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November 30, 2020

Via Hand-Delivery

Executive Director Earl Taylor
c/o Ectory Lawless
Tennessee Public Utility Commission
502 Deaderick Street, Fourth Floor
Nashville, Tennessee 37243

Re: ***Petition of Piedmont Natural Gas Company, Inc. for Approval of an Integrity Management Rider to its Approved Rate Schedules and Service Regulations***
Docket No. 20- 00130

Dear Mr. Taylor:

Enclosed please find an original and five (5) copies of Piedmont Natural Gas Company, Inc.'s ("Piedmont" or "Company") Integrity Management Rider ("IMR" or "Rider") mechanism annual filing and proposed annual rate adjustment for January 1, 2021 pursuant to this Rider.

Under Piedmont's IMR mechanism, Service Schedule No. 317, as approved by the Tennessee Regulatory Authority Order on May 13, 2014, Piedmont will adjust its rates effective January 1st of each year in order to recover the costs associated with the Company's prior year's integrity management capital investment not yet reflected in Piedmont's base rates.

Piedmont's IMR requires that Piedmont submit an annual filing no later than November 30th of each year.

Piedmont hereby submits its 2020 annual filing which includes the following information in accordance with Service Schedule No. 317: (a) the monthly IMR filing for October 2020, (b) a schedule of all journal entries made related to this Rider for the previous 12 months, (c) billing determinants for the prior 12 months as used in the computation of the Deferred Account Adjustment, (d) capitalization policy effective for the prior 12 months, (e) the computation calculating the IMRR and all supporting schedules, (f) a schedule of any proposed prior period adjustments, and (g) a statement of whether the Company is aware of any changing conditions that may affect whether the Rider is still in the public interest, including the identification of those factors. This filing also includes the proposed Sixty-Eighth Revised Sheet No. 1 reflecting the proposed billing rates for January 1, 2021.

Also included with this filing is the Direct Testimony of Pia K. Powers in support of Piedmont's 2020 annual filing.

This material is also being filed today by way of email to the Tennessee Public Utility Commission docket manager, Ectory Lawless. Please file the original and four copies and stamp



Executive Director Earl Taylor
c/o Ectory Lawless
November 30, 2020
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the additional copies as "filed." Then please return the stamped copy to me by way of our courier.

Very truly yours,

Very truly yours,

A handwritten signature in blue ink that reads "Paul S. Davidson" followed by a stylized monogram or initials.

Paul S. Davidson

PSD:

Enclosures

cc: David Foster
Daniel Whitaker
Vance Broemel
Bruce Barkley
Pia Powers
James H. Jeffries IV

**Before the
Tennessee Public Utility Commission**

Docket No. 20-00130

**Petition of Piedmont Natural Gas Company, Inc.
for Approval of an Integrity Management Rider to its
Approved Rate Schedules and Service Regulations**

Integrity Management Rider

2020 Annual Filing



November 30, 2020

TPUC Docket No. 20-00130
Integrity Management Rider
October 2020 Monthly Report

Cumulative Integrity Management Investment Amount
Actual Integrity Management Investment, by Integrity Project Type

		Current Vintage Year: Vintage Year 8			All Vintage Years
Line No.		October 2020 Capital Expenditure ¹	Prior Cumulative Capital Expenditure ²	Cumulative Capital Expenditure as of October 2020 ³	Cumulative Capital Expenditure as of October 2020 ⁶
<i>TN Direct</i>					
1	Corrosion Control	\$ 32,879.27	\$ 650,323.34	\$ 683,202.61	\$ 8,624,926.04
2	Casing Remediation	\$ 825,087.99	\$ 238,600.11	\$ 1,063,688.10	\$ 1,940,962.95
3	Distribution Integrity	\$ 3,030,871.97	\$ 21,362,413.58	\$ 24,393,285.55	\$ 110,308,600.23
4	Transmission Integrity	\$ 2,112,765.65	\$ 40,401,205.24	\$ 42,513,970.89	\$ 253,785,210.25
5	Total	\$ 6,001,604.88	\$ 62,652,542.27	\$ 68,654,147.15	\$ 374,659,699.47
<i>Joint Property: CO3-State</i>					
6	OASIS Project (Work & Asset Management System)	\$ -	\$ -	\$ -	\$ 133,880,060.70
7	TN % of CO-3 for Current Month ⁴	15.65%			
8	Total Allocated to TN	\$ -	\$ -	\$ -	\$ 23,535,435.31
9	Total Capital Expenditures [Line 5 + Line 8]	\$ 6,001,604.88	\$ 62,652,542.27	\$ 68,654,147.15	\$ 398,195,134.78
10	Less: Amount Included in the Attrition Period ⁵	\$ -	\$ -	\$ -	\$ 32,900,000.00
11	Total Integrity Management Investment	\$ 6,001,604.88	\$ 62,652,542.27	\$ 68,654,147.15	\$ 365,295,134.78

1/ Represents, for the current month, the actual Integrity Management Investment that is subject to this Rider

2/ Represents, as of the prior month, the cumulative Integrity Management Investment for the current Vintage Year that is subject to this Rider; this amount is shown in the prior month's report

3/ Represents, for the current Vintage Year through the current month, the cumulative Integrity Management Investment that is subject to this Rider

4/ Represents the TN% of Total Company Gas Plant Excluding Joint Property , which is updated annually

5/ Amount being recovered in existing base rates, per the Relevant Rate Order in Docket 11-00144

6/ Represents, for all Vintage Years through the current month, the cumulative Integrity Management Investment that is subject to this Rider. The cumulative Integrity Management Investment for Vintage Years 1, 2, 3, 4, 5, 6 and 7 which captures amounts through 10/31/19, is \$296,640,987.63 (\$100,306,282.52 for Vintage Year 1, \$53,974,676.19 for Vintage Year 2, \$18,441,896.09 for Vintage Year 3, \$20,076,717.97 for Vintage Year 4, \$38,244,253.18 for Vintage Year 5, \$27,564,238.09 for Vintage Year 6 and \$38,032,923.59 for Vintage Year 7).

Detail of Current Month's Integrity Management Investment Amount
Actual Capital Investment for Current Month, by Capital Funding Project

Line No.	Capital Project Type	Funding Project Number	District	Funding Project Description	October 2020
1	CORR-Corrosion Control	F0228798	17	Hillsboro Rd. Rectifier & Ground Bed	1,491.19
2	CORR-Corrosion Control	F0229704	17	Nashville Rectifier & Ground Bed	62.95
3	CORR-Corrosion Control	F0232178	17	Cedar Hill Park Deep Well-New Rec	31,325.13
4	CSNG-Casing & Remediation	F0231460	17	Main Street @ I-65 Casing Removal	44,279.35
5	CSNG-Casing & Remediation	F0231471	17	44th Ave N @ I-40 - 8" Pipe	780,808.64
6	DIMP-Distribution Integrity	F0221773	17	Walton Lane Valve Replacements	(9,257.60)
7	DIMP-Distribution Integrity	F0222120	17	31st Ave @ West end Valve Replacement	(28,674.37)
8	DIMP-Distribution Integrity	F0222124	17	Harding Pl & Granny White Pk Valve	(2,412.36)
9	DIMP-Distribution Integrity	F0222865	17	Post Place Retirement and pressure	42,870.43
10	DIMP-Distribution Integrity	F0224311	17	Hermitage Pressure Downgrade	77,630.61
11	DIMP-Distribution Integrity	F0224331	17	Paragon Mills Road	46,318.40
12	DIMP-Distribution Integrity	F0224337	17	Van Buren Renewel	90,857.37
13	DIMP-Distribution Integrity	F0224345	17	4934 Whites Creek Pk	(13,659.08)
14	DIMP-Distribution Integrity	F0225445	17	22nd Ave N @ Murphy Valve Replacement	(28,674.37)
15	DIMP-Distribution Integrity	F0226414	17	Line 304 Convert to Dist (Station)	3,230.99
16	DIMP-Distribution Integrity	F0228432	17	21st and Jefferson	(2,661.88)
17	DIMP-Distribution Integrity	F0229092	17	39th Ave North	7,352.46
18	DIMP-Distribution Integrity	F0229495	17	1st ave south 12" 175# Replacement	21,362.65
19	DIMP-Distribution Integrity	F0230663	17	Ann Street and Branch St Dresser Co	312.49
20	DIMP-Distribution Integrity	F0230664	17	Doak Ave 2" and 4" DIMP	359,300.68
21	DIMP-Distribution Integrity	F0230665	17	O'Brien St and Eastboro Ave Min	95,481.72
22	DIMP-Distribution Integrity	F0230666	17	Old Lebanon Dirt Road Main Replacement	82,599.40
23	DIMP-Distribution Integrity	F0230667	17	Pennington Bend Station Relocation	11,772.98
24	DIMP-Distribution Integrity	F0230676	17	5285 Whites Creek Pike Exposure	326,398.34
25	DIMP-Distribution Integrity	F0230684	17	Bordeaux Bridge Expainson Joint	149,419.96
26	DIMP-Distribution Integrity	F0231383	17	28th Ave N	335,965.03
27	DIMP-Distribution Integrity	FP1733460	17	Queens Street	(1,955.69)
28	DIMP-Distribution Integrity	FP1733501	17	Murfreesboro Pk 3" Replacement	(3,446.39)
29	DIMP-Distribution Integrity	FP1733503	17	Broadmoor Dr	(1,531.56)
30	DIMP-Distribution Integrity	FP1733760	17	Main St @ No 1st St	(6,990.79)
31	DIMP-Distribution Integrity	FP1733761	17	Kline Ave.	(5,297.77)
32	DIMP-Distribution Integrity	FP1733939	17	500 Lawrence St to Tenth St	(17,187.03)
33	DIMP-Distribution Integrity	FP1734137	17	Overton St	(8,536.73)
34	DIMP-Distribution Integrity	FP1734239	17	47th Ave North	(4,854.37)
35	DIMP-Distribution Integrity	FP1734412	17	Vine Ridge Drive	(60,123.21)
36	DIMP-Distribution Integrity	FP1734428	17	Broadmoor Drive	23,110.56
37	DIMP-Distribution Integrity	FP1734592	17	Elm Hill Pk Ext	(3,121.73)
38	DIMP-Distribution Integrity	FP1734695	17	Spence Lane	1,442,189.84
39	DIMP-Distribution Integrity	FP1734726	17	Cowan St HP Distribution Pipeline	126,339.97
40	DIMP-Distribution Integrity	FP1734770	17	Ash Street and 2nd Ave S	(1,409.46)
41	DIMP-Distribution Integrity	FP1734799	17	Nashville Bridge Attachments	(1,730.17)
42	DIMP-Distribution Integrity	FP1734807	17	Wingo Regulator Station Removal	(790.48)
43	DIMP-Distribution Integrity	FP1734819	17	Shelby Railroad Tressell Retirement	(9,326.87)
44	TIMP-Transmission Integrity	F0230575	17	Line 384 - Valve Automation	2,000.55
45	TIMP-Transmission Integrity	F0230600	17	Line 301-Valve Automation	908.02
46	TIMP-Transmission Integrity	F0231370	17	Line 320 ILI Retrofit	983.92
47	TIMP-Transmission Integrity	FP1733461	17	Nashville ILI Retrofit Holtsho	(23,810.46)
48	TIMP-Transmission Integrity	FP1733462	17	Nashville ILI Retrofit- Holtsh	(2,571.16)
49	TIMP-Transmission Integrity	FP1734120	17	Line 431 Replacement	21,139.40
50	TIMP-Transmission Integrity	FP1734142	17	Line 308 Replacement	137,754.66
51	TIMP-Transmission Integrity	FP1734394	17	Line 431 Ph II Land	1,976,360.72

52 **Total (unallocated)**

\$ 6,001,604.88

subtotal: TN Direct (unallocated)

\$ 6,001,604.88

subtotal: CO-3 (unallocated)

\$ -

\$ 6,001,604.88

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 20-_____

IMR Monthly Report for October 2020
Schedule 3

Schedule Detailing the Integrity Management Deferred Account Adjustment Recorded for the Month
Calculation of the IM Deferred Account Balance
Amount Due From (To) Customers per GL Account No. 0253139

<u>Line No.</u>			<u>Oct-20</u>
1	Beginning Balance	<i>Prior Month's IMR Report</i>	\$ (7,399,579.48)
2	IMR Revenue Recognition	<i>Prior Annual IMR Report</i>	1,348,107.52
3	(Collections from IM Adjustment)	<i>see Separate Schedule</i>	(831,067.08)
4	Ending Balance Before Interest	<i>sum Lines 1 thru 3</i>	(6,882,539.04)
5	Average Balance	<i>(Line 1 + Line 4) / 2</i>	(7,141,059.26)
6	Accrued Interest	<i>Line 5 * Line 9</i>	(19,337.99)
7	Ending Balance After Interest	<i>Line 4 + Line 6</i>	\$ (6,901,877.03)
8	Applicable Annual Interest Rate	<i>same as for ACA</i>	0.032500
9	Monthly Interest Rate	<i>Line 8 / 12</i>	0.002708
10	Actual GL #0253139 EOM Balance	<i>per GL</i>	\$ (6,901,877.03)
11	Variance	<i>Line 7 - Line 10</i>	\$ -

Journal Entry: To Record Revenue

47136 0253139 GA489 PTOPTOP	1,348,107.52
47136 0480000 GA489 PTOPTOP 0526 RESVAL	(804,065.25)
47136 0481200 GA489 PTOPTOP 0526 COMSTD	(420,609.55)
47136 0481000 GA489 PTOPTOP 0526 INDSLS	(18,185.97)
47136 0483011 GA489 PTOPTOP 0526 GASRSL	(377.47)
47136 0489000 GA489 PTOPTOP 0526 BOTHRV	(104,869.28)

Journal Entry: To Record Interest

47136 0253139 GA626 PTOPTOP	(19,337.99)
47136 0431150 GA626 PTOPTOP 0526	19,337.99

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		Oct-20		
<u>Line No.</u>		IM Adjustment (\$ per therm)	x Usage (therms)	= Collections (\$)
1	Residential (301)	0.11730	3,146,555	369,090.90
2	Small General Sales (302)	0.10247	2,009,273	205,890.20
3	Medium General Sales (352)	0.10247	768,617	78,760.18
4	Experimental Motor Vehicle Fuel (343/302/352)	0.10247	11,173	1,144.90
5	Firm Lg General Sales (303)	0.04551	427,764	19,467.54
6	Experimental Motor Vehicle Fuel (343/303)	0.04551	1,059	48.20
7	Firm Lg General Transportation (313)	0.04551	1,415,108	64,401.56
8	Experimental Motor Vehicle Fuel (343/313)	0.04551	115,849	5,272.29
9	Firm Resale (310)	0.04551	1,987	90.43
10	Interruptible Lg General Sales (304)	0.01138	32,062	364.86
11	Interruptible Lg General Transportation (314)	0.01138	7,604,220	86,536.02
12	Total			\$ 831,067.08

Journal Entry: To Record Collections

47136 0480000 GA489 PTO5 0526 RESVAL	369,090.90
47136 0481200 GA489 PTO5 0526 COMSTD	205,890.20
47136 0481200 GA489 PTO5 0526 COMSTD	79,905.08
47136 0481000 GA489 PTO5 0526 INDSLS	19,515.74
47136 0489000 GA489 PTO5 0526 BOTHRV	69,673.85
47136 0483011 GA489 PTO5 0526 GASRSL	90.43
47136 0481000 GA489 PTO5 0526 INDSLS	364.86
47136 0489000 GA489 PTO5 0526 BOTHRV	86,536.02
47136 0253139 GA489 PTO5	(831,067.08)

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TPUC Docket No. 20-_____
Integrity Management Rider
Proposed Billing Rates for January 2021

PIEDMONT NATURAL GAS COMPANY, INC.
Tennessee Service Territory
Billing Rates Effective: January 1, 2021

