Above Ground Piping	- Floating barge pump station - Flexible pipe to Citico	26.7	\$8,000,000 - \$12,000,000	Rapid Deployment. Piping Storage.
2B	Chickamauga Reservoir Pump and Rigid Buried Piping	- Floating barge pump station - Dedicated pipe to Citico	26.7	\$16,000,000 - \$20,000,000	Minimal Risk.
3	TVA Reservoir Raw Water Piping	Raw water main from TVA Reservoir to Citico Plant	26.7	\$30,000,000 - \$60,000,000	Interrupted TVA Operations.
4	Interconnects and Alternate Intake	- EUD/HUD Interconnections - River Floating Pumps	26.7	\$20,000,000 - \$40,000,000	Cooperation with Adjacent Districts.
5	New Citico Pump and Alternate Intake	- New Pump Station at Citico - Intake Pipe Across River	26.7	\$40,000,000 - \$50,000,000	Widespread River Contamination.
6	New Reservoir and Groundwater	- New earthen reservoir - New Groundwater Wells	26.7	\$50,000,000 - \$90,000,000	Land, Permitting, Water Quality.
7	Floating Pump Station in River	- Floating Barge Pump Station - Flexible pipe to Citico	26.7	\$5,000,000 - \$10,000,000	Widespread River Impact, Floating Piping

Alternative 1 – Interconnections, Chickamauga Reservoir Pump and Piping, and Alternate Intake

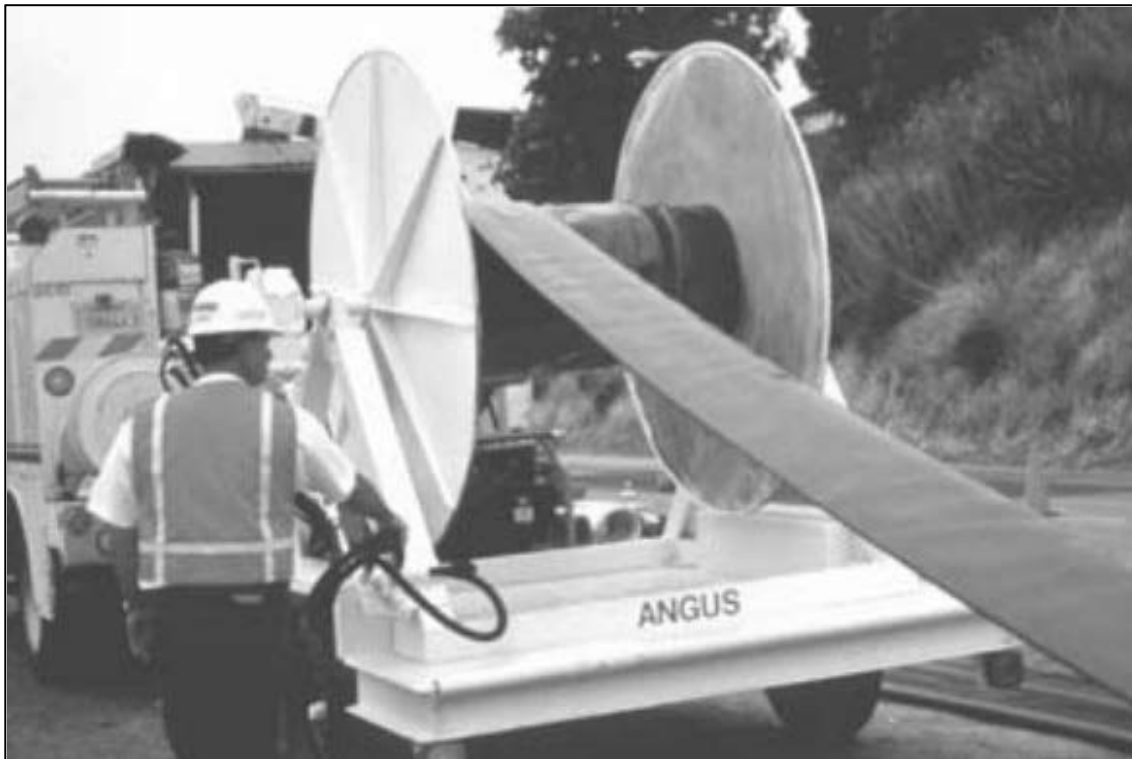
This alternative would provide the necessary water supply in case of an emergency river spill, via three different phases. Phase 1 is to deliver water from the Chickamauga Reservoir, located 6.3 miles upstream of the Citico WTP. Phase 2 is to upgrade and install a number of interconnections between TNAW and two surrounding districts, the Eastside Utility District (“EUD”) and the Hixson Utility District (“HUD”). Phase 3 is to construct a new pump station at the Citico WTP and an associated alternate intake which would extend along the bottom of the river to the other side.

Phase 1 involves sourcing water from the Chickamauga Reservoir, located 6.3 miles upstream of the Citico WTP. A temporary floating pump station, consisting of two floating barges with pumps secured on them, would pump the water through flexible hose along the roadway from the reservoir to the Citico plant. To supply the remainder of the required flow rate (26.7 MGD less the amount supplied by Phase 2 interconnections, or 20.6 mgd), four sets of 12” flexible hose in parallel would be required. This equates to 25.2 miles of 12” flexible hose. A secondary booster pump would be required after 3 miles due to friction loss in the hose. This alternative would require local law enforcement participation as the flexible hose would run along or adjacent to roadways. **Figure 2** is a photo of a similar barge/pump system currently being utilized at ILAW. **Figure 3** is a manufacturer’s photo of the flexible hose being deployed. This phase could be completed and operational within one year.

Figure 2
Alternative 1, Phase 1 – Floating Pump Station



Figure 3
Alternative 1, Phase 1 – Flexible Hose Deployment (Courtesy of Kidde Canada)



Phase 2 involves improving specific interconnections taken from a study conducted for the Chattanooga Public Works Department (Jacobs Engineering, 2011) which assessed water supply availability during an emergency condition in Chattanooga. The study identified specific interconnections between the neighboring EUD and HUD systems that would provide water supply to the city of Chattanooga during an emergency event. The study detailed two phases of improvements which would supply water to TNAW from EUD and HUD, by gravity, while still maintaining adequate service in the EUD and HUD systems. Phase 1 of this mentioned study, which is included as part of this alternative, recommended mainly upgrading existing interconnections between TNAW and EUD and HUD and establishing new interconnections. This involved upgrading three existing interconnections, installing four new interconnections, and installing three pressure sustaining valves. The study conducted for the Chattanooga Public Works Department indicates that these improvements could provide approximately 6.2 MGD to TNAW, although the actual yield is indeterminate and needs confirmation. Based on separate calculations using this study and an operating license renewal application submitted by the TVA to the U.S. Nuclear Regulatory Commission, it is possible that these interconnection improvements may only yield between 1.6 - 3.4 MGD. The reliability of the supply from interconnections is inconclusive and requires further evaluation. Phase 2 could be completed and operational within a few years, depending on how much reinforcement would be required in the three systems.

Phase 3 involves constructing a new pump station on the grounds of the Citico WTP which would draw water from the Tennessee River near the river bank opposite the plant. The project was discussed in the June 2014 meeting with TNAW – the only difference being the extension of one of the intakes to the opposite side of the river. The intake pipe would extend to the other side of the river in order to withdraw water that would not be contaminated. This effort relies on the assumption that a contaminant would not diffuse across the whole cross section of the river, but would be contained on the side of the river nearest the Citico WTP. Once

constructed, this project could supply the full 26.7 MGD needed in case of an emergency. This phase would be a concurrent recommendation in the Chattanooga CPS. **Figure 4** illustrates the placement of the new pump station.

Figure 4
Alternative 1, Phase 3 – New Pump Station and Alternate Intake

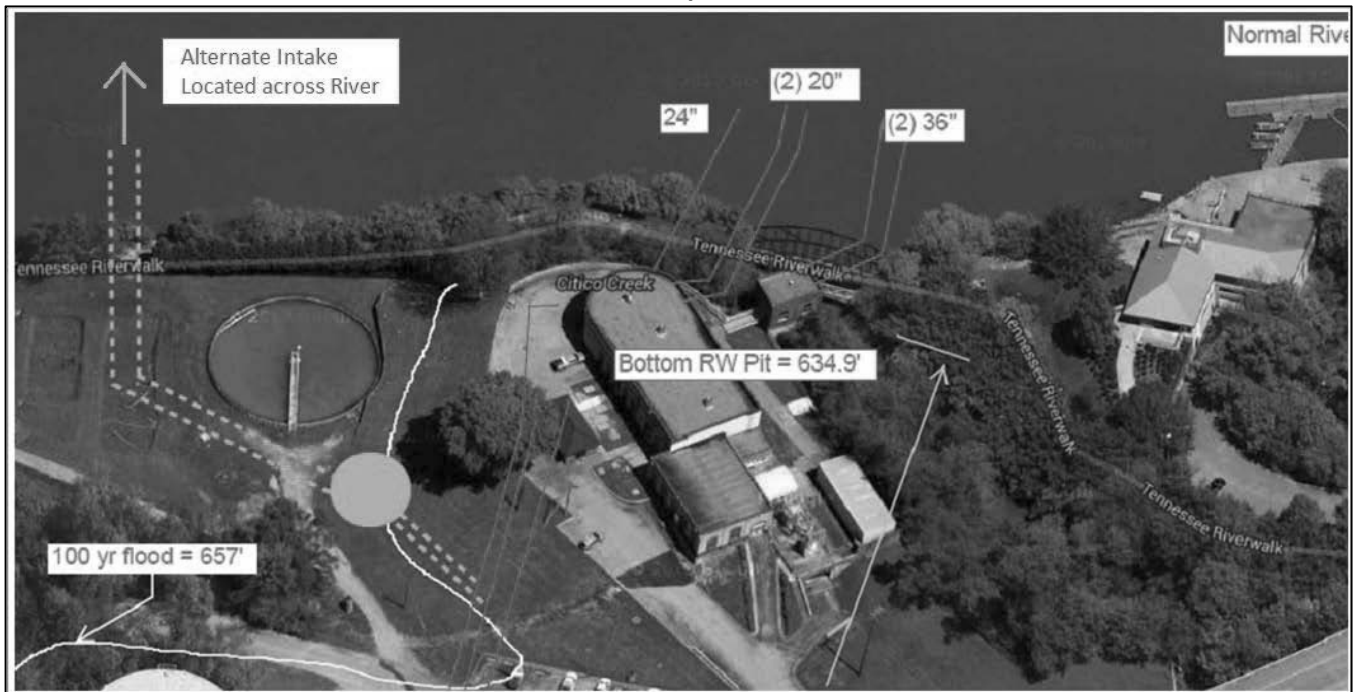


Figure 5 below displays the map of each Phase of Alternative 1.

Figure 5
Alternative 1 (All Three Phases) – Map View

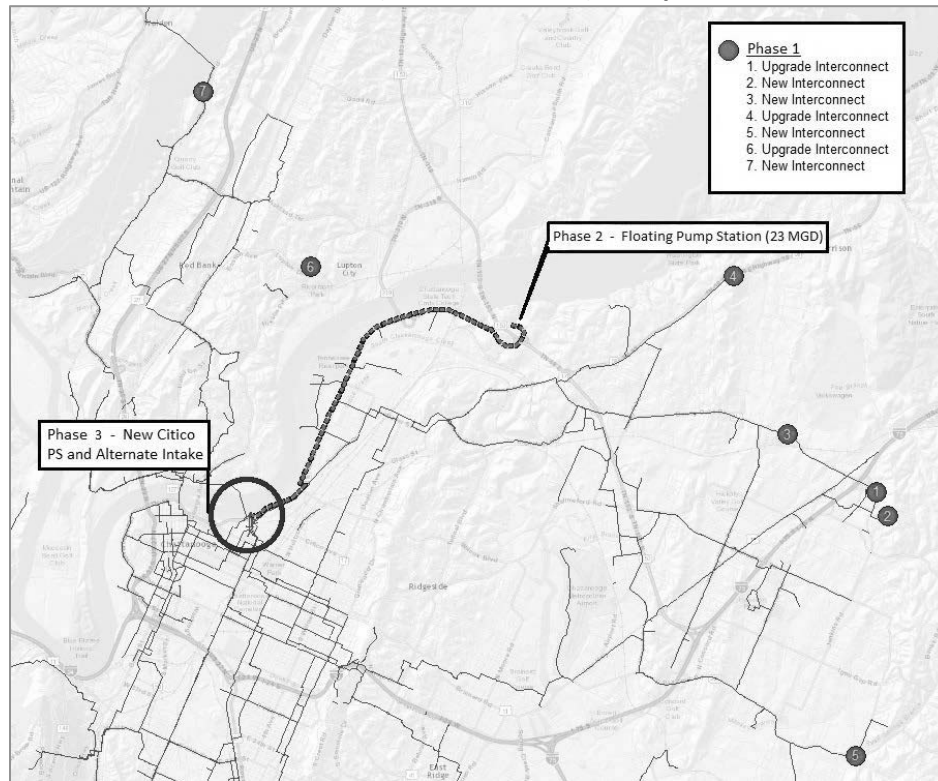
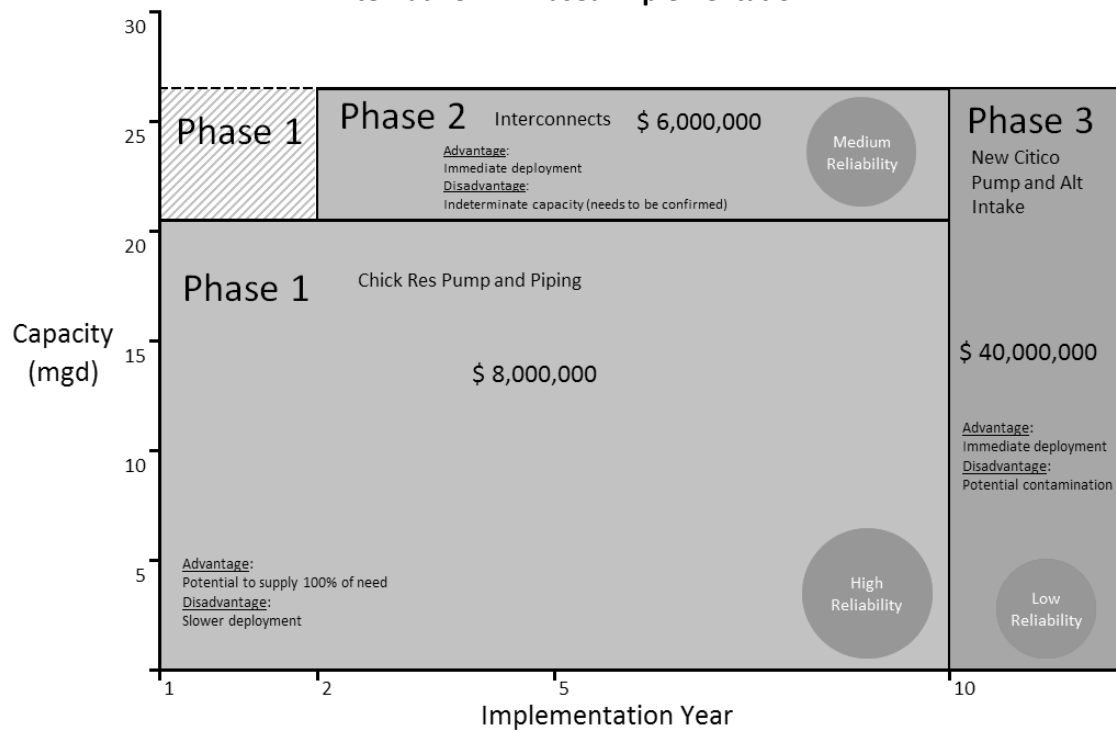


Figure 6 displays a rough timeline for implementing the phases. Phase 1 and 2 would be able to supply the full amount needed in an emergency scenario. Upon completion of Phase 3, the needed supply could be provided solely by Phase 3 or by a combination of Phase 1 and 2, providing a level of redundancy.

Figure 6
Alternative 1 – Phased Implementation



ASSUMPTIONS AND RELATIVE ADVANTAGES

There are advantages and disadvantages to each of the alternatives, and also to each phase of the selected alternative. The advantages and disadvantages are discussed below. Each alternative also includes various assumptions that are highlighted below.

Alternative 1 (Selected Alternative) – Interconnections; Chickamauga Reservoir Pump and Piping; Alternate Intake

Advantages Phase 1 – This phase would not require construction of permanent infrastructure. The flexible hose pipe could be multi-purposed for other applications. This phase utilizes a proven technology.

Phase 2 – Water supplied by interconnections is already treated, and would be able to flow into the TNAW system by gravity without pumping. These interconnections can be constructed and operational within a few years.

Phase 3 – Potentially no disruption of service as alternate intake only requires opening and closing valves. A new intake would only marginally increase the overall cost of the proposed CPS pump station.

Disadvantages/Risks Phase 1 – This phase requires a comprehensive and substantial emergency plan, as well as considerable manpower in deploying the flexible hose and floating barge pump station. This alternative assumes that the flexible hose system would be rapidly deployed, within 6.5 hours, which is the amount of time existing storage would be able to supply the TNAW system with water before available storage is depleted, as displayed in **Table 1**. There is also the risk that the hose deteriorates over time.

Phase 2 – Interconnections require political coordination with adjacent districts, which may prove challenging. Water quality would be impacted by potential flow reversals due to open interconnects.

Phase 3 – There is an uncertain, potentially high risk of widespread river contamination, necessitating extensive testing of the river to ensure that the alternate intake is not contaminated.

Assumptions

This alternative assumes that the interconnections as suggested by the referenced study will provide 6.2 MGD to the TNAW system. If this supply is less, then Phase 1 will need to supply more than its listed capacity, and an additional 12" hose running from the Chickamauga reservoir will be required, bringing the total number of pipe in parallel to five. Phase 1 assumes that the water upstream of the dam is not contaminated, and Phase 3 assumes that the Tennessee River is not contaminated at the point of the alternate intake, but that the contamination would be contained on the side of the river nearest the Citico WTP. The recommended alternative requires a comprehensive and substantial emergency response plan ("ERP") to be in place, and will require some road shutdowns and detours. The raw water sent to the plant can be discharged into the 60-inch diameter pipeline which flows into the raw water control building.

Alternative 2A – Chickamauga Reservoir and Flexible Piping Alternate Intake

This alternative would provide the necessary water supply in case of an emergency contamination by delivering water from the Chickamauga Reservoir, located 6.3 miles upstream of the Citico WTP. The alternative, similar to Phase 1 of the recommended alternative, requires a temporary floating pump station to be placed in the reservoir, and flexible hose along the roadway from the reservoir to the Citico WTP.

The pump station would consist of two floating barges as described in Phase 1 of the recommended alternative, and flexible hose would be used to transport the raw water to the Citico WTP. To accommodate the required flow rate of 26.7 MGD, five sets of 12" flexible hose in parallel would be required. This equates to 31.5 miles of 12" flexible hose. A secondary booster pump would be required after 3 miles due to friction loss in the hose. This alternative would require local law enforcement participation as the flexible hose would run along or adjacent to roadways. This alternative would provide the full needed supply of 26.7 MGD in case of an emergency contamination. **Figure 2** and **Figure 3** on previous pages display a barge unit and deployment of the flexible hose. See **Appendix A** for map of Alternative 2A.

Advantages

This alternative is relatively inexpensive, and would not require extensive construction of permanent infrastructure. The flexible hose pipe could be multi-purposed for other applications. The alternative utilizes a proven technology.

Disadvantages/Risks

This alternative requires a comprehensive and substantial ERP, as well as considerable manpower in deploying the flexible hose and floating barge pump station. There is also the risk that the hose deteriorates over time.

Assumptions

This alternative assumes that the contamination incident occurred downstream of the Chickamauga reservoir, and that the reservoir itself is not contaminated. If a chemical contamination occurred upstream of the dam, the Chickamauga reservoir would be contaminated and unfit as a raw water source. This alternative also assumes that the flexible hose system would be rapidly deployed, within 6.5 hours, which is the amount of time existing storage would be able to supply the TNAW system with water before an alternate water source is required, as displayed in **Table 1**. This would require a comprehensive ERP to ensure rapid deployment as mentioned in the disadvantages/risks listed above.

Alternative 2B – Chickamauga Reservoir and Buried Piping Alternate Intake

This alternative is similar to Alternative 2A except that the water from the Chickamauga Reservoir would be transported by new 30" water mains installed in existing roadways.

Advantages

The primary advantage to this alternative is piping that is already in place.

Disadvantages/Risks

This alternative requires multiple miles of new water main which would only be used in the case of this emergency. This may be a stranded asset, as well as require maintenance. Risk would also reside with the implementation of the temporary pump station.

Assumptions

This alternative assumes that the Chickamauga reservoir is not contaminated as described in Alternative 2A above.

Alternative 3 – Tennessee Valley Authority ("TVA") Reservoir Raw Water Piping

This alternative provides necessary water supply in case of an emergency contamination by delivering water from the Raccoon Mountain Pumped-Storage Plant Reservoir ("RMPS"), owned by the TVA. This would require 11 miles of water main from the RMPS to the Citico WTP. The water would be fed by gravity to the Citico plant, eliminating the need for pumping. A water withdrawal agreement with the TVA would need to be worked out. This alternative would provide the full needed supply of 26.7 MGD in case of an emergency contamination. See **Appendix A** for map of this alternative.

Advantages

This alternative supplies water to the Citico WTP from the RMPS by gravity, eliminating the need for pumping.

Disadvantages/Risks

This alternative requires coordination with the TVA for water procurement, and has the longest required water main length of the alternatives discussed. Large diameter pipeline would extend through city streets.

Assumptions

This alternative assumes that TNAW drawing water from the RMPS would not affect TVA operations. Given that the reservoir has a storage capacity of approximately 12,000 MG, TNAW emergency withdrawal would likely not affect the TVA operations.

Alternative 4 – Interconnections and Alternate Chickamauga Intake

This alternative includes the construction of a new pump station at the Citico plant and interconnects to EUD and HUD. The study referenced in Phase 2 of the recommended alternative identified two phases of improvements to provide water supply during an emergency event from neighboring utilities. These two improvement phases would be able to provide approximately 75% of the water needed during an emergency situation. Phase 1 suggested upgrading existing interconnections between TNAW and EUD and HUD and establishing new interconnections. This involved upgrading three existing interconnections, installing four new interconnections, and installing three pressure sustaining valves. Phase 2 recommended installing new transmission mains in the TNAW system to provide additional water from EUD to TNAW in case of an emergency. This involved installing four new water mains for interconnections and TNAW distribution system improvement. This study indicates that these improvements would supply 23.6 MGD to TNAW, though this

number is estimated and requires further study, as mentioned in Phase 2 of the recommended alternative. Since the supply from interconnections is less than the emergency supply deficit, another additional source of water would be required. The remaining 5.2 MGD would be supplied by a new pump station and alternate intake, similar to the one described in Alternative 2A above. See **Appendix A** for map of Alternative 4.

Advantages

The majority of this alternative supply would be treated water obtained from interconnections, as only 19% of the needed supply would be from a raw water source. Based on the 2011 evaluation, water from interconnects would flow by gravity without pumping.

Disadvantages/Risks

Interconnections require political coordination with adjacent districts, which may prove challenging. The interconnections do not supply 100% of demand during emergency, requiring additional water to be sourced from Chickamauga Reservoir via flexible hose pipe. Water quality would be impacted by potential flow reversals due to open interconnects.

