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January 24, 2020

Via Hand Delivery and Email

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, for Approval of an Integrity Management Rider to its Approved Rate Schedules and Service Regulations
Docket No. 19-00107

Dear Mr. Taylor:

Enclosed please find an original and five (5) copies of **attachments to response number 2** which were inadvertently omitted to Piedmont discovery responses filed on January 22, 2020. We are enclosing the actual request and response to number 2 for your reference.

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 the additional copies as "filed." Then please return the stamped copy to me by way of our courier.

Our apologies for any inconvenience this may have caused.

Very truly yours,

Paul S. Davidson

Enclosures

cc: Pia Powers (Piedmont)
Bruce Barkley (Piedmont)

4830-9048-7218.1

PIEDMONT NATURAL GAS COMPANY, INC.
DOCKET NO. 19-00107
IMR Annual Report
CAD FIRST DATA REQUEST
Date Issued: January 10, 2020
Date Due: January 20, 2020

2. Refer to the "2019 TN IMR Annual Report - Revised" spreadsheet that was included with the Company's filing. Specifically, refer to the October 2019 Monthly Report section of this spreadsheet. Provide a copy of each of the Company's Monthly Reports in Excel format from November 2016 through October 2019.

Response: See attachments.

Name and title of responsible person: Pia Powers, Managing Director - Gas Rates & Regulatory

Name and title of preparer: Doug Templeton, Rates & Regulatory Strategy Analyst

Response provided by Piedmont Natural Gas on January 21, 2020.

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

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

		Current Vintage Year: Vintage Year 5			All Vintage Years
Line No.		November 2016 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of November 2016 [3]	Cumulative Capital Expenditure as of November 2016 [6]
	TN Direct				
1	Corrosion Control	$ 112,554.64	$ -	$ 112,554.64	$ 5,309,518.53
2	Casing Remediation	$ -	$ -	$ -	$ 742,803.13
3	Distribution Integrity	$ 1,375,985.54	$ -	$ 1,375,985.54	$ 30,353,719.71
4	Transmission Integrity	$ 773,317.24	$ -	$ 773,317.24	$ 171,612,476.31
5	Total	$ 2,261,857.42	$ -	$ 2,261,857.42	$ 208,018,517.68
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ 922,894.87	$ -	$ 922,894.87	$ 112,862,820.40
7	TN % of CO-3 for Current Month [4]	16.50%			
8	Total Allocated to TN	$ 152,277.65	$ -	$ 152,277.65	$ 20,095,190.16
9	Total Capital Expenditures [Line 5 + Line 8]	$ 2,414,135.07	$ -	$ 2,414,135.07	$ 228,113,707.84
10	Less: Amount Included in the Attrition Period [5]	$ -		$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 2,414,135.07**	**$ -**	**$ 2,414,135.07**	**$ 195,213,707.84**

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 and 4, whicl captures amounts through 10/31/16, is $192,799,572.77 ($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).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	November 2016
1	CORR-Corrosion Control	FP1733548	17	Nashville Distribution Remediation	56,205.02
2	CORR-Corrosion Control	FP1734186	17	Nashville New Rectifier & Ground Be	2,871.11
3	CORR-Corrosion Control	FP1734289	17	Bridge Attachments Nashville	88.25
4	CORR-Corrosion Control	FP1734481	17	Magnesium Anode Beds - Nashville	53,390.26
5	DIMP-Distribution Integrity	FP1733763	17	Harding Place	5,514.35
6	DIMP-Distribution Integrity	FP1733765	17	McGavock Pike	18,383.21
7	DIMP-Distribution Integrity	FP1733766	17	Overhill Circle	72,560.72
8	DIMP-Distribution Integrity	FP1733767	17	Fesslers LN	39.45
9	DIMP-Distribution Integrity	FP1733768	17	Raymond ST	136,669.26
10	DIMP-Distribution Integrity	FP1733931	17	Shelby Park RR Bridge Project	86,434.88
11	DIMP-Distribution Integrity	FP1733946	17	State Rte 45 Over Cumberland River	820.39
12	DIMP-Distribution Integrity	FP1733947	17	Nolensville Rd. Over RR S of I-440	108,678.61
13	DIMP-Distribution Integrity	FP1734137	17	Overton St	147.34
14	DIMP-Distribution Integrity	FP1734138	17	Electric Avenue Project	28,321.23
15	DIMP-Distribution Integrity	FP1734378	17	Overton Lea DIMP	18,627.64
16	DIMP-Distribution Integrity	FP1734431	17	Murfreesboro Road at ForestVie	1,698.92
17	DIMP-Distribution Integrity	FP1734478	17	3rd Ave North Steel Replacement	388,806.10
18	DIMP-Distribution Integrity	FP1734480	17	Emergency Nesbit Lane	509,283.44
19	TIMP-Transmission Integrity	FP1733398	17	South Nashville 20"	50,980.23
20	TIMP-Transmission Integrity	FP1733929	17	White Bridge Road @ Post Rd. r	528,013.91
21	TIMP-Transmission Integrity	FP1733950	17	County Hospital Rd Station LNG	1,246.05
22	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	152,069.78
23	TIMP-Transmission Integrity	FP1734120	17	Line 311 Replacement	41,007.27
24	ISENP-Information Serv Enterprise	FP0026658	00	Work & Asset Management (OASIS)	922,894.87
25	**Total (unallocated)**				**$ 3,184,752.29**
26	*subtotal: TN Direct (unallocated)*				*$ 2,261,857.42*
27	*subtotal: CO-3 (unallocated)*				*$ 922,894.87*
					$ 3,184,752.29