Rate Schedule	Description	Tariff Rate Approved In Docket Nos. 11-00144 18-00040 <1>	-----Cumulative PGA-----		-----Current ACA-----		Current IPA	Current IM Adjustment	Temporary Decrements Approved in Docket No.18-00040		Total Adj. Factor (Sum Col.2 thru Col.8)	Proposed Billing Rate (Col.1+Col.9)
			Demand	Commodity	Demand	Commodity			Deferred Base	Unprotected		
									Revenue Refund	Excess ADIT Refund		
			<2>	<3>	<4a>	<4b>	<5>	<6>	<7>	<8>	<9>	<10>
Residential 301 301	Monthly Charge-Nov.-Mar.	\$17.45										\$17.45
	Monthly Charge-Apr.-Oct.	\$13.45										\$13.45
	Nov.- Mar. per TH	0.29009	0.07577	0.19717	(0.01181)	(0.01044)	0.00830	(0.03699)	(0.01958)	(0.04211)	0.16031	0.45040
	Apr.- Oct. per TH	0.24009	0.07577	0.19717	(0.01181)	(0.01044)	0.00830	(0.03699)	(0.01958)	(0.04211)	0.16031	0.40040
Small General 302 302	Monthly Charge	\$44.00										\$44.00
	Nov.- Mar. per TH	0.32787	0.07577	0.19717	(0.01181)	(0.01044)	0.00830	(0.03231)	(0.01710)	(0.03678)	0.17280	0.50067
	Apr.- Oct. per TH	0.27387	0.07577	0.19717	(0.01181)	(0.01044)	0.00830	(0.03231)	(0.01710)	(0.03678)	0.17280	0.44667
Medium General 352 352	Monthly Charge	\$225.00										\$225.00
	Nov.- Mar. per TH	0.32787	0.07577	0.19717	(0.01181)	(0.01044)	0.00830	(0.03231)	(0.01710)	(0.03678)	0.17280	0.50067
	Apr.- Oct. per TH	0.27387	0.07577	0.19717	(0.01181)	(0.01044)	0.00830	(0.03231)	(0.01710)	(0.03678)	0.17280	0.44667
Experimental Motor Vehicle Fuel 343 343	Monthly Charge	varies by customer per their corresponding rate schedule										
	Nov.- Mar. per TH	varies by customer per their corresponding rate schedule										
	Apr.- Oct. per TH	varies by customer per their corresponding rate schedule										
303 Firm General Sales	Monthly Charge	\$800.00										\$800.00
	Demand Charge per TH	0.80000	0.82829		(0.18957)						0.63872	1.43872
	First 15,000 TH/TH	0.09195		0.19717		(0.01044)	0.00830	(0.01435)	(0.00319)	(0.00685)	0.17064	0.26259
	Next 25,000 TH/TH	0.08466		0.19717		(0.01044)	0.00830	(0.01435)	(0.00319)	(0.00685)	0.17064	0.25530
	Next 50,000 TH/TH	0.05963		0.19717		(0.01044)	0.00830	(0.01435)	(0.00319)	(0.00685)	0.17064	0.23027
	Over 90,000 TH/TH	0.02277		0.19717		(0.01044)	0.00830	(0.01435)	(0.00319)	(0.00685)	0.17064	0.19341
304 Interruptible General Sales	Monthly Charge	\$800.00										\$800.00
	First 15,000 TH/TH	0.09195		0.19717		(0.01044)	0.00830	(0.00359)	(0.00319)	(0.00685)	0.18140	0.27335
	Next 25,000 TH/TH	0.08466		0.19717		(0.01044)	0.00830	(0.00359)	(0.00319)	(0.00685)	0.18140	0.26606
	Next 50,000 TH/TH	0.05963		0.19717		(0.01044)	0.00830	(0.00359)	(0.00319)	(0.00685)	0.18140	0.24103
	Over 90,000 TH/TH	0.02277		0.19717		(0.01044)	0.00830	(0.00359)	(0.00319)	(0.00685)	0.18140	0.20417
313 Firm Transportation	Monthly Charge	\$800.00										\$800.00
	Demand Charge per TH	0.80000	0.82829		(0.18957)						0.63872	1.43872
	First 15,000 TH/TH	0.09195						(0.01435)	(0.00319)	(0.00685)	(0.02439)	0.06756
	Next 25,000 TH/TH	0.08466						(0.01435)	(0.00319)	(0.00685)	(0.02439)	0.06027
	Next 50,000 TH/TH	0.05963						(0.01435)	(0.00319)	(0.00685)	(0.02439)	0.03524
	Over 90,000 TH/TH	0.02277						(0.01435)	(0.00319)	(0.00685)	(0.02439)	-0.00162
314 Interruptible Transportation	Monthly Charge	\$800.00										\$800.00
	First 15,000 TH/TH	0.09195						(0.00359)	(0.00319)	(0.00685)	(0.01363)	0.07832
	Next 25,000 TH/TH	0.08466						(0.00359)	(0.00319)	(0.00685)	(0.01363)	0.07103
	Next 50,000 TH/TH	0.05963						(0.00359)	(0.00319)	(0.00685)	(0.01363)	0.04600
	Over 90,000 TH/TH	0.02277						(0.00359)	(0.00319)	(0.00685)	(0.01363)	0.00914
310 Resale Service	Demand Charge per TH	0.80000	0.82829		(0.18957)						0.63872	1.43872
	Commodity Charge	0.07518		0.19717		(0.01044)	0.00830	(0.01435)	(0.00970)	(0.02086)	0.15012	0.22530

NOTES:

In accordance with the Tennessee Public Service Commission order in Docket U-7074 customers metered inside Davidson County are required to pay an additional 6.25% for collection of the Metro Franchise Fee. Customers served by the Ashland City, Fairview, Franklin, Greenbrier, Hartsville, Mt. Juliet and White House systems are required to pay 5.0%. Customers served by the Nolensville system are required to pay 3%.

TPUC Docket No. 20-_____
Integrity Management Rider
2020 Annual Report

Schedule of Journal Entries Related to the Integrity Management Rider for the Previous Twelve Months (November 2019 thru October 2020)

General Ledger Support: Integrity Management Deferred Account Adjustment

Calculation of the IM Deferred Account Balance By Month

Amount Due From (To) Customers per GL Account No. 0253139

Line No.			Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20
1	Beginning Balance	<i>Prior Month's IMR Report</i>	\$ (6,248,078.36)	\$ (6,668,403.25)	\$ (7,457,425.22)	\$ (7,233,932.91)	\$ (7,594,055.75)	\$ (8,230,956.56)	\$ (8,219,821.07)	\$ (8,453,028.63)	\$ (8,276,460.35)	\$ (7,996,939.23)	\$ (7,672,495.76)	\$ (7,399,579.48)
2	IMR Revenue Recognition	<i>Prior Annual IMR Report</i>	2,247,984.34	3,578,764.04	4,845,385.36	4,610,910.03	3,481,575.78	2,249,852.96	1,424,440.83	1,008,663.86	939,159.33	946,501.26	947,492.58	1,348,107.52
3	(Collections from IM Adjustment)	<i>see Separate Schedule</i>	(2,639,203.09)	(4,335,954.72)	(4,591,595.97)	(4,940,454.02)	(4,085,841.64)	(2,206,225.68)	(1,624,717.99)	(799,053.31)	(636,416.71)	(599,698.12)	(653,069.04)	(831,067.08)
4	Ending Balance Before Interest	<i>sum Lines 1 thru 3</i>	(6,639,297.11)	(7,425,593.93)	(7,203,635.83)	(7,563,476.90)	(8,198,321.61)	(8,187,329.28)	(8,420,098.23)	(8,243,418.08)	(7,973,717.73)	(7,650,136.09)	(7,378,072.22)	(6,882,539.04)
5	Average Balance	<i>(Line 1 + Line 4) /2</i>	(6,443,687.74)	(7,046,998.59)	(7,330,530.53)	(7,398,704.91)	(7,896,188.68)	(8,209,142.92)	(8,319,959.65)	(8,348,223.36)	(8,125,089.04)	(7,823,537.66)	(7,525,283.99)	(7,141,059.26)
6	Accrued Interest	<i>Line 5 * Line 9</i>	(29,106.14)	(31,831.29)	(30,297.08)	(30,578.85)	(32,634.95)	(32,491.79)	(32,930.40)	(33,042.27)	(23,221.50)	(22,359.67)	(21,507.26)	(19,337.99)
7	Ending Balance After Interest	<i>Line 4 + Line 6</i>	\$ (6,668,403.25)	\$ (7,457,425.22)	\$ (7,233,932.91)	\$ (7,594,055.75)	\$ (8,230,956.56)	\$ (8,219,821.07)	\$ (8,453,028.63)	\$ (8,276,460.35)	\$ (7,996,939.23)	\$ (7,672,495.76)	\$ (7,399,579.48)	\$ (6,901,877.03)
8	Applicable Annual Interest Rate	<i>same as for ACA</i>	0.054200	0.054200	0.049600	0.049600	0.049600	0.047500	0.047500	0.047500	0.034300	0.034300	0.034300	0.032500
9	Monthly Interest Rate	<i>Line 8 / 12</i>	0.004517	0.004517	0.004133	0.004133	0.004133	0.003958	0.003958	0.003958	0.002858	0.002858	0.002858	0.002708
10	Actual GL #0253139 EOM Balance	<i>per GL</i>	\$ (6,668,403.25)	\$ (7,457,425.22)	\$ (7,623,560.19)	\$ (8,356,066.00)	\$ (9,276,076.78)	\$ (9,449,977.33)	\$ (8,453,028.63)	\$ (8,276,460.35)	\$ (7,996,939.23)	\$ (7,672,495.76)	\$ (7,399,579.48)	\$ (6,901,877.03)
11	Variance	<i>Line 7 - Line 10</i>	\$ -	\$ -	\$ 389,627.28	\$ 762,010.25	\$ 1,045,120.22	\$ 1,230,156.26	\$ -	\$ -	\$ -	\$ -	\$ -	\$ - 2/
Journal Entry: To Record Revenue														
47136 0253139 GA489 PTOF			2,247,984.34	3,578,764.04	4,456,561.59	4,240,902.01	3,202,192.54	2,069,310.80	1,424,440.83	1,008,663.86	939,159.33	946,501.26	947,492.58	1,348,107.52
47136 0480000 GA489 PTOF 0526 RESVAL			(1,340,787.78)	(2,134,518.02)	(2,658,071.60)	(2,529,443.60)	(1,909,915.72)	(1,234,219.73)	(849,593.49)	(601,607.47)	(560,152.19)	(564,531.21)	(565,122.47)	(804,065.25)
47136 0481200 GA489 PTOF 0526 COMSTD			(701,371.11)	(1,116,574.38)	(1,390,447.22)	(1,323,161.42)	(999,084.07)	(645,624.97)	(444,425.54)	(314,703.11)	(293,017.71)	(295,308.39)	(295,617.69)	(420,609.55)
47136 0481000 GA489 PTOF 0526 INDSLS			(30,325.31)	(48,277.53)	(60,119.01)	(57,209.77)	(43,197.58)	(27,915.00)	(19,215.71)	(13,606.88)	(12,669.26)	(12,768.31)	(12,781.67)	(18,185.97)
47136 0483011 GA489 PTOF 0526 GASRSL			(629.44)	(1,002.05)	(1,247.84)	(1,187.45)	(896.61)	(579.41)	(398.84)	(282.43)	(262.96)	(265.02)	(265.30)	(377.47)
47136 0489000 GA489 PTOF 0526 BOTHRV			(174,870.70)	(278,392.06)	(346,675.92)	(329,899.77)	(249,098.56)	(160,971.69)	(110,807.25)	(78,463.97)	(73,057.21)	(73,628.33)	(73,705.45)	(104,869.28)
Journal Entry: To Record Interest														
47136 0253139 GA626 PTOF			(29,106.14)	(31,831.29)	(31,100.59)	(32,953.80)	(36,361.68)	(36,985.67)	(32,930.40)	(33,042.27)	(23,221.50)	(22,359.67)	(21,507.26)	(19,337.99)
47136 0431150 GA626 PTOF 0526			29,106.14	31,831.29	31,100.59	32,953.80	36,361.68	36,985.67	32,930.40	33,042.27	23,221.50	22,359.67	21,507.26	19,337.99

1/ Pursuant to the TPUC's May 11, 2020 ruling in Docket No. 19-00107, this schedule reflects beginning January 2020 the approved monthly amortization of the annual Integrity Management Revenue Requirement from Piedmont's 2019 Annual Integrity Management Rider Report, which was filed by the Company on December 11, 2019.

2/ Pursuant to the TPUC's ruling in Docket No. 19-00107, Piedmont recorded the approved IM Revenue Requirement to its general ledger for January 2020 thru April 2020. It was recorded as a true-up adjustment in May 2020.

Schedule of Journal Entries Related to the Integrity Management Rider for the Previous Twelve Months (November 2019 thru October 2020)

General Ledger Support: Integrity Management Deferred Account Adjustment

Billing Determinants & Collections from the Integrity Management Adjustment By Month

<u>Line No.</u>		October 2020		
		IM Adjustment (\$ per therm)	x Usage (therms)	= Collections (\$)
1	Residential (301)	0.11730	3,146,555	369,090.90
2	Small General Sales (302)	0.10247	2,009,273	205,890.20
3	Medium General Sales (352)	0.10247	768,617	78,760.18
4	Experimental Motor Vehicle Fuel (343/302/352)	0.10247	11,173	1,144.90
5	Firm Lg General Sales (303)	0.04551	427,764	19,467.54
6	Experimental Motor Vehicle Fuel (343/303)	0.04551	1,059	48.20
7	Firm Lg General Transportation (313)	0.04551	1,415,108	64,401.56
8	Experimental Motor Vehicle Fuel (343/313)	0.04551	115,849	5,272.29
9	Firm Resale (310)	0.04551	1,987	90.43
10	Interruptible Lg General Sales (304)	0.01138	32,062	364.86
11	Interruptible Lg General Transportation (314)	0.01138	7,604,220	86,536.02
12	Total			\$ 831,067.08

Journal Entry: To Record Collections

47136 0480000 GA489 PTO 0526 RESVAL	369,090.90
47136 0481200 GA489 PTO 0526 COMSTD	205,890.20
47136 0481200 GA489 PTO 0526 COMSTD	79,905.08
47136 0481000 GA489 PTO 0526 INDSL	19,515.74
47136 0489000 GA489 PTO 0526 BOTHRV	69,673.85
47136 0483011 GA489 PTO 0526 GASRSL	90.43
47136 0481000 GA489 PTO 0526 INDSL	364.86
47136 0489000 GA489 PTO 0526 BOTHRV	86,536.02
47136 0253139 GA489 PTO	(831,067.08)

Schedule of Journal Entries Related to the Integrity Management Rider for the Previous Twelve Months (November 2019 thru October 2020)

General Ledger Support: Integrity Management Deferred Account Adjustment

Billing Determinants & Collections from the Integrity Management Adjustment By Month

<u>Line No.</u>		September 2020			
		IM Adjustment (\$ per therm)	x	Usage (therms)	= Collections (\$)
1	Residential (301)	0.11730		2,094,775	245,717.11
2	Small General Sales (302)	0.10247		1,711,835	175,411.73
3	Medium General Sales (352)	0.10247		774,517	79,364.76
4	Experimental Motor Vehicle Fuel (343/302/352)	0.10247		23,737	2,432.33
5	Firm Lg General Sales (303)	0.04551		327,068	14,884.87
6	Experimental Motor Vehicle Fuel (343/303)	0.04551		907	41.28
7	Firm Lg General Transportation (313)	0.04551		1,158,603	52,728.02
8	Experimental Motor Vehicle Fuel (343/313)	0.04551		117,741	5,358.39
9	Firm Resale (310)	0.04551		1,199	54.57
10	Interruptible Lg General Sales (304)	0.01138		5,783	65.81
11	Interruptible Lg General Transportation (314)	0.01138		6,767,151	77,010.17
12	Total				\$ 653,069.04