Assumptions

Several sources provide different listed capacities of the EUD and HUD systems. This alternative assumes that the interconnects are able to supply 23.6 MGD to the TNAW system. The interconnection study used a planned future capacity for the EUD rather than a present capacity. Using a present capacity in the calculations would generate a smaller estimated yield. Additionally, other reports list smaller capacities for the EUD and HUD treatment plants than those listed in this interconnection study. It is possible that the EUD and HUD systems may be able to supply a maximum of between 1.6 - 23.6 MGD through interconnections to the TNAW system. For this report, it is assumed that the interconnections could supply 23.6 MGD, according to the interconnection study, though it is important to note that this capacity requires further study.

Alternative 5 – New Citico Pump Station and Alternate Tennessee River Intake

This alternative, included as Phase 3 of the recommended alternative, provides necessary water supply in case of an emergency contamination by sourcing water from an alternate Citico WTP intake in the Tennessee River. A new pump station would be constructed on the grounds of the treatment plant, and an intake pipe would draw water from the Tennessee River near the river bank opposite the plant. The intake pipe would extend to the other side of the river in order to withdraw water that would not be contaminated. This alternative could provide the full needed supply of 26.7 MGD. See **Appendix A** for map of this alternative.

Advantages

Potentially no disruption of service as alternate intake only requires opening and closing valves. Also, a new pump station is under consideration for the CPS – a new intake would only marginally increase the overall cost of the proposed pump station.

Disadvantages/Risks

There is an uncertain, potentially high risk of widespread river contamination, necessitating extensive testing of river to ensure that alternate intake is not contaminated.

Assumptions

This alternative relies on the assumption that the river experiences plug flow, and therefore a contaminant would not diffuse across the whole cross section of the river, but would be contained on the side of the river nearest the Citico WTP. This assumption would require extensive, rapid testing to ensure that the alternate intake point is not contaminated.

Alternative 6 – New Earthen Reservoir and Groundwater Development Exploration

This alternative provides necessary water supply in case of an emergency contamination by sourcing water from a potential reservoir located 4.0 miles upstream and across the river from the Citico WTP. The location was identified by TNAW as a possible land sale. The reservoir would be situated on a 300 acre parcel of land, with an approximate footprint of 30 acres, and would store 90 MG for use in the emergency. The reservoir would be filled by a pump station drawing water from the river, and an outlet pump station would send water from the reservoir to the Citico WTP through a 30" main. In addition to the reservoir, groundwater development exploration could be conducted on the same property to determine the feasibility of new wells in the parcel to supply the reservoir. See **Appendix A** for map of this alternative.

Advantages

A large volume of water would ensure adequate supply for multiple day recovery.

Disadvantages/Risks

This alternative involves an extensive land acquisition and permitting process. Additionally, the reservoir requires a pump station, and water quality will likely be an issue due to the infrequent demand on the reservoir. The reservoir and pump station will also require maintenance.

Assumptions

This alternative assumes that TNAW would be able to acquire the land in question and the proper permit in order to construct a new reservoir.

Alternative 7 – Floating Pump Station Downstream of Chickamauga Reservoir

This alternative provides necessary water supply in case of an emergency contamination by drawing water from a floating pump station located across the Citico WTP in the Tennessee River. A new pump station similar to Alternative 2A would be used, and the pipe would discharge into the 60-inch diameter pipeline which flows into the raw water control building. The deployment location of the floating pump station would need to be determined by best engineering judgment, as the extent and spread of the contamination would require case-specific location selection. Additionally, all or some of the river may require closure to river traffic. This alternative is able to provide the full needed supply of 26.7 MGD. See **Appendix A** for map of this alternative.

Advantages

This alternative would not require extensive construction of permanent infrastructure, and the flexible hose pipe could be used in other applications as well.

Disadvantages/Risks

There is a high risk of widespread river contamination, necessitating extensive testing of the river to ensure proper placement of the floating pump station. This concept was taken from ILAW, who uses the barge during extreme drought conditions but requires very little piping and the barge and pumps are close to shore. Thus, in addition to the unknown extent of contamination, there are additional challenges with the logistics involved with floating a pump station to the other side of the river, including more extensive piping deployment in a marine condition, electrical wiring to the pumps, logistics with river traffic etc. For these reasons this is considered a "high risk" alternative, even though the apparent cost is low.

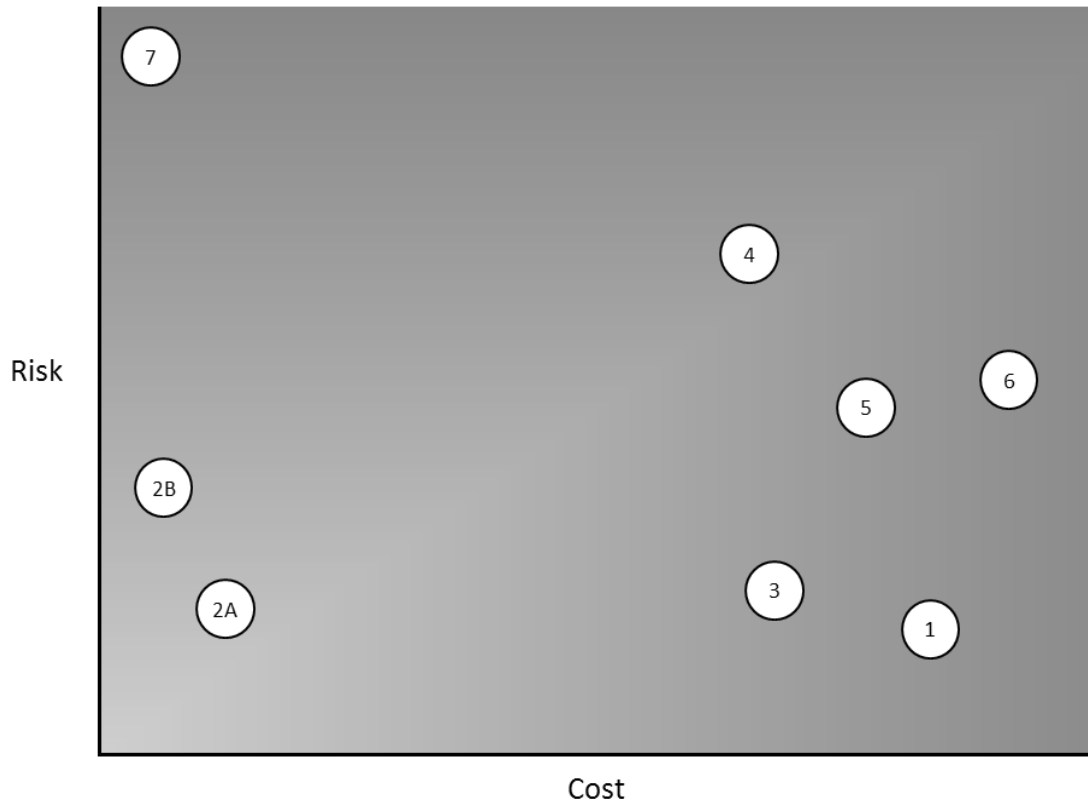
Assumptions

This alternative assumes that the floating pump station would be placed in a part of the river that is not contaminated. This would require extensive, rapid testing similar to Alternative 5 to ensure that the intake point is not contaminated.

RECOMMENDATION

Figure 7 provides a quantitative (cost) and qualitative (risk) comparison of each alternative. The recommended alternative provides a measure of redundancy as multiple water sources may be utilized to satisfy the unmet demand during an emergency situation.

Figure 7
Cost-Risk Chart of Alternatives



In addition to the proposed alternative, it is recommended that TNAW join the Tennessee WARN (Water/Wastewater Agency Response Network). Tennessee WARN is a network of utilities helping member utilities to respond to and recover from emergencies. The WARN system works to provide emergency aid and assistance from other utilities when a member utility sustains damages from natural or human-caused incidents. More information can be found online at <http://www.tnwarn.org/>. The WARN representative for TN is Hal Balthrop, hal.balthrop@nashville.gov, 615-862-4847.

DRAFT

Critical Asset Management Plan

- 1) Update ERP annually including demand reduction plan & temporary equipment deployment plan.
- 2) Deploy bottled water distribution plan.
- 3) Perform table top exercise to simulate loss of critical assets & associated response.
- 4) Enter into discussions with neighboring utilities to upgrade and establish interconnections.
- 5) Perform hydraulic modeling analysis as part of ERP preparedness to determine strategy to deliver water between gradients.
- 6) Develop a relationship with railway owner to obtain a density study to identify potential contaminants.
- 7) Update Source Water Protection Plan using GIS applications and install water quality monitor at intake.
- 8) Develop an emergency sourcing plan for a temporary alternate intake (floating pump station).
- 9) Initiate a river modeling study to determine quality of water across the river during contamination event.
- 10) Pending the success of #4, upgrade the interconnections.
- 11) Pending the results of #9, advance the concept of a new intake on the Tennessee River.
- 12) Implement system storage improvements per CPS recommendations.
- 13) If #4, 9 are not successful, re-evaluate alternatives presented in this plan.

APPENDIX A

EXHIBITS SHOWING APPROXIMATE LAYOUT AND EQUIPMENT NEEDS FOR:

ALTERNATIVE 2A – Chickamauga Reservoir Pump and Piping

ALTERNATIVE 3 – TVA Reservoir Raw Water Piping

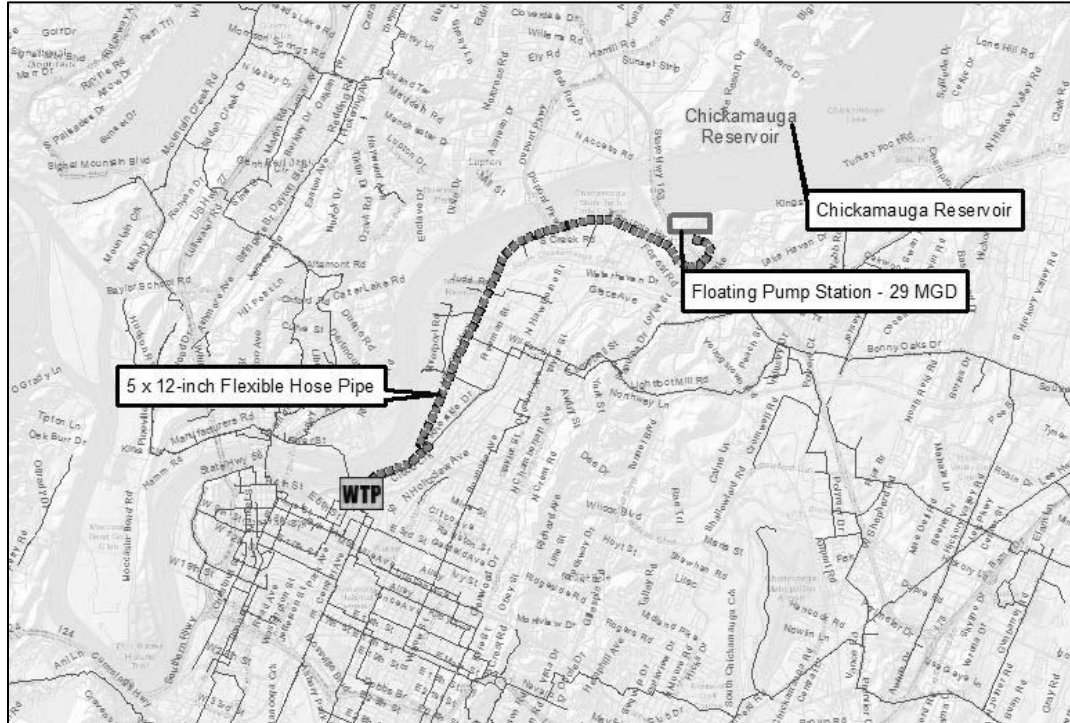
ALTERNATIVE 4 – Interconnects and Alternate Intake

ALTERNATIVE 5 – New Citico Pump Station and Alternate Intake

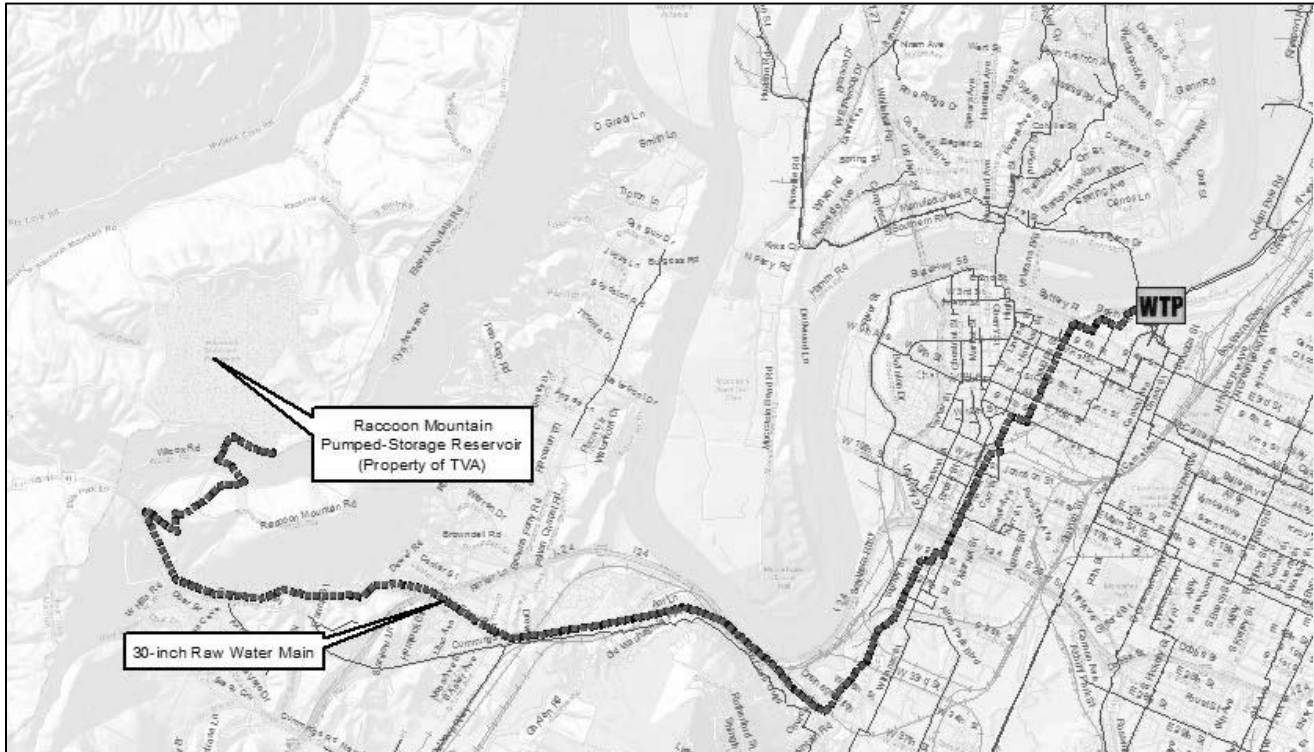
ALTERNATIVE 6 – New Reservoir and Groundwater

ALTERNATIVE 7 – Floating Pump Station in River

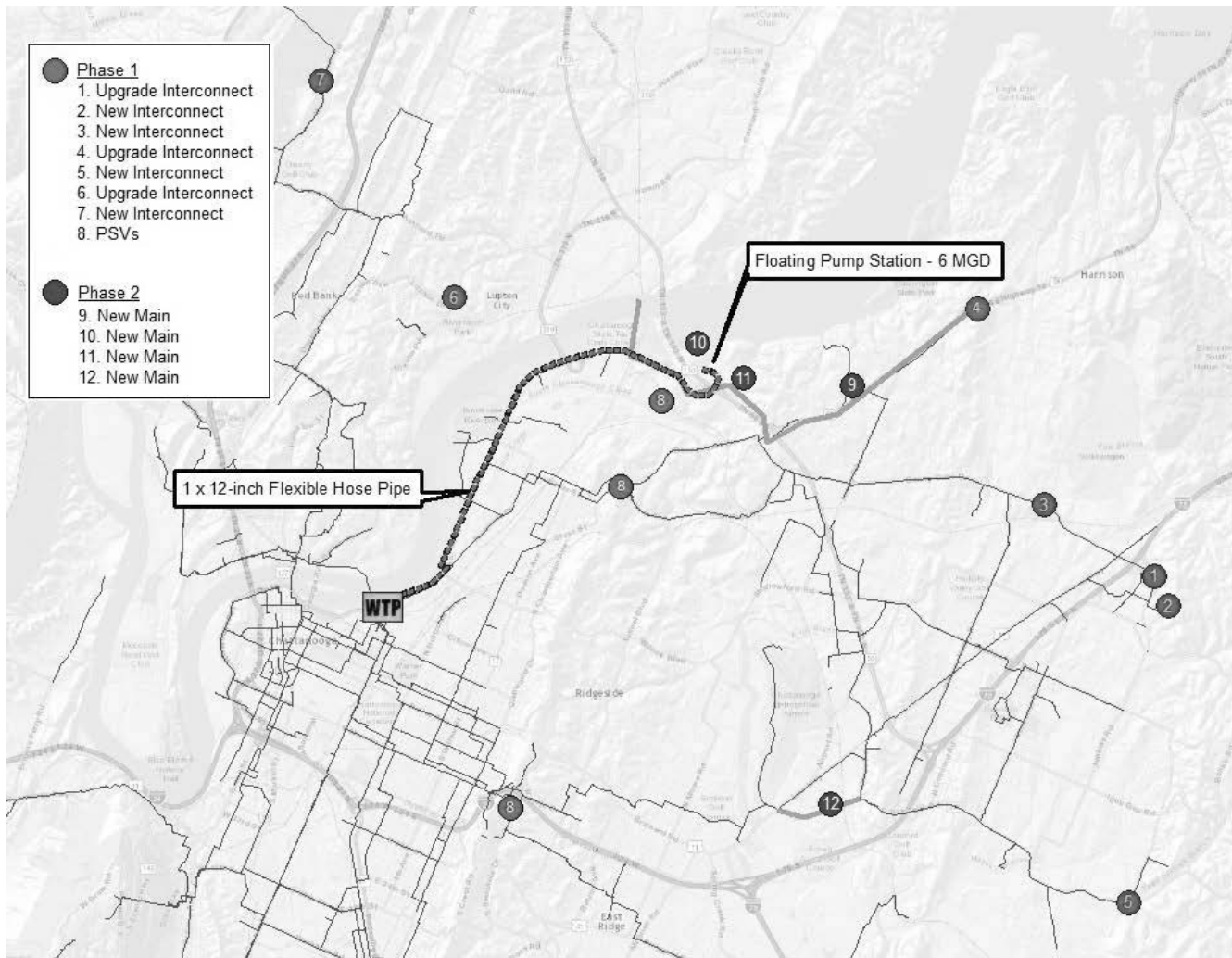
Map of Alternative 2A – Floating Pump Station and Flexible Hose Layout



Map of Alternative 3 – TVA Reservoir Raw Water Piping



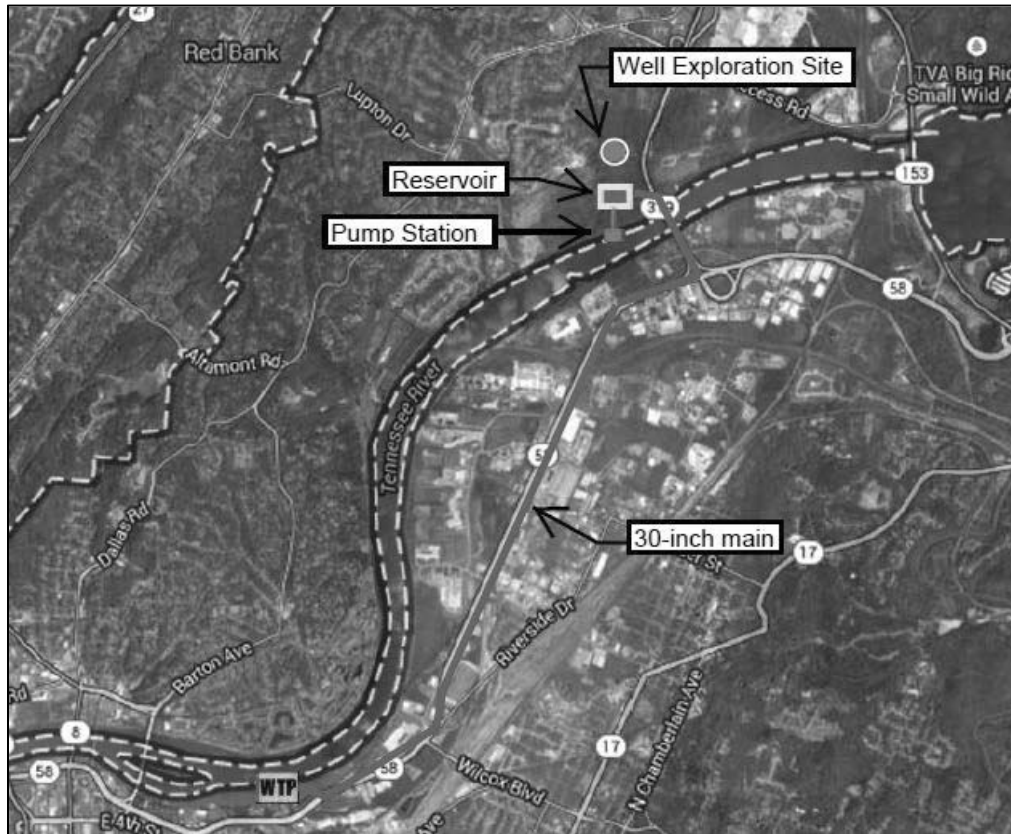
Map of Alternative 4 – Interconnects and Alternate Intake



Map of Alternative 5 – New Citico Pump Station and Alternate Intake



Alternative 6 – Map of Reservoir and Well Exploration Site



Map of Alternative 7 – Floating Pump Station in River



APPENDIX D
ELECTRICAL SITE VISIT TECHNICAL MEMORANDUM

Electrical

Existing Electrical Installations:

Utility Service:

Plant is served from two independent Electric Power Board of Chattanooga (EPB) Utility lines (12.47 KV) to the two utility company provided (2) 5 MVA substation transformers which step the voltage down to the 2,400 VAC, three-phase power distributed in the plant. These substation transformers are owned (*and maintained*) by the power company. Based on discussion with the utility, these units are the original units provided when the plant was constructed, approximately 50 years old, and no issues have been reported. Based on industry standards associated with this type of equipment, these units are considered at (or past) their “end of life” although they appear to be in reasonable physical condition with no signs of corrosion or other physical damage observed.

It is also noted in discussion with EPB that no actual electrical or oil testing was known to have been performed and that no actual schedule or information for any of these tests was available from the power company outlining possible conditional-based maintenance or other testing conducted for inclusion in this report. The Utility reported they do not have a formalized Preventative Maintenance (PM) Program for routine testing of these units and most likely no actual oil testing has been conducted (*not verified*). However, the Utility indicated that should any of their existing 12.47 KV or 2400 VAC equipment require service, modification and/or replacement due to damage or failure is part of their maintenance cost.

During our site investigation, American Water Maintenance Services (AWMS) conducted a limited IR Scan of the Utility’s substation equipment to determine if any conditions are found with the terminations, bus work or other exposed electrical devices. Based on this cursory external review, nothing abnormal was found. (*Note: AW MS reported that they have not found abnormal observations over the past three years of their site investigations as well*) This may be in part due to the light loading conditions associated with these transformers (present demand is only about 30% of the transformers base rating).

We would recommend that TNAW (with assistance from AW MS) consider conducting a further test by shifting all of the load on one transformer (opening a Main and closing the Tie in the MV Switchgear) and operating the plant at its maximum capacity for several hours if possible to generate sufficient load and heating of the equipment to provide further evaluation; then conduct a similar test on the other Utility transformer and incoming Main breaker.

Service Voltage:

Note: 2400 Volt Service to customers is no longer provided by the power company. Instead, if this voltage (*or even 4160 V, 3-phase*) is requested, we were informed that there are two basic options considered;

1. One is for the Customer to obtain service, at the 12.47 KV Utility’s distribution voltage, and to purchase and own the transformers (and related 15 KV equipment “main”).