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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. 25351

Line No.			Nov-16
1	Beginning Balance	*Prior Month's IMR Report*	$ 1,443,288.57
2	IMR Revenue Recognition	*Prior Annual IMR Report*	1,851,810.38
3	(Collections from IM Adjustment)	*see Separate Schedule*	(888,136.43)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	2,406,962.52
5	Average Balance	*(Line 1 + Line 4) /2*	1,925,125.55
6	Accrued Interest	*Line 5 * Line 9*	5,615.59
7	Ending Balance After Interest	*Line 4 + Line 6*	$ 2,412,578.11
8	Applicable Annual Interest Rate	*same as for ACA*	0.035000
9	Monthly Interest Rate	*Line 8 / 12*	0.002917
10	Actual GL #25351 EOM Balance	*per GL*	$ 2,412,578.11
11	Variance	*Line 7 - Line 10*	$ -

Journal Entry: To Record Revenue	
01 01 25351 3 17 6250 489	1,851,810.38
01 01 48010 3 17 6220 489	(1,104,493.78)
01 01 48110 3 17 6220 489	(578,005.57)
01 01 48120 3 17 6220 489	(24,740.19)
01 01 48300 3 17 6220 489	(518.51)
01 01 48900 3 17 6220 489	(144,052.33)
	-

Journal Entry: To Record Interest	
01 01 25351 3 17 6250 626	5,615.59
01 01 43101 3 17 6220 626	(5,615.59)

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		November - 2016				
		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
Line No.						
1	Residential (301)	0.10144		3,986,067		404,346.64
2	Small Commerical (302)	0.08861		2,552,763		226,200.33
3	Medium Commerical (352)	0.08861		1,016,771		90,096.08
4	Firm Lg General Sales (303)	0.03936		605,235		23,822.05
5	Firm Lg General Transportation (313)	0.03936		1,680,140		66,130.31
6	Firm Resale (310)	0.03936		-		-
7	Interruptible Lg General Sales (304)	0.00984		15,597		153.47
8	Interruptible Lg General Transportation (314)	0.00984		7,864,588		77,387.55
9	**Total**					**$ 888,136.43**

Journal Entry: To Record Collections

01 01 48010 3 17 6220 489	404,346.64
01 01 48110 3 17 6220 489	226,200.33
01 01 48110 3 17 6220 489	90,096.08
01 01 48120 3 17 6220 489	23,822.05
01 01 48900 3 17 6220 489	66,130.31
01 01 48300 3 17 6220 489	-
01 01 48110 3 17 6220 489	153.47
01 01 48900 3 17 6220 489	77,387.55
01 01 25351 3 17 6250 489	(888,136.43)