Journal Entry: To Record Collections

47136 0480000 GA489 PTO5 0526 RESVAL	245,717.11
47136 0481200 GA489 PTO5 0526 COMSTD	175,411.73
47136 0481200 GA489 PTO5 0526 COMSTD	81,797.09
47136 0481000 GA489 PTO5 0526 INDSLS	14,926.15
47136 0489000 GA489 PTO5 0526 BOTHRV	58,086.41
47136 0483011 GA489 PTO5 0526 GASRSL	54.57
47136 0481000 GA489 PTO5 0526 INDSLS	65.81
47136 0489000 GA489 PTO5 0526 BOTHRV	77,010.17
47136 0253139 GA489 PTO5	(653,069.04)

Schedule of Journal Entries Related to the Integrity Management Rider for the Previous Twelve Months (November 2019 thru October 2020)

General Ledger Support: Integrity Management Deferred Account Adjustment

Billing Determinants & Collections from the Integrity Management Adjustment By Month

<u>Line No.</u>		August 2020			
		IM Adjustment (\$ per therm)	x	Usage (therms)	= Collections (\$)
1	Residential (301)	0.11730		1,995,084	234,023.35
2	Small General Sales (302)	0.10247		1,560,283	159,882.20
3	Medium General Sales (352)	0.10247		539,311	55,263.20
4	Experimental Motor Vehicle Fuel (343/302/352)	0.10247		37,921	3,885.76
5	Firm Lg General Sales (303)	0.04551		299,997	13,652.87
6	Experimental Motor Vehicle Fuel (343/303)	0.04551		596	27.12
7	Firm Lg General Transportation (313)	0.04551		1,099,951	50,058.77
8	Experimental Motor Vehicle Fuel (343/313)	0.04551		118,898	5,411.05
9	Firm Resale (310)	0.04551		1,113	50.65
10	Interruptible Lg General Sales (304)	0.01138		23,265	264.76
11	Interruptible Lg General Transportation (314)	0.01138		6,781,933	77,178.39
12	Total				\$ 599,698.12

Journal Entry: To Record Collections

47136 0480000 GA489 PTO5 0526 RESVAL	234,023.35
47136 0481200 GA489 PTO5 0526 COMSTD	159,882.20
47136 0481200 GA489 PTO5 0526 COMSTD	59,148.96
47136 0481000 GA489 PTO5 0526 INDSLS	13,679.99
47136 0489000 GA489 PTO5 0526 BOTHRV	55,469.82
47136 0483011 GA489 PTO5 0526 GASRSL	50.65
47136 0481000 GA489 PTO5 0526 INDSLS	264.76
47136 0489000 GA489 PTO5 0526 BOTHRV	77,178.39
47136 0253139 GA489 PTO5	(599,698.12)

Schedule of Journal Entries Related to the Integrity Management Rider for the Previous Twelve Months (November 2019 thru October 2020)

General Ledger Support: Integrity Management Deferred Account Adjustment

Billing Determinants & Collections from the Integrity Management Adjustment By Month

<u>Line No.</u>		July 2020			
		IM Adjustment (\$ per therm)	x	Usage (therms)	= Collections (\$)
1	Residential (301)	0.11730		2,286,854	268,247.97
2	Small General Sales (302)	0.10247		1,649,937	169,069.04
3	Medium General Sales (352)	0.10247		586,398	60,088.21
4	Experimental Motor Vehicle Fuel (343/302/352)	0.10247		4,054	415.41
5	Firm Lg General Sales (303)	0.04551		270,243	12,298.76
6	Experimental Motor Vehicle Fuel (343/303)	0.04551		916	41.69
7	Firm Lg General Transportation (313)	0.04551		990,819	45,092.19
8	Experimental Motor Vehicle Fuel (343/313)	0.04551		125,137	5,694.98
9	Firm Resale (310)	0.04551		980	44.60
10	Interruptible Lg General Sales (304)	0.01138		2,140	24.35
11	Interruptible Lg General Transportation (314)	0.01138		6,625,616	75,399.51
12	Total				\$ 636,416.71

Journal Entry: To Record Collections

47136 0480000 GA489 PTOP 0526 RESVAL	268,247.97
47136 0481200 GA489 PTOP 0526 COMSTD	169,069.04
47136 0481200 GA489 PTOP 0526 COMSTD	60,503.62
47136 0481000 GA489 PTOP 0526 INDSLS	12,340.45
47136 0489000 GA489 PTOP 0526 BOTHRV	50,787.17
47136 0483011 GA489 PTOP 0526 GASRSL	44.60
47136 0481000 GA489 PTOP 0526 INDSLS	24.35
47136 0489000 GA489 PTOP 0526 BOTHRV	75,399.51
47136 0253139 GA489 PTOP	(636,416.71)

Schedule of Journal Entries Related to the Integrity Management Rider for the Previous Twelve Months (November 2019 thru October 2020)

General Ledger Support: Integrity Management Deferred Account Adjustment

Billing Determinants & Collections from the Integrity Management Adjustment By Month

		June 2020		
		IM Adjustment	Usage	Collections
		(\$ per therm)	x (therms)	= (\$)
<u>Line No.</u>				
1	Residential (301)	0.11730	3,418,963	401,044.36
2	Small General Sales (302)	0.10247	1,757,704	180,111.93
3	Medium General Sales (352)	0.10247	725,368	74,328.46
4	Experimental Motor Vehicle Fuel (343/302/352)	0.10247	16,853	1,726.93
5	Firm Lg General Sales (303)	0.04551	277,261	12,618.15
6	Experimental Motor Vehicle Fuel (343/303)	0.04551	906	41.23
7	Firm Lg General Transportation (313)	0.04551	1,068,087	48,608.65
8	Experimental Motor Vehicle Fuel (343/313)	0.04551	124,256	5,654.89
9	Firm Resale (310)	0.04551	1,026	46.69
10	Interruptible Lg General Sales (304)	0.01138	17,855	203.19
11	Interruptible Lg General Transportation (314)	0.01138	6,561,409	74,668.83
12	Total			\$ 799,053.31

Journal Entry: To Record Collections

47136 0480000 GA489 PTO5 0526 RESVAL	401,044.36
47136 0481200 GA489 PTO5 0526 COMSTD	180,111.93
47136 0481200 GA489 PTO5 0526 COMSTD	76,055.39
47136 0481000 GA489 PTO5 0526 INDSLS	12,659.38
47136 0489000 GA489 PTO5 0526 BOTHRV	54,263.54
47136 0483011 GA489 PTO5 0526 GASRSL	46.69
47136 0481000 GA489 PTO5 0526 INDSLS	203.19
47136 0489000 GA489 PTO5 0526 BOTHRV	74,668.83
47136 0253139 GA489 PTO5	(799,053.31)

Schedule of Journal Entries Related to the Integrity Management Rider for the Previous Twelve Months (November 2019 thru October 2020)

General Ledger Support: Integrity Management Deferred Account Adjustment

Billing Determinants & Collections from the Integrity Management Adjustment By Month

Line No.		May 2020			
		IM Adjustment (\$ per therm)	x	Usage (therms)	= Collections (\$)
1	Residential (301)	0.14605		6,868,528	1,003,148.51
2	Small General Sales (302)	0.12759		2,376,269	303,188.16
3	Medium General Sales (352)	0.12759		1,014,043	129,381.75
4	Experimental Motor Vehicle Fuel (343/352)	0.12759		1,743	222.39
5	Firm Lg General Sales (303)	0.05667		338,166	19,163.86
6	Experimental Motor Vehicle Fuel (343/303)	0.05667		1,572	89.09
7	Firm Lg General Transportation (313)	0.05667		1,204,863	68,279.57
8	Experimental Motor Vehicle Fuel (343/313)	0.05667		119,620	6,778.87
9	Firm Resale (310)	0.05667		1,575	89.26
10	Interruptible Lg General Sales (304)	0.01417		14,343	203.24
11	Interruptible Lg General Transportation (314)	0.01417		6,645,962	94,173.29
12	Total				\$ 1,624,717.99

Journal Entry: To Record Collections

47136 0480000 GA489 PTO5 0526 RESVAL	1,003,148.51
47136 0481200 GA489 PTO5 0526 COMSTD	303,188.16
47136 0481200 GA489 PTO5 0526 COMSTD	129,604.14
47136 0481000 GA489 PTO5 0526 INDSLS	19,252.95
47136 0489000 GA489 PTO5 0526 BOTHRV	75,058.44
47136 0483011 GA489 PTO5 0526 GASRSL	89.26
47136 0481000 GA489 PTO5 0526 INDSLS	203.24
47136 0489000 GA489 PTO5 0526 BOTHRV	94,173.29
47136 0253139 GA489 PTO5	(1,624,717.99)

Schedule of Journal Entries Related to the Integrity Management Rider for the Previous Twelve Months (November 2019 thru October 2020)

General Ledger Support: Integrity Management Deferred Account Adjustment

Billing Determinants & Collections from the Integrity Management Adjustment By Month

<u>Line No.</u>		April 2020			
		IM Adjustment (\$ per therm)	x	Usage (therms)	= Collections (\$)
1	Residential (301)	0.14605		9,363,206	1,367,496.24
2	Small General Sales (302)	0.12759		3,484,273	444,558.39
3	Medium General Sales (352)	0.12759		1,429,260	182,359.28
4	Experimental Motor Vehicle Fuel (343/352)	0.12759		129	16.46
5	Firm Lg General Sales (303)	0.05667		407,618	23,099.71
6	Experimental Motor Vehicle Fuel (343/303)	0.05667		12,831	727.13
7	Firm Lg General Transportation (313)	0.05667		1,363,526	77,271.02
8	Experimental Motor Vehicle Fuel (343/313)	0.05667		130,758	7,410.06
9	Firm Resale (310)	0.05667		2,360	133.74
10	Interruptible Lg General Sales (304)	0.01417		15,441	218.80
11	Interruptible Lg General Transportation (314)	0.01417		7,264,280	102,934.85
12	Total				<u>\$ 2,206,225.68</u>

Journal Entry: To Record Collections

47136 0480000 GA489 PTO5 0526 RESVAL	1,367,496.24
47136 0481200 GA489 PTO5 0526 COMSTD	444,558.39
47136 0481200 GA489 PTO5 0526 COMSTD	182,375.74
47136 0481000 GA489 PTO5 0526 INDSLS	23,826.84
47136 0489000 GA489 PTO5 0526 BOTHRV	84,681.08
47136 0483011 GA489 PTO5 0526 GASRSL	133.74
47136 0481000 GA489 PTO5 0526 INDSLS	218.80
47136 0489000 GA489 PTO5 0526 BOTHRV	102,934.85
47136 0253139 GA489 PTO5	(2,206,225.68)

Schedule of Journal Entries Related to the Integrity Management Rider for the Previous Twelve Months (November 2019 thru October 2020)

General Ledger Support: Integrity Management Deferred Account Adjustment

Billing Determinants & Collections from the Integrity Management Adjustment By Month

		March 2020		
		IM Adjustment		Collections
		(\$ per therm)	x Usage (therms)	= (\$)
<u>Line No.</u>				
1	Residential (301)	0.14605	17,708,962	2,586,393.90
2	Small General Sales (302)	0.12759	7,138,739	910,831.71
3	Medium General Sales (352)	0.12759	2,609,351	332,927.09
4	Experimental Motor Vehicle Fuel (343/352)	0.12759	236	30.11
5	Firm Lg General Sales (303)	0.05667	616,894	34,959.38
6	Experimental Motor Vehicle Fuel (343/303)	0.05667	27,694	1,569.42
7	Firm Lg General Transportation (313)	0.05667	1,728,185	97,936.24
8	Experimental Motor Vehicle Fuel (343/313)	0.05667	136,338	7,726.27
9	Firm Resale (310)	0.05667	3,338	189.16
10	Interruptible Lg General Sales (304)	0.01417	19,015	269.44
11	Interruptible Lg General Transportation (314)	0.01417	7,975,224	113,008.92
12	Total			\$ 4,085,841.64

Journal Entry: To Record Collections

47136 0480000 GA489 PTOP 0526 RESVAL	2,586,393.90
47136 0481200 GA489 PTOP 0526 COMSTD	910,831.71
47136 0481200 GA489 PTOP 0526 COMSTD	332,957.20
47136 0481000 GA489 PTOP 0526 INDSLS	36,528.80
47136 0489000 GA489 PTOP 0526 BOTHRV	105,662.51
47136 0483011 GA489 PTOP 0526 GASRSL	189.16
47136 0481000 GA489 PTOP 0526 INDSLS	269.44
47136 0489000 GA489 PTOP 0526 BOTHRV	113,008.92
47136 0253139 GA489 PTOP	(4,085,841.64)

Schedule of Journal Entries Related to the Integrity Management Rider for the Previous Twelve Months (November 2019 thru October 2020)

General Ledger Support: Integrity Management Deferred Account Adjustment

Billing Determinants & Collections from the Integrity Management Adjustment By Month

Line No.		February 2020			
		IM Adjustment (\$ per therm)	x	Usage (therms)	= Collections (\$)
1	Residential (301)	0.14605		21,228,260	3,100,387.37
2	Small General Sales (302)	0.12759		8,638,174	1,102,144.62
3	Medium General Sales (352)	0.12759		3,240,669	413,476.96
4	Experimental Motor Vehicle Fuel (343/352)	0.12759		172	21.95
5	Firm Lg General Sales (303)	0.05667		1,054,742	59,772.23
6	Experimental Motor Vehicle Fuel (343/303)	0.05667		27,375	1,551.34
7	Firm Lg General Transportation (313)	0.05667		2,181,191	123,608.09
8	Experimental Motor Vehicle Fuel (343/313)	0.05667		126,824	7,187.12
9	Firm Resale (310)	0.05667		5,895	334.07
10	Interruptible Lg General Sales (304)	0.01417		29,104	412.40
11	Interruptible Lg General Transportation (314)	0.01417		9,284,253	131,557.87
12	Total				\$ 4,940,454.02

Journal Entry: To Record Collections

47136 0480000 GA489 PTOP 0526 RESVAL	3,100,387.37
47136 0481200 GA489 PTOP 0526 COMSTD	1,102,144.62
47136 0481200 GA489 PTOP 0526 COMSTD	413,498.91
47136 0481000 GA489 PTOP 0526 INDSLS	61,323.57
47136 0489000 GA489 PTOP 0526 BOTHRV	130,795.21
47136 0483011 GA489 PTOP 0526 GASRSL	334.07
47136 0481000 GA489 PTOP 0526 INDSLS	412.40
47136 0489000 GA489 PTOP 0526 BOTHRV	131,557.87
47136 0253139 GA489 PTOP	(4,940,454.02)

Schedule of Journal Entries Related to the Integrity Management Rider for the Previous Twelve Months (November 2019 thru October 2020)

General Ledger Support: Integrity Management Deferred Account Adjustment

Billing Determinants & Collections from the Integrity Management Adjustment By Month

<u>Line No.</u>		January 2020			
		IM Adjustment (\$ per therm)	x	Usage (therms)	= Collections (\$)
1	Residential (301)	0.14605		19,309,797	2,820,195.85
2	Small General Sales (302)	0.12759		8,192,387	1,045,266.66
3	Medium General Sales (352)	0.12759		3,066,638	391,272.34
4	Experimental Motor Vehicle Fuel (343/352)	0.12759		749	95.56
5	Firm Lg General Sales (303)	0.05667		1,078,655	61,127.38
6	Experimental Motor Vehicle Fuel (343/303)	0.05667		29,968	1,698.29
7	Firm Lg General Transportation (313)	0.05667		2,213,820	125,457.18
8	Experimental Motor Vehicle Fuel (343/313)	0.05667		137,809	7,809.64
9	Firm Resale (310)	0.05667		6,129	347.33
10	Interruptible Lg General Sales (304)	0.01417		28,722	406.99
11	Interruptible Lg General Transportation (314)	0.01417		9,733,151	137,918.75
12	Total				\$ 4,591,595.97