2. The other is for the customer to pay the power company to actually purchase the equipment; the utility company will then “own” the 12.47 KV – 2400 Volt (or 4160 V) transformers, even though the customer actually paid for them.

While both of these options are somewhat feasible, we believe it is most likely in the interest of the Water Company to actually acquire and own the equipment (option 1) and take electrical service at the higher 12.47 KV point of delivery in order to capitalize this cost.



These EPB Utility Transformers provide the dual electrical service to the facility. Each unit is 5 MVA as is served from the Utility's 12.47 KV “Riverside” and “Ridgedale” power grid circuits. Present demand loading on each service is only about 1.5 MVA indicating that these units are oversized for the facility and more than capable of handling the total load on one unit in the event of an equipment failure or interruption on one of the Utility feeder circuits by utilizing the “Tie” breaker in the Water Company's 2.4 KV MV Switchgear lineup. Additionally, based on the existing record documents this substation has the capability for isolating and providing some reconfiguration switching due to the aerial construction provided (not confirmed) to address some operational scenarios on their end.

One concern observed is the close proximity of these transformers to each other and to the building. In the event of a catastrophic failure of one unit, it would be highly likely that not only both service transformers and outdoor switchgear would be severely damaged or totally destroyed, but also significant damage to the water company structures would also be incurred. *(Main building and oil storage structure close by)* As configured, the two feeds providing power to the facility's main switchgear from these transformers are arranged in the center of the units to transition into the underground feeders terminating in the plant's MV switchgear. This too poses concerns simply due to their close proximity in the event of a significant failure of the transformers.

On-Site Power Distribution:

From the utility substation, each of the two 2.4 KV services terminate in the existing General Electric (GE) switchgear / motor control lineup located in the High Service Pump Station. This equipment is arranged to provide Main-Tie-Main power for the facility allowing limited operation intent in the event of a single utility outage. A one-line diagram of this general switchgear / motor controller arrangement is included in **Attachment E-SK1**.

This 2.4 KV switchgear assembly, while aged, has been maintained in good condition by the plant staff. However, obsolescence and availability of parts does offer a known risk; one already being experienced by the Water Company. This risk will only get more prevalent as time continues making the equipment vulnerable for increased time to repair should parts not be found in timely manner. [Recommendation – Without consideration of the breakers, contactors and fusible switches, obtain known small parts requiring service and replacement and create spare inventory to allow on-going maintenance. Replace obsolete metering and potentially the MMR units with SEL Protective Relays and Metering to avoid further maintenance on these devices.]

Physical (internal) inspection was not performed; a more thorough investigation and documentation of the existing assemblies should be conducted if considerations for retrofit / retro-build type equipment are to be considered. Much of this inspection can be accomplished by the facility in conjunction with AW Maintenance Services in order to ascertain specific documentation on the equipment, modifications and condition of this lineup. [Discussion with AW MS Group has requested internal inspection and documentation of the various assemblies; components, model #s, configuration, etc. in order to develop further recommendations which may be appropriate for this equipment if it is determined to leave this lineup in place. Again, while aged, no issues were found from the IR scan conducted by AW MS during their field investigation in November, 2104. Their reported equipment documentation is included in Attachment A to this Section.]

While replacement of this aged equipment is definitely an option, there may be some other alternatives available to provide a renewed installation using the existing structure, and buswork; replacing / retrofitting these circuit breaker and starter sections with new components, protective relaying, metering and controls. Other options along with the advantages and disadvantages to each will be discussed in more detail in this report.



View of Existing Medium Voltage Switchgear Lineup

Medium Voltage Switchgear / Motor Controller Assembly:

This lineup consists to a “Main-Tie-Main” medium voltage circuit breaker arrangement in essentially the center of the assembly with the motor and feeder circuits arranged on each end. This allows the unit to be normally supplied from the two (2) Utility feeds keeping the Tie breaker “open”. In the event of a single utility power failure, the affected Main is opened and the Tie closed – re-energizing the entire assembly from the remaining single utility source. Note – there is no capability for installation / connection of a Standby Generator source should there be a complete failure of both utility services.

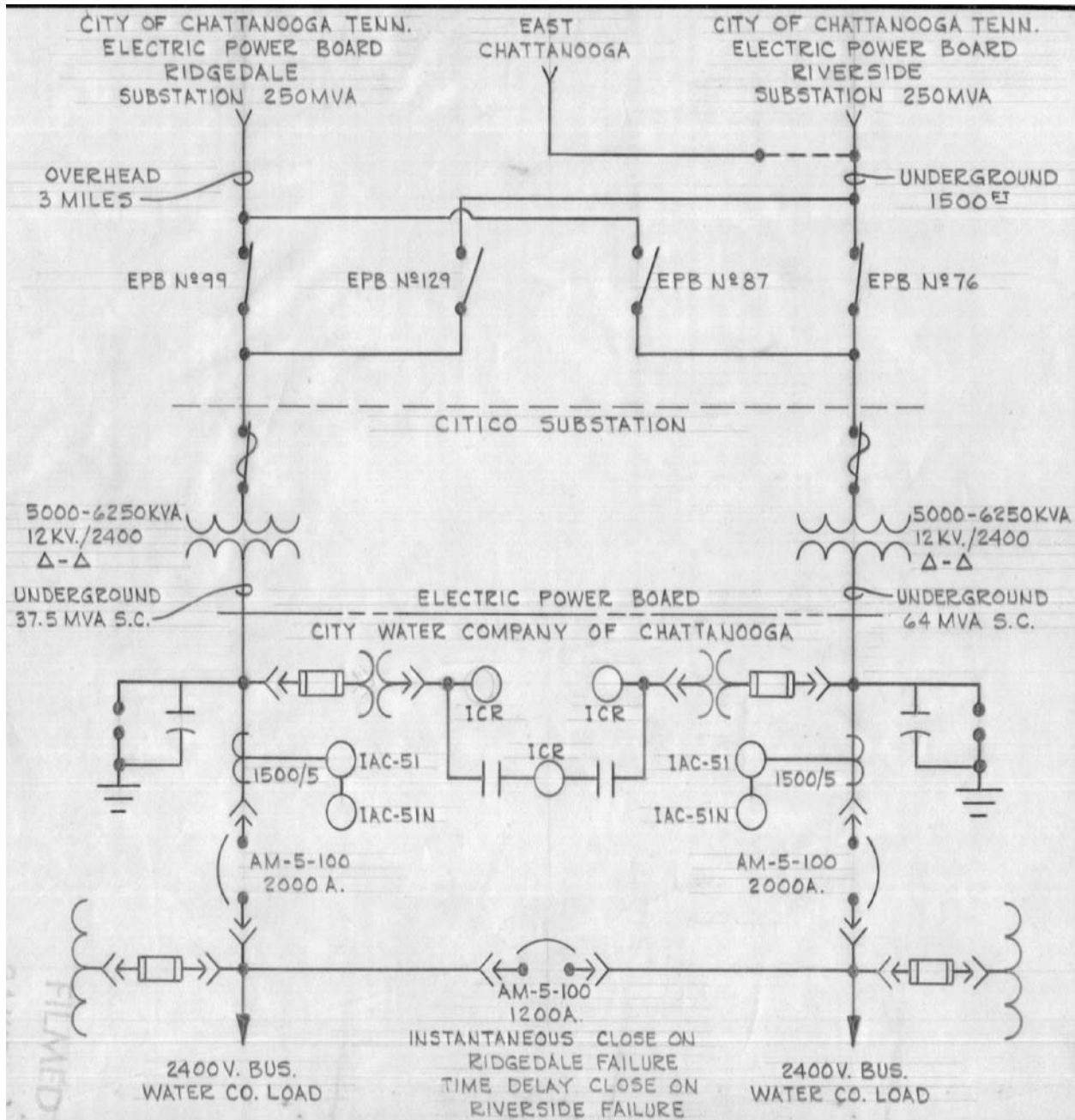
The Main-Tie-Main configuration includes automatic transfer of power from one source to the other in the event of a utility power outage and is set up for manual re-transfer of power back to the open Tie by plant personnel after it is confirmed the utility is stable and to permit motors to come to a stop before transferring (avoids significant damage to equipment if out-of-phase transfer was permitted). The electrical transfer controls are not configured to allow the system to synchronize before transferring power or include any actual programmed time delays to otherwise prevent the transfer operation. This poses a potential significant risk to the facility and life-safety issues to personnel if inadvertently operated.

The Main Circuit Breakers include the use of GE electromechanical type Over-Current Protective (OCP) Relays along with similar type KW/KWH monitoring relays for indicating power usage. These original relays and meters require routine service, testing and calibration. The OCP relays are critical as they control (trip) the Main circuit breakers in the event of a fault or overload in the switchgear. We found no indication of any actual testing or calibration to these devices and plant staff was unaware if any actual testing has been conducted. These devices need to be tested for proper operation and the settings verified for protective coordination with the other OCP devices (fuses, etc.) and Utility devices. If these devices are not set properly, significant risk to equipment and workers could exist due to the medium voltage Main breakers not opening properly in the event of an overload or short-circuit in the facility’s power distribution system

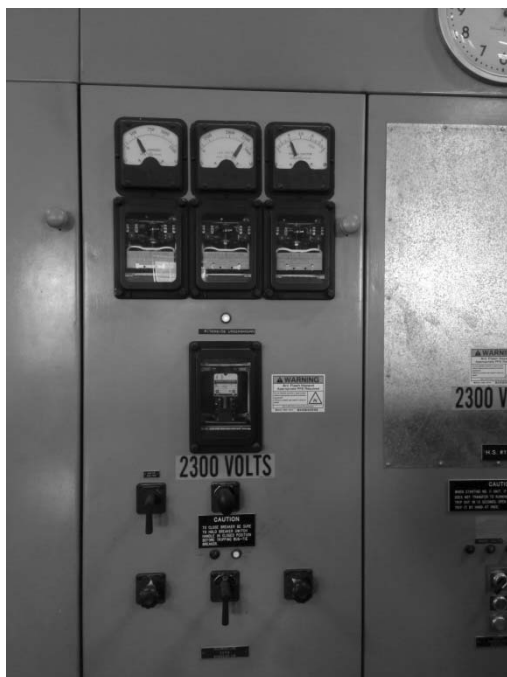
Further review with the plant staff is necessary to see if any record documentation associated with the original power system study which would have been generated when the facility was first designed / constructed. This data would be used if available; otherwise a more detailed power system evaluation including short-circuit, protective coordination is considered required; arc flash hazard analysis would also be included at this time for compliance with Code, OSHA and Company requirements.

The motor protective relays associated with this equipment lineup are GE/Multilin type, Model 469 Motor Protective Relays (MMR) units for motor controller operation (over-current, phase loss, etc.). It is our understanding as well that these relays have not been checked for calibration and motor protective alarm & tripping functions as well or included in the facility's preventative maintenance and testing program. As above, this poses a risk to the equipment, operations and the safety of personnel.

The interface and general utility / water company interface for power distribution at the facility is outlined below.



The Main-Tie-Main Equipment is shown in the following photo



Medium Voltage Sub-Distribution Power and Motor Controllers:

The balance of this switchgear assembly provides power distribution for the motor loads and station facility power as follows:

Right-hand Side of the “Ridgedale Main” Lineup:

This portion of the switchboard assembly provides service / feeders to the following;

- High Service Pump #20 (250 HP)
- High Service Pump #16 (600 HP)
- High Service Pump #21 (600 HP)
- Low Service Pump #22 (600HP)

And, via individually fused tap connections (2) on the back of the switchgear;

- Low Service Pump #12 ** (500 HP) via the GE Limitamp fusible lineup at the left-hand side of this existing switchgear
- Station Power via 2300 – 480/277 VAC Transformer (150 KVA) **
 - This same fuse / switch also now serves (2014 D/B Project) the Thickened Sludge Transfer PS via the 112.5 KVA transformer located at the new Dewatering Facility.

Between the Riverside “Main” and the Tie *(still normally supplied from the “Riverside” utility service)*

- High Service Pump #11 (900 HP)

Left-hand Side of the “Riverside Main” Lineup:

This portion of the switchboard assembly provides service / feeders to the following;

- High Service Pump #17 (600HP)
- High Service Pump #18 (400 HP)
- High Service Pump #19 (400 HP)
- Low Service Pump #14 (600 HP)
- Low Service Pump #15 (600 HP)

And, via individual fused tap connection on the back of the switchgear;

- Low Service Pump #20 ** (400 HP)

*** As shown in the photo below these last three (individually connected) sections are GE “Limitamp” (fusible load-break switch only) in lieu of the GE Switchgear and Motor Controller Assemblies associated with the main assembly lineup. These fusible switched provide 2.3 KV feeders to the Station Service Transformer as well as the step-down transformer/ 480 VAC Starter for LSP#13 and the step-down transformers associated with the RVSS Starter and separate transformer for the VFD associated with LSP#12. These devices do not contain contactors or any actual control devices; only fuses for over-current circuit protection. (See photo below). They are identified on the oneline drawing as “1997 MV-SWGR.*

Medium Voltage Power Distribution and Motor Control:

Medium Voltage Limitamp Switchgear This lineup (*photo below*) is comprised of three individual switches as outlined in the attachment online and described herein. Two of these units are non-fused load-break assemblies; the other is presumed to be a fusible switch based on the drawing information. We were unable to open this unit for physical verification since it serves the building low voltage power transformer and the new Thickened Sludge Transfer System. It should be noted that they do not serve as motor controllers; they are sub-distribution devices to serve the transformers associated with power distribution along with the individually mounted VFD and Starter assemblies outlined.



Individually served Fusible Switches units associated with power and motor controller feeds

Medium Voltage Motor Controllers (*those in the main switchgear lineup*) are GE Limitamp type; comprised of a fusible switch and vacuum contactor units controlled by the Multilin 469 MMR relay for each High Service and Low Service Pump. Additionally, HSP#11 (900 HP) utilizes a Reduced Voltage Reactor Starter configuration to limit the starting current associated with this larger motor. The controls associated with this assembly are similar (Multilin 469 MMR) for motor protection, but also include additional internal controls for the switching of the auto start to run contactors in this motor controller. These units are still produced today using updated technologies similar to previous equipment; these starter/motor controllers utilize a fused isolation switch and vacuum contactor with solid-state controls and protective relay devices such as the Multilin MMR's presently provided in this existing assembly.

The physical arrangement provided by the present medium voltage system places three of the Low Lift Pumps (LLP#13 & #15) on the Riverside service and two (LLP#12 & #22) on the Ridgedale service. Those LLP's supplied at 480 VAC are supplied via the GE Limit amp fusible switches and sub-distribution transformers associated with the drives and starters.

All of the High Service Pumps are directly served from this main switchgear assembly as shown on the attached online diagrams.

Low Voltage Station Power (240 VAC) systems are provided through a 150 KVA 2.4 KV, 3-phase, ungrounded delta – 240 VAC, 3-phase, ungrounded delta transformer supplied from a fusible switch in this MV Switchgear. Service from this transformer terminates in a 600 A Main Circuit Breaker and Sub-Distribution Panelboard (below) which then provides the various low voltage feeders to other buildings and equipment throughout the facility.

It is noted that this same fusible switch is also being used to source a new transformer associated with the dewatering project currently under construction. The use of this same single point of connection for all of the low voltage power at the facility and the additional reliance for the new work poses concerns to the overall reliability of these installations.

Note: Additional branch circuit distribution panels (as identified in the photos below) and local step-down transformers are located throughout the facilities to provide the local 120/240 VAC power needed for lighting, receptacles and other miscellaneous circuit loads. These have not been included in this site investigation report but should be considered in the event of any significant modifications and/or upgrades to the facility. The photos below show the main 240 VAC power distribution panel located in the HSP station.



GENERAL CONCERNS:

- A. Continuing reliance on the existing GE MagnaBlast Main-tie-Main circuit breakers poses some risks to the facility in the event of a single failure. Some failures may relate to:
 - a. Protective relay operation
 - b. “Elevator” (the racking mechanism) alignment and/or drive motor operation
 - c. Circuit breaker components – contacts, coils, etc. and the availability of replacement parts

The risk to the facility under these scenarios may vary from several hours to affect replacement work to days (or weeks) to find major elements and make repairs. In the event of a catastrophic failure or one of these Main devices, significant damage could

also severely damage the entire main distribution switchgear assembly. While this extreme level of damage is remote, it is possible given the overall age of the equipment.

- B. The electromechanical protective relays associated with the switchgear do not appear to have been tested and calibrated as there is no evidence of this reported on the switchgear or by the staff. While these relays are generally considered to be highly reliable, they require periodic maintenance. If these malfunction, significant damage to the switchgear, cabling and the served equipment can result.
- C. Similarly, the Multilin medium voltage motor protective relays need to be tested and calibrated on a routine maintenance schedule. Should any of these devices fail or malfunction; motor damage as well as damage to the motor controller / contactor assembly could result. Given all of these, with the exception of HSP #11, are full-voltage, non-reversing (FVNR) type assemblies, the number of components in the control and operation of these starters is minimal making the risk to the overall switchgear assembly low. Additionally, there are multiple motors which can be used to maintain facility operations in the event of a single failure. Nonetheless, these protective relays should be tested and calibrated along with conducting routine testing of the contactors and other components. Since the starter associated with HSP #11 (900 HP) is a reduced voltage, reactor start type of assembly, there are more components involved which increases the potential risk of failure to this controller assembly.
- D. As discussed, the facility's 240 VAC station power is served from the Riverside source and is totally dependent on the use of the "Tie" breaker to restore power in the event of a similar interruption of power. We believe the loss of general 120/240 VAC power would result in loss of ancillary systems most likely causing a potential shut-down of the facility or possible NOV.

These situations and the final configuration for supplying power to the various motors/pumps need to be coordinated with final recommendations from operations/production, and the process upgrades being developed and proposed in this overall CPS Report. Our consideration for electrical upgrades and modifications are based on considering Alternative #3 or #4, a new LLPS structure located remotely from this existing building. In developing the electrical modifications for this new LLPS installation, we have proposed the opportunity for dual feeders and improved redundancy / reliability.

This configuration is outlined on the Proposed Online Diagrams attached to this report and as detailed elsewhere under the "Options and Recommendations" Section below.

Options and Recommendations:

GENERAL:

Regardless of the Options outlined below, it is recommended that the existing Magna-Blast breakers (Main-Tie-Main) be replaced with new GE Power/Vac Vertical Lift (VL) breakers allowing the existing switchgear to remain. Additionally, the old electro-mechanical relaying should also be replaced with new electronic type units as provided by SEL (AW Preferred Manufacturer) for the specific operation and control interface. These protective relays and power quality metering devices should be provided with communications cards for tie-in to the facility's SCADA system. Cards are available for fiber-optic as well as CAT6 copper communications; fiber-optic is preferred to eliminate any possibility of stray current or voltage being introduced to the SCADA equipment interface.

Providing no changes are made to building equipment (low lift and high service pumps), options which may be considered for addressing continued use and service of the present 2300 volt switchgear and motor controllers include the following:

OPTION A – Retain / Retrofit Existing Switchgear Assembly in Place (2400 VAC)

Note: This option generally presumes no modifications to pumps/motors or that any modifications/replacements of these assemblies will be done as “in-place” upgrades within the existing building.

A. Main Switchgear Power Devices;

1. Replace and Retrofit “Main” and “Tie” Circuit Breakers with updated vacuum breakers as outlined above, replace the PT's and CT's along with all control components and interface terminations.
2. Provide automated control of Tie breaker to provide Automatic operation for not only transferring power from one source to the other, but also to provide safe (synchronized – “in phase”) operation to re-transfer back either automatically or manually (through SCADA and/or at front of equipment)
 - a. In conjunction with this, provide means for “closed-transition, soft-load” transfer of power between sources. This requires coordination and approval from the Utility Company; approval that we have been able to receive on all of our larger MV installations. This would allow the facility to return from one source to the other without interruption to facility operations as well as coordinate other actions and situations as may come up with the Utility.

B. Main Switchgear Protective Relays and Metering;

1. Replace aged GE electromechanical KW/KWH metering devices with SEL 735 PQM metering and integrate into SCADA for monitoring and power usage recording as well as for other essential electrical data.
2. Replace the Multilin protective devices and GE electro-mechanical relays with SEL-751A and/or 357 Series (type to be determined) for breaker operation/protection. As

- above, these devices should be integrated in the facility's SCADA system for monitoring and alarm reporting.
3. Utilize fiber-optic communications to link all MMR's and PQMs over plant network system in SCADA to allow monitoring, alarm reporting, trending and data collection such as "wire to water" calculations to be performed in the SCADA system. This would also allow preventative maintenance
- C. Medium Voltage Motor Controller Sections;
1. Replace Motor Controller Contactors – Present Motor Controller contactor assemblies are vacuum contactor units which are still manufactured and available. The existing units need to be tested, but it is anticipated that they are all on good general condition.
 2. As discussed our General Concerns segment, it is recommended that the existing GE Multilin MMR's be replaced with SEL 710 MMR and integrated into SCADA system for monitoring and alarm reporting.
 3. Other control components should be evaluated; those where it is determined parts may no longer be available or where it is anticipated that they will become obsolete should be obtained and/or replaced with updated and newer technology. The scope of this CPS did not provide this component-level determination.
- D. Medium Voltage Fusible Switchgear Equipment (GE Limitamp Units)
1. These units presently provide separate supply connections to
 - a. Transformer "T-2" which then supplies 480 VAC power to the RVSS starter serving LLP#13.
 - b. The Station Power Transformer associated with the plant and the tapped connection which now serves the Thickened Sludge Transfer pumps.
 - c. Transformers "T-1" and "T-1a" which serve to supply 480 VAC power to the VFD and Bypass Starter associated with LLP#12.
 2. Based on the Process Options associated with replacing the LLP equipment via a new LLPS, two of the three switches could be retired / removed.
 - a. Based on our understanding, the two that will no longer be needed are non-fused type. If these can be retrofit to accept fuses (not verified) they may be able to be retained and re-configured into a different application in conjunction with the process modifications which would allow elimination of the LLP Equipment presently served. Consideration should be given to re-use one of these to directly serve the 2300-480 VAC transformer associated with the Thickened Sludge Pumps (T-4). This would allow removal of the present tapped conductors from switch "b".
 - b. And, the remaining switch could then be used for establishing redundant low voltage power from the Riverside service side of the switchgear. This would then allow redundancy in providing "station" power throughout the facility with reliance on the primary breaker transfer and "Tie" breaker operation.
 3. If these devices cannot be modified for fused application, either the fuses in the 1950's GE Switchgear may be able to be changed or new switches provided to accomplish the concepts identified above.