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

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

		Current Vintage Year: Vintage Year 5			All Vintage Years
Line No.		December 2016 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of December 2016 [3]	Cumulative Capital Expenditure as of December 2016 [6]
	TN Direct				
1	Corrosion Control	$ 43,634.41	$ 112,554.64	$ 156,189.05	$ 5,353,152.94
2	Casing Remediation	$ -	$ -	$ -	$ 742,803.13
3	Distribution Integrity	$ 1,282,931.69	$ 1,375,985.54	$ 2,658,917.23	$ 31,636,651.40
4	Transmission Integrity	$ 399,760.51	$ 773,317.24	$ 1,173,077.75	$ 172,012,236.82
5	Total	$ 1,726,326.61	$ 2,261,857.42	$ 3,988,184.03	$ 209,744,844.29
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ 7,043,604.24	$ 922,894.87	$ 7,966,499.11	$ 119,906,424.64
7	TN % of CO-3 for Current Month [4]	16.50%			
8	Total Allocated to TN	$ 1,162,194.70	$ 152,277.65	$ 1,314,472.35	$ 21,257,384.86
9	Total Capital Expenditures [Line 5 + Line 8]	$ 2,888,521.31	$ 2,414,135.07	$ 5,302,656.38	$ 231,002,229.15
10	Less: Amount Included in the Attrition Period [5]	$ -		$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 2,888,521.31**	**$ 2,414,135.07**	**$ 5,302,656.38**	**$ 198,102,229.15**

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 and 4, which captures amounts through 10/31/16, is $192,799,572.77 ($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).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	December 2016
1	CORR-Corrosion Control	FP1734186	17	Nashville New Rectifier & Ground Be	919.83
2	CORR-Corrosion Control	FP1734289	17	Bridge Attachments Nashville	21,081.30
3	CORR-Corrosion Control	FP1734292	17	Upgrd NASH 2G to 3 G Comm Radio	354.09
4	CORR-Corrosion Control	FP1734481	17	Magnesium Anode Beds - Nashville	21,279.19
5	DIMP-Distribution Integrity	FP1733763	17	Harding Place	8,722.84
6	DIMP-Distribution Integrity	FP1733765	17	McGavock Pike	21,650.72
7	DIMP-Distribution Integrity	FP1733766	17	Overhill Circle	47,814.53
8	DIMP-Distribution Integrity	FP1733767	17	Fesslers LN	2,079.66
9	DIMP-Distribution Integrity	FP1733768	17	Raymond ST	125,268.47
10	DIMP-Distribution Integrity	FP1733885	17	2nd Ave North 14" Replacement	(13,548.12)
11	DIMP-Distribution Integrity	FP1733931	17	Shelby Park RR Bridge Project	53,292.44
12	DIMP-Distribution Integrity	FP1733947	17	Nolensville Rd. Over RR S of I-440	94,128.24
13	DIMP-Distribution Integrity	FP1734138	17	Electric Avenue Project	6,054.97
14	DIMP-Distribution Integrity	FP1734378	17	Overton Lea DIMP	2,672.30
15	DIMP-Distribution Integrity	FP1734410	17	Georgia Ave Renewal	511.84
16	DIMP-Distribution Integrity	FP1734412	17	Vine Ridge Drive	336.50
17	DIMP-Distribution Integrity	FP1734413	17	McMurray Blvd Royal Elm Circle	1,106.92
18	DIMP-Distribution Integrity	FP1734414	17	Dreamland Drive Greenbrier Tn.	269.44
19	DIMP-Distribution Integrity	FP1734415	17	Foster Ave	2,161.98
20	DIMP-Distribution Integrity	FP1734417	17	Rayon Drive Renewal	265.54
21	DIMP-Distribution Integrity	FP1734419	17	Rosedale Ave	290.57
22	DIMP-Distribution Integrity	FP1734422	17	Lynwood Blvd / Tyne Blvd _ DIM	122,153.06
23	DIMP-Distribution Integrity	FP1734431	17	Murfreesboro Road at ForestVie	9,009.57
24	DIMP-Distribution Integrity	FP1734478	17	3rd Ave North Steel Replacement	74,119.17
25	DIMP-Distribution Integrity	FP1734480	17	Emergency Nesbit Lane	724,395.47
26	DIMP-Distribution Integrity	FP1734569	17	Enviro Science DIMP Project	175.58
27	TIMP-Transmission Integrity	FP1733398	17	South Nashville 20"	1,825.51
28	TIMP-Transmission Integrity	FP1733929	17	White Bridge Road @ Post Rd. r	267,242.06
29	TIMP-Transmission Integrity	FP1733950	17	County Hospital Rd Station LNG	(102.37)
30	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	60,914.84
31	TIMP-Transmission Integrity	FP1734120	17	Line 311 Replacement	69,880.47
32	ISENP-Information Serv Enterprise	FP0026658	00	Work & Asset Management (OASIS)	7,043,604.24
33	**Total (unallocated)**				**$ 8,769,930.85**
34	*subtotal: TN Direct (unallocated)*				*$ 1,726,326.61*
35	*subtotal: CO-3 (unallocated)*				*$ 7,043,604.24*
					$ 8,769,930.85

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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. 25351