Journal Entry: To Record Collections

47136 0480000 GA489 PTO5 0526 RESVAL	2,820,195.85
47136 0481200 GA489 PTO5 0526 COMSTD	1,045,266.66
47136 0481200 GA489 PTO5 0526 COMSTD	391,367.90
47136 0481000 GA489 PTO5 0526 INDSLS	62,825.67
47136 0489000 GA489 PTO5 0526 BOTHRV	133,266.82
47136 0483011 GA489 PTO5 0526 GASRSL	347.33
47136 0481000 GA489 PTO5 0526 INDSLS	406.99
47136 0489000 GA489 PTO5 0526 BOTHRV	137,918.75
47136 0253139 GA489 PTO5	(4,591,595.97)

Schedule of Journal Entries Related to the Integrity Management Rider for the Previous Twelve Months (November 2019 thru October 2020)

General Ledger Support: Integrity Management Deferred Account Adjustment

Billing Determinants & Collections from the Integrity Management Adjustment By Month

Line No.		December 2019			
		IM Adjustment (\$ per therm)	x	Usage (therms)	= Collections (\$)
1	Residential (301)	0.14605		18,333,507	2,677,608.70
2	Small General Sales (302)	0.12759		7,591,560	968,607.14
3	Medium General Sales (352)	0.12759		2,968,945	378,807.69
4	Experimental Motor Vehicle Fuel (343/352)	0.12759		854	108.96
5	Firm Lg General Sales (303)	0.05667		967,154	54,808.62
6	Experimental Motor Vehicle Fuel (343/303)	0.05667		33,162	1,879.29
7	Firm Lg General Transportation (313)	0.05667		2,043,436	115,801.52
8	Experimental Motor Vehicle Fuel (343/313)	0.05667		131,294	7,440.43
9	Firm Resale (310)	0.05667		5,103	289.19
10	Interruptible Lg General Sales (304)	0.01417		34,024	482.12
11	Interruptible Lg General Transportation (314)	0.01417		9,182,855	130,121.06
12	Total				\$ 4,335,954.72

Journal Entry: To Record Collections

47136 0480000 GA489 PTOP 0526 RESVAL	2,677,608.70
47136 0481200 GA489 PTOP 0526 COMSTD	968,607.14
47136 0481200 GA489 PTOP 0526 COMSTD	378,916.65
47136 0481000 GA489 PTOP 0526 INDSLS	56,687.91
47136 0489000 GA489 PTOP 0526 BOTHRV	123,241.95
47136 0483011 GA489 PTOP 0526 GASRSL	289.19
47136 0481000 GA489 PTOP 0526 INDSLS	482.12
47136 0489000 GA489 PTOP 0526 BOTHRV	130,121.06
47136 0253139 GA489 PTOP	(4,335,954.72)

Schedule of Journal Entries Related to the Integrity Management Rider for the Previous Twelve Months (November 2019 thru October 2020)

General Ledger Support: Integrity Management Deferred Account Adjustment

Billing Determinants & Collections from the Integrity Management Adjustment By Month

Line No.		November 2019			
		IM Adjustment (\$ per therm)	x	Usage (therms)	= Collections (\$)
1	Residential (301)	0.14605		10,086,725	1,473,166.19
2	Small General Sales (302)	0.12759		4,731,896	603,742.61
3	Medium General Sales (352)	0.12759		1,998,425	254,979.05
4	Experimental Motor Vehicle Fuel (343/352)	0.12759		672	85.74
5	Firm Lg General Sales (303)	0.05667		969,311	54,930.85
6	Experimental Motor Vehicle Fuel (343/303)	0.05667		32,643	1,849.88
7	Firm Lg General Transportation (313)	0.05667		1,976,390	112,002.02
8	Experimental Motor Vehicle Fuel (343/313)	0.05667		135,685	7,689.27
9	Firm Resale (310)	0.05667		4,918	278.70
10	Interruptible Lg General Sales (304)	0.01417		34,525	489.22
11	Interruptible Lg General Transportation (314)	0.01417		9,173,575	129,989.56
12	Total				\$ 2,639,203.09

Journal Entry: To Record Collections

47136 0480000 GA489 PTO5 0526 RESVAL	1,473,166.19
47136 0481200 GA489 PTO5 0526 COMSTD	603,742.61
47136 0481200 GA489 PTO5 0526 COMSTD	255,064.79
47136 0481000 GA489 PTO5 0526 INDSLS	56,780.73
47136 0489000 GA489 PTO5 0526 BOTHRV	119,691.29
47136 0483011 GA489 PTO5 0526 GASRSL	278.70
47136 0481000 GA489 PTO5 0526 INDSLS	489.22
47136 0489000 GA489 PTO5 0526 BOTHRV	129,989.56
47136 0253139 GA489 PTO5	(2,639,203.09)

Computation of the Integrity Management Adjustment

Line No.	Rider Rate Period	Reference	Residential (301)	Small/Medium General (302,352)	Large General - Firm (303,313,310)	Large General - Interruptible (304,314)	Total
Jan 1 2021 - Dec 31 2021							
1	Customer Class Apportionment Percent	[Schedule 4]	59.6439%	31.2006%	4.9463%	4.2091%	100.0000%
2	IMRR for Recovery, excluding Refund Adjustment	[= Total from Schedule 5 x Line 1]	\$ -	\$ -	\$ -	\$ -	n/a
3	Deferred Account Adjustment Due From (To) Customers	Actual Deferred Account Balance at Oct 31, 2020	\$ (4,116,550)	\$ (2,153,427)	\$ (341,390)	\$ (290,510)	\$ (6,901,877)
4	Total Amount for Recovery in this Rider	[= Line 2 + Line 3]	\$ (4,116,550)	\$ (2,153,427)	\$ (341,390)	\$ (290,510)	\$ (6,901,877)
5	Throughput from Relevant Rate Case Order (Dekatherms)	[Schedule 4]	11,130,214	6,664,958	2,378,880	8,098,027	28,272,079
6	Rate per Dekatherm	[= Line 4 / Line 5]	\$ (0.36990)	\$ (0.32310)	\$ (0.14350)	\$ (0.03590)	
7	Proposed Integrity Management Rate per therm	[= Line 6 / 10]	\$ (0.03699)	\$ (0.03231)	\$ (0.01435)	\$ (0.00359)	
As previously approved from prior report:							
Jan 1 2020 - Dec 31 2020							
8	Customer Class Apportionment Percent	[Schedule 4]	59.6439%	31.2006%	4.9463%	4.2091%	100.0000%
9	IMRR for Recovery, excluding Refund Adjustment	[= Total from Schedule 5 x Line 1]	\$ 16,782,133	\$ 8,778,978	\$ 1,391,761	\$ 1,184,334	\$ 28,137,207
10	Deferred Account Adjustment Due From (To) Customers	Actual Deferred Account Balance at Oct 31, 2019	\$ (3,726,599)	\$ (1,949,438)	\$ (309,051)	\$ (262,990)	\$ (6,248,078)
11	Total Amount for Recovery in this Rider	[= Line 2 + Line 3]	\$ 13,055,535	\$ 6,829,540	\$ 1,082,710	\$ 921,344	\$ 21,889,129
12	Throughput from Relevant Rate Case Order (Dekatherms)	[Schedule 4]	11,130,214	6,664,958	2,378,880	8,098,027	28,272,079
13	Rate per Dekatherm	[= Line 4 / Line 5]	\$ 1.17300	\$ 1.02470	\$ 0.45510	\$ 0.11380	
14	Proposed Integrity Management Rate per therm	[= Line 6 / 10]	\$ 0.11730	\$ 0.10247	\$ 0.04551	\$ 0.01138	

Allocators from the Relevant Rate Case Order (Docket 11-00144)

Margin	Annual Total	Allocation %
Residential (301)	\$ 62,049,925	59.64%
Small & Medium General Service (302, 352)	32,459,219	31.20%
Large General Service - Firm (303, 313, 310)	5,145,869	4.95%
Large General Service - Interruptible (304, 314)	4,378,934	4.21%
Total	\$ 104,033,947	100.00%

Throughput (DTs)	<u>Nov</u>	<u>Dec</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Total</u>
Residential (301)	973,336	1,730,608	2,359,111	2,385,891	1,619,952	916,259	373,476	147,666	108,017	107,902	110,242	297,754	11,130,214
Small & Medium General Service (302, 352)	584,122	941,038	1,236,854	1,246,332	886,901	542,351	290,661	185,427	166,853	166,553	166,151	251,717	6,664,958
Large General Service - Firm (303, 313, 310)	215,868	357,459	373,276	272,366	238,238	161,907	152,836	108,789	110,733	112,060	121,273	154,075	2,378,880
Large General Service - Interruptible (304, 314)	682,506	880,548	899,370	728,423	753,173	640,120	614,296	571,617	558,058	564,523	554,369	651,023	8,098,027
Total	2,455,831	3,909,653	4,868,611	4,633,012	3,498,264	2,260,637	1,431,269	1,013,499	943,661	951,038	952,034	1,354,569	28,272,079
Throughput Apportionment	8.69%	13.83%	17.22%	16.39%	12.37%	8.00%	5.06%	3.58%	3.34%	3.36%	3.37%	4.79%	100.00%

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 20- _____

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Summary of IMRR Computation

Line No.	Vintage Year	Rate Period Jan 1 2020 - Dec 31 2020	Rate Period Jan 1 2021 - Dec 31 2021
1	Vintage 1	\$ 8,765,184	n/a
2	Vintage 2	4,720,636	n/a
3	Vintage 3	1,651,941	n/a
4	Vintage 4	1,843,064	n/a
5	Vintage 5	3,574,259	n/a
6	Vintage 6	3,132,515	n/a
7	Vintage 7	4,449,608	n/a
8	Vintage 8	n/a	n/a
9	Total	<u>28,137,207</u>	<u>n/a</u>
10	Total IMRR, excluding IM Deferred Account Adjustment	<u>\$ 28,137,207</u>	<u>n/a</u>

Spread of Total IMRR, excluding IM Deferred Adjustment, by Month			
11	January	\$ 4,845,385	n/a
12	February	4,610,910	n/a
13	March	3,481,576	n/a
14	April	2,249,853	n/a
15	May	1,424,441	n/a
16	June	1,008,664	n/a
17	July	939,159	n/a
18	August	946,501	n/a
19	September	947,493	n/a
20	October	1,348,108	n/a
21	November	2,444,115	n/a
22	December	<u>3,891,002</u>	<u>n/a</u>
23	Total	<u>\$ 28,137,207</u>	<u>n/a</u>

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 20-_____

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 1 - March 1, 2012 thru October 31, 2013

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8
Plant	100,306,283	100,306,283	100,306,283	100,306,283	100,306,283	100,306,283	100,306,283	n/a
Accumulated depreciation	(974,476)	(2,428,917)	(3,883,358)	(5,337,799)	(6,792,240)	(8,246,681)	(9,701,122)	n/a
Net plant	99,331,807	97,877,366	96,422,925	94,968,484	93,514,043	92,059,602	90,605,161	n/a
ADIT	(4,057,566)	(6,977,762)	(9,549,872)	(24,529,845)	(25,236,572)	(25,647,749)	(26,041,086)	n/a
NOL benefit	-	-	-	24,529,845	21,449,590	18,707,682	2,006,468	n/a
Net investment	95,274,242	90,899,604	86,873,053	94,968,484	89,727,060	85,119,535	66,570,543	n/a
Pre-tax ROR%	11.446%	11.446%	11.446%	11.446%	9.878%	9.878%	9.878%	n/a
Pre-tax rate of return	10,904,782	10,404,075	9,943,209	10,869,786	8,863,198	8,408,069	6,575,808	n/a
Depreciation expense	1,454,441	1,454,441	1,454,441	1,454,441	1,454,441	1,454,441	1,454,441	n/a
Property Tax expense	732,236	732,236	732,236	732,236	732,236	732,236	732,236	n/a
Total, excluding uncollectibles	13,091,459	12,590,752	12,129,886	13,056,463	11,049,875	10,594,746	8,762,485	n/a
Uncollectibles gross-up factor	1.000308	1.000308	1.000308	1.000308	1.000308	1.000308	1.000308	n/a
Total revenue requirement	13,095,492	12,594,631	12,133,623	13,060,485	11,053,279	10,598,010	8,765,184	n/a
<u>Assumptions and calculations:</u>								
Rider computed each year.								
Normal depreciation and AFUDC practices apply, AFUDC ends and depreciation begins when plant goes into service.								
Net of tax rate of return	6.96%	6.96%	6.96%	6.96%	7.30%	7.30%	7.30%	n/a

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
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Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 1 - March 1, 2012 thru October 31, 2013

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		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8
Plant amount	100,306,283								
Book depreciation rate	1.45%								
Property Tax Rate	0.73%								
Tax depreciation	MACRS 15 Years 1 - 3								
Tax depreciation	BONUS 50% Years 4 - 6								
Plant in service date for this Vintage	31-Oct-13								
Original Rider effective date for this Vintage	1-Jan-14								
Fiscal year end for this Vintage	31-Oct-13								
SIT rate		6.50%	6.50%	6.50%	6.50%	6.50%	6.50%	6.50%	n/a
FIT rate		35.00%	35.00%	35.00%	35.00%	21.00%	21.00%	21.00%	n/a
Composite income tax rate		39.23%	39.23%	39.23%	39.23%	26.14%	26.14%	26.14%	n/a
Uncollectibles rate		0.0308%	0.0308%	0.0308%	0.0308%	0.0308%	0.0308%	0.0308%	n/a
Revenue requirement gross-up factor		1.000308	1.000308	1.000308	1.000308	1.000308	1.000308	1.000308	n/a
<u>Capital structure assumptions (rate case):</u>									
LTD	41.42%								
STD	5.87%								
Common equity	52.71%								
<u>Capital cost rate assumptions (rate case):</u>									
LTD	6.05%								
STD	1.59%								
Common equity	10.20%								
<u>Overall and pre-tax RORs</u>									
	<u>Overall</u>	<u>Pre-tax RORs</u>							
LTD	2.506%	2.506%	2.506%	2.506%	2.506%	2.506%	2.506%	2.506%	n/a
STD	0.093%	0.093%	0.093%	0.093%	0.093%	0.093%	0.093%	0.093%	n/a
Common equity	5.376%	8.846%	8.846%	8.846%	8.846%	7.279%	7.279%	7.279%	n/a
Total	7.976%	11.446%	11.446%	11.446%	11.446%	9.878%	9.878%	9.878%	n/a

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
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Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 1 - March 1, 2012 thru October 31, 2013

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Tax depreciation schedule

	Rate	MACRS 15		BONUS 50%	
		Yearly	Cumulative	Yearly	Cumulative
Tax year 1	5.00%	5,015,314		52,660,799	
Tax year 2	9.50%	9,529,097	14,544,411	4,764,548	57,425,347
Tax year 3	8.55%	8,576,187	23,120,598	4,288,094	61,713,441
Tax year 4	7.70%	7,723,584	30,844,182	3,861,792	65,575,233
Tax year 5	6.93%	6,951,225	37,795,407	3,475,613	69,050,845
Tax year 6	6.23%	6,249,081	44,044,489	3,124,541	72,175,386
Tax year 7	5.90%	5,918,071	49,962,560	2,959,035	75,134,421
Tax year 8	5.90%	5,918,071	55,880,630	2,959,035	78,093,457
Tax year 9	5.91%	5,928,101	61,808,732	2,964,051	81,057,507
Tax year 10	5.90%	5,918,071	67,726,802	2,959,035	84,016,543
Tax year 11	5.91%	5,928,101	73,654,904	2,964,051	86,980,593
Tax year 12	5.90%	5,918,071	79,572,974	2,959,035	89,939,629
Tax year 13	5.91%	5,928,101	85,501,076	2,964,051	92,903,679
Tax year 14	5.90%	5,918,071	91,419,146	2,959,035	95,862,715
Tax year 15	5.91%	5,928,101	97,347,248	2,964,051	98,826,765
Tax year 16	2.95%	2,959,035	100,306,283	1,479,518	100,306,283
Total	100.00%	100,306,283		100,306,283	