- E. Medium Voltage Fuses – the fuses listed on the facility’s schedule may or may not still be in service. Many of the fuses observed do not have readily-identified labeling. These fuses provide the sole over-current and short-circuit protection for many of the equipment items and are the only means for interrupting arc flash hazard incidents. All fuses have a time-current characteristic (TCC) curve which will often be different between manufacturers. These differences determine the amount of energy that can be delivered to the equipment.
1. Conduct a power systems analysis and arc flash hazard evaluation for the facility to determine present system parameters as well as if any recommendations are to be implemented.
 2. Obtain “correct” replacement fuses so that in the event of a failure, the “same” fuse can be placed back in service to maintain the level of protection and safety.
- F. Low Voltage Power and VFD/Bypass Starter Systems –
1. This report did not evaluate the low voltage systems in the facility. Our evaluation comments and proposed Options are primarily focused on the medium voltage equipment and primary power distribution systems. Therefore, no specific changes are identified for these installations under this Option other than those concerns and potential modifications expressed previously.
 2. However, the following / limited observations and items are included for consideration.
 - a. Replacement of the 2300 – 240 VAC transformer and low voltage power distribution circuit breaker panelboard should be considered due to aged devices; however it is noted that replacement breakers are still available for this use. This transformer, should be tested and can be replaced if necessary without major impact to facility operations if properly coordinated for the required power outage.
 - b. Low Service Pump # 12 – the VFD and separate Bypass Starter should be evaluated for continued long term service and replaced with a combination VFD and integral Bypass assembly in lieu of the separate devices and transformers presently provided. No reported issues were noted by the plant personnel with this installation. However, as with all solid-state motor controller equipment, obsolescence is inevitable and parts availability becomes an issue in a shorter time frame than with other conventional motor controller assemblies. Based on the long term solutions for production/operations within this existing building, replacement will need to be accounted for in the years ahead. This equipment was not fully evaluated since Process Options associated with a new LLPS are proposed. If implemented, the new equipment will replace the need for these existing units.
 - c. On a similar note, the 2300 – 480 VAC transformers associated with the VFD and Bypass Starter for Low Service Pump # 12 can be tested and replaced if necessary without impact to operations. As above, this equipment was not fully evaluated since Process Options associated with a new LLPS are proposed. If implemented, the new equipment will replace the need for these existing units.

Advantages:

- ✓ Physical layout and configuration represents minimizing costs to facility while addressing obsolescence and general refurbishment and upgrades to this aged equipment

Disadvantages:

- ✓ Without modification, the concerns regarding low voltage power are not fully addressed.
- ✓ Does not address concerns regarding the fusible tapped connections within the Limitamp fusible switch units serving the station low voltage service transformer supply and recently provided 2300 – 480 VAC transformer associated with Thickened sludge Transfer Pump installation as well as the primary tap connection serving the Bypass starter for LLP#12

OPTION B – Replace Existing Switchgear but retain Existing 2.4 KV Service from Utility

Refer to Option D below for possible replacement concept and logistical plan for implementation as part of a process improvements project and facility modification work involving a new Low Service Pump Station located outside / separate from the present building.

Given the good physical condition of the existing switchgear line-up (structure and buswork), this option does not provide a viable solution without involving significant facility upgrades and/or major modifications to the process pumping equipment. However, in conjunction with those modifications outlined for the Low Lift Pumping Equipment and new Low Lift Pump Station, this equipment can be replaced and /or upgraded as part of the phased work outlined in Option D

OPTION C - Replace Existing Switchgear and obtain New 4160 VAC Service from Utility

Refer to Option D below for possible phased replacement concept and logistical plan for implementation as part of a major process improvements project and facility modification work involving a new Low Service Pump Station located outside / separate from the present building

Based on Utility Substation and their criteria, implementing this as a standalone option is not considered feasible. Additionally, all of the existing Low Lift and High Service Pump Motor would also need to be replaced along with the ancillary wiring and interfaces. The combined affect makes this option not economically viable.

OPTION D - AWBSE Recommended Alternative

In conjunction with either of the new Low Service Pump Station (LLPS) options which involve providing a new pump station separate from the existing building (reference general site locations below), this option recommends providing a new outdoor, walk-in enclosed 2300/4160

VAC switchgear arrangement to provide dual service to both the new LLPS and reconnections to the existing 2300 VAC switchgear in the existing building. This new equipment is proposed to be located in the area presently occupied by the maintenance storage building adjacent to the Utility Substation transformers.

Since Medium Voltage equipment in this voltage class is designed for 5 KV and can therefore be applied to the present 2.4 KV, the design would allow considering 4160 VAC Utility Service upgrades and facility applications in the future. The initial design would still rely on connections to the present 2300 VAC service transformers in order to retain the use of the present Utility supplied services. This dual rating does not require any special equipment as 5 KV is the minimum standard for medium voltage switchgear construction; only affect is the ampacity rating of the assembly to address the higher current requirements at 2300 VAC.

Implementation of this Option can be coordinated with the new LLPS work and not interfere with present operations until orderly and scheduled power cut-over outages are needed. Further information regarding conceptual implementation planning will be outlined later on in this report.

This Option, in conjunction with other process improvements and replacement work would then allow replacement of the existing 2,4 KV switchgear and motor controller equipment in the main building (outlined in Option A above) to be conducted with minimal interference to operations and improve the overall reliability/redundancy of the facility by eliminating the sole-source service to the low service pumps as well as balance loading and dual-source capabilities for the high service pumps and station power loads. A phased approach also allows considerations to revise the 2400 volt equipment to more available 4160 volt equipment in the future. As part of that effort, it is recommended that any medium voltage motor being provided be dual wound for 2300 / 4160 VAC service (common configuration). This will allow initial connection to the present voltage available as well as conversion to an upgraded (5 KV) service voltage in the future without further replacement costs.

Refer to the Attached Electrical Sketches and Plans

1. Existing Oneline with Annotations
2. Proposed Oneline Option "D"

Miscellaneous Attachment Data:

Fuse List from Owner – *(not actually field verified)*

Distribution Station Fuse List

DISTRIBUTIVE UNIT #	HORSE POWER	ESTIMATED MOTOR AMPS	FUSE P/N	NEW GE FUSE P/N	FUSE AMP RATING
12	500	120	EJ2-5DD	9F60LCB509	200
13	400	96	EJ2-5DD	9F60LCB509	200
14	600	144	EJ2-5DD	9F60LCB509	200
15	600	144	EJ2-5DD	9F60LCB509	200
16	600	144	EJ2-5DD	9F60LCB509	200
17	600	144	EJ2-5DD	9F60LCB509	200
18	400	96	EJ2-5DD	9F60LCB509	200
19	400	96	EJ2-3DD	9F60LCB506	170
20	250	60	EJ2-7DD	9F60LCB512	230
21	700	168	EJ2-7DD	9F60LCB512	230
22	600	144			

APPENDIX E
MODEL ANALYSIS EXHIBITS

Legend

Predicted Pressures

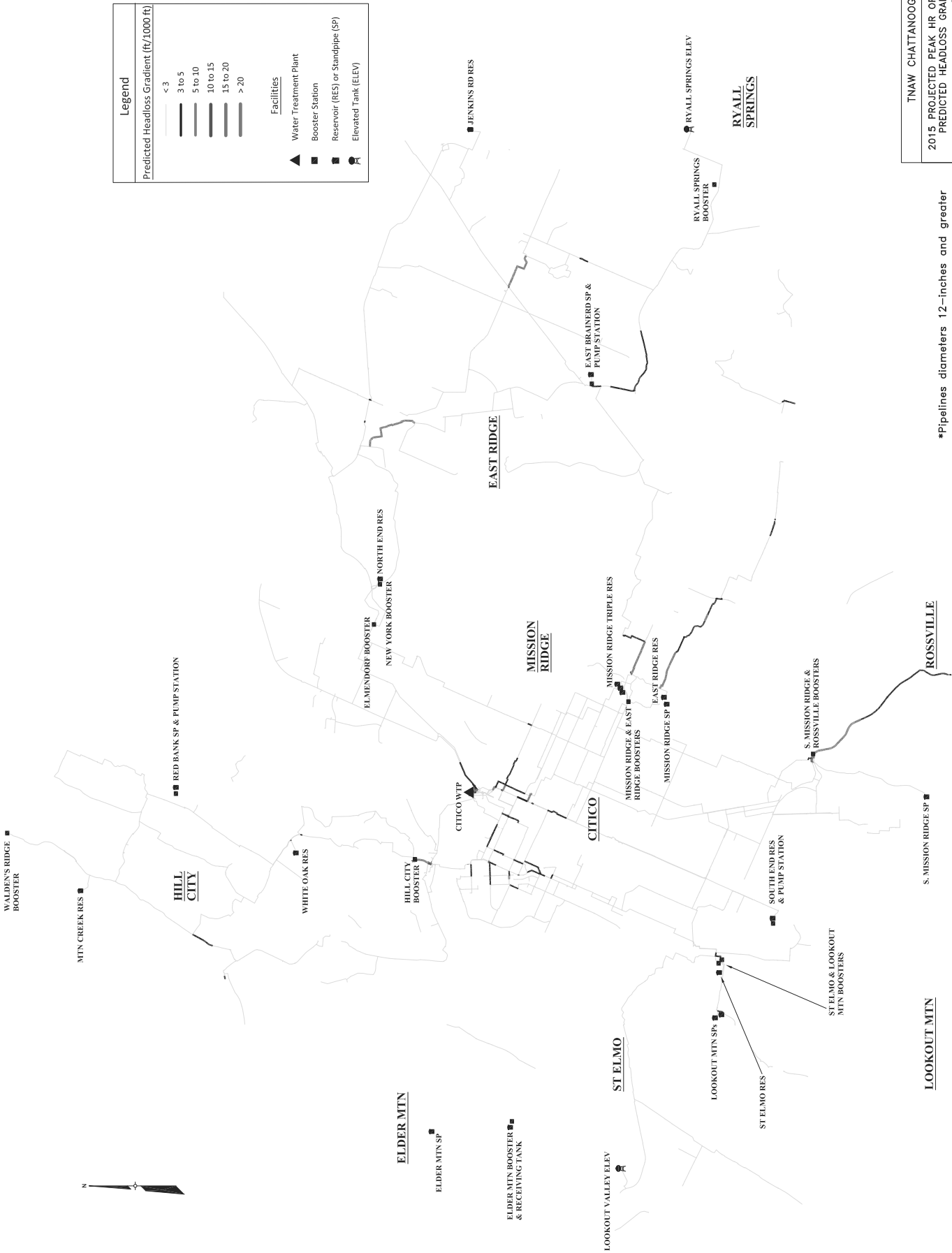
- < 20 PSI
- 20 TO 30 PSI
- 30 TO 40 PSI
- 40 TO 100 PSI
- 100 TO 150 PSI
- 150 TO 200 PSI
- > 200 PSI

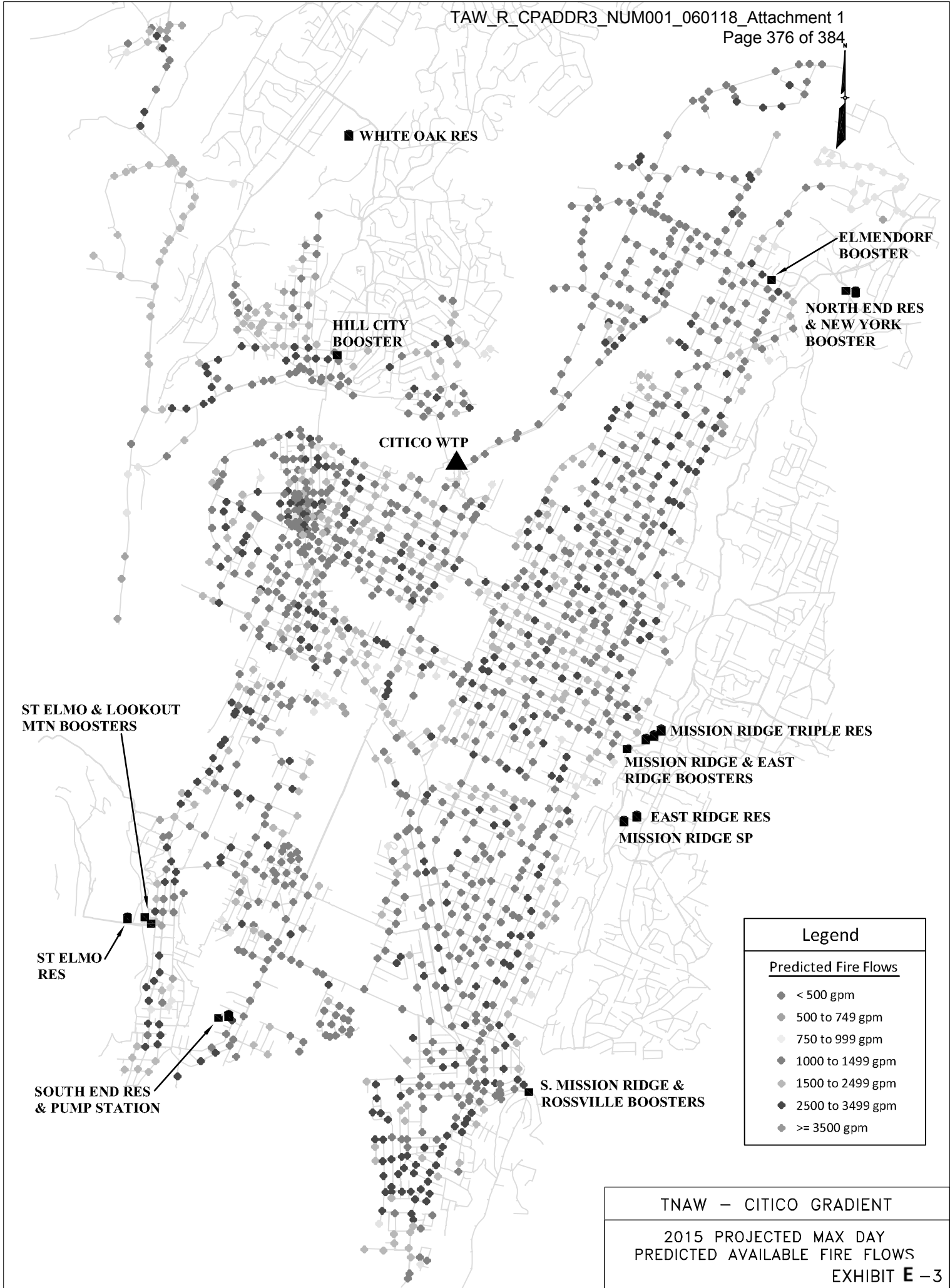
Facilities

- Water Treatment Plant
- Booster Station
- Reservoir (RES) or Standpipe (SP)
- Elevated Tank (ELEV)



*Pipelines diameters 12-inches and greater





Legend	
Predicted Fire Flows	
◆	< 500 gpm
◆	500 to 749 gpm
◆	750 to 999 gpm
◆	1000 to 1499 gpm
◆	1500 to 2499 gpm
◆	2500 to 3499 gpm
◆	>= 3500 gpm



MTN CREEK RES

RED BANK SP
& PUMP STATION

WHITE OAK RES

HILL CITY
BOOSTER

CITICO WTP

Legend

Predicted Fire Flows

- ◆ < 500 gpm
- ◆ 500 to 749 gpm
- ◆ 750 to 999 gpm
- ◆ 1000 to 1499 gpm
- ◆ 1500 to 2499 gpm
- ◆ 2500 to 3499 gpm
- ◆ >= 3500 gpm

TNAW — HILL CITY GRADIENT

2015 PROJECTED MAX DAY
 PREDICTED AVAILABLE FIRE FLOWS

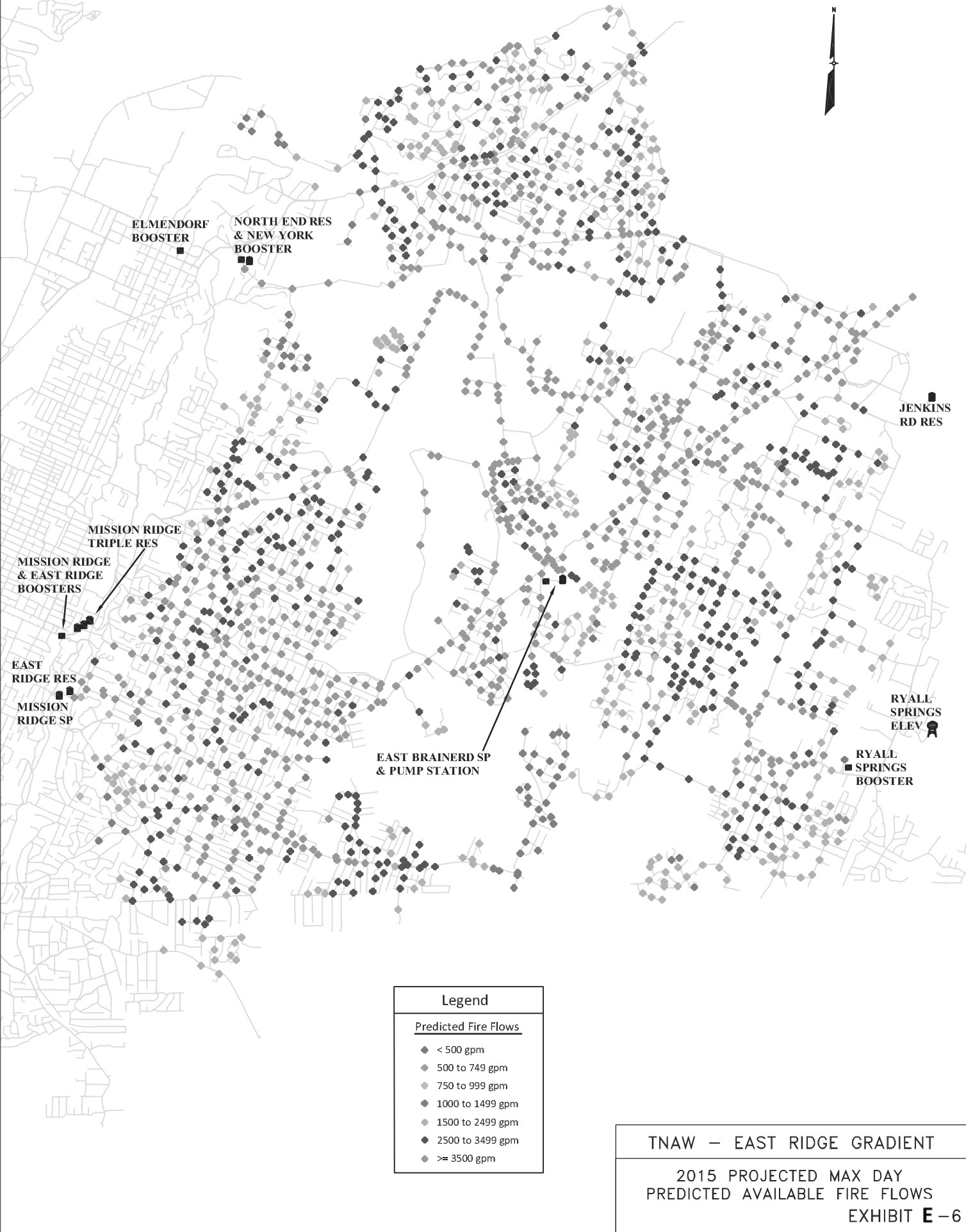
EXHIBIT E-4



TNAW — MISSION RIDGE GRADIENT

2015 PROJECTED MAX DAY
 PREDICTED AVAILABLE FIRE FLOWS

EXHIBIT E-5





Legend

Predicted Fire Flows

- ◆ < 500 gpm
- ◆ 500 to 749 gpm
- ◆ 750 to 999 gpm
- ◆ 1000 to 1499 gpm
- ◆ 1500 to 2499 gpm
- ◆ 2500 to 3499 gpm
- ◆ >= 3500 gpm

**RYALL
SPRINGS
BOOSTER** ■

**RYALL
SPRINGS
ELEV** 

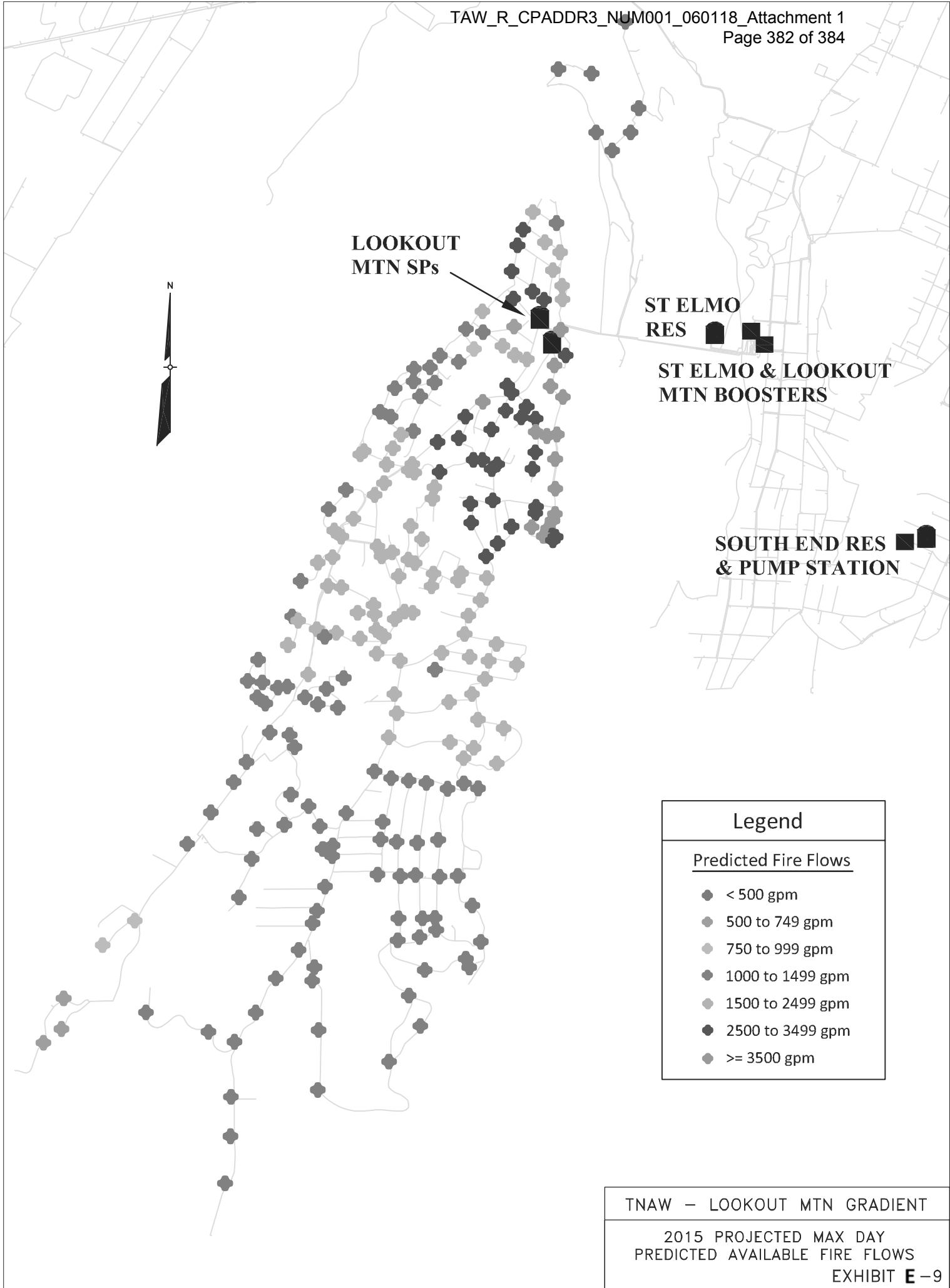
TNAW – RYALL SPRINGS GRADIENT

2015 PROJECTED MAX DAY
PREDICTED AVAILABLE FIRE FLOWS

EXHIBIT **E** – 7

S. MISSION RIDGE & ROSSVILLE BOOSTERS





Legend	
Predicted Fire Flows	
	< 500 gpm
	500 to 749 gpm
	750 to 999 gpm
	1000 to 1499 gpm
	1500 to 2499 gpm
	2500 to 3499 gpm
	>= 3500 gpm



ELDER MTN SP

ELDER MTN BOOSTER
 & RECEIVING TANK

LOOKOUT VALLEY ELEV



ST ELMO RES

LOOKOUT
 MTN SPs

ST ELMO & LOOKOUT
 MTN BOOSTERS

Legend	
Predicted Fire Flows	
	< 500 gpm
	500 to 749 gpm
	750 to 999 gpm
	1000 to 1499 gpm
	1500 to 2499 gpm
	2500 to 3499 gpm
	>= 3500 gpm