	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>	<u>Year 7</u>	<u>Year 8</u>
Accumulated depreciation								
Portion of year in service before rider	17%							
Pre-rider amount of depreciation	247,255							
Rider year BOY amount	247,255	1,701,696	3,156,137	4,610,578	6,065,019	7,519,461	8,973,902	n/a
Depreciation expense	1,454,441	1,454,441	1,454,441	1,454,441	1,454,441	1,454,441	1,454,441	n/a
Rider year EOY amount	1,701,696	3,156,137	4,610,578	6,065,019	7,519,461	8,973,902	10,428,343	n/a
Average accumulated depreciation	974,476	2,428,917	3,883,358	5,337,799	6,792,240	8,246,681	9,701,122	n/a

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 1 - March 1, 2012 thru October 31, 2013

MACRS 15		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8
Tax depreciation reserve									
FY of completion tax depreciation	5,015,314								
Post FY tax depreciation to rider date	17%								
Tax year 2 tax depreciation	9,529,097								
Tax year 2 pre-rider tax depr	1,619,946								
Rider year BOY amount		6,635,261	16,002,363	24,433,607	32,025,890	38,857,751	45,050,561	50,968,632	n/a
Tax period A tax depreciation		7,909,150	7,118,235	6,410,575	5,769,517	5,186,738	4,911,999	4,911,999	n/a
Tax period B tax depreciation		1,457,952	1,313,009	1,181,708	1,062,344	1,006,072	1,006,072	1,007,777	n/a
Rider year EOY amount		16,002,363	24,433,607	32,025,890	38,857,751	45,050,561	50,968,632	56,888,407	n/a
Average tax depreciation reserve		11,318,812	20,217,985	28,229,749	35,441,821	41,954,156	48,009,596	53,928,520	n/a
Note - gap between fiscal year and rider year addressed by tax period A and tax period B.									
<u>Accumulated deferred taxes</u>									
Average tax depreciation reserve		11,318,812	20,217,985	28,229,749	35,441,821	41,954,156	48,009,596	53,928,520	n/a
Average book depreciation reserve		974,476	2,428,917	3,883,358	5,337,799	6,792,240	8,246,681	9,701,122	n/a
Difference		10,344,336	17,789,069	24,346,391	30,104,022	35,161,916	39,762,915	44,227,397	n/a
Tax difference balance		10,344,336	17,789,069	24,346,391	30,104,022	35,161,916	35,161,916	35,161,916	n/a
Composite tax rate w 35% FIT rate		39.23%	39.23%	39.23%	39.23%	39.23%	39.23%	39.23%	n/a
Incremental tax difference beginning Year 6		-	-	-	-	-	4,600,999	9,065,481	n/a
Composite tax rate w 21% FIT rate		0.00%	0.00%	0.00%	0.00%	0.00%	26.14%	26.14%	n/a
Average ADIT		4,057,566	6,977,762	9,549,872	11,808,303	13,792,262	14,994,733	16,161,525	n/a
Note - composite tax rate ignores excess deferred tax flowback									
BONUS 50%									
Tax depreciation reserve									
FY of completion tax depreciation	52,660,799								
Post FY tax depreciation to rider date	17%								
Tax year 2 tax depreciation	4,764,548								
Tax year 2 pre-rider tax depr	809,973								
Rider year BOY amount		53,470,772	58,154,323	62,369,945	66,166,087	69,582,017	72,678,422	75,637,457	n/a
Tax period A tax depreciation		3,954,575	3,559,118	3,205,287	2,884,759	2,593,369	2,455,999	2,455,999	n/a
Tax period B tax depreciation		728,976	656,505	590,854	531,172	503,036	503,036	503,889	n/a
Rider year EOY amount		58,154,323	62,369,945	66,166,087	69,582,017	72,678,422	75,637,457	78,597,345	n/a
Average tax depreciation reserve		55,812,547	60,262,134	64,268,016	67,874,052	71,130,220	74,157,940	77,117,401	n/a
Note - gap between fiscal year and rider year addressed by tax period A and tax period B.									
<u>Accumulated deferred taxes</u>									
Average tax depreciation reserve		55,812,547	60,262,134	64,268,016	67,874,052	71,130,220	74,157,940	77,117,401	n/a
Average book depreciation reserve		974,476	2,428,917	3,883,358	5,337,799	6,792,240	8,246,681	9,701,122	n/a
Difference		54,838,072	57,833,217	60,384,658	62,536,253	64,337,980	65,911,259	67,416,279	n/a
Tax difference balance		54,838,072	57,833,217	60,384,658	62,536,253	64,337,980	64,337,980	64,337,980	n/a
Composite tax rate w 35% FIT rate		39.23%	39.23%	39.23%	39.23%	39.23%	39.23%	39.23%	n/a
Incremental tax difference beginning Year 6		-	-	-	-	-	1,573,279	3,078,300	n/a
Composite tax rate w 21% FIT rate		0.00%	0.00%	0.00%	0.00%	0.00%	26.14%	26.14%	n/a
Average ADIT		21,510,234	22,685,080	23,685,882	24,529,845	25,236,572	25,647,749	26,041,086	n/a

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 20-_____

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 2 - November 1, 2013 thru October 31, 2014

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
Plant	53,974,676	53,974,676	53,974,676	53,974,676	53,974,676	53,974,676	n/a
Accumulated depreciation	(524,364)	(1,306,997)	(2,089,630)	(2,872,262)	(3,654,895)	(4,437,528)	n/a
Net plant	53,450,312	52,667,679	51,885,047	51,102,414	50,319,781	49,537,148	n/a
ADIT	(2,183,371)	(3,754,724)	(12,745,341)	(13,199,477)	(13,452,857)	(13,674,111)	n/a
NOL benefit			1,075,611	-	-	-	n/a
Net investment	51,266,941	48,912,955	40,215,316	37,902,937	36,866,924	35,863,037	n/a
Pre-tax ROR%	11.446%	11.446%	11.446%	9.878%	9.878%	9.878%	n/a
Pre-tax rate of return	5,867,848	5,598,419	4,602,915	3,744,035	3,641,698	3,542,534	n/a
Depreciation expense	782,633	782,633	782,633	782,633	782,633	782,633	n/a
Property Tax expense	394,015	394,015	394,015	394,015	394,015	394,015	n/a
Total, excluding uncollectibles	7,044,496	6,775,067	5,779,563	4,920,683	4,818,346	4,719,182	n/a
Uncollectibles gross-up factor	1.000308	1.000308	1.000308	1.000308	1.000308	1.000308	n/a
Total revenue requirement	7,046,667	6,777,154	5,781,344	4,922,199	4,819,830	4,720,636	n/a
<u>Assumptions and calculations:</u>							
Rider computed each year.							
Normal depreciation and AFUDC practices apply, AFUDC ends and depreciation begins when plant goes into service.							
Net of tax rate of return	6.96%	6.96%	6.96%	7.30%	7.30%	7.30%	n/a

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 2 - November 1, 2013 thru October 31, 2014

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	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>	<u>Year 7</u>
Plant amount	53,974,676						
Book depreciation rate	1.45%						
Property Tax Rate	0.73%						
Tax depreciation	MACRS 15 Years 1 - 2						
Tax depreciation	BONUS 50% Years 3 - 5						
Plant in service date for this Vintage	31-Oct-14						
Original Rider effective date for this Vintage	1-Jan-15						
Fiscal year end for this Vintage	31-Oct-14						
SIT rate	6.50%	6.50%	6.50%	6.50%	6.50%	6.50%	n/a
FIT rate	35.00%	35.00%	35.00%	21.00%	21.00%	21.00%	n/a
Composite income tax rate	39.23%	39.23%	39.23%	26.14%	26.14%	26.14%	n/a
Uncollectibles rate	0.0308%	0.0308%	0.0308%	0.0308%	0.0308%	0.0308%	n/a
Revenue requirement gross-up factor	1.000308	1.000308	1.000308	1.000308	1.000308	1.000308	n/a
<u>Capital structure assumptions (rate case):</u>							
LTD	41.42%						
STD	5.87%						
Common equity	52.71%						
<u>Capital cost rate assumptions (rate case):</u>							
LTD	6.05%						
STD	1.59%						
Common equity	10.20%						
<u>Overall and pre-tax RORs</u>							
	<u>Overall</u>	<u>Pre-tax RORs</u>					
LTD	2.506%	2.506%	2.506%	2.506%	2.506%	2.506%	n/a
STD	0.093%	0.093%	0.093%	0.093%	0.093%	0.093%	n/a
Common equity	5.376%	8.846%	8.846%	8.846%	7.279%	7.279%	n/a
Total	7.976%	11.446%	11.446%	11.446%	9.878%	9.878%	n/a

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 2 - November 1, 2013 thru October 31, 2014

Tax depreciation schedule

	Rate	MACRS 15		BONUS 50%	
		Yearly	Cumulative	Yearly	Cumulative
Tax year 1	5.00%	2,698,734		28,336,705	
Tax year 2	9.50%	5,127,594	7,826,328	2,563,797	30,900,502
Tax year 3	8.55%	4,614,835	12,441,163	2,307,417	33,207,920
Tax year 4	7.70%	4,156,050	16,597,213	2,078,025	35,285,945
Tax year 5	6.93%	3,740,445	20,337,658	1,870,223	37,156,167
Tax year 6	6.23%	3,362,622	23,700,280	1,681,311	38,837,478
Tax year 7	5.90%	3,184,506	26,884,786	1,592,253	40,429,731
Tax year 8	5.90%	3,184,506	30,069,292	1,592,253	42,021,984
Tax year 9	5.91%	3,189,903	33,259,195	1,594,952	43,616,936
Tax year 10	5.90%	3,184,506	36,443,701	1,592,253	45,209,189
Tax year 11	5.91%	3,189,903	39,633,605	1,594,952	46,804,140
Tax year 12	5.90%	3,184,506	42,818,111	1,592,253	48,396,393
Tax year 13	5.91%	3,189,903	46,008,014	1,594,952	49,991,345
Tax year 14	5.90%	3,184,506	49,192,520	1,592,253	51,583,598
Tax year 15	5.91%	3,189,903	52,382,423	1,594,952	53,178,550
Tax year 16	2.95%	1,592,253	53,974,676	796,126	53,974,676
Total	100.00%	53,974,676		53,974,676	

	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>	<u>Year 7</u>
Accumulated depreciation							
Portion of year in service before rider	17%						
Pre-rider amount of depreciation	133,048						
Rider year BOY amount	133,048	915,680	1,698,313	2,480,946	3,263,579	4,046,212	n/a
Depreciation expense	782,633	782,633	782,633	782,633	782,633	782,633	n/a
Rider year EOY amount	915,680	1,698,313	2,480,946	3,263,579	4,046,212	4,828,844	n/a
Average accumulated depreciation	524,364	1,306,997	2,089,630	2,872,262	3,654,895	4,437,528	n/a

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 2 - November 1, 2013 thru October 31, 2014

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MACRS 15		<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>	<u>Year 7</u>
<u>Tax depreciation reserve</u>								
FY of completion tax depreciation	2,698,734							
Post FY tax depreciation to rider date	17%							
Tax year 2 tax depreciation	5,127,594							
Tax year 2 pre-rider tax depr	871,691							
Rider year BOY amount		3,570,425	8,610,850	13,147,691	17,233,089	20,909,304	24,241,646	n/a
Tax period A tax depreciation		4,255,903	3,830,313	3,449,522	3,104,569	2,790,977	2,643,140	n/a
Tax period B tax depreciation		784,522	706,529	635,876	571,646	541,366	541,366	n/a
Rider year EOY amount		8,610,850	13,147,691	17,233,089	20,909,304	24,241,646	27,426,152	n/a
Average tax depreciation reserve		6,090,637	10,879,271	15,190,390	19,071,196	22,575,475	25,833,899	n/a
Note - gap between fiscal year and rider year addressed by tax period A and tax period B.								
<u>Accumulated deferred taxes</u>								
Average tax depreciation reserve		6,090,637	10,879,271	15,190,390	19,071,196	22,575,475	25,833,899	n/a
Average book depreciation reserve		524,364	1,306,997	2,089,630	2,872,262	3,654,895	4,437,528	n/a
Difference		5,566,273	9,572,274	13,100,760	16,198,934	18,920,580	21,396,371	n/a
Tax difference balance		5,566,273	9,572,274	13,100,760	16,198,934	16,198,934	16,198,934	n/a
Composite tax rate w 35% FIT rate		39.23%	39.23%	39.23%	39.23%	39.23%	39.23%	n/a
Incremental tax difference beginning Year 5		-	-	-	-	2,721,646.06	5,197,437.47	n/a
Composite tax rate w 21% FIT rate		0.00%	0.00%	0.00%	0.00%	26.14%	26.14%	n/a
Average ADIT		2,183,371	3,754,724	5,138,773	6,354,032	7,065,334	7,712,382	n/a
Note - composite tax rate ignores excess deferred tax flowback								
		-	-	-	-	-	-	-
BONUS 50%								
<u>Tax depreciation reserve</u>								
FY of completion tax depreciation	28,336,705							
Post FY tax depreciation to rider date	17%							
Tax year 2 tax depreciation	2,563,797							
Tax year 2 pre-rider tax depr	435,846							
Rider year BOY amount		28,772,551	31,292,763	33,561,184	35,603,882	37,441,990	39,108,161	n/a
Tax period A tax depreciation		2,127,952	1,915,156	1,724,761	1,552,285	1,395,488	1,321,570	n/a
Tax period B tax depreciation		392,261	353,264	317,938	285,823	270,683	270,683	n/a
Rider year EOY amount		31,292,763	33,561,184	35,603,882	37,441,990	39,108,161	40,700,414	n/a
Average tax depreciation reserve		30,032,657	32,426,973	34,582,533	36,522,936	38,275,076	39,904,288	n/a
Note - gap between fiscal year and rider year addressed by tax period A and tax period B.								
<u>Accumulated deferred taxes</u>								
Average tax depreciation reserve		30,032,657	32,426,973	34,582,533	36,522,936	38,275,076	39,904,288	n/a
Average book depreciation reserve		524,364	1,306,997	2,089,630	2,872,262	3,654,895	4,437,528	n/a
Difference		29,508,293	31,119,977	32,492,903	33,650,674	34,620,180	35,466,760	n/a
Tax difference balance		29,508,293	31,119,977	32,492,903	33,650,674	33,650,674	33,650,674	n/a
Composite tax rate w 35% FIT rate		39.23%	39.23%	39.23%	39.23%	39.23%	39.23%	n/a
Incremental tax difference beginning Year 5		-	-	-	-	969,507	1,816,086	n/a
Composite tax rate w 21% FIT rate		0.00%	0.00%	0.00%	0.00%	26.14%	26.14%	n/a
Average ADIT		11,574,628	12,206,811	12,745,341	13,199,477	13,452,857	13,674,111	n/a

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 20-_____

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 3 - November 1, 2014 thru October 31, 2015

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Plant	18,441,896	18,441,896	18,441,896	18,441,896	18,441,896	n/a
Accumulated depreciation	(179,163)	(446,571)	(713,978)	(981,386)	(1,248,793)	n/a
Net plant	18,262,733	17,995,326	17,727,918	17,460,511	17,193,103	n/a
ADIT	(746,007)	(4,170,784)	(4,354,788)	(4,458,173)	(4,544,748)	n/a
NOL benefit	-	-	-	-	-	n/a
Net investment	17,516,726	13,824,541	13,373,130	13,002,337	12,648,355	n/a
Pre-tax ROR%	11.446%	11.446%	9.878%	9.878%	9.878%	n/a
Pre-tax rate of return	2,004,908	1,582,312	1,320,992	1,284,365	1,249,399	n/a
Depreciation expense	267,407	267,407	267,407	267,407	267,407	n/a
Property Tax expense	134,626	134,626	134,626	134,626	134,626	n/a
Total, excluding uncollectibles	2,406,941	1,984,346	1,723,025	1,686,398	1,651,432	n/a
Uncollectibles gross-up factor	1.000308	1.000308	1.000308	1.000308	1.000308	n/a
Total revenue requirement	2,407,683	1,984,957	1,723,556	1,686,918	1,651,941	n/a
<u>Assumptions and calculations:</u>						
Rider computed each year.						
Normal depreciation and AFUDC practices apply, AFUDC ends and depreciation begins when plant goes into service.						
Net of tax rate of return	6.96%	6.96%	7.30%	7.30%	7.30%	n/a