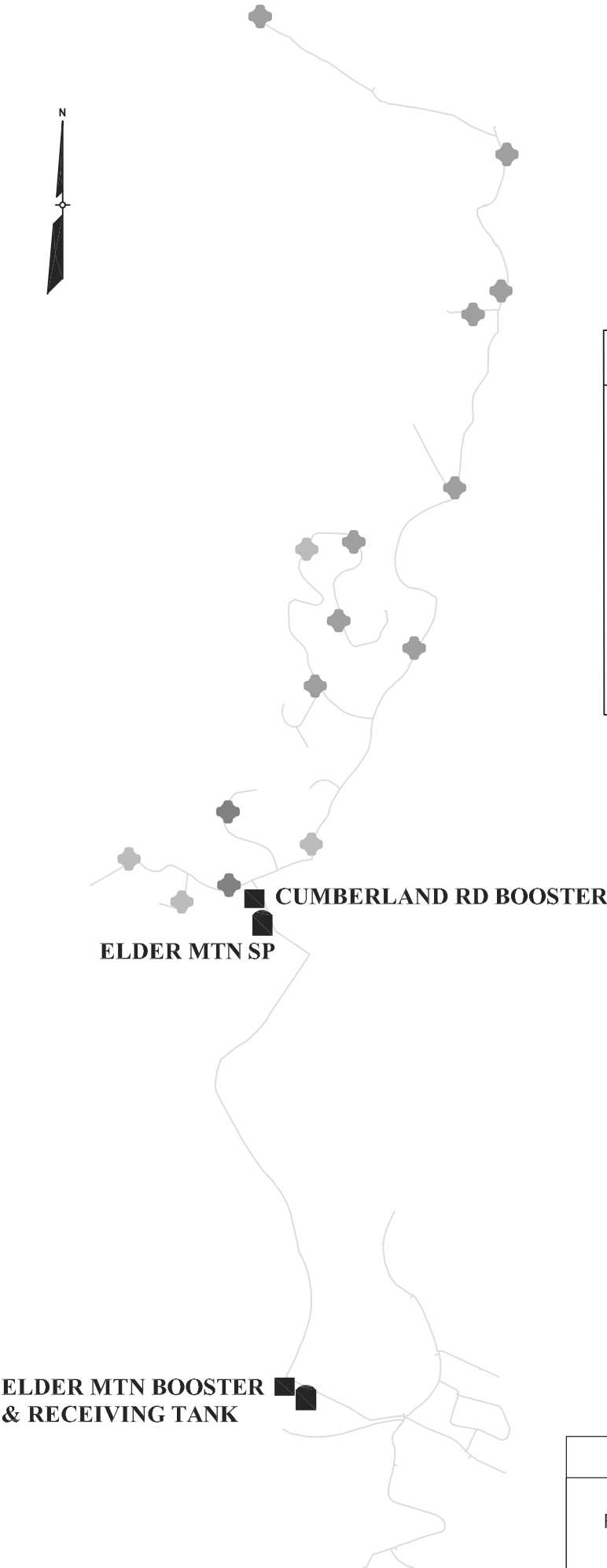
TNAW – ST ELMO GRADIENT

2015 PROJECTED MAX DAY
 PREDICTED AVAILABLE FIRE FLOWS

EXHIBIT E-10



Legend
<u>Predicted Fire Flows</u>
< 500 gpm
500 to 749 gpm
750 to 999 gpm
1000 to 1499 gpm
1500 to 2499 gpm
2500 to 3499 gpm
>= 3500 gpm



INSTRUCTIONS AND USE OF THIS WORKBOOK

A General

- 1 This workbook is designed to capture RP Work Order level details for each RP Funding Project by Profit Center (or District).
- 2 Blue tabs allow for data entry for the individual RP Line Items A through S. Orange tabs provide a total RP SUMMARY by RP Line Item (1st summary tab) and by District (2nd summary tab). Gray tabs provide information only, including RP GUIDANCE and RP CATEGORY definitions.
- 3 Cells in which information can be entered are unlocked. All other cells are locked. **Protection can be turned off on each worksheet without the need for a password.** NOTE: Additional columns for data entry of Business Plan Outer Years for 5-Year Business Plan development (includes 4 years beyond the current Business Plan Year) are "Grouped" and can either be displayed or collapsed depending upon the user's needs in the business planning process. The RP Workbook will be issued with the Outer Years collapsed. **To ungroup or display the Outer Years data entry columns, the Protection on the worksheet must be turned OFF.**
- 4 One workbook is required for each Operating Unit (or State). The workbook includes one tab for each of the RP Line Items (A through S). A description of the RP Line Items is provided on the RP CATEGORIES tab. Asset Investment Strategy (i.e., Prioritization) guidance as it relates to RP Line Items is provided on the RP GUIDANCE tab. NOTE: The guidance for Prioritization listed in the RP GUIDANCE tab, directly correlates to the 'Justification' columns on the Blue tabs for most RP Line Items (exception of Lines B and C). For Line B, the Prioritization Model has been removed from this RP workbook, and could be used separately to determine Line B Prioritization, as outlined in the RP GUIDANCE tab. For Line C, all project work is Priority A.
- 5 Each RP worksheet (Blue tab) has a 'BUDGET LEVEL' defined in cell B5. This is either at a 'Project' level or 'District' level. For RP Line Items A, D and K through S, the line items will be budgeted based on 'Project' level data for a particular project. For RP Line Items, B, C and E through J, the line items will be budgeted at the 'District' level.
- 6 A summary of all RP Line Items is displayed in text format on the RP SUMMARY tab. Unit costs are not rolled up for Line Items which do not have units (Line C - Mains - Unscheduled) OR do not have like units (ex., Line K - ITS Equipment).
- 7 Two hidden tabs called LOOKUP TABLE 1 and LOOKUP TABLE 2 are provided as the source for many of the pull-down menus on the individual Line Item tabs. District names are also provided at the bottom of each individual Line Item (Blue) tab in Rows 607 through 841 and are hidden.
- 8 **Do NOT delete or add any rows OR columns on any worksheet tab. Doing so will cause the calculations to fail.** Each RP Line Item tab can accommodate up to 600 projects or district-level data.

B Set Up and Use

- 9 To begin using the worksheet, on the RP SUMMARY tab, **enter the current date in cell D1, then select the Operating Unit in Cell B4 and enter the current Business Plan Year in Cell C4.** This information will then be displayed on all of the individual Line Item worksheets (Blue tabs), and set-up the drop-down lists for the appropriate Profit Centers (Districts) on each of the data entry tabs (Blue tabs).
- 10 For each RP Line Item tab, in the PROJECT INFORMATION section, the Profit Center (District) can be selected from the drop down list in Column A.
- 11 Also in the PROJECT INFORMATION section, Column B allows for the identification of the project funds as Budget, Budget Reserve, or Overprogram. Budget means it is to be included in the budget. Budget Reserve means it is also to be included in the budget, but that it is a lower priority project that can be deferred until later in the year and delivered quickly should those funds instead be needed for emerging needs as the year progresses. Overprogram means that the project is not included in the budget, but if additional funds should become available, it can be delivered quickly.
- 12 Lastly in the PROJECT INFORMATION section, the PRIORITY Column allows for the top down prioritization of the project (Priority A, Priority B, or Priority C). This prioritization is aligned with the company's Asset Investment Strategies outlined in the RP GUIDANCE tab. As stated above, the guidance listed in the RP GUIDANCE tab, directly correlates to the 'Justification' Column dropdown selections on the Blue tabs for the RP Line Items (exception of Lines B and C). In order for the Project to have an assigned Priority (A, B or C), a selection from the "Justification" dropdown list must be made for each Project line. For Line C - Unscheduled Mains, all of the project work should be categorized as 'Priority A' (no other Priority assignment can be selected).

C Lines A, and D through J

- 13 Select Budget, Budget Reserve or Overprogram from Column B for each Project line item. This selection is mandatory, as a non-selection will not allow the project/line item to be captured in the total project cost summary.
- 14 In the UNITS, UNIT COST and PROJECT COST sections, fill in the UNITS and UNIT COST for each Project-level and/or District-level line item. The PROJECT COST will be automatically calculated based on these entries. These sections are also available for data entry in the four (4) outer years (may be collapsed, and can be displayed by unclicking the 'Grouped' (+) button at the top of each worksheet.
- 15 Select the appropriate project JUSTIFICATION from the 'Justification' Column, as this will assign a Priority (A, B or C) automatically. This selection is mandatory, as a non-selection will not allow the project/line item to be captured in the total project cost summary. Any additional information or justification can be added to the 'Comments' section which is available on each data entry tab.
- 16 **Lines A and D only:** Select the pipe diameter (the diameter that encompasses the majority of the main project) from the 'Predominant Pipe Diameter' Column dropdown list and also indicate the number of ESTIMATED services in the 'Estimated No. of Services' Column.
- 17 **Lines E and F only:** Select the equipment type (Hydrant, Valve or Manhole) from the dropdown list in the 'Hydrant, Valve OR Manhole' column. Do not combine different equipment types on one project/district line item. Also, for example, if budgeting for a hydrant valve, use the 'Hydrant' dropdown selection, as this type of valve is normally considered part of a Hydrant. The 'Valve' selection is meant to encompass isolation valves (gate valves, etc.) within the main project. Multiple rows can be used to budget each equipment type for a single District.
- 18 **Lines G and H only:** Select the equipment type (Service or Lateral) from the dropdown list in the 'Service or Lateral' Column.
- 19 **Lines I and J only:** Select the meter type (Residential or Commercial) from the dropdown list in the 'Meter Type' Column, and select a meter diameter from the dropdown list in the 'Diameter' Column. Multiple rows can be used to budget each meter type and/or diameter for a single District.

D Line B Specifics

- 20 Same procedures as items 13, 14 and 15 (above). Line items will be budgeted at the District or Profit Center level. Select each Profit Center (District) from the dropdown list, as historical data (Total Main, Break Rate and NRW) for the prior year for each District will be displayed. Please select ALL Districts even if there are no plans for main replacement in the current Budget Year. The total footage of pipe for the State will then be utilized to calculate the overall planned Main Replacement Rate that is built into the worksheet in Cell K5. The individual District-level pipe replacement rates will also be calculated for each line item and are displayed in Column K. Also, if there is a potential for Main Rehabilitation, as opposed to Main Replacement, please indicate this in the 'Comments' field in Column K. NOTE: The Line B Prioritization Model has been removed from this RP workbook, and could be used separately.

E Line C Specifics

- 21 Same procedures as item 13 (above). Line items will be budgeted at the District or Profit Center level. Select each Profit Center (District) from the dropdown list. The Columns C, D and E will be used to populate District-level historical Line C spend data for the past three (3) years. ***This data will be provided by the States OR, as needed, provided separately by the corporate Business Services - Engineering Capital Planning group*** (in the future, it will be pre-loaded into the RP Workbook for each Profit Center). Please select ALL Districts, even if there are no plans for Line C in the current Budget Year. Select 'Priority A' from the 'Priority' Column. ALL Line C Unscheduled Main replacement will have a 'Priority A' indicator.

END

Engineering

Network

RP CATEGORIES (A thru S)

NOTE: All RP categories are set up for ownership and accountability purposes, A, the valves and hydrants being installed on that project can also be budgeted

		*** Work Order
<u>Line Item</u>	<u>Category</u>	Maximum Amount
A	Mains - New	\$500,000
B	Mains - Replaced / Restored	\$1,500,000
C	Mains - Unscheduled	\$1,000,000
D	Mains - Relocated	\$1,500,000
E	Hydrants, Valves, and Manholes - New	\$250,000
F	Hydrants, Valves, and Manholes - Replaced	\$250,000
G	Services and Laterals - New	\$250,000
H	Services and Laterals - Replaced	\$250,000
I	Meters - New	\$250,000
J	Meters - Replaced	\$250,000
K	ITS Equipment and Systems	\$500,000
L	SCADA Equipment and Systems	\$250,000
M	Security Equipment and Systems	\$250,000
N	Offices and Operations Centers	\$250,000
O	Vehicles	\$250,000
P	Tools and Equipment	\$250,000
Q	Process Plant Facilities and Equipment	\$250,000
		\$1,500,000
R	Capitalized Tank Rehabilitation / Painting	\$250,000
		\$1,500,000
S	Engineering Studies	\$250,000

***** Does Not Apply to
Blanket Work Orders**

and not by asset type. For example, if a new main is being installed under Line Item under Line Item A and should not be put under Line Item E.

Additional Explanation

New main extensions not funded via Advances.

Replacement or restoration of existing mains.

Capitalized main repairs where 1 foot or more of existing pipe is replaced (can only include emergency work which cannot be scheduled or anticipated in advance).

Relocation of existing mains.

For individual installations that are not part of a main project.

For individual installations that are not part of a main project.

For individual installations that are not part of a main project.

For individual installations that are not part of a main project.

Both new and replacement.

Both new and replacement.

Both new and replacement.

Both new and replacement.

Both new and replacement.

Both new and replacement.

Both new and replacement.

For filter media replacement ONLY.

Where allowable per State utility commission approval.

For tank painting ONLY.

For both Comprehensive Planning Studies as well as individual projects which need additional planning prior to request for release of initial funds. Non-CPS costs to either be transferred into the ultimate project or written off and expensed.

RP GUIDANCE**A****B**

Line Item	RP Description	"A" First Priority Projects (per Asset Investment Strategy)	"B" Second Priority Projects (per Asset Investment Strategy)
A	Mains - New	Provide service to new customers within existing franchise area.	Provide service to new customers beyond existing franchise area.
		Required to comply with regulations.	Address near term regulatory hydraulic issues (e.g. pressure below min required).
			Hydraulic improvement resulting in immediate improvement to service (e.g. loop dead end mains).
			Address to meet AW goals for fire flow and specific requests of local fire districts.
B	Mains - Replaced / Restored	Critical customer impact; no longer providing expected level of service	No longer providing expected level of service
			Coordination with others (e.g., road is being repaved)
C	Mains - Unscheduled	All - based on history.	n/a
D	Mains - Relocated	Project is known and defined and expected to proceed.	Project is tentative.
E	Hydrants, Valves, and Manholes - New	Required to comply with regulations.	Address significant operational issues.
		Requested by local government.	
F	Hydrants, Valves, and Manholes - Replaced	Physically fails and not repairable, or in imminent danger of failure.	Poor condition and spare parts no longer available.
		Hydraulically inadequate.	
G	Services and Laterals - New	Provide service to new customers.	n/a
H	Services and Laterals - Replaced	Physically fails and materials are known to be prone to failure.	Physically fails and materials are not known to be prone to failure.
		Required to comply with regulations.	
I	Meters - New	Provide service to new customers.	n/a
J	Meters - Replaced	Required to comply with regulations.	No regulatory requirement and has been in service beyond expected life.
		Meter stops or registers inaccurately.	New technology that results in operational improvement and/or savings.
K	ITS Equipment and Systems	To support new (additional) employees.	Has reached the end of its expected life.
		Equipment still needed and currently not supported by the vendor.	Provides a hard payback <3 years.
		Required to comply with regulations.	Equipment still needed and soon to no longer be supported by the vendor.
		Physically fails and not repairable, or in imminent danger of failure.	New equipment that improves productivity.
L	SCADA Equipment and Systems	Equipment still needed and currently not supported by the vendor.	Has reached the end of its expected life.
		Required to comply with regulations.	Provides a hard payback <3 years.
		Physically fails and not repairable, or in imminent danger of failure.	Equipment still needed and soon to no longer be supported by the vendor.
			New equipment that improves productivity.
M	Security Equipment and Systems	Minimum level of health and safety risk reduction not in place.	Has reached the end of its expected life.
		Equipment still needed and currently not supported by the vendor.	Provides a hard payback <3 years.
		Required to comply with regulations.	Equipment still needed and soon to no longer be supported by the vendor.
		Physically fails and not repairable, or in imminent danger of failure	
N	Offices and Operations Centers	For new (additional) employees, equipment, or vehicles.	Has reached the end of its expected life.
		Required to comply with regulations.	Provides a hard payback <3 years.
		Addresses imminent health and/or safety issues.	
		Physically fails and not repairable, or in imminent danger of failure.	
O	Vehicles	For new (additional) employees.	Has reached the end of its expected life.
		Required to comply with regulations.	Provides a hard payback <3 years.
		Addresses imminent health and/or safety issues.	
		Physically fails and not repairable, or in imminent danger of failure.	
P	Tools and Equipment	For new (additional) employees.	Has reached the end of its expected life.
		Required to comply with regulations.	Provides a hard payback <3 years.
		Addresses imminent health and/or safety issues.	New tool / equipment that improves productivity.
		Physically fails and not repairable, or in imminent danger of failure.	

Q	Process Plant Facilities and Equipment	Equipment still needed and currently not supported by the vendor.	Provides increased reliability or operating flexibility of critical assets.
		Required to comply with regulations.	Has reached the end of its expected life.
		Addresses imminent health and/or safety issues.	Provides a hard payback <3 years.
		Physically fails and not repairable, or in imminent danger of failure.	
R	Capitalized Tank Rehabilitation / Painting	Physically fails or in imminent danger of failure.	Has reached the end of its expected life.
		Required to comply with regulations.	
		Addresses imminent health and/or safety issues.	
S	Engineering Studies	As necessary to provide regulatory support for future capital improvements.	Existing study is 10 years or older.
		Demands of existing system are at 90% or greater of capacity.	
		System is experiencing significant growth.	
		Required to comply with regulations.	
		Addresses imminent health and/or safety issues.	

C

"C" Third Priority Projects (per Asset Investment Strategy)
Address long term regulatory hydraulic issues (e.g. pressure below min required).
Proactive hydraulic improvement resulting in future improvement to service (e.g. loop dead end mains).
To enhance fire flows above AW minimum goals and up to full ISO recommended flows.
Proactive replacement based on performance of similar cohorts
n/a
Project is speculative.
Proactive improvement resulting in future improvement to operations.
Proactive replacement based on age or condition.
n/a
Proactive replacement of materials known to be prone to failure.
n/a
No regulatory requirement and has been in service for less than its expected lifespan.
Proactive replacement based on condition or new technology.
Proactive replacement based on age, condition, or new technology.
Proactive replacement based on age, condition, or new technology.
Proactive replacement based on age, condition, or new technology.
Proactive replacement based on age, condition, or new technology.
Provides environmental benefits.
Proactive replacement based on age, condition, or new technology.

Proactive replacement based on age, condition, or new technology.
To meet non-mandatory water quality goals.
Proactive replacement based on age, condition, or new technology.
Existing study is 5-10 years old.

RP SUMMARY		Date Prepared:	April 18, 2016														
Line Item	OPERATING UNIT	CURRENT BP YEAR	2017			2018			2019			2020			2021		
	26-Tennessee	2017	Total Qty	Avg Unit Cost	Total Cost	Total Qty	Avg Unit Cost	Total Cost	Total Qty	Avg Unit Cost	Total Cost	Total Qty	Avg Unit Cost	Total Cost	Total Qty	Avg Unit Cost	Total Cost
TOTAL	Priority A				#REF!			#REF!			#REF!			#REF!			#REF!
	Priority B				#REF!			#REF!			#REF!			#REF!			#REF!
	Priority C				#REF!			#REF!			#REF!			#REF!			#REF!
	Total				#REF!			#REF!			#REF!			#REF!			#REF!
A	Priority A		4,200	\$74	\$310,000	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
	Priority B		0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
	Priority C		0	\$0	\$0	300	\$100	\$30,000	2,000	\$100	\$200,000	2,400	\$100	\$240,000	2,000	\$100	\$200,000
	Total		4,200	\$74	\$310,000	300	\$100	\$30,000	2,000	\$100	\$200,000	2,400	\$100	\$240,000	2,000	\$100	\$200,000
B	Priority A		0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
	Priority B		0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
	Priority C		24,500	\$99	\$2,429,910	20,585	\$108	\$2,213,917	16,000	\$113	\$1,805,008	18,000	\$119	\$2,135,016	20,000	\$119	\$2,385,000
	Total		24,500	\$99	\$2,429,910	20,585	\$108	\$2,213,917	16,000	\$113	\$1,805,008	18,000	\$119	\$2,135,016	20,000	\$119	\$2,385,000
C	Priority A				\$1,009,000			\$1,028,000			\$1,055,000			\$1,060,000			\$1,080,000
	Priority B - N/A																
	Priority C - N/A																
	Total				\$1,009,000			\$1,028,000			\$1,055,000			\$1,060,000			\$1,080,000
D	Priority A		0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
	Priority B		0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
	Priority C		800	\$125	\$100,000	2,400	\$125	\$300,000	2,800	\$125	\$350,000	2,800	\$125	\$350,000	2,800	\$125	\$350,000
	Total		800	\$125	\$100,000	2,400	\$125	\$300,000	2,800	\$125	\$350,000	2,800	\$125	\$350,000	2,800	\$125	\$350,000
E	Priority A		#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!
	Priority B		#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!
	Priority C		#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!
	Total		#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!
F	Priority A		34	\$4,926	\$167,500	34	\$4,926	\$167,500	32	\$5,078	\$162,500	29	\$5,345	\$155,000	29	\$5,345	\$155,000
	Priority B		17	\$11,765	\$200,000	18	\$12,222	\$220,000	18	\$12,222	\$220,000	18	\$12,222	\$220,000	20	\$12,125	\$242,500
	Priority C		4	\$1,650	\$6,600	4	\$1,650	\$6,600	4	\$1,650	\$6,600	4	\$1,675	\$6,700	4	\$1,675	\$6,700
	Total		55	\$6,802	\$374,100	56	\$7,038	\$394,100	54	\$7,206	\$389,100	51	\$7,484	\$381,700	53	\$7,626	\$404,200
G	Priority A		#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!
	Priority B		#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!
	Priority C		#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!
	Total		#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!	#REF!
H	Priority A		186	\$2,142	\$398,500	221	\$2,103	\$464,750	228	\$2,075	\$473,000	228	\$2,075	\$473,000	233	\$2,057	\$479,250
	Priority B		0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
	Priority C		0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
	Total		186	\$2,142	\$398,500	221	\$2,103	\$464,750	228	\$2,075	\$473,000	228	\$2,075	\$473,000	233	\$2,057	\$479,250
I	Priority A		550	\$380	\$209,000	575	\$380	\$218,500	580	\$380	\$220,400	580	\$380	\$220,400	590	\$380	\$224,200
	Priority B		0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
	Priority C		0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
	Total		550	\$380	\$209,000	575	\$380	\$218,500	580	\$380	\$220,400	580	\$380	\$220,400	590	\$380	\$224,200
J	Priority A		9,978	\$169	\$1,687,825	13,557	\$166	\$2,248,070	11,587	\$173	\$2,004,465	8,233	\$177	\$1,459,025	6,163	\$187	\$1,151,125
	Priority B		0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
	Priority C		0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0
	Total		9,978	\$169	\$1,687,825	13,557	\$166	\$2,248,070	11,587	\$173	\$2,004,465	8,233	\$177	\$1,459,025	6,163	\$187	\$1,151,125
K	Priority A				\$0			\$0			\$0			\$0			\$0
	Priority B				\$301,364			\$164,380			\$134,312			\$176,149			\$302,087
	Priority C				\$0			\$0			\$0			\$0			\$0
	Total				\$301,364			\$164,380			\$134,312			\$176,149			\$302,087
L	Priority A				\$145,000			\$65,000			\$60,000			\$85,000			\$0
	Priority B				\$30,000			\$35,000			\$0			\$0			\$125,000
	Priority C				\$0			\$0			\$0			\$0			\$0
	Total				\$175,000			\$100,000			\$60,000			\$85,000			\$125,000
M	Priority A				\$140,000			\$120,000			\$75,000			\$75,000			\$75,000
	Priority B				\$0			\$0			\$0			\$0			\$0
	Priority C				\$0			\$0			\$0			\$0			\$0
	Total				\$140,000			\$120,000			\$75,000			\$75,000			\$75,000
N	Priority A				\$0			\$0			\$0			\$0			\$0
	Priority B				\$0			\$0			\$0			\$0			\$0
	Priority C				\$15,000			\$15,000			\$15,000			\$15,000			\$15,000
	Total				\$15,000			\$15,000			\$15,000			\$15,000			\$15,000
O	Priority A				#REF!			#REF!			#REF!			#REF!			#REF!
	Priority B				#REF!			#REF!			#REF!			#REF!			#REF!
	Priority C				#REF!			#REF!			#REF!			#REF!			#REF!
	Total				#REF!			#REF!			#REF!			#REF!			#REF!
P	Priority A				\$0			\$0			\$0			\$0			\$0
	Priority B				\$60,000			\$60,000			\$60,000			\$60,000			\$60,000
	Priority C				\$85,000			\$5,000			\$5,000			\$5,000			\$5,000
	Total				\$145,000			\$65,000			\$65,000			\$65,000			\$65,000
Q	Priority A				\$0			\$0			\$0			\$0			\$0
	Priority B				\$520,000			\$1,535,000			\$755,000			\$1,125,000			\$825,000
	Priority C				\$0			\$0			\$0			\$0			\$0
	Total				\$520,000			\$1,535,000			\$755,000			\$1,125,000			\$825,000
R	Priority A				\$350,000			\$375,000			\$0			\$375,000			\$375,000
	Priority B				\$0			\$0			\$0			\$0			\$0
	Priority C				\$760,125			\$600,000			\$600,000			\$731,250			\$731,250
	Total				\$1,110,125			\$975,000			\$600,000			\$1,106,250			\$1,106,250
S	Priority A				\$50,000			\$50,000			\$50,000			\$50,000			\$50,000
	Priority B				\$0			\$0			\$0			\$0			\$0
	Priority C				\$0			\$0			\$0			\$0			\$0
	Total				\$50,000			\$50,000			\$50,000			\$50,000			\$50,000