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 3 - November 1, 2014 thru October 31, 2015

	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>
Plant amount	18,441,896					
Book depreciation rate	1.45%					
Property Tax Rate	0.73%					
Tax depreciation	MACRS 15 Year 1					
Tax depreciation	BONUS 50% Years 2 - 4					
Plant in service date for this Vintage	31-Oct-15					
Original Rider effective date for this Vintage	1-Jan-16					
Fiscal year end for this Vintage	31-Oct-15					
SIT rate	6.50%	6.50%	6.50%	6.50%	6.50%	n/a
FIT rate	35.00%	35.00%	21.00%	21.00%	21.00%	n/a
Composite income tax rate	39.23%	39.23%	26.14%	26.14%	26.14%	n/a
Uncollectibles rate	0.0308%	0.0308%	0.0308%	0.0308%	0.0308%	n/a
Revenue requirement gross-up factor	1.000308	1.000308	1.000308	1.000308	1.000308	n/a
<u>Capital structure assumptions (rate case):</u>						
LTD	41.42%					
STD	5.87%					
Common equity	52.71%					
<u>Capital cost rate assumptions (rate case):</u>						
LTD	6.05%					
STD	1.59%					
Common equity	10.20%					
<u>Overall and pre-tax RORs</u>						
	<u>Overall</u>	<u>Pre-tax RORs</u>				
LTD	2.506%	2.506%	2.506%	2.506%	2.506%	n/a
STD	0.093%	0.093%	0.093%	0.093%	0.093%	n/a
Common equity	5.376%	8.846%	8.846%	7.279%	7.279%	n/a
Total	7.976%	11.446%	11.446%	9.878%	9.878%	n/a

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 3 - November 1, 2014 thru October 31, 2015

Tax depreciation schedule

	Rate	MACRS 15		BONUS 50%	
		Yearly	Cumulative	Yearly	Cumulative
Tax year 1	5.00%	922,095		9,681,995	
Tax year 2	9.50%	1,751,980	2,674,075	875,990	10,557,986
Tax year 3	8.55%	1,576,782	4,250,857	788,391	11,346,377
Tax year 4	7.70%	1,420,026	5,670,883	710,013	12,056,390
Tax year 5	6.93%	1,278,023	6,948,906	639,012	12,695,401
Tax year 6	6.23%	1,148,930	8,097,837	574,465	13,269,866
Tax year 7	5.90%	1,088,072	9,185,908	544,036	13,813,902
Tax year 8	5.90%	1,088,072	10,273,980	544,036	14,357,938
Tax year 9	5.91%	1,089,916	11,363,896	544,958	14,902,896
Tax year 10	5.90%	1,088,072	12,451,968	544,036	15,446,932
Tax year 11	5.91%	1,089,916	13,541,884	544,958	15,991,890
Tax year 12	5.90%	1,088,072	14,629,956	544,036	16,535,926
Tax year 13	5.91%	1,089,916	15,719,872	544,958	17,080,884
Tax year 14	5.90%	1,088,072	16,807,944	544,036	17,624,920
Tax year 15	5.91%	1,089,916	17,897,860	544,958	18,169,878
Tax year 16	2.95%	544,036	18,441,896	272,018	18,441,896
Total	100.00%	18,441,896		18,441,896	

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Accumulated depreciation						
Portion of year in service before rider	17%					
Pre-rider amount of depreciation	45,459					
Rider year BOY amount	45,459	312,867	580,274	847,682	1,115,089	n/a
Depreciation expense	267,407	267,407	267,407	267,407	267,407	n/a
Rider year EOY amount	312,867	580,274	847,682	1,115,089	1,382,497	n/a
Average accumulated depreciation	179,163	446,571	713,978	981,386	1,248,793	n/a

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 3 - November 1, 2014 thru October 31, 2015

MACRS 15		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Tax depreciation reserve							
FY of completion tax depreciation	922,095						
Post FY tax depreciation to rider date	17%						
Tax year 2 tax depreciation	1,751,980						
Tax year 2 pre-rider tax depr	297,837						
Rider year BOY amount		1,219,931	2,942,128	4,492,261	5,888,147	7,144,225	n/a
Tax period A tax depreciation		1,454,144	1,308,729	1,178,622	1,060,759	953,612	n/a
Tax period B tax depreciation		268,053	241,404	217,264	195,318	184,972	n/a
Rider year EOY amount		2,942,128	4,492,261	5,888,147	7,144,225	8,282,809	n/a
Average tax depreciation reserve		2,081,030	3,717,195	5,190,204	6,516,186	7,713,517	n/a
Note - gap between fiscal year and rider year addressed by tax period A and tax period B.							
<u>Accumulated deferred taxes</u>							
Average tax depreciation reserve		2,081,030	3,717,195	5,190,204	6,516,186	7,713,517	n/a
Average book depreciation reserve		179,163	446,571	713,978	981,386	1,248,793	n/a
Difference		1,901,867	3,270,624	4,476,226	5,534,800	6,464,724	n/a
Tax difference balance		1,901,867	3,270,624	4,476,226	4,476,226	4,476,226	n/a
Composite tax rate w 35% FIT rate		39.23%	39.23%	39.23%	39.23%	39.23%	n/a
Incremental tax difference beginning Year 4		-	-	-	1,058,574.06	1,988,497.45	n/a
Composite tax rate w 21% FIT rate		0.00%	0.00%	0.00%	26.14%	26.14%	n/a
Average ADIT		746,007	1,282,902	1,755,800	2,032,458	2,275,494	n/a
Note - composite tax rate ignores excess deferred tax flowback							
BONUS 50%							
Tax depreciation reserve							
FY of completion tax depreciation	9,681,995						
Post FY tax depreciation to rider date	17%						
Tax year 2 tax depreciation	875,990						
Tax year 2 pre-rider tax depr	148,918						
Rider year BOY amount		9,830,914	10,692,012	11,467,079	12,165,022	12,793,060	n/a
Tax period A tax depreciation		727,072	654,365	589,311	530,380	476,806	n/a
Tax period B tax depreciation		134,026	120,702	108,632	97,659	92,486	n/a
Rider year EOY amount		10,692,012	11,467,079	12,165,022	12,793,060	13,362,352	n/a
Average tax depreciation reserve		10,261,463	11,079,545	11,816,050	12,479,041	13,077,706	n/a
Note - gap between fiscal year and rider year addressed by tax period A and tax period B.							
<u>Accumulated deferred taxes</u>							
Average tax depreciation reserve		10,261,463	11,079,545	11,816,050	12,479,041	13,077,706	n/a
Average book depreciation reserve		179,163	446,571	713,978	981,386	1,248,793	n/a
Difference		10,082,300	10,632,975	11,102,072	11,497,655	11,828,913	n/a
Tax difference balance		10,082,300	10,632,975	11,102,072	11,102,072	11,102,072	n/a
Composite tax rate w 35% FIT rate		39.23%	39.23%	39.23%	39.23%	39.23%	n/a
Incremental tax difference beginning Year 4		-	-	-	395,583.28	726,841.23	n/a
Composite tax rate w 21% FIT rate		0.00%	0.00%	0.00%	26.14%	26.14%	n/a
Average ADIT		3,954,782	4,170,784	4,354,788	4,458,173	4,544,748	n/a

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 20-_____

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 4 - November 1, 2015 thru October 31, 2016

	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>
Plant	20,076,718	20,076,718	20,076,718	20,076,718	n/a
Accumulated depreciation	(195,045)	(486,158)	(777,270)	(1,068,383)	n/a
Net plant	19,881,673	19,590,560	19,299,448	19,008,335	n/a
ADIT	(4,305,362)	(4,540,513)	(4,673,979)	(4,786,530)	n/a
NOL benefit	-	-	-	-	n/a
Net investment	15,576,310	15,050,048	14,625,469	14,221,806	n/a
Pre-tax ROR%	11.446%	9.878%	9.878%	9.878%	n/a
Pre-tax rate of return	1,782,814	1,486,637	1,444,697	1,404,823	n/a
Depreciation expense	291,112	291,112	291,112	291,112	n/a
Property Tax expense	146,560	146,560	146,560	146,560	n/a
Total, excluding uncollectibles	2,220,487	1,924,309	1,882,370	1,842,496	n/a
Uncollectibles gross-up factor	1.000308	1.000308	1.000308	1.000308	n/a
Total revenue requirement	2,221,171	1,924,902	1,882,949	1,843,064	n/a
<u>Assumptions and calculations:</u>					
Rider computed each year.					
Normal depreciation and AFUDC practices apply, AFUDC ends and depreciation begins when plant goes into service.					
Net of tax rate of return	6.96%	7.30%	7.30%	7.30%	n/a

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 4 - November 1, 2015 thru October 31, 2016

		<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>
Plant amount	20,076,718					
Book depreciation rate	1.45%					
Property Tax Rate	0.73%					
Tax depreciation	BONUS 50%					
Plant in service date for this Vintage	31-Oct-16					
Original Rider effective date for this Vintage	1-Jan-17					
Fiscal year end for this Vintage	31-Oct-16					
SIT rate		6.50%	6.50%	6.50%	6.50%	n/a
FIT rate		35.00%	21.00%	21.00%	21.00%	n/a
Composite income tax rate		39.23%	26.14%	26.14%	26.14%	n/a
Uncollectibles rate		0.0308%	0.0308%	0.0308%	0.0308%	n/a
Revenue requirement gross-up factor		1.000308	1.000308	1.000308	1.000308	n/a
<u>Capital structure assumptions (rate case):</u>						
LTD	41.42%					
STD	5.87%					
Common equity	52.71%					
<u>Capital cost rate assumptions (rate case):</u>						
LTD	6.05%					
STD	1.59%					
Common equity	10.20%					
<u>Overall and pre-tax RORs</u>						
	<u>Overall</u>	<u>Pre-tax RORs</u>				
LTD	2.506%	2.506%	2.506%	2.506%	2.506%	n/a
STD	0.093%	0.093%	0.093%	0.093%	0.093%	n/a
Common equity	5.376%	8.846%	7.279%	7.279%	7.279%	n/a
Total	7.976%	11.446%	9.878%	9.878%	9.878%	n/a

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 4 - November 1, 2015 thru October 31, 2016

MACRS 15 tax depreciation schedule

Tax year 1
 Tax year 2
 Tax year 3
 Tax year 4
 Tax year 5
 Tax year 6
 Tax year 7
 Tax year 8
 Tax year 9
 Tax year 10
 Tax year 11
 Tax year 12
 Tax year 13
 Tax year 14
 Tax year 15
 Tax year 16
 Total

Rate	MACRS 15		BONUS 50%	
	Yearly	Cumulative	Yearly	Cumulative
5.00%	1,003,836		10,540,277	
9.50%	1,907,288	2,911,124	953,644	11,493,921
8.55%	1,716,559	4,627,683	858,280	12,352,201
7.70%	1,545,907	6,173,591	772,954	13,125,154
6.93%	1,391,317	7,564,907	695,658	13,820,813
6.23%	1,250,780	8,815,687	625,390	14,446,202
5.90%	1,184,526	10,000,213	592,263	15,038,466
5.90%	1,184,526	11,184,740	592,263	15,630,729
5.91%	1,186,534	12,371,274	593,267	16,223,996
5.90%	1,184,526	13,555,800	592,263	16,816,259
5.91%	1,186,534	14,742,334	593,267	17,409,526
5.90%	1,184,526	15,926,860	592,263	18,001,789
5.91%	1,186,534	17,113,394	593,267	18,595,056
5.90%	1,184,526	18,297,921	592,263	19,187,319
5.91%	1,186,534	19,484,455	593,267	19,780,586
2.95%	592,263	20,076,718	296,132	20,076,718
100.00%	20,076,718		20,076,718	

Accumulated depreciation
 Portion of year in service before rider
 Pre-rider amount of depreciation
 Rider year BOY amount
 Depreciation expense
 Rider year EOY amount
 Average accumulated depreciation

	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>
17%					
49,489					
	49,489	340,602	631,714	922,826	n/a
	291,112	291,112	291,112	291,112	n/a
	340,602	631,714	922,826	1,213,939	n/a
	195,045	486,158	777,270	1,068,383	n/a

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 4 - November 1, 2015 thru October 31, 2016

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BONUS 50%	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>
<u>Tax depreciation reserve</u>					
FY of completion tax depreciation	10,540,277				
Post FY tax depreciation to rider date	17%				
Tax year 2 tax depreciation	953,644				
Tax year 2 pre-rider tax depr	162,119				
Rider year BOY amount	10,702,396	11,639,829	12,483,603	13,243,416	n/a
Tax period A tax depreciation	791,525	712,372	641,552	577,396	n/a
Tax period B tax depreciation	145,908	131,402	118,262	106,316	n/a
Rider year EOY amount	11,639,829	12,483,603	13,243,416	13,927,129	n/a
Average tax depreciation reserve	11,171,113	12,061,716	12,863,510	13,585,273	n/a
Note - gap between fiscal year and rider year addressed by tax period A and tax period B.					
<u>Accumulated deferred taxes</u>					
Average tax depreciation reserve	11,171,113	12,061,716	12,863,510	13,585,273	n/a
Average book depreciation reserve	195,045	486,158	777,270	1,068,383	n/a
Difference	10,976,067	11,575,558	12,086,239	12,516,890	n/a
Tax difference balance	10,976,067	11,575,558	11,575,558	11,575,558	n/a
Composite tax rate w 35% FIT rate	39.23%	39.23%	39.23%	39.23%	n/a
Incremental tax difference beginning Year 3	-	-	510,681	941,332	n/a
Composite tax rate w 21% FIT rate	0.00%	0.00%	26.14%	26.14%	n/a
Average ADIT	4,305,362	4,540,513	4,673,979	4,786,530	n/a

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
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Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 5 - November 1, 2016 thru October 31, 2017

	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>
Plant	38,244,253	38,244,253	38,244,253	n/a
Accumulated depreciation	(371,543)	(926,085)	(1,480,626)	n/a
Net plant	37,872,710	37,318,168	36,763,627	n/a
ADIT	(8,201,309)	(8,649,248)	(9,030,829)	n/a
NOL benefit	-	-	-	n/a
Net investment	29,671,401	28,668,920	27,732,798	n/a
Pre-tax ROR%	9.878%	9.878%	9.878%	n/a
Pre-tax rate of return	2,930,927	2,831,903	2,739,433	n/a
Depreciation expense	554,542	554,542	554,542	n/a
Property Tax expense	279,183	279,183	279,183	n/a
Total, excluding uncollectibles	3,764,652	3,665,628	3,573,158	n/a
Uncollectibles gross-up factor	1.000308	1.000308	1.000308	n/a
Total revenue requirement	3,765,812	3,666,757	3,574,259	n/a
<u>Assumptions and calculations:</u>				
Rider computed each year.				
Normal depreciation and AFUDC practices apply, AFUDC ends and depreciation begins when plant goes into service.				
Net of tax rate of return	7.30%	7.30%	7.30%	n/a

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 5 - November 1, 2016 thru October 31, 2017

		<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>
Plant amount	38,244,253				
Book depreciation rate	1.45%				
Property Tax Rate	0.73%				
Tax depreciation	BONUS 50%				
Plant in service date for this Vintage	31-Oct-17				
Original Rider effective date for this Vintage	1-Jan-18				
Fiscal year end for this Vintage	31-Oct-17				
SIT rate		6.50%	6.50%	6.50%	n/a
FIT rate		21.00%	21.00%	21.00%	n/a
Composite income tax rate		26.14%	26.14%	26.14%	n/a
Uncollectibles rate		0.0308%	0.0308%	0.0308%	n/a
Revenue requirement gross-up factor		1.000308	1.000308	1.000308	n/a
<u>Capital structure assumptions (rate case):</u>					
LTD	41.42%				
STD	5.87%				
Common equity	52.71%				
<u>Capital cost rate assumptions (rate case):</u>					
LTD	6.05%				
STD	1.59%				
Common equity	10.20%				
<u>Overall and pre-tax RORs</u>					
	<u>Overall</u>	<u>Pre-tax RORs</u>			
LTD	2.506%	2.506%	2.506%	2.506%	n/a
STD	0.093%	0.093%	0.093%	0.093%	n/a
Common equity	5.376%	7.279%	7.279%	7.279%	n/a
Total	7.976%	9.878%	9.878%	9.878%	n/a

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
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Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 5 - November 1, 2016 thru October 31, 2017

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MACRS 15 tax depreciation schedule

	MACRS 15		BONUS 50%	
	Yearly	Cumulative	Yearly	Cumulative
Tax year 1	5.00%	1,912,213	20,078,233	
Tax year 2	9.50%	3,633,204	1,816,602	21,894,835
Tax year 3	8.55%	3,269,884	1,634,942	23,529,777
Tax year 4	7.70%	2,944,807	1,472,404	25,002,180
Tax year 5	6.93%	2,650,327	1,325,163	26,327,344
Tax year 6	6.23%	2,382,617	1,191,308	27,518,652
Tax year 7	5.90%	2,256,411	1,128,205	28,646,858
Tax year 8	5.90%	2,256,411	1,128,205	29,775,063
Tax year 9	5.91%	2,260,235	1,130,118	30,905,181
Tax year 10	5.90%	2,256,411	1,128,205	32,033,386
Tax year 11	5.91%	2,260,235	1,130,118	33,163,504
Tax year 12	5.90%	2,256,411	1,128,205	34,291,709
Tax year 13	5.91%	2,260,235	1,130,118	35,421,827
Tax year 14	5.90%	2,256,411	1,128,205	36,550,033
Tax year 15	5.91%	2,260,235	1,130,118	37,680,150
Tax year 16	2.95%	1,128,205	564,103	38,244,253
Total	100.00%	38,244,253	38,244,253	

Accumulated depreciation
Portion of year in service before rider
Pre-rider amount of depreciation
Rider year BOY amount
Depreciation expense
Rider year EOY amount
Average accumulated depreciation

	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>
17%				
94,272				
	94,272	648,814	1,203,355	n/a
	554,542	554,542	554,542	n/a
	648,814	1,203,355	1,757,897	n/a
	371,543	926,085	1,480,626	n/a

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 5 - November 1, 2016 thru October 31, 2017

BONUS 50%		<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>
<u>Tax depreciation reserve</u>					
FY of completion tax depreciation	20,078,233				
Post FY tax depreciation to rider date	17%				
Tax year 2 tax depreciation	1,816,602				
Tax year 2 pre-rider tax depr	308,822				
Rider year BOY amount		20,387,055	22,172,775	23,780,085	n/a
Tax period A tax depreciation		1,507,780	1,357,002	1,222,095	n/a
Tax period B tax depreciation		277,940	250,309	225,278	n/a
Rider year EOY amount		22,172,775	23,780,085	25,227,458	n/a
Average tax depreciation reserve		21,279,915	22,976,430	24,503,772	n/a
Note - gap between fiscal year and rider year addressed by tax period A and tax period B.					
<u>Accumulated deferred taxes</u>					
Average tax depreciation reserve		21,279,915	22,976,430	24,503,772	n/a
Average book depreciation reserve		371,543	926,085	1,480,626	n/a
Difference		20,908,372	22,050,346	23,023,145	n/a
Tax difference balance		20,908,372	20,908,372	20,908,372	n/a
Composite tax rate w 35% FIT rate		39.23%	39.23%	39.23%	n/a
Incremental tax difference beginning Year 2		-	1,141,973.39	2,114,773.34	n/a
Composite tax rate w 21% FIT rate		0.00%	26.14%	26.14%	n/a
Average ADIT		8,201,309	8,649,248	9,030,829	n/a

Piedmont Natural Gas Company, Inc.
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Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 6 - November 1, 2017 thru October 31, 2018

	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>
Plant	27,564,238	27,564,238	n/a
Accumulated depreciation	(267,787)	(667,468)	n/a
Net plant	27,296,452	26,896,770	n/a
ADIT	(742,922)	(1,277,596)	n/a
NOL benefit	-	-	n/a
Net investment	26,553,530	25,619,174	n/a
Pre-tax ROR%	9.878%	9.878%	n/a
Pre-tax rate of return	2,622,946	2,530,650	n/a
Depreciation expense	399,681	399,681	n/a
Property Tax expense	201,219	201,219	n/a
Total, excluding uncollectibles	3,223,846	3,131,551	n/a
Uncollectibles gross-up factor	1.000308	1.000308	n/a
Total revenue requirement	3,224,839	3,132,515	n/a
<u>Assumptions and calculations:</u>			
Rider computed each year.			
Normal depreciation and AFUDC practices apply, AFUDC ends and depreciation begins when plant goes into service.			
Net of tax rate of return	7.30%	7.30%	n/a

Piedmont Natural Gas Company, Inc.
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Annual Revenue Requirement Computation
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Vintage Year 6 - November 1, 2017 thru October 31, 2018

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		<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>
Plant amount	27,564,238			
Book depreciation rate	1.45%			
Property Tax Rate	0.73%			
Tax depreciation	MACRS 15			
Plant in service date for this Vintage	31-Oct-18			
Original Rider effective date for this Vintage	1-Jan-19			
Fiscal year end for this Vintage	31-Oct-18			
SIT rate		6.50%	6.50%	n/a
FIT rate		21.00%	21.00%	n/a
Composite income tax rate		26.14%	26.14%	n/a
Uncollectibles rate		0.0308%	0.0308%	n/a
Revenue requirement gross-up factor		1.000308	1.000308	n/a
<u>Capital structure assumptions (rate case):</u>				
LTD	41.42%			
STD	5.87%			
Common equity	52.71%			
<u>Capital cost rate assumptions (rate case):</u>				
LTD	6.05%			
STD	1.59%			
Common equity	10.20%			
<u>Overall and pre-tax RORs</u>				
	<u>Overall</u>	<u>Pre-tax RORs</u>		
LTD	2.506%	2.506%	2.506%	n/a
STD	0.093%	0.093%	0.093%	n/a
Common equity	5.376%	7.279%	7.279%	n/a
Total	7.976%	9.878%	9.878%	n/a

Piedmont Natural Gas Company, Inc.
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Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 6 - November 1, 2017 thru October 31, 2018

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MACRS 15 tax depreciation schedule

Tax year 1
Tax year 2
Tax year 3
Tax year 4
Tax year 5
Tax year 6
Tax year 7
Tax year 8
Tax year 9
Tax year 10
Tax year 11
Tax year 12
Tax year 13
Tax year 14
Tax year 15
Tax year 16
Total

MACRS 15		
Rate	Yearly	Cumulative
5.00%	1,378,212	
9.50%	2,618,603	3,996,815
8.55%	2,356,742	6,353,557
7.70%	2,122,446	8,476,003
6.93%	1,910,202	10,386,205
6.23%	1,717,252	12,103,457
5.90%	1,626,290	13,729,747
5.90%	1,626,290	15,356,037
5.91%	1,629,046	16,985,084
5.90%	1,626,290	18,611,374
5.91%	1,629,046	20,240,420
5.90%	1,626,290	21,866,710
5.91%	1,629,046	23,495,757
5.90%	1,626,290	25,122,047
5.91%	1,629,046	26,751,093
2.95%	813,145	27,564,238
100.00%	27,564,238	

Accumulated depreciation
Portion of year in service before rider
Pre-rider amount of depreciation
Rider year BOY amount
Depreciation expense
Rider year EOY amount
Average accumulated depreciation

	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>
17%			
67,946			
	67,946	467,627	n/a
	399,681	399,681	n/a
	467,627	867,309	n/a
	267,787	667,468	n/a

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 6 - November 1, 2017 thru October 31, 2018

MACRS 15			
<u>Tax depreciation reserve</u>	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>
FY of completion tax depreciation	1,378,212		
Post FY tax depreciation to rider date	17%		
Tax year 2 tax depreciation	2,618,603		
Tax year 2 pre-rider tax depr	445,162		
Rider year BOY amount	1,823,374	4,397,461	n/a
Tax period A tax depreciation	2,173,440	1,956,096	n/a
Tax period B tax depreciation	400,646	360,816	n/a
Rider year EOY amount	4,397,461	6,714,373	n/a
Average tax depreciation reserve	3,110,418	5,555,917	n/a
Note - gap between fiscal year and rider year addressed by tax period A and tax period B.			
<u>Accumulated deferred taxes</u>			
Average tax depreciation reserve	3,110,418	5,555,917	n/a
Average book depreciation reserve	267,787	667,468	n/a
Difference	2,842,631	4,888,449	n/a
Composite tax rate	26.14%	26.14%	n/a
Average ADIT	742,922	1,277,596	n/a

Note - composite tax rate ignores excess deferred tax flowback

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Annual Revenue Requirement Computation

Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 7 - November 1, 2018 thru October 31, 2019

	<u>Year 1</u>	<u>Year 2</u>
Plant	38,032,924	n/a
Accumulated depreciation	(369,490)	n/a
Net plant	37,663,434	n/a
ADIT	(1,025,078)	n/a
NOL benefit	-	n/a
Net investment	36,638,356	n/a
Pre-tax ROR%	9.878%	n/a
Pre-tax rate of return	3,619,120	n/a
Depreciation expense	551,477	n/a
Property Tax expense	277,640	n/a
Total, excluding uncollectibles	4,448,238	n/a
Uncollectibles gross-up factor	1.000308	n/a
Total revenue requirement	4,449,608	n/a
<u>Assumptions and calculations:</u>		
Rider computed each year.		
Normal depreciation and AFUDC practices apply, AFUDC ends and depreciation begins when plant goes into service.		
Net of tax rate of return	7.30%	n/a

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Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 7 - November 1, 2018 thru October 31, 2019

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		<u>Year 1</u>	<u>Year 2</u>
Plant amount	38,032,924		
Book depreciation rate	1.45%		
Property Tax Rate	0.73%		
Tax depreciation	MACRS 15		
Plant in service date for this Vintage	31-Oct-19		
Original Rider effective date for this Vintage	1-Jan-20		
Fiscal year end for this Vintage	31-Oct-19		
SIT rate		6.50%	n/a
FIT rate		21.00%	n/a
Composite income tax rate		26.14%	n/a
Uncollectibles rate		0.0308%	n/a
Revenue requirement gross-up factor		1.000308	n/a
<u>Capital structure assumptions (rate case):</u>			
LTD	41.42%		
STD	5.87%		
Common equity	52.71%		
<u>Capital cost rate assumptions (rate case):</u>			
LTD	6.05%		
STD	1.59%		
Common equity	10.20%		
<u>Overall and pre-tax RORs</u>			
	<u>Overall</u>	<u>Pre-tax RORs</u>	
LTD	2.506%	2.506%	n/a
STD	0.093%	0.093%	n/a
Common equity	5.376%	7.279%	n/a
Total	7.976%	9.878%	n/a

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Annual Revenue Requirement Computation
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Vintage Year 7 - November 1, 2018 thru October 31, 2019

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MACRS 15 tax depreciation schedule

Tax year 1
 Tax year 2
 Tax year 3
 Tax year 4
 Tax year 5
 Tax year 6
 Tax year 7
 Tax year 8
 Tax year 9
 Tax year 10
 Tax year 11
 Tax year 12
 Tax year 13
 Tax year 14
 Tax year 15
 Tax year 16
 Total

MACRS 15		
Rate	Yearly	Cumulative
5.00%	1,901,646	
9.50%	3,613,128	5,514,774
8.55%	3,251,815	8,766,589
7.70%	2,928,535	11,695,124
6.93%	2,635,682	14,330,806
6.23%	2,369,451	16,700,257
5.90%	2,243,942	18,944,199
5.90%	2,243,942	21,188,142
5.91%	2,247,746	23,435,888
5.90%	2,243,942	25,679,830
5.91%	2,247,746	27,927,576
5.90%	2,243,942	30,171,518
5.91%	2,247,746	32,419,264
5.90%	2,243,942	34,663,207
5.91%	2,247,746	36,910,952
2.95%	1,121,971	38,032,924
100.00%	38,032,924	

Accumulated depreciation
 Portion of year in service before rider
 Pre-rider amount of depreciation
 Rider year BOY amount
 Depreciation expense
 Rider year EOY amount
 Average accumulated depreciation

	<u>Year 1</u>	<u>Year 2</u>
17%		
93,751		
	93,751	n/a
	551,477	n/a
	645,229	n/a
	369,490	n/a

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 7 - November 1, 2018 thru October 31, 2019

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MACRS 15		
<u>Tax depreciation reserve</u>	<u>Year 1</u>	<u>Year 2</u>
FY of completion tax depreciation	1,901,646	
Post FY tax depreciation to rider date	17%	
Tax year 2 tax depreciation	3,613,128	
Tax year 2 pre-rider tax depr	614,232	
Rider year BOY amount	2,515,878	n/a
Tax period A tax depreciation	2,998,896	n/a
Tax period B tax depreciation	552,809	n/a
Rider year EOY amount	6,067,582	n/a
Average tax depreciation reserve	4,291,730	n/a
Note - gap between fiscal year and rider year addressed by tax period A and tax period B.		
<u>Accumulated deferred taxes</u>		
Average tax depreciation reserve	4,291,730	n/a
Average book depreciation reserve	369,490	n/a
Difference	3,922,240	n/a
Composite tax rate	26.14%	n/a
Average ADIT	1,025,078	n/a

Note - composite tax rate ignores excess deferred tax flowback

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Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 8 - November 1, 2019 thru October 31, 2020

Plant
Accumulated depreciation
Net plant
ADIT
NOL benefit
Net investment
Pre-tax ROR%
Pre-tax rate of return
Depreciation expense
Property Tax expense
Total, excluding uncollectibles
Uncollectibles gross-up factor
Total revenue requirement

<u>Year 1</u>
n/a
n/a
n/a
n/a
n/a
n/a
n/a
n/a
n/a
n/a
n/a
n/a
n/a
n/a
n/a

Assumptions and calculations:

Rider computed each year.

Normal depreciation and AFUDC practices apply, AFUDC ends and depreciation begins when plant goes into service.