[illegible]

MAINS - NEW			CURRENT BUSINESS PLAN YEAR - 2017				PRIORITY	2017			2018			2019			2020			2021									
Operating Unit	26-Tennessee	A	Budget		\$310,000	Priority A	4,200	\$74	\$310,000	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0					
Current Bus. Plan Year	2017		Budget Reserve		\$0	Priority B	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0					
Date Prepared	April 18, 2016		Total Budget		\$310,000	Priority C	0	\$0	\$0	300	\$100	\$30,000	2,000	\$100	\$200,000	2,400	\$100	\$240,000	2,000	\$100	\$200,000	2,000	\$100	\$200,000					
Budget Level	Project		Overprogram		\$0	Total	4,200	\$74	\$310,000	300	\$100	\$30,000	2,000	\$100	\$200,000	2,400	\$100	\$240,000	2,000	\$100	\$200,000								
PROJECT INFORMATION						UNITS			UNITS			UNITS			UNITS			UNITS			UNITS			COMMENTS		SUBTOTAL BY DISTRICT		2017	
Profit Center	Budget Reserve Overprogram	Project Title	Predominant Pipe Dia. (inches)	Estimated No. of Services	Justification	Priority	Estimated Quantity (feet)	Estimated Unit Cost (\$/foot)	Estimated Cost (dollars)	Estimated Quantity (feet)	Estimated Unit Cost (\$/foot)	Estimated Cost (dollars)	Estimated Quantity (feet)	Estimated Unit Cost (\$/foot)	Estimated Cost (dollars)	Estimated Quantity (feet)	Estimated Unit Cost (\$/foot)	Estimated Cost (dollars)	Estimated Quantity (feet)	Estimated Unit Cost (\$/foot)	Estimated Cost (dollars)	As Needed (Optional)	District	Estimated Quantity (feet)	Estimated Cost (dollars)				
2602-TN-Chattanooga	Budget	Hamilton Street	8"	5	New customer service within franchise area	Priority A	1,000	\$110.00	\$110,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2600-TN-Cap Growth Budget	-	\$0				
2605-TN-Sequatchie Valley	Budget	West Valley Highway Main Ext.	8"	10	New customer service within franchise area	Priority A	3,200	\$62.50	\$200,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2601-TN-Corporate	-	\$0				
2602-TN-Chattanooga	Budget	Cummings Road	12"	10	Proactive hydraulic improvements	Priority C	-	\$0.00	\$0	-	\$110.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2602-TN-Chattanooga	1,000	\$110,000				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2602-TN-Suck Creek	-	\$0				
2605-TN-Sequatchie Valley	Budget	Teague Cemetery Rd	6"	5	Proactive hydraulic improvements	Priority C	-	\$0.00	\$0	300	\$100.00	\$30,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2604-TN-Lone Oak	-	\$0				
2605-TN-Sequatchie Valley	Budget	McCopelin Cir	8"	13	Proactive hydraulic improvements	Priority C	-	\$0.00	\$0	-	\$0.00	\$0	2,000	\$100.00	\$200,000	-	\$0.00	\$0	-	\$0.00	\$0		2605-TN-Sequatchie Valley	3,200	\$200,000				
2605-TN-Sequatchie Valley	Budget	John Miller Rd	8"	12	Proactive hydraulic improvements	Priority C	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	2,400	\$100.00	\$240,000	-	\$0.00	\$0								
2605-TN-Sequatchie Valley	Overprogram	Francis Springs Rd	12"	29	Proactive hydraulic improvements	Priority C	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	12,000	\$100.00	\$1,200,000								
2605-TN-Sequatchie Valley	Overprogram	Jones Crossing Rd	8"	5	Proactive hydraulic improvements	Priority C	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	3,000	\$100.00	\$300,000								
2605-TN-Sequatchie Valley	Overprogram	Press Picket Rd			Proactive hydraulic improvements	Priority C	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	3,482	\$100.00	\$348,200								
2605-TN-Sequatchie Valley	Overprogram	Cheri Cir			Proactive hydraulic improvements	Priority C	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	5,000	\$100.00	\$500,000								
2605-TN-Sequatchie Valley	Budget	Sunny Ln			Proactive hydraulic improvements	Priority C	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	900	\$100.00	\$90,000								
2605-TN-Sequatchie Valley	Budget	Jewel Ln			Proactive hydraulic improvements	Priority C	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1,100	\$100.00	\$110,000								
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0								
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0								
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0								
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0								
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0								
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0								
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0								
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0								
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0								
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0								
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0								
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0								
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0								
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0								
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0								
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0								
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0								
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0								
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0								
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0								
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0								
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0								
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0								
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0								
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0								
							-	\$0.00																					

[illegible]

MAINS - RELOCATED				CURRENT BUSINESS PLAN YEAR - 2017				PRIORITY	2017			2018			2019			2020			2021							
Operating Unit	26-Tennessee	D	Budget		\$50,000	TOTAL QTY	AVG UNIT COST		TOTAL COST	TOTAL QTY	AVG UNIT COST	TOTAL COST	TOTAL QTY	AVG UNIT COST	TOTAL COST	TOTAL QTY	AVG UNIT COST	TOTAL COST	TOTAL QTY	AVG UNIT COST	TOTAL COST	TOTAL QTY	AVG UNIT COST					TOTAL COST
Business Plan Year	2017		Budget Reserve	\$50,000	0	\$0	\$0		0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0					
Date Prepared	April 18, 2016		Total Budget	\$100,000	800	\$125	\$100,000		2,400	\$125	\$300,000	2,800	\$125	\$350,000	2,800	\$125	\$350,000	2,800	\$125	\$350,000	2,800	\$125	\$350,000					
Budget Level	Project		Overprogram	\$0	800	\$125	\$100,000		2,400	\$125	\$300,000	2,800	\$125	\$350,000	2,800	\$125	\$350,000	2,800	\$125	\$350,000	2,800	\$125	\$350,000					
PROJECT INFORMATION									UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	COMMENTS	SUBTOTAL BY DISTRICT	2017		
Profit Center	Budget Budget Reserve Overprogram	Project Title	Predominant Pipe Dia. (inches)	Estimated No. of Services	Justification	Priority	Estimated Quantity (feet)	Estimated Unit Cost (\$/foot)	Estimated Cost (dollars)	Estimated Quantity (feet)	Estimated Unit Cost (\$/foot)	Estimated Cost (dollars)	Estimated Quantity (feet)	Estimated Unit Cost (\$/foot)	Estimated Cost (dollars)	Estimated Quantity (feet)	Estimated Unit Cost (\$/foot)	Estimated Cost (dollars)	Estimated Quantity (feet)	Estimated Unit Cost (\$/foot)	Estimated Cost (dollars)	As Needed (Optional)	District	Estimated Quantity (feet)	Estimated Cost (dollars)			
2602-TN-Chattanooga	Budget	Misc - Chattanooga Road Way Improvements	8"		Project is speculative	Priority C	400	\$125.00	\$50,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			-	\$0			
2602-TN-Chattanooga	Budget Reserve	Misc. - Tennessee DOT Road Way Improvements	8"		Project is speculative	Priority C	400	\$125.00	\$50,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	Possible 27 Widening/Improvements	2600-TN-Cap Growth Budget	-	\$0			
2602-TN-Chattanooga	Budget	Misc - Chattanooga Road Way Improvements	8"		Project is speculative	Priority C	-	\$0.00	\$0	1,600	125	200,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2601-TN-Corporate	-	\$0			
2602-TN-Chattanooga	Budget Reserve	Misc. - Tennessee DOT Road Way Improvements	8"		Project is speculative	Priority C	-	\$0.00	\$0	800	\$125.00	\$100,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2602-TN-Chattanooga	800	\$100,000			
2602-TN-Chattanooga	Budget Reserve	Misc. - Tennessee DOT Road Way Improvements	8"		Project is speculative	Priority C	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	Possible 27 Widening/Improvements	2603-TN-Suck Creek	-	\$0			
2602-TN-Chattanooga	Budget	Misc - Chattanooga Road Way Improvements	8"		Project is speculative	Priority C	-	\$0.00	\$0	-	\$0.00	\$0	2,000	125	\$250,000	2,000	125	250,000	2,000	125	\$250,000		2604-TN-Lone Oak	-	\$0			
2602-TN-Chattanooga	Budget Reserve	Misc. - Tennessee DOT Road Way Improvements	8"		Project is speculative	Priority C	-	\$0.00	\$0	-	\$0.00	\$0	800	125	\$100,000	800	125	100,000	800	125	\$100,000		2605-TN-Sequatchie Valley	-	\$0			
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0				

HYDRANTS, VALVES and MANHOLES - REPLACED				CURRENT BUSINESS PLAN YEAR - 2017				PRIORITY	2017			2018			2019			2020			2021										
Operating Unit	26-Tennessee	F	Budget	\$374,100	Priority A	34	\$4,926	\$167,500	34	\$4,926	\$167,500	32	\$5,078	\$162,500	29	\$5,345	\$155,000	29	\$5,345	\$155,000	29	\$5,345	\$155,000								
Business Plan Year	2017		Budget Reserve	\$0	Priority B	17	\$11,765	\$200,000	18	\$12,222	\$220,000	18	\$12,222	\$220,000	18	\$12,222	\$220,000	20	\$12,125	\$242,500	20	\$12,125	\$242,500								
Date Prepared	April 18, 2016		Total Budget	\$374,100	Priority C	4	\$1,650	\$6,600	4	\$1,650	\$6,600	4	\$1,650	\$6,600	4	\$1,675	\$6,700	4	\$1,675	\$6,700	4	\$1,675	\$6,700								
Budget Level	District		Overprogram	\$0	Total	55	\$6,802	\$374,100	56	\$7,038	\$394,100	54	\$7,206	\$389,100	51	\$7,484	\$381,700	53	\$7,626	\$404,200											
PROJECT INFORMATION																											SUBTOTAL BY DISTRICT		2017		
Profit Center	Budget Reserve Overprogram	Hydrant, Valve OR Manhole	Justification	Priority	UNITS Estimated Quantity (each)	UNIT COST Estimated Unit Cost (\$/unit)	PROJ. COST Estimated Cost (dollars)	UNITS Estimated Quantity (each)	UNIT COST Estimated Unit Cost (\$/unit)	PROJ. COST Estimated Cost (dollars)	UNITS Estimated Quantity (each)	UNIT COST Estimated Unit Cost (\$/unit)	PROJ. COST Estimated Cost (dollars)	UNITS Estimated Quantity (each)	UNIT COST Estimated Unit Cost (\$/unit)	PROJ. COST Estimated Cost (dollars)	UNITS Estimated Quantity (each)	UNIT COST Estimated Unit Cost (\$/unit)	PROJ. COST Estimated Cost (dollars)	COMMENTS	District	Estimated Quantity (each)	Estimated Cost (dollars)								
2602-TN-Chattanooga	Budget	Valve(s)	Physically fails, not repairable, or in imminent danger of failure	Priority A	4	\$20,000.00	\$80,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	As Needed on Emergency Basis	2600-TN-Cap Growth Budget	-	\$0								
2602-TN-Chattanooga	Budget	Valve(s)	Poor condition and spare parts no longer available	Priority B	9	\$20,000.00	\$180,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	V7660 - 16", V77814 - 24", V30021 - 8", HV10892 - 6", V4249 - 4", V18755 - 2", V7213 - 2", (2 Misc Valves)	2601-TN-Corporate	-	\$0								
2602-TN-Chattanooga	Budget	Hydrant(s)	Physically fails, not repairable, or in imminent danger of failure	Priority A	25	\$3,000.00	\$75,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	Replace as needed	2602-TN-Chattanooga	46	\$355,000								
2602-TN-Chattanooga	Budget	Hydrant(s)	Poor condition and spare parts no longer available	Priority B	8	\$2,500.00	\$20,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	Replace as needed	2603-TN-Suck Creek	-	\$0								
2602-TN-Chattanooga	Budget	Valve(s)	Physically fails, not repairable, or in imminent danger of failure	Priority A	-	\$0.00	\$0	4	\$20,000.00	\$80,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	As Needed on Emergency Basis	2604-TN-Lone Oak	-	\$0								
2602-TN-Chattanooga	Budget	Valve(s)	Poor condition and spare parts no longer available	Priority B	-	\$0.00	\$0	10	\$20,000.00	\$200,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	V5443 - 24", V7155 - 12", V16310 - 8", V17944 - 8", V18767 - 8", V14543 - 6", V13546 - 6", V21590 - 2", (2 Misc Valves)	2605-TN-Sequatchie Valley	9	\$19,100								
2602-TN-Chattanooga	Budget	Hydrant(s)	Physically fails, not repairable, or in imminent danger of failure	Priority A	-	\$0.00	\$0	25	\$3,000.00	\$75,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	Replace as needed	0										
2602-TN-Chattanooga	Budget	Hydrant(s)	Poor condition and spare parts no longer available	Priority B	-	\$0.00	\$0	8	\$2,500.00	\$20,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	Replace as needed	0										
2602-TN-Chattanooga	Budget	Valve(s)	Physically fails, not repairable, or in imminent danger of failure	Priority A	-	\$0.00	\$0	-	\$0.00	\$0	4	\$20,000.00	\$80,000	-	\$0.00	\$0	-	\$0.00	\$0	As Needed on Emergency Basis	0										
2602-TN-Chattanooga	Budget	Valve(s)	Poor condition and spare parts no longer available	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	10	\$20,000.00	\$200,000	-	\$0.00	\$0	-	\$0.00	\$0	V22600 - 8", V21132 - 8", V885 - 8", V17396 - 6", V6711 - 6", HV3784 - 6", V6527 - 2", V18929 - 2", (2 Misc Valves)	0										
2602-TN-Chattanooga	Budget	Hydrant(s)	Physically fails, not repairable, or in imminent danger of failure	Priority A	-	\$0.00	\$0	-	\$0.00	\$0	25	\$3,000.00	\$75,000	-	\$0.00	\$0	-	\$0.00	\$0	Replace as needed	0										
2602-TN-Chattanooga	Budget	Hydrant(s)	Poor condition and spare parts no longer available	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	8	\$2,500.00	\$20,000	-	\$0.00	\$0	-	\$0.00	\$0	Replace as needed	0										
2602-TN-Chattanooga	Budget	Valve(s)	Physically fails, not repairable, or in imminent danger of failure	Priority A	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	4	\$20,000.00	\$80,000	-	\$0.00	\$0	As Needed on Emergency Basis	0										
2602-TN-Chattanooga	Budget	Valve(s)	Poor condition and spare parts no longer available	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	10	\$20,000.00	\$200,000	-	\$0.00	\$0	V8794 - 8", V10768 - 8", V10757 - 8", V3782 - 8", HV17774 - 6", V10995 - 6", HV4557 - 6", V18921 - 2", (2 Misc Valves)	0										
2602-TN-Chattanooga	Budget	Hydrant(s)	Physically fails, not repairable, or in imminent danger of failure	Priority A	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	25	\$3,000.00	\$75,000	-	\$0.00	\$0	Replace as needed	0										
2602-TN-Chattanooga	Budget	Hydrant(s)	Poor condition and spare parts no longer available	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	8	\$2,500.00	\$20,000	-	\$0.00	\$0	Replace as needed	0										
2602-TN-Chattanooga	Budget	Valve(s)	Physically fails, not repairable, or in imminent danger of failure	Priority A	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	4	\$20,000.00	\$80,000	As Needed on Emergency Basis	0										
2602-TN-Chattanooga	Budget	Valve(s)	Poor condition and spare parts no longer available	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	HV3760 - 8", HV17774 - 6", V10995 - 6", HV4557 - 6", V11614 - 2.5" (Remaining MIS Valves and Additions from future years)	0										
2602-TN-Chattanooga	Budget	Hydrant(s)	Physically fails, not repairable, or in imminent danger of failure	Priority A	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	Replace as needed	0										
2602-TN-Chattanooga	Budget	Hydrant(s)	Poor condition and spare parts no longer available	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	Replace as needed	0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												

SERVICES and LATERALS - NEW				CURRENT BUSINESS PLAN YEAR - 2017				PRIORITY	2017			2018			2019			2020			2021										
Operating Unit	26-Tennessee	G	Budget	\$846,000	Priority A	571	\$1,482	\$846,000	594	\$1,532	\$910,250	596	\$1,564	\$932,400	596	\$1,564	\$932,400	606	\$1,565	\$948,200											
Business Plan Year	2017		Budget Reserve	\$0	Priority B	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0											
Date Prepared	April 18, 2016		Total Budget	\$846,000	Priority C	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0											
Budget Level	District		Overprogram	\$0	Total	571	\$1,482	\$846,000	594	\$1,532	\$910,250	596	\$1,564	\$932,400	596	\$1,564	\$932,400	606	\$1,565	\$948,200											
PROJECT INFORMATION																								COMMENTS				SUBTOTAL BY DISTRICT		2017	
Profit Center	Budget Budget Reserve Overprogram	Service OR Lateral	Justification	Priority	UNITS Estimated Quantity (each)	UNIT COST Estimated Unit Cost (\$/unit)	PROJ. COST Estimated Cost (dollars)	UNITS Estimated Quantity (each)	UNIT COST Estimated Unit Cost (\$/unit)	PROJ. COST Estimated Cost (dollars)	UNITS Estimated Quantity (each)	UNIT COST Estimated Unit Cost (\$/unit)	PROJ. COST Estimated Cost (dollars)	UNITS Estimated Quantity (each)	UNIT COST Estimated Unit Cost (\$/unit)	PROJ. COST Estimated Cost (dollars)	UNITS Estimated Quantity (each)	UNIT COST Estimated Unit Cost (\$/unit)	PROJ. COST Estimated Cost (dollars)	As Needed (Optional)	District	Estimated Quantity (each)	Estimated Cost (dollars)								
2602-TN-Chattanooga	Budget	Service(s)	Residential - new growth	Priority A	550	\$1,500.00	\$825,000	575	\$1,550.00	\$891,250	580	\$1,580.00	\$916,400	580	\$1,580.00	\$916,400	590	\$1,580.00	\$932,200	On track for substantial growth in 2016. Unit Cost increased based on 3 year average cost per service.	2600-TN-Cap Growth Budget	-	\$0								
2605-TN-Sequatchie Valley	Budget	Service(s)	Residential - new growth	Priority A	20	\$1,000.00	\$20,000.00	\$18.00	\$1,000.00	\$18,000	15	\$1,000.00	\$15,000	15	\$1,000.00	\$15,000	15	\$1,000.00	\$15,000		2601-TN-Corporate	-	\$0								
2603-TN-Suck Creek	Budget	Service(s)	Residential - new growth	Priority A	1	\$1,000.00	\$1,000	1	\$1,000.00	\$1,000	1	\$1,000.00	\$1,000	1	\$1,000.00	\$1,000	1	\$1,000.00	\$1,000		2602-TN-Chattanooga	550	\$825,000								
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2603-TN-Suck Creek	1	\$1,000								
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2604-TN-Lone Oak	-	\$0								
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2605-TN-Sequatchie Valley	20	\$20,000								
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
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					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0												
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00													

SERVICES and LATERALS - REPLACED				CURRENT BUSINESS PLAN YEAR - 2017				PRIORITY	2017			2018			2019			2020			2021								
Operating Unit	26-Tennessee	H	Budget	\$398,500	Priority A	186	\$2,142	\$398,500	221	\$2,103	\$464,750	228	\$2,075	\$473,000	228	\$2,075	\$473,000	233	\$2,057	\$479,250									
Business Plan Year	2017		Budget Reserve	\$0	Priority B	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0									
Date Prepared	April 18, 2016		Total Budget	\$398,500	Priority C	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0									
Budget Level	District		Overprogram	\$0	Total	186	\$2,142	\$398,500	221	\$2,103	\$464,750	228	\$2,075	\$473,000	228	\$2,075	\$473,000	233	\$2,057	\$479,250									
PROJECT INFORMATION				COMMENTS			SUBTOTAL BY DISTRICT		2017																				
Profit Center	Budget Reserve Overprogram	Service OR Lateral	Justification	Priority	UNITS Estimated Quantity (each)	UNIT COST Estimated Unit Cost (\$/unit)	PROJ. COST Estimated Cost (dollars)	UNITS Estimated Quantity (each)	UNIT COST Estimated Unit Cost (\$/unit)	PROJ. COST Estimated Cost (dollars)	UNITS Estimated Quantity (each)	UNIT COST Estimated Unit Cost (\$/unit)	PROJ. COST Estimated Cost (dollars)	UNITS Estimated Quantity (each)	UNIT COST Estimated Unit Cost (\$/unit)	PROJ. COST Estimated Cost (dollars)	UNITS Estimated Quantity (each)	UNIT COST Estimated Unit Cost (\$/unit)	PROJ. COST Estimated Cost (dollars)	As Needed (Optional)	District	Estimated Quantity (each)	Estimated Cost (dollars)						
2602-TN-Chattanooga	Budget	Service(s)	Damaged or physically fails	Priority A	100	\$1,250.00	\$125,000	125	\$1,250.00	\$156,250	130	\$1,250.00	\$162,500	130	\$1,250.00	\$162,500	135	\$1,250.00	\$168,750	Consideration: There is the potential for new regulations pertaining to lead service replacement. This could potentially have a negative impact on line H. Budget does not reflect this consideration.	2600-TN-Cap Growth Budget	-	\$0						
2602-TN-Chattanooga	Budget	Service(s)	Damaged or physically fails	Priority A	75	\$3,500.00	\$262,500	85	\$3,500.00	\$297,500	85	\$3,500.00	\$297,500	85	\$3,500.00	\$297,500	85	\$3,500.00	\$297,500		2601-TN-Corporate	-	\$0						
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2602-TN-Chattanooga	175	\$387,500						
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2603-TN-Suck Creek	1	\$1,000						
2605-TN-Sequatchie Valley	Budget	Service(s)	Damaged or physically fails	Priority A	10	\$1,000.00	\$10,000	10	\$1,000.00	\$10,000	12	\$1,000.00	\$12,000	12	\$1,000.00	\$12,000	12	\$1,000.00	\$12,000		2604-TN-Lone Oak	-	\$0						
2603-TN-Suck Creek	Budget	Service(s)	Damaged or physically fails	Priority A	1	\$1,000.00	\$1,000	1	\$1,000.00	\$1,000	1	\$1,000.00	\$1,000	1	\$1,000.00	\$1,000	1	\$1,000.00	\$1,000		2605-TN-Sequatchie Valley	10	\$10,000						
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
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					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0										
					-	\$0.00																							