Net of tax rate of return

n/a

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Annual Revenue Requirement Computation
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Vintage Year 8 - November 1, 2019 thru October 31, 2020

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		<u>Year 1</u>
Plant amount	68,654,147	
Book depreciation rate	1.45%	
Property Tax Rate	0.73%	
Tax depreciation	MACRS 15	
Plant in service date for this Vintage	31-Oct-20	
Original Rider effective date for this Vintage	1-Jan-20	
Fiscal year end for this Vintage	31-Oct-20	
SIT rate		n/a
FIT rate		n/a
Composite income tax rate		n/a
Uncollectibles rate		n/a
Revenue requirement gross-up factor		n/a
<u>Capital structure assumptions (rate case):</u>		
LTD	41.42%	
STD	5.87%	
Common equity	52.71%	
<u>Capital cost rate assumptions (rate case):</u>		
LTD	6.05%	
STD	1.59%	
Common equity	10.20%	
<u>Overall and pre-tax RORs</u>		
	<u>Overall</u>	
LTD	2.506%	n/a
STD	0.093%	n/a
Common equity	5.376%	n/a
Total	7.976%	n/a

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 8 - November 1, 2019 thru October 31, 2020

MACRS 15 tax depreciation schedule

Tax year 1
Tax year 2
Tax year 3
Tax year 4
Tax year 5
Tax year 6
Tax year 7
Tax year 8
Tax year 9
Tax year 10
Tax year 11
Tax year 12
Tax year 13
Tax year 14
Tax year 15
Tax year 16
Total

MACRS 15		
Rate	Yearly	Cumulative
5.00%	3,432,707	
9.50%	6,522,144	9,954,851
8.55%	5,869,930	15,824,781
7.70%	5,286,369	21,111,150
6.93%	4,757,732	25,868,883
6.23%	4,277,153	30,146,036
5.90%	4,050,595	34,196,631
5.90%	4,050,595	38,247,225
5.91%	4,057,460	42,304,685
5.90%	4,050,595	46,355,280
5.91%	4,057,460	50,412,740
5.90%	4,050,595	54,463,335
5.91%	4,057,460	58,520,795
5.90%	4,050,595	62,571,390
5.91%	4,057,460	66,628,850
2.95%	2,025,297	68,654,147
100.00%	68,654,147	

Accumulated depreciation
Portion of year in service before rider
Pre-rider amount of depreciation
Rider year BOY amount
Depreciation expense
Rider year EOY amount
Average accumulated depreciation

Year 1
83%
826,253
n/a
n/a
n/a
n/a

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2021 - December 31, 2021

Vintage Year 8 - November 1, 2019 thru October 31, 2020

MACRS 15

Tax depreciation reserve

FY of completion tax depreciation
Post FY tax depreciation to rider date
Tax year 2 tax depreciation
Tax year 2 pre-rider tax depr
Rider year BOY amount
Tax period A tax depreciation
Tax period B tax depreciation
Rider year EOY amount
Average tax depreciation reserve

3,432,707
83%
6,522,144
5,413,380

Year 1

n/a
n/a
n/a
n/a
n/a

Note - gap between fiscal year and rider year addressed by tax period A and tax period B.

Accumulated deferred taxes

Average tax depreciation reserve
Average book depreciation reserve
Difference
Composite tax rate
Average ADIT

n/a
n/a
n/a
n/a
n/a

Note - composite tax rate ignores excess deferred tax flowback

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Schedule of Prior Period Adjustments

None

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Statement of Public Interest

Piedmont is not aware of any changes in the market conditions or other factors that affect whether this Rider is still in the public interest.

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See attached CONFIDENTIAL Duke Energy Regulated Electric & Gas Capitalization Guidelines dated 1/1/2020.

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Pipeline Safety Metrics - Tennessee Service Territory

Response Time to Emergency Calls on Natural Gas Leaks / Odor

Average emergency response time for the period 11/1/2019 thru 10/31/2020 = 32.45 minutes

Age of Natural Gas Leaks

Average age of leaks for the period 11/1/2019 thru 10/31/2020 = 102.56 days

Number of Natural Gas Leaks by Grade

Number of leaks for the period 11/1/2019 thru 10/31/2020 by PHMSA category: Grade 1 = 368; Grade 2 = 349; Grade 3 = 2,942

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Projected Integrity Management Rider Investment by Category

Capital Project Cost Information as reported to the Tennessee Public Utility Commission, Utilities Division Director by letter dated March 30, 2020

IMR Project Categories	Projected FY2020
Transmission Integrity	\$ 53,296,431
Distribution Integrity	21,896,259
Casing and Remediation	2,404,246
Corrosion Control	948,369
Total	\$ 78,545,305

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Projected Integrity Management Rider Investment by Project

Capital Project Cost Information as reported to the Tennessee Public Utility Commission, Utilities Division Director by letter dated March 30, 2020

Project Category	Funding Project Number	Project Name	FY2020	Description	Driver of Work/Necessity	Location (Area of Nashville)
Individual Capital Projects Over \$100,000						
Transmission Integrity	FP1734394	Line 431 Ph II & Rcls Dist Line 310	\$ 47,057,920	Installation of a new 20" transmission pipeline (Line 431 Phase II) and 12" transmission lateral pipeline (Line 469) to functionally replace Line 310. Line 310 will be reclassified from transmission to distribution operation after Line 431 Phase II is placed in-service.	Integrity Management Identified Risk	Downtown
Distribution Integrity	FP1734695	Spence Lane Main Replacement	7,252,217	Install 500'-6" 125 psig MAOP steel from Lebanon Rd to 12" and 4,500'-12" 125 psig MAOP steel along Spence Lane, from 12" Shelby S main to I-40. Tie in to new 12" main installed as part of the Shelby South Project. Retire casing at rail road crossing.	Integrity Management Identified Risk	Downtown
Transmission Integrity	FP1734142	Line 469 Replacement	4,676,533	Install approximately 4.0 miles of 12" steel pipeline (design pressure: 1000 psig) from the tie-in at Line 310 to Lyndale Station to replace existing Line 308. Install launcher at Tucker Rd Junction and receiver at Lyndale Station. Convert existing line 308 to distribution main.	Integrity Management Identified Risk	Bordeaux and North Nashville
Distribution Integrity	FP1734726	Cowan St HP Distribution Pipeline	2,422,756	Installation of approximately 2,200 feet 16" pipeline along Cowan St north of the Jefferson St intersection due to the proposed new major development River North, which impacted the routing of the future DIMP replacement of 12", 175# Distribution Main. This will be the first phase of the development.	Integrity Management Identified Risk	Downtown
Casing & Remediation	F0231471	44th Ave N @ I-40	2,260,211	Install 1,000' of 2" plastic pipe and install 800' of 8" high pressure distribution steel.	Integrity Management Identified Risk	West Nashville
Distribution Integrity	F0224311	Hermitage Pressure Reduction	2,184,160	Install 6800 linear feet of 6" plastic main (75 psig MAOP) along Andrew Jackson Pkwy and Weber Rd, 2200 linear feet of 4" plastic main (75 psig MAOP) along Tulip Grove Rd and Leesa Ann Ln and 200 linear feet of 2" plastic main (75 psig MAOP) along Racoon Trail. Install 3 new regulator stations. Separate/disconnect system mains at 5 locations and retire/remove regulator stations. Reduce pressure of separated distribution main.	Integrity Management Identified Risk	Hermitage and Nashville
Distribution Integrity	F0224331	Paragon Mills Road	2,043,122	Install 4,000 linear feet of 4" steel main (125 psig MAOP /design pressure: 175 psig) along Paragon Mills Rd and 5,250 linear feet of 2" steel main (125 psig MAOP /design pressure: 175 psig) along Jonquil Drive, Verbena Drive and Fox Glove Drive.	Integrity Management Identified Risk	South Nashville
Distribution Integrity	F0230684	Bordeaux Bridge Expansion Joint	1,051,533	Separate 2" from 14" on the south side of the Bordeaux Bridge. Install new 14" isolation valve on the south side of the Bordeaux Bridge. Replace 14" expansion joint hanging under the north side of the Bordeaux Bridge.	Integrity Management Identified Risk	Bordeaux and North Nashville
Distribution Integrity	F0224337	Van Buren Main Replacement	734,330	Install 2700 linear feet of 2" plastic main (75 psig MAOP) Taylor St, 5th Ave N, and Van Buren St. Retire replaced 4" steel section. Disconnect the 14" 175 psig system from the 60 psig system at the existing valve location.	Integrity Management Identified Risk	Nashville
Distribution Integrity	F0230664	Doak Ave Main Repl	588,840	Install 1,600 feet of 2" and 2,000 feet of 4" MDPE to replace 2" and 4" poorly coated steel. Replace approximately 60 service lines.	Integrity Management Identified Risk	West Nashville
Transmission Integrity	F0231370	3 immediate ILI excavations Line320	518,196	Perform three digs ILI anomaly excavations on Line 320. Repairs in this scope are a minimum of armor plate and new coating but may require pipe replacement. 12" diameter steel transmission pipeline.	Integrity Management Identified Risk	Hendersonville
Distribution Integrity	F0229495	1st Avenue S 12" 175# Replace Ph 1	491,148	Install 500 feet of 12" 175 psig MAOP steel due to exposed main and coating degradation. Retire 500' of 12" steel	Integrity Management Identified Risk	Downtown
Distribution Integrity	F0230665	O'Brien St & Eastboro Ave	487,283	Install 3,500 feet of 4" MDPE. Retire 3,500 feet of 2" poorly coated steel. Replace approximately 38 service lines.	Integrity Management Identified Risk	West Nashville
Corrosion Control	FP1708010	Nashville Anodes	400,811	To install anodes in the Nashville Resource Center as needed based on system needs.	Integrity Management Identified Risk	Various locations

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Projected Integrity Management Rider Investment by Project

Capital Project Cost Information as reported to the Tennessee Public Utility Commission, Utilities Division Director by letter dated March 30, 2020

Project Category	Funding Project Number	Project Name	FY2020	Description	Driver of Work/Necessity	Location (Area of Nashville)
Individual Capital Projects Over \$100,000						
Distribution Integrity	F0230662	28th Ave N	381,735	Install 8,300' - 2" MDPE along 28th Ave N, 26th Ave N, Merry St, 25th Ave N, Booker St, Batavia St, and Herman St. Retire 8300 2" 25#MAOP steel.	Integrity Management Identified Risk	Downtown
Transmission Integrity	FP1733398	South Nashville 20"	375,822	Run 17 miles of 20" high pressure steel	Integrity Management Identified Risk	South Nashville
Distribution Integrity	F0226414	Line 304 Convert Distribution	364,826	Reduce maximum operating pressure in Line 304 to 75 psig. Line 304 will no longer be a transmission line. Line 304 will become a 75 psig distribution line.	Integrity Management Identified Risk	Downtown
Distribution Integrity	F0224357	Patton Ave	360,707	Install 700' linear feet of 4" plastic main (75 psig MAOP) and install 2000' linear feet of 2" plastic main (75 psig MAOP) along various streets in West Nashville. Retire replaced 2" and 4 steel piping.	Integrity Management Identified Risk	West Nashville
Distribution Integrity	F0231383	Old Hickory Blvd valve replacement	360,060	Replace an existing leaking 10" valve and relocate east of current location.	Integrity Management Identified Risk	South Nashville
Distribution Integrity	F0230676	5285 Whites Creek Pike	331,536	10 inch distribution main steel. Replace 150 ft of 10 inch steel.	Integrity Management Identified Risk	Bordeaux and North Nashville
Transmission Integrity	F0230575	Line 384 - Valve Automation	302,045	Retrofit existing 8 inch MLV. Line 384 currently has a MAOP of 1,008 psig. One 8" ball valve at Columbia Gulf #1 RS.	Integrity Management Identified Risk	South Nashville
Distribution Integrity	FP1734428	Broadmoor Drive	294,901	Install 3200' of 2" MDPE along Broadmoor Drive from Joyce Lane to Graycroft Ave. Retire 3 district regulator stations and 19 farm tap meters.	Integrity Management Identified Risk	East Nashville
Distribution Integrity	F0231296	Ed Temple Blvd DIMP	289,946	Install 1,600' of 2" MDPE along Ed Temple Blvd to transfer mains and customers from the high pressure distribution system to the 75# MAOP distribution system. Separate 2" from 14" on the south side of the Bordeaux Bridge.	Integrity Management Identified Risk	Downtown
Corrosion Control	F0229662	Briley Pkwy @ Cumberland River Brid	285,990	Briley Pkwy at Cumberland River (Ford Glass) bridge attachment application of new coating to the 12" 1234' section.	Integrity Management Identified Risk	West Nashville
Distribution Integrity	F0230666	Old Lebanon Dirt Rd	284,752	Install 1,000 feet of 6" 175 psig MAOP steel via horizontal directional drilling and abandon 1,000 feet of 4" 175 psig MAOP steel.	Integrity Management Identified Risk	Hermitage and Nashville
Distribution Integrity	F0224363	Maxon Ave & Deal Ave Main Repl	237,161	Install 5,400 linear feet of 2" plastic main (75 psig MAOP) along various streets south of Robertson Road in West Nashville. Retire 2" poorly coated steel piping.	Integrity Management Identified Risk	West Nashville
Distribution Integrity	F0224339	Greenbrier Main Replacement	214,920	Install 2000 linear feet of 2" plastic main (75 psig MAOP) along Main St, Broad St and College St. Retire replaced 2" steel section with leak clamps and corrosion.	Integrity Management Identified Risk	Greenbrier, TN
Distribution Integrity	F0231458	Charlotte Ave at 5th Ave N Casing	214,276	Install 300 feet of 6" MDPE along Charlotte Ave, east of 5th Ave N. Retire 300 feet of 4" steel pipe. Replace services if necessary.	Integrity Management Identified Risk	Downtown
Distribution Integrity	F0230670	Scenic Drive Main Repl	196,569	Install 1,800 feet of 2" MDPE. Retire 1,800 feet of 2" poorly coated steel. Replace approximately 15 service lines.	Integrity Management Identified Risk	South Nashville
Distribution Integrity	FP1734427	Grinstead Place	192,703	Install 2400' of 2" MDPE to replace 19 farm taps and 1 district regulator station along Grinstead Place and Joyce Lane.	Integrity Management Identified Risk	East Nashville
Distribution Integrity	F0230667	Pennington Bend Station Relo	186,751	Install 1,600 feet of 6" 300# MAOP steel along Music Valley Drive, east of Pennington Bend Road. Rebuild Pennington Bend regulator station. Retire 1,600 feet of 6" 125# MAOP steel (vintage 1965).	Integrity Management Identified Risk	Nashville
Transmission Integrity	F0230600	Line 301 - Valve Automation	178,583	Retrofit two existing valves to be automated and install two new ROVs. Line 301 and Line 203 currently have an MAOP of 735 psig. Retrofit 20" and 16" ball valves at Tennessee Gas Kinder Portland RS (4759).	Integrity Management Identified Risk	Joelton, TN
Corrosion Control	F0229704	Nashville Rectifier & Ground Bed	160,802	Nashville New Rectifier & Ground Bed Installations - install 2 new rectifier & ground beds, negative cable connections from the main to the rectifier and a power connection for each new rectifier.	Integrity Management Identified Risk	2 locations: Franklin, TN and West Nashville

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Project Category	Funding Project Number	Project Name	FY2020	Description	Driver of Work/Necessity	Location (Area of Nashville)
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Individual Capital Projects Over \$100,000

Distribution Integrity	F0230674	Walnut St Main Repl	150,448	Install 2,250' of 2" MDPE. Retire 2,000' of 2" poorly coated steel. Replace approximately 20 service lines. Replace 2" cast steel valve with a polyvalve.	Integrity Management Identified Risk	Madison, TN
Distribution Integrity	F0230671	1st Ave N & Stockyard St	134,500	Install 1,000 feet of 2" MDPE along Stockyard Street and 1st Ave N. Replace services.	Integrity Management Identified Risk	Downtown
Distribution Integrity	F0229092	39th Ave N. Main Replacement	107,187	Replace 1,700' of 4" 75# MAOP steel main, installed in 1951, with 6" MDPE along 39th Avenue N, south of John L Driver Avenue. Build new 39th and Centennial Regulator Station, replace inlet piping to regulator station and retire old station.	Integrity Management Identified Risk	West Nashville
Distribution Integrity	F0222865	Post Place Retirement and Pressure	103,603	Cut and cap 4" HPS on Sloan Road from 8". Cut and cap 4" HPS just north of Wilson ave. Retire 6,864' of 4" 1950 Era steel pipe. All services and side roads will be tied over to the existing 6" main once pressure is lowered from 390 # to 125#. Remove a cross over valve that separates pressure.	Integrity Management Identified Risk	South Nashville

Sub-total of Individual Capital Projects Over \$100,000

\$ 77,878,884

Remaining capital expenditures by category:

Distribution Integrity	234,289
Transmission Integrity	187,332
Casing & Remediation	144,036
Corrosion Control	100,766

Grand Total

\$ 78,545,305