METERS - NEW				CURRENT BUSINESS PLAN YEAR - 2017				2017				2018				2019				2020				2021											
Operating Unit		26-Tennessee	I	Budget		\$209,000	Priority A	550	\$380	\$209,000	575	\$380	\$218,500	580	\$380	\$220,400	580	\$380	\$220,400	590	\$380	\$224,200													
Business Plan Year		2017		Budget Reserve		\$0	Priority B	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0													
Date Prepared		April 18, 2016		Total Budget		\$209,000	Priority C	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0													
Budget Level		District		Overprogram		\$0	Total	550	\$380	\$209,000	575	\$380	\$218,500	580	\$380	\$220,400	580	\$380	\$220,400	590	\$380	\$224,200													
PROJECT INFORMATION							UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	COMMENTS				SUBTOTAL BY DISTRICT		2017							
Profit Center	Budget Budget Reserve Overprogram		Meter Type	Diameter (inches)	Justification	Priority	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	As Needed (Optional)				District	Estimated Quantity (each)	Estimated Cost (dollars)							
2602-TN-Chattanooga	Budget		Residential	5/8" x 3/4"	Provide service to new customers	Priority A	550	\$380.00	\$209,000	575	\$380.00	\$218,500	580	\$380.00	\$220,400	580	\$380.00	\$220,400	590	\$380.00	\$224,200	Reflects predictions made for line G				2600-TN-Cap Growth Budget	-	\$0							
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					2601-TN-Corporate	-	\$0							
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					2602-TN-Chattanooga	550	\$209,000							
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					2603-TN-Suck Creek	-	\$0							
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					2604-TN-Lone Oak	-	\$0							
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					2605-TN-Sequatchie Valley	-	\$0							
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
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							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0					0									

METERS - REPLACED				CURRENT BUSINESS PLAN YEAR - 2017				PRIORITY	2017			2018			2019			2020			2021						
Operating Unit	26-Tennessee	J	Budget	\$1,687,825	Priority A	9,978	\$169	\$1,687,825	13,557	\$166	\$2,248,070	11,587	\$173	\$2,004,465	8,233	\$177	\$1,459,025	6,163	\$187	\$1,151,125							
Business Plan Year	2017		Budget Reserve	\$0	Priority B	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0							
Date Prepared	April 18, 2016		Total Budget	\$1,687,825	Priority C	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0							
Budget Level	District		Overprogram	\$0	Total	9,978	\$169	\$1,687,825	13,557	\$166	\$2,248,070	11,587	\$173	\$2,004,465	8,233	\$177	\$1,459,025	6,163	\$187	\$1,151,125							
PROJECT INFORMATION						UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	COMMENTS				SUBTOTAL BY DISTRICT	2017	
Profit Center	Budget Budget Reserve Overprogram	Meter Type	Diameter (inches)	Justification	Priority	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	As Needed (Optional)	District	Estimated Quantity (each)	Estimated Cost (dollars)			
2602-TN-Chattanooga	Budget		5/8"	Required to comply with regulations	Priority A	9,265	\$155.00	\$1,436,075	12,744	\$155.00	\$1,975,320	10,674	\$160.00	\$1,707,840	7,500	\$160.00	\$1,200,000	5,500	\$165.00	\$907,500	2017 accounts for catching up on the back log. Remaining years are based on current LOS plan and meter pricing. Labor calculated at \$20 addition / meter.	2600-TN-Cap Growth Budget	-	\$0			
2602-TN-Chattanooga	Budget		3/4"	Required to comply with regulations	Priority A	50	\$175.00	\$8,750	50	\$175.00	\$8,750	50	\$180.00	\$9,000	50	\$180.00	\$9,000	50	\$180.00	\$9,000		2601-TN-Corporate	-	\$0			
2602-TN-Chattanooga	Budget		1"	Required to comply with regulations	Priority A	200	\$210.00	\$42,000	300	\$215.00	\$64,500	400	\$220.00	\$88,000	220	\$220.00	\$48,400	150	\$220.00	\$33,000		2602-TN-Chattanooga	9,950	\$1,684,050			
2602-TN-Chattanooga	Budget		1-1/2"	Required to comply with regulations	Priority A	125	\$375.00	\$46,875	125	\$375.00	\$46,875	125	\$380.00	\$47,500	125	\$380.00	\$47,500	125	\$380.00	\$47,500		2603-TN-Suck Creek	-	\$0			
2602-TN-Chattanooga	Budget		2"	Required to comply with regulations	Priority A	310	\$485.00	\$150,350	310	\$485.00	\$150,350	310	\$485.00	\$150,350	310	\$485.00	\$150,350	310	\$485.00	\$150,350		2604-TN-Lone Oak	-	\$0			
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2605-TN-Sequatchie Valley	28	\$3,775			
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
						-	\$0.00	\$0</																			

ITS EQUIPMENT and SYSTEMS				CURRENT BUSINESS PLAN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

SCADA EQUIPMENT and SYSTEMS				CURRENT BUSINESS PLAN YEAR - 2017			PRIORITY	2017			2018			2019			2020			2021						
Operating Unit	26-Tennessee	L	Budget	\$115,000	Priority A	TOTAL QTY		AVG UNIT COST	TOTAL COST	TOTAL QTY	AVG UNIT COST	TOTAL COST	TOTAL QTY	AVG UNIT COST	TOTAL COST	TOTAL QTY	AVG UNIT COST	TOTAL COST	TOTAL QTY	AVG UNIT COST	TOTAL COST					
Business Plan Year	2017		Budget Reserve	\$60,000		1		\$48,333	\$145,000	1	\$65,000	\$65,000	2	\$30,000	\$60,000	2	\$42,500	\$85,000	0	\$0	\$0					
Date Prepared	April 18, 2016		Total Budget	\$175,000		0		\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0					
Budget Level	Project		Overprogram	\$0		4		\$43,750	\$175,000	2	\$50,000	\$100,000	2	\$30,000	\$60,000	2	\$42,500	\$85,000	1	\$125,000	\$125,000					
PROJECT INFORMATION				UNITS		UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST							
Profit Center	Budget Reserve Overprogram	Project Title	Justification	Priority	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	As Needed (Optional)	District	Estimated Quantity (each)	Estimated Cost (dollars)			
2602-TN-Chattanooga	Budget Reserve	Replace Servers/Upgrade Software	Equipment needed and currently not supported by the vendor	Priority A	1	\$60,000.00	\$60,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2600-TN-Cap Growth Budget	-	\$0			
2603-TN-Suck Creek	Budget	Replace Obsolete RTU's Suck Creek/Upgrade Software	Equipment needed and currently not supported by the vendor	Priority A	1	\$50,000.00	\$50,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2601-TN-Corporate	-	\$0			
2605-TN-Sequatchie Valley	Budget	Plant SCADA Integration/Spare Server Online	New equipment that improves productivity	Priority B	1	\$30,000.00	\$30,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2602-TN-Chattanooga	1	\$60,000			
2602-TN-Chattanooga	Budget	Maintain Software Licenses/Spare Parts	Equipment needed and currently not supported by the vendor	Priority A	-	\$0.00	\$0	1	\$65,000.00	\$65,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2603-TN-Suck Creek	1	\$50,000			
2605-TN-Sequatchie Valley	Budget	Automate Filter Operation	New equipment that improves productivity	Priority B	-	\$0.00	\$0	1	\$35,000.00	\$35,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2604-TN-Lone Oak	-	\$0			
2602-TN-Chattanooga	Budget	Relace Node Browsers/Upgrade Software	Equipment needed and currently not supported by the vendor	Priority A	-	\$0.00	\$0	-	\$0.00	\$0	1	\$40,000.00	\$40,000	-	\$0.00	\$0	-	\$0.00	\$0		2605-TN-Sequatchie Valley	2	\$65,000			
2605-TN-Sequatchie Valley	Budget	Maintain Licensing/Spare Server	Equipment needed and currently not supported by the vendor	Priority A	-	\$0.00	\$0	-	\$0.00	\$0	1	\$20,000.00	\$20,000	-	\$0.00	\$0	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Upgrade Servers/Brower Nodes 64bit	Equipment needed and currently not supported by the vendor	Priority A	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1	\$60,000.00	\$60,000	-	\$0.00	\$0							
2605-TN-Sequatchie Valley	Budget	Upgrade Servers/ 64 bit	Equipment needed and currently not supported by the vendor	Priority A	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1	\$25,000.00	\$25,000	-	\$0.00	\$0							
2605-TN-Sequatchie Valley	Budget	Automate Red Hill Booster Station	Equipment needed and currently not supported by the vendor	Priority A	1	\$35,000.00	\$35,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Integrate Vibrational/Power/Templet/c of Pumping Units	New equipment that improves productivity	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1	\$125,000.00	\$125,000							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
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					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
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					-	\$0.00	\$0	-	\$0.00	\$0	-															

SECURITY EQUIPMENT and SYSTEMS				CURRENT BUSINESS PLAN YEAR - 2017				PRIORITY	2017			2018			2019			2020			2021											
Operating Unit	26-Tennessee	M	Budget	\$140,000	Priority A	3	\$46,667	\$140,000	8	\$15,000	\$120,000	5	\$15,000	\$75,000	1	\$75,000	\$75,000	1	\$75,000	\$75,000	0	\$0	\$0									
Business Plan Year	2017		Budget Reserve	\$0	Priority B	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0									
Date Prepared	April 18, 2016		Total Budget	\$140,000	Priority C	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0									
Budget Level	Project		Overprogram	\$0	Total	3	\$46,667	\$140,000	8	\$15,000	\$120,000	5	\$15,000	\$75,000	1	\$75,000	\$75,000	1	\$75,000	\$75,000	0	\$0	\$0									
PROJECT INFORMATION																									COMMENTS				SUBTOTAL BY DISTRICT1		2017	
Profit Center	Budget Reserve Overprogram	Project Title	Justification	Priority	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	As Needed (Optional)	District	Estimated Quantity (each)	Estimated Cost (dollars)						
2603-TN-Suck Creek	Budget	Suck Creek Camera upgrade/BA upgrade	Physically fails and not repairable, or in imminent danger of failure	Priority A	1	\$50,000.00	\$50,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	2600-TN-Cap Growth Budget	-	\$0							
2602-TN-Chattanooga	Budget	CITICO Camera upgrades	Physically fails and not repairable, or in imminent danger of failure	Priority A	1	\$75,000.00	\$75,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	2601-TN-Corporate	-	\$0							
2602-TN-Chattanooga	Budget	Riverside Drive Distribution Bldg/Engineering bldg	Minimum level of health and safety risk reduction not in place	Priority A	-	\$200,000.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	2602-TN-Chattanooga	1	\$75,000							
2605-TN-Sequatchie Valley	Budget	Whitwell security upgrade	Physically fails and not repairable, or in imminent danger of failure	Priority A	1	\$15,000.00	\$15,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	2603-TN-Suck Creek	1	\$50,000							
2602-TN-Chattanooga	Budget	Tier 3 Signal Mountain Tank Site	Minimum level of health and safety risk reduction not in place	Priority A	-	\$0.00	\$0	1	\$15,000.00	\$15,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	2604-TN-Lone Oak	-	\$0							
2602-TN-Chattanooga	Budget	Tier 3 East Brainerd Tank Site	Minimum level of health and safety risk reduction not in place	Priority A	-	\$0.00	\$0	1	\$15,000.00	\$15,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	2605-TN-Sequatchie Valley	1	\$15,000							
2602-TN-Chattanooga	Budget	Tier 3 Red Bank Tank Site	Minimum level of health and safety risk reduction not in place	Priority A	-	\$0.00	\$0	1	\$15,000.00	\$15,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	0									
2602-TN-Chattanooga	Budget	Tier 3 St Elmo Tank Site	Minimum level of health and safety risk reduction not in place	Priority A	-	\$0.00	\$0	1	\$15,000.00	\$15,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	0									
2602-TN-Chattanooga	Budget	Tier 3 South Mission Ridge Tank Site	Minimum level of health and safety risk reduction not in place	Priority A	-	\$0.00	\$0	1	\$15,000.00	\$15,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	0									
2602-TN-Chattanooga	Budget	Tier 3 South End Tank Site	Minimum level of health and safety risk reduction not in place	Priority A	-	\$0.00	\$0	1	\$15,000.00	\$15,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	0									
2602-TN-Chattanooga	Budget	Tier 3 Lookout Mountain Tank Site	Minimum level of health and safety risk reduction not in place	Priority A	-	\$0.00	\$0	1	\$15,000.00	\$15,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	0									
2602-TN-Chattanooga	Budget	Tier 3 Elder Mountain Tank Site	Minimum level of health and safety risk reduction not in place	Priority A	-	\$0.00	\$0	-	\$0.00	\$0	1	\$15,000.00	\$15,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	0									
2602-TN-Chattanooga	Budget	Tier 3 Mission Ridge II Tank Site	Minimum level of health and safety risk reduction not in place	Priority A	-	\$0.00	\$0	-	\$0.00	\$0	1	\$15,000.00	\$15,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	0									
2602-TN-Chattanooga	Budget	Tier 3 Ryall Springs Tank Site	Minimum level of health and safety risk reduction not in place	Priority A	-	\$0.00	\$0	-	\$0.00	\$0	1	\$15,000.00	\$15,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	0									
2602-TN-Chattanooga	Budget	Tier 3 Jenkins Rd Tank Site	Minimum level of health and safety risk reduction not in place	Priority A	-	\$0.00	\$0	-	\$0.00	\$0	1	\$15,000.00	\$15,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	0									
2603-TN-Suck Creek	Budget	Tier 3 Suck Creek Tank Site	Minimum level of health and safety risk reduction not in place	Priority A	-	\$0.00	\$0	-	\$0.00	\$0	1	\$15,000.00	\$15,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	0									
2602-TN-Chattanooga	Budget	Tier 3 White Oak Tank Site	Minimum level of health and safety risk reduction not in place	Priority A	-	\$0.00	\$0	1	\$15,000.00	\$15,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	0									
2602-TN-Chattanooga	Budget	Future Security Upgrades	Minimum level of health and safety risk reduction not in place	Priority A	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1	\$75,000.00	\$75,000	-	\$0.00	\$0	1	\$75,000.00	\$75,000	0									
2602-TN-Chattanooga	Budget	Future Security Upgrades	Minimum level of health and safety risk reduction not in place	Priority A	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	0									
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					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	0									
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	0									
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					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	0									
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	0									
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	0									
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	0									
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	0									
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	0									
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	0									
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	0									
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	0									
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	0									
					-																											

OFFICES and OPERATIONS CENTERS				CURRENT BUSINESS PLAN YEAR - 2017				PRIORITY	2017			2018			2019			2020			2021							
Operating Unit	26-Tennessee	N	Budget	\$15,000	Priority A	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0					
Business Plan Year	2017		Budget Reserve	\$0	Priority B	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0					
Date Prepared	April 18, 2016		Total Budget	\$15,000	Priority C	1	\$15,000	\$15,000	1	\$15,000	\$15,000	1	\$15,000	\$15,000	1	\$15,000	\$15,000	1	\$15,000	\$15,000	1	\$15,000	\$15,000					
Budget Level	Project		Overprogram	\$0	Total	1	\$15,000	\$15,000	1	\$15,000	\$15,000	1	\$15,000	\$15,000	1	\$15,000	\$15,000	1	\$15,000	\$15,000	1	\$15,000	\$15,000					
PROJECT INFORMATION				UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	COMMENTS	SUBTOTAL BY DISTRICT	2017	
Profit Center	Budget Budget Reserve Overprogram	Project Title	Justification	Priority	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	As Needed (Optional)	District	Estimated Quantity (each)	Estimated Cost (dollars)		
2605-TN-Sequatchie Valley	Budget	Distribution/admin office	Proactive replacement based on age, condition or new technology	Priority C	1	\$15,000.00	\$15,000	1	\$15,000.00	\$15,000	1	\$15,000.00	\$15,000	1	\$15,000.00	\$15,000	1	\$15,000.00	\$15,000	1	\$15,000.00	\$15,000		2600-TN-Cap Growth Budget	-	\$0		
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2601-TN-Corporate	-	\$0		
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2602-TN-Chattanooga	-	\$0		
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2603-TN-Suck Creek	-	\$0		
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2604-TN-Lone Oak	-	\$0		
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2605-TN-Sequatchie Valley	1	\$15,000		
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		0				
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0						

VEHICLES		CURRENT BUSINESS PLAN YEAR - 2017					PRIORITY	2017			2018			2019			2020			2021						
Operating Unit	26-Tennessee	O	Budget	\$525,000	Priority A	0	\$0	TOTAL QTY	AVG UNIT COST	TOTAL COST	TOTAL QTY	AVG UNIT COST	TOTAL COST	TOTAL QTY	AVG UNIT COST	TOTAL COST	TOTAL QTY	AVG UNIT COST	TOTAL COST	TOTAL QTY	AVG UNIT COST	TOTAL COST				
Business Plan Year	2017		Budget Reserve	\$0	Priority B	10	\$52,500	\$525,000	7	\$50,571	\$354,000	10	\$30,300	\$303,000	10	\$52,300	\$523,000	9	\$43,556	\$392,000						
Date Prepared	April 18, 2016		Total Budget	\$525,000	Priority C	0	\$0		0	\$0	\$0	1	\$35,000	\$35,000	1	\$35,000	\$35,000	1	\$35,000	\$35,000	1	\$35,000	\$35,000			
Budget Level	Project		Overprogram	\$0	Total	10	\$52,500	\$525,000	8	\$49,250	\$394,000	11	\$30,727	\$338,000	11	\$50,727	\$558,000	10	\$42,700	\$427,000						
PROJECT INFORMATION																										
Profit Center	Budget Reserve Overprogram	Project Title	Vehicle Type (Class)	Justification	Priority	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	COMMENTS		SUBTOTAL BY DISTRICT	2017		
						Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	As Needed (Optional)	District	Estimated Quantity (each)	Estimated Cost (dollars)		
2602-TN-Chattanooga	Budget	1GCEK19V72137743	2007 Silverado 71114 (112,000) DIST	Pickup	Has reached the end of its expected life	Priority B	1	\$35,000.00	\$35,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2600-TN-Cap Growth Budget	-	\$0	
2602-TN-Chattanooga	Budget	1GCEK19V972142793	2007 Silverado 71112 (129,758) Dist New Service	Pickup	Has reached the end of its expected life	Priority B	1	\$35,000.00	\$35,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2601-TN-Corporate	-	\$0	
2602-TN-Chattanooga	Budget	1FDAF56P66E871878	Valve Truck	Medium Truck	Has reached the end of its expected life	Priority B	1	\$140,000.00	\$140,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2602-TN-Chattanooga	9	\$405,000	
2602-TN-Chattanooga	Budget	1GCEK19V72129731	2007 Silverado 71113 Dist	Pickup	Has reached the end of its expected life	Priority B	1	\$35,000.00	\$35,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2603-TN-Suck Creek	-	\$0	
2602-TN-Chattanooga	Budget	3GCEK14X97G199184	2007 Chev Silverado 71124 (105,960)	Pickup	Has reached the end of its expected life	Priority B	1	\$35,000.00	\$35,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2605-TN-Sequatchie Valley	1	\$120,000	
2602-TN-Chattanooga	Budget	1D7HA16K28J238958	Meter Shop Dodge - Need To Replace	Pickup	Has reached the end of its expected life	Priority B	1	\$30,000.00	\$30,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2017			
2602-TN-Chattanooga	Budget	1GCEC14X972122730	2007 Chevy Silverado - Meter Shop	Pickup	Has reached the end of its expected life	Priority B	1	\$30,000.00	\$30,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2017			
2602-TN-Chattanooga	Budget	1GCEC14X172126514	2007 Chevy Silv Meter Shop	Pickup	Has reached the end of its expected life	Priority B	1	\$30,000.00	\$30,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2017			
2602-TN-Chattanooga	Budget	1FTNF2JF1KEE73488	1999 Ford 250 Production	Pickup	Has reached the end of its expected life	Priority B	1	\$35,000.00	\$35,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2017			
2602-TN-Chattanooga	Budget	2CNOL23F06022774	2007 Equinox - Prod 59,000 Miles	SUV	Has reached the end of its expected life	Priority B	-	\$0.00	\$0	1	\$28,000.00	\$28,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2017			
2602-TN-Chattanooga	Budget	2CNOL23F976043527	2007 Equinox - Meter 46,666	SUV	Has reached the end of its expected life	Priority B	-	\$0.00	\$0	1	\$28,000.00	\$28,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2017			
2602-TN-Chattanooga	Budget	1GCEK19V45Z285924	2005 Chevy Silverado - Dist Needs Rpl	Pickup	Has reached the end of its expected life	Priority B	-	\$0.00	\$0	1	\$35,000.00	\$35,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2017			
2602-TN-Chattanooga	Budget	1HTMMAAM57H536292	Danny Dump	Medium Truck	Has reached the end of its expected life	Priority B	-	\$0.00	\$0	1	\$100,000.00	\$100,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2017			
2602-TN-Chattanooga	Budget	1HTMMAAM37H536291	ELI dump	Medium Truck	Has reached the end of its expected life	Priority B	-	\$0.00	\$0	1	\$100,000.00	\$100,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2017			
2602-TN-Chattanooga	Budget	1D7HE2K485S38272	Dodge Dakota? Meter Shop	Pickup	Has reached the end of its expected life	Priority B	-	\$0.00	\$0	1	\$28,000.00	\$28,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2017			
2602-TN-Chattanooga	Budget	5TFUJ4EN5D0X84038	Production - Low Miles	Pickup	Has reached the end of its expected life	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	1	\$30,000.00	\$30,000	-	\$0.00	\$0	-	\$0.00	\$0		2017			
2602-TN-Chattanooga	Budget	1GBJC34U25E272574	2005 Silverado	Pickup	Has reached the end of its expected life	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	1	\$35,000.00	\$35,000	-	\$0.00	\$0	-	\$0.00	\$0		2017			
2602-TN-Chattanooga	Budget	1GCEK19V752142742	2005 Silverado	Pickup	Has reached the end of its expected life	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	1	\$35,000.00	\$35,000	-	\$0.00	\$0	-	\$0.00	\$0		2017			
2602-TN-Chattanooga	Budget	1WVWAP7JA3CC007454	VW Passat - Safety	Car	Has reached the end of its expected life	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	1	\$28,000.00	\$28,000	-	\$0.00	\$0	-	\$0.00	\$0		2017			
2602-TN-Chattanooga	Budget	1GCKVBG3AF131341	David McIlroy	Pickup	Has reached the end of its expected life	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	1	\$28,000.00	\$28,000	-	\$0.00	\$0	-	\$0.00	\$0		2017			
2602-TN-Chattanooga	Budget	1GCCSBDE5A8144132	Colorado Meter Shop	Pickup	Has reached the end of its expected life	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	1	\$28,000.00	\$28,000	-	\$0.00	\$0	-	\$0.00	\$0		2017			
2602-TN-Chattanooga	Budget	1GCCSBDE5A8142582	Colorado Meter Shop	Pickup	Has reached the end of its expected life	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	1	\$28,000.00	\$28,000	-	\$0.00	\$0	-	\$0.00	\$0		2017			
2602-TN-Chattanooga	Budget	1G1Z5S285F202976	2005 Malibu	Car	Has reached the end of its expected life	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	1	\$28,000.00	\$28,000	-	\$0.00	\$0	-	\$0.00	\$0		2017			
2602-TN-Chattanooga	Budget	1GCKSVBG3A2184600	2010 Pickup - Production	Pickup	Has reached the end of its expected life	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	1	\$28,000.00	\$28,000	-	\$0.00	\$0	-	\$0.00	\$0		2017			
2602-TN-Chattanooga	Budget	1FTMFLEW7AKE34439	Ford FSR	Pickup	Has reached the end of its expected life	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	1	\$35,000.00	\$35,000	-	\$0.00	\$0	-	\$0.00	\$0		2017			
2602-TN-Chattanooga	Budget	NMOL56ANDT156914	Transit	Cargo Van	Has reached the end of its expected life	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1	\$28,000.00	\$28,000	-	\$0.00	\$0		2017			
2602-TN-Chattanooga	Budget	NMOL56ANXDT141776	Transit	Cargo Van	Has reached the end of its expected life	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1	\$28,000.00	\$28,000	-	\$0.00	\$0		2017			
2602-TN-Chattanooga	Budget	NMOL56ANDT150688	Transit	Cargo Van	Has reached the end of its expected life	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1	\$28,000.00	\$28,000	-	\$0.00	\$0		2017			
2602-TN-Chattanooga	Budget	3D6WGA6D96G243007	2008 Dodge - Meter Shop	Pickup	Has reached the end of its expected life	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1	\$35,000.00	\$35,00								

TOOLS and EQUIPMENT				CURRENT BUSINESS PLAN YEAR - 2017						PRIORITY	2017			2018			2019			2020			2021						
Operating Unit Business Plan Year Date Prepared Budget Level	26-Tennessee 2017 April 18, 2016 Project	P	Budget	\$65,000	Priority A	TOTAL QTY	AVG UNIT COST	TOTAL COST	TOTAL QTY		AVG UNIT COST	TOTAL COST	TOTAL QTY	AVG UNIT COST	TOTAL COST	TOTAL QTY	AVG UNIT COST	TOTAL COST	TOTAL QTY	AVG UNIT COST	TOTAL COST	TOTAL QTY	AVG UNIT COST	TOTAL COST					
			Budget Reserve	\$80,000		1	\$0	\$0	1		\$0	\$0	1	\$0	\$0	1	\$0	\$0											
			Total Budget	\$145,000		2	\$42,500	\$5,000	2		\$5,000	\$5,000	2	\$5,000	\$5,000	2	\$5,000	\$5,000											
			Overprogram	\$0		3	\$48,333	\$145,000	2		\$32,500	\$65,000	2	\$32,500	\$65,000	2	\$32,500	\$65,000											
PROJECT INFORMATION				UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	COMMENTS	SUBTOTAL BY DISTRICT	2017		
Profit Center	Budget Budget Reserve Overprogram	Project Title	Justification	Priority	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	As Needed (Optional)	District	Estimated Quantity (each)	Estimated Cost (dollars)			
2602-TN-Chattanooga	Budget	General Tool Life Cycle Replacements	Has reached the end of its expected life	Priority B	1	\$60,000.00	\$60,000	1	\$60,000.00	\$60,000	1	\$60,000.00	\$60,000	1	\$60,000.00	\$60,000	1	\$60,000.00	\$60,000	1	\$60,000.00	\$60,000		2600-TN-Cap Growth Budget	-	\$0			
2602-TN-Chattanooga	Budget Reserve	Inserta Valve Machin	New tool / equipment that improves productivity	Priority C	1	\$80,000.00	\$80,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2601-TN-Corporate	-	\$0			
2605-TN-Sequatchie Valley	Budget		Proactive replacement based on age, condition or new technology	Priority C	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2602-TN-Chattanooga	-	\$0			
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2603-TN-Suck Creek	2	\$140,000			
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2604-TN-Lone Oak	-	\$0			
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2605-TN-Sequatchie Valley	1	\$5,000			
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00</											

PROCESS PLANT FACILITIES AND EQUIPMENT				CURRENT BUSINESS PLAN			PRIORITY	2017			2018			2019			2020			2021			COMMENTS	SUBTOTAL BY DISTRICT	2017	
YEAR - 2017		Budget	\$455,000	TOTAL QTY	AVG UNIT COST	TOTAL COST		TOTAL QTY	AVG UNIT COST	TOTAL COST	TOTAL QTY	AVG UNIT COST	TOTAL COST	TOTAL QTY	AVG UNIT COST	TOTAL COST	TOTAL QTY	AVG UNIT COST	TOTAL COST	TOTAL QTY	AVG UNIT COST	TOTAL COST			Estimated Quantity (each)	Estimated Cost (dollars)
Operating Unit	26- Tennessee	Q	Budget Reserve	\$65,000	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0				
Business Plan Year	2017		Budget Reserve	\$65,000	11	\$47,273	\$520,000	12	\$127,917	\$1,535,000	9	\$83,889	\$755,000	12	\$93,750	\$1,125,000	9	\$91,667	\$825,000							
Date Prepared	April 18, 2016		Total Budget	\$520,000	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0							
Budget Level	Project		Overprogram	\$0	11	\$47,273	\$520,000	12	\$127,917	\$1,535,000	9	\$83,889	\$755,000	12	\$93,750	\$1,125,000	9	\$91,667	\$825,000							
PROJECT INFORMATION				UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST								
Profit Center	Budget Reserve Overprogram	Project Title	Justification	Priority	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	As Needed (Optional)			District	Estimated Quantity (each)	Estimated Cost (dollars)	
2602-TN-Chattanooga	Budget	Construct Citico High Service Bypass	Provides increased reliability or operatin	Priority B	-	\$350,000.00	\$0	-	\$350,000.00	\$350,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			2600-TN-Cap Growth Budget	-	\$0		
2602-TN-Chattanooga	Budget	Replace Rotating Element #12 Low Service	Provides increased reliability or operatin	Priority B	-	\$60,000.00	\$60,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			2601-TN-Corporate	-	\$0		
2602-TN-Chattanooga	Budget	Replace Caustic Soda Day Tank	Provides increased reliability or operatin	Priority B	1	\$15,000.00	\$15,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			2602-TN-Chattanooga	6	\$390,000		
2602-TN-Chattanooga	Budget	Install Flow Meter #8 Hill City	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1	\$20,000.00	\$20,000	-		2603-TN-Suck Creek	-	\$0		
2602-TN-Chattanooga	Budget	Repair/Replace Low Service Intake Valve	Provides increased reliability or operatin	Priority B	1	\$30,000.00	\$30,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			2604-TN-Lone Oak	-	\$0		
2602-TN-Chattanooga	Budget	Replace #11 SMR Starter	Provides increased reliability or operatin	Priority B	1	\$15,000.00	\$15,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			2605-TN-Sequatchie Valley	5	\$130,000		
2602-TN-Chattanooga	Budget	Install Docking Station for Generator @ Hillpointe	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1	\$15,000.00	\$15,000	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Install Docking Station for Generator @ Panorama	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1	\$15,000.00	\$15,000	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace #3 Hill City with larger pumping unit and VFD	Provides increased reliability or operatin	Priority B	1	\$200,000.00	\$200,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace #3 Mission Ridge with larger Pumping Unit and VFD	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1	\$200,000.00	\$200,000	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace #6 Lkt Mtn. Motor	Provides increased reliability or operatin	Priority B	1	\$70,000.00	\$70,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace Underdrains 10,12,13,14,15,16,17,18,19,20 in FH2	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	4	\$195,000.00	\$780,000	-	\$0.00	\$0	-	\$195,000.00	\$0	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace #4 Lkt. Mtn. Motor	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace #4 Lkt. Mtn. Motor	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	1	\$70,000.00	\$70,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace PACEL DC Drives	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	1	\$20,000.00	\$20,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace #11 High Service Cone Valve	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	1	\$90,000.00	\$90,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace #16 High Service Cone Valve	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	1	\$90,000.00	\$90,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Remove Abandoned Altitude Valve @2 Plant Wash Water Vault and Replace with sec	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	1	\$20,000.00	\$20,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace Backwash Valve #1 Aldrich Unit	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	1	\$40,000.00	\$40,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace Freight Elevator @ Chemical Building	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	1	\$75,000.00	\$75,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace #4 Mission Ridge Pump with larger unit and VFD	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	1	\$200,000.00	\$200,000	-	\$0.00	\$0	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace Fluoride Bulk Tank	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	1	\$100,000.00	\$100,000	-	\$0.00	\$0	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace 2 High Service Valves @ Citico	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	1	\$150,000.00	\$150,000	-	\$0.00	\$0	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace Starter Panel @ Elmendorf Station	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	1	\$80,000.00	\$80,000	-	\$0.00	\$0	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace #7 Hill City Starter	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	1	\$25,000.00	\$25,000	-	\$0.00	\$0	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace #1 Elder Mtn. Starter	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	1	\$25,000.00	\$25,000	-	\$0.00	\$0	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace #2 Elder Mtn. Starter	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	1	\$25,000.00	\$25,000	-	\$0.00	\$0	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace Elevator in Citico Pump Station	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	1	\$80,000.00	\$80,000	-	\$0.00	\$0	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace Rotating Element #11 High Service	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	1	\$70,000.00	\$70,000	-	\$0.00	\$0	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace Broken Separation Valve in Screen House	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace Siding on Chemical Building	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1	\$90,000.00	\$90,000	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace Maple Hill Booster/Rotating Acres with one Station?	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1	\$300,000.00	\$300,000	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace Carbon Slurry Feed Pump System	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1	\$150,000.00	\$150,000	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace Pumps Crestview Booster Station	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1	\$150,000.00	\$150,000	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace Starters Crestview Booster Station	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1	\$20,000.00	\$20,000	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace #13 Low Service Soft Starter	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1	\$50,000.00	\$50,000	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace Starter #7 East Ridge	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1	\$25,000.00	\$25,000	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace Starter #5 St. Elmo	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
2602-TN-Chattanooga	Budget	Replace Starter #6 St. Elmo	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1	\$50,000.00	\$50,000							
2602-TN-Chattanooga	Budget	Replace Starter #6 Lkt. Mtn.	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1	\$50,000.00	\$50,000							
2602-TN-Chattanooga	Budget	Replace Starter #8 Lkt. Mtn.	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1	\$50,000.00	\$50,000							
2602-TN-Chattanooga	Budget	Replace Battery Rack and Charger System @ Citico	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1	\$25,000.00	\$25,000							
2602-TN-Chattanooga	Budget	Replace 2 High Service Gate Valves @ Citico	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1	\$150,000.00	\$150,000							
2602-TN-Chattanooga	Budget	Replace Pump and Pump Bowl #3 Rysall Springs	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1	\$50,000.00	\$50,000							
2602-TN-Chattanooga	Budget	Replace North Travelling Screen	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1	\$200,000.00	\$200,000							
2602-TN-Chattanooga	Budget	Replace Intake Valves in Screen House	Provides increased reliability or operatin	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	1	\$200,000.00	\$200,000							
2605-TN-Sequatchie Valley	Budget Reserve	Replace Plant Roof	Has reached the end of its expected life	Priority B	1	\$25,000.00	\$25,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
2605-TN-Sequatchie Valley	Budget Reserve	Replace Plant Backwash Valve	Has reached the end of its expected life	Priority B	1	\$25,000.00	\$25,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
2605-TN-Sequatchie Valley	Budget Reserve	Surface Wash Supply Piping	Has reached the end of its expected life	Priority B	1	\$15,000.00	\$15,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
2605-TN-Sequatchie Valley	Budget	VFD Install on River Pumps	Provides increased reliability or operatin	Priority B	1	\$15,000.00	\$15,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
2605-TN-Sequatchie Valley	Budget	Sludge Removal Box	Provides a hard payback <3 years	Priority B	1	\$50,000.00	\$50,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							
					-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0							

CAPITAL TANK REHABILITATION OR PAINTING				CURRENT BUSINESS PLAN YEAR - 2017				PRIORITY	2017			2018			2019			2020			2021				
Operating Unit	26-Tennessee	R	Budget	\$1,110,125	Priority A	TOTAL QTY	AVG UNIT COST	TOTAL COST	TOTAL QTY	AVG UNIT COST	TOTAL COST	TOTAL QTY	AVG UNIT COST	TOTAL COST	TOTAL QTY	AVG UNIT COST	TOTAL COST	TOTAL QTY	AVG UNIT COST	TOTAL COST	TOTAL QTY	AVG UNIT COST	TOTAL COST		
Business Plan Year	2017		Budget Reserve	\$0	Priority B	1	\$350,000	\$350,000	1	\$375,000	\$375,000	0	\$0	\$0	1	\$375,000	\$375,000	0	\$0	\$0	1	\$375,000	\$375,000		
Date Prepared	April 18, 2016		Total Budget	\$1,110,125	Priority C	1	\$760,125	\$760,125	1	\$600,000	\$600,000	1	\$600,000	\$600,000	1	\$731,250	\$731,250	1	\$731,250	\$731,250	1	\$731,250	\$731,250		
Budget Level	Project		Overprogram	\$0	Total	2	\$555,063	\$1,110,125	2	\$487,500	\$975,000	1	\$600,000	\$600,000	2	\$553,125	\$1,106,250	2	\$553,125	\$1,106,250	2	\$553,125	\$1,106,250		
PROJECT INFORMATION					PRIORITY	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	UNITS	UNIT COST	PROJ. COST	COMMENTS		SUBTOTAL BY DISTRICT	2017	
Profit Center	Cos	Budget Reserve Overprogram	Project Title	Project Type	Justification	Priority	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	As Needed (Optional)	District	Estimated Quantity (each)	Estimated Cost (dollars)
2602-TN-Chattanooga	Budget		Mission Ridge 2 Standpipe	Rehab. and Painting	Required to comply with regulations	Priority A	1	\$350,000.00	\$350,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2600-TN-Cap Growth Budget	-	\$0
2602-TN-Chattanooga	Budget		Paint Aldridge Unit #5	Rehab. and Painting	Proactive replacement based on age, condition, or new technology	Priority C	-	\$0.00	\$0	1	\$600,000.00	\$600,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2601-TN-Corporate	-	\$0
2602-TN-Chattanooga	Budget		Paint Aldridge Unit #6	Rehab. and Painting	Proactive replacement based on age, condition, or new technology	Priority C	-	\$0.00	\$0	-	\$0.00	\$0	1	\$600,000.00	\$600,000	-	\$0.00	\$0	-	\$0.00	\$0		2602-TN-Chattanooga	2	\$1,110,125
2602-TN-Chattanooga	Budget		Storage Tank Painting and Rehab - Tanks not identified at this time	Rehab. and Painting	Proactive replacement based on age, condition, or new technology	Priority C	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2603-TN-Suck Creek	-	\$0
2602-TN-Chattanooga	Budget		South End Tank Rehab	Rehab. and Painting	Proactive replacement based on age, condition, or new technology	Priority C	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2604-TN-Low Oak	-	\$0
2602-TN-Chattanooga	Budget					Priority C	1	\$760,125.00	\$760,125	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2605-TN-Sequatchie Valley	-	\$0
2602-TN-Chattanooga	Budget					Priority C	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
2602-TN-Chattanooga	Budget		Mission Ridge Reservoir 2	Rehab. and Painting	Proactive replacement based on age, condition, or new technology	Priority C	-	\$0.00	\$0	-	\$0.00	\$0	-	\$731,250.00	\$0	1	\$731,250.00	\$731,250	-	\$0.00	\$0			0	\$0
2602-TN-Chattanooga	Budget					Priority C	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
2602-TN-Chattanooga	Budget		Mission Ridge Reservoir 1	Rehab. and Painting	Proactive replacement based on age, condition, or new technology	Priority C	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$731,250.00	\$0	1	\$731,250.00	\$731,250			0	\$0
2602-TN-Chattanooga	Budget					Priority C	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
2602-TN-Chattanooga	Budget		Lookout Mountain 2	Rehab. and Painting	Proactive replacement based on age, condition, or new technology	Priority C	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
2602-TN-Chattanooga	Budget		Lookout Mountain 3	Rehab. and Painting	Proactive replacement based on age, condition, or new technology	Priority C	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
2605-TN-Sequatchie Valley	Budget					Priority A	-	\$375,000.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
2605-TN-Sequatchie Valley	Budget				Required to comply with regulations	Priority A	-	\$0.00	\$0	1	\$375,000.00	\$375,000	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
2605-TN-Sequatchie Valley	Budget				Required to comply with regulations	Priority A	-	\$0.00	\$0	-	\$0.00	\$0	-	\$375,000.00	\$0	1	\$375,000.00	\$375,000	-	\$0.00	\$0			0	\$0
2605-TN-Sequatchie Valley	Budget				Required to comply with regulations	Priority A	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$375,000.00	\$0	1	\$375,000.00	\$375,000			0	\$0
2605-TN-Sequatchie Valley	Budget				Required to comply with regulations	Priority A	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0			0	\$0
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							-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00											

ENGINEERING STUDIES				CURRENT BUSINESS PLAN YEAR - 2017										PRIORITY	2017			2018			2019			2020			2021															
Operating Unit	26-Tennessee	S	Budget	\$50,000	Priority A	1	\$50,000	\$50,000	1	\$50,000	\$50,000	1	\$50,000	\$50,000	1	\$50,000	\$50,000	1	\$50,000	\$50,000	1	\$50,000	\$50,000	1	\$50,000	\$50,000	1	\$50,000	\$50,000													
Business Plan Year	2017		Budget Reserve	\$0	Priority B	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0													
Date Prepared	April 18, 2016		Total Budget	\$50,000	Priority C	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0	0	\$0	\$0													
Budget Level	Project		Overprogram	\$0	Total	1	\$50,000	\$50,000	1	\$50,000	\$50,000	1	\$50,000	\$50,000	1	\$50,000	\$50,000	1	\$50,000	\$50,000	1	\$50,000	\$50,000	1	\$50,000	\$50,000	1	\$50,000	\$50,000													
PROJECT INFORMATION										UNITS			UNIT COST			PROJ. COST			UNITS			UNIT COST			PROJ. COST			UNITS			UNIT COST			PROJ. COST			COMMENTS		SUBTOTAL BY DISTRICT		2017	
Profit Center	Budget Budget Reserve Overprogram	Project Title	Study Type	Justification	Priority	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	Estimated Quantity (each)	Estimated Unit Cost (\$/unit)	Estimated Cost (dollars)	As Needed (Optional)	District	Estimated Quantity (each)	Estimated Cost (dollars)									
2602-TN-Chattanooga	Budget	Chlorine	Production Study	Addresses imminent health and/or safety issues	Priority A	1	\$50,000	\$50,000	1	\$50,000	\$50,000	1	\$50,000	\$50,000	1	\$50,000	\$50,000	1	\$50,000	\$50,000	1	\$50,000	\$50,000	1	\$50,000	\$50,000	1	\$50,000	\$50,000		2600-TN-Cap Growth Budget	-	\$0									
2602-TN-Chattanooga	Budget	GPS All Services and Map all premises to the Parcel/Building	Other	Existing study is 10 years or older	Priority B	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2601-TN-Corporate	-	\$0									
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2602-TN-Chattanooga	1	\$50,000									
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2603-TN-Suck Creek	-	\$0									
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2604-TN-Lone Oak	-	\$0									
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0		2605-TN-Sequatchie Valley	-	\$0									
						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0													
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						-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00	\$0	-	\$0.00																							

Tennessee American Water 2018 Project Report – April 2018

QUALIFIED INFRASTRUCTURE INVESTMENT PROGRAM (QIIP)

WATER MAIN REPLACEMENTS

TAWC expects to spend approximately \$1,473,738 to replace various size water mains within eight (8) projects during 2018.

- 1) Install 700 lf of 6-inch and 4-inch ductile iron main along **Paden Lane** to replace 2-inch cast iron main. In Service
- 2) Install 600 lf of 6-inch ductile iron main along **Hanover Street** to replace 2-inch cast iron main. In Service
- 3) Install 1300 lf of 6-inch ductile iron main along **Carroll Lane** to replace 2-inch cast iron main. Q2
- 4) Install 1400 lf of 6-inch ductile iron main along **Frost Street** to replace 2-inch galvanized main. Q3
- 5) Install 1000 lf of 8-inch iron main along **Addison Road** to replace 2-inch galvanized main. Q3
- 6) Install 320 lf of 4-inch ductile iron water main along **Carnation Street** to replace 1.5” galvanized water main. Q4
- 7) Install 1100 lf of 8-inch ductile iron main along **10th Avenue** to replace 2-inch galvanized main. Q4
- 8) Install 300 lf of 16-inch ductile iron main along **Riverside Access Road** to replace 16-inch cast iron main. In Progress

UNSCHEDULED MAIN REPLACEMENTS

TAWC expects to spend approximately \$1,238,682 to replace various size water mains during unscheduled events.

WATER MAIN RELOCATIONS

TAWC plans to spend approximately \$289,539 to replace various size water mains within the distribution system that is required to be relocated due to the work of a municipal or state agency.

- 1) 300 lf of 12-inch water main relocation for **MLK and Georgia** Miller Park improvements. In Service
- 2) 500 lf of 8-inch, and 6-inch water main relocation in coordination with City of Chattanooga storm drain project along **Fulton Street**. In service
- 3) 900 lf of 12-inch water main relocation for **Camp Jordan Parkway** TDOT project. In service.
- 4) 350 lf of 6-inch water main relocation for **Somerville Avenue** City of Chattanooga Sewer project. In progress
- 5) 80 lf of 8-inch water main relocation for **Swan Road** City of Chattanooga Storm Water project. In progress

REPLACEMENT HYDRANTS AND VALVES

TAWC plans to spend approximately \$422,000 to replace hydrants and valves.

REPLACEMENT SERVICES AND METERS

TAWC plans to spend \$2,871,879 towards the replacement of meters and services; this includes approximately 13,591 meters.

TANK REHABILITATION/ PAINTING

TAWC plans to spend approximately \$413,875 on a tank rehabilitation for the Elder Mountain Receiving Tank.

ECONOMIC DEVELOPMENT INVESTMENT PROGRAM (EDI)

NEW WATER MAIN EXTENSION

TAWC plans to spend approximately \$373,000 on various size water mains within distribution system associated with eliminating dead ends or upsizing of developer initiated extensions.

- 1) Install 1900 lf of 8-inch ductile iron main along **Hamilton Street** Q2
- 2) Design of Hwy 283 12" Main Extension and Bridge Crossing (Whitwell)

NEW HYDRANTS AND VALVES

TAWC plans to spend approximately \$116,137 on fire hydrants and various size water valves within our distribution system.

SAFETY AND ENVIRONMENTAL COMPLIANCE PROGRAM (SEC)

PROCESS PLANT FACILITIES AND EQUIPMENT

TAWC plans to spend approximately \$1,429,742 on replacements of pumps, valves, turbidimeters, and other process plant improvements throughout 2018.

SCADA EQUIPMENT AND SYSTEMS

TAWC plans to spend approximately \$158,394 on replacements and upgrades of SCADA equipment throughout 2018.

SECURITY EQUIPMENT AND SYSTEMS

TAWC plans to spend approximately \$150,085 on replacements and upgrades of security equipment and upgrades, to meet internal and federal requirements.

CAPITAL INVESTMENT PROJECTS

- 1) Tennessee River Transmission Main Crossing- TAWC plans to spend \$3,514,480 starting in 2018. Currently under design. (QIIP)
- 2) Replace Basin 2 with Plate Settlers (QIIP) TAWC plans to spend \$255,000 starting in 2018 for project design.
- 3) Citico Plant Chlorine Gas Conversion – TAWC planned to spend \$974,190 in Q3 of 2018 (SEC)