Line No.			**Dec-16**
1	Beginning Balance	*Prior Month's IMR Report*	$ 2,412,578.11
2	IMR Revenue Recognition	*Prior Annual IMR Report*	2,948,059.87
3	(Collections from IM Adjustment)	*see Separate Schedule*	(2,516,042.28)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	2,844,595.70
5	Average Balance	*(Line 1 + Line 4) /2*	2,628,586.91
6	Accrued Interest	*Line 5 * Line 9*	7,667.59
7	Ending Balance After Interest	*Line 4 + Line 6*	$ 2,852,263.29
8	Applicable Annual Interest Rate	*same as for ACA*	0.035000
9	Monthly Interest Rate	*Line 8 / 12*	0.002917
10	Actual GL #25351 EOM Balance	*per GL*	
11	Variance	*Line 7 - Line 10*	$ 2,852,263.29

Journal Entry: To Record Revenue	
01 01 25351 3 17 6250 489	2,948,059.87
01 01 48010 3 17 6220 489	(1,758,340.83)
01 01 48110 3 17 6220 489	(920,177.93)
01 01 48120 3 17 6220 489	(39,386.08)
01 01 48300 3 17 6220 489	(825.46)
01 01 48900 3 17 6220 489	(229,329.57)

Journal Entry: To Record Interest	
01 01 25351 3 17 6250 626	7,667.59
01 01 43101 3 17 6220 626	(7,667.59)

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support
Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		December - 2016				
		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
Line No.						
1	Residential (301)	0.10144		14,832,111		1,504,569.34
2	Small Commerical (302)	0.08861		6,340,099		561,796.17
3	Medium Commerical (352)	0.08861		2,471,409		218,991.55
4	Firm Lg General Sales (303)	0.03936		1,035,216		40,746.10
5	Firm Lg General Transportation (313)	0.03936		2,291,947		90,211.03
6	Firm Resale (310)	0.03936		-		-
7	Interruptible Lg General Sales (304)	0.00984		21,486		211.42
8	Interruptible Lg General Transportation (314)	0.00984		10,113,483		99,516.67
9	**Total**					**$ 2,516,042.28**

Journal Entry: To Record Collections

01 01 48010 3 17 6220 489	1,504,569.34
01 01 48110 3 17 6220 489	561,796.17
01 01 48110 3 17 6220 489	218,991.55
01 01 48120 3 17 6220 489	40,746.10
01 01 48900 3 17 6220 489	90,211.03
01 01 48300 3 17 6220 489	-
01 01 48110 3 17 6220 489	211.42
01 01 48900 3 17 6220 489	99,516.67
01 01 25351 3 17 6250 489	(2,516,042.28)

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

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

Line No.		Current Vintage Year: Vintage Year 5			All Vintage Years
		January 2017 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of January 2017 [3]	Cumulative Capital Expenditure as of January 2017 [6]
	TN Direct				
1	Corrosion Control	$ 51,543.88	$ 156,189.05	$ 207,732.93	$ 5,404,696.82
2	Casing Remediation	$ -	$ -	$ -	$ 742,803.13
3	Distribution Integrity	$ 2,159,275.58	$ 2,658,917.23	$ 4,818,192.81	$ 33,795,926.98
4	Transmission Integrity	$ 273,850.62	$ 1,173,077.75	$ 1,446,928.37	$ 172,286,087.44
5	Total	$ 2,484,670.08	$ 3,988,184.03	$ 6,472,854.11	$ 212,229,514.37
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ 826,258.18	$ 7,966,499.11	$ 8,792,757.29	$ 120,732,682.82
7	TN % of CO-3 for Current Month [4]	16.30%			
8	Total Allocated to TN	$ 134,680.08	$ 1,314,472.35	$ 1,449,152.43	$ 21,392,064.94
9	Total Capital Expenditures [Line 5 + Line 8]	$ 2,619,350.16	$ 5,302,656.38	$ 7,922,006.54	$ 233,621,579.31
10	Less: Amount Included in the Attrition Period [5]	$ -		$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 2,619,350.16**	**$ 5,302,656.38**	**$ 7,922,006.54**	**$ 200,721,579.31**

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 and 4, which captures amounts through 10/31/16, is $192,799,572.77 ($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).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	January 2017
1	CORR-Corrosion Control	FP1734186	17	Nashville New Rectifier & Ground Be	9,940.56
2	CORR-Corrosion Control	FP1734289	17	Bridge Attachments Nashville	811.64
3	CORR-Corrosion Control	FP1734292	17	Upgrd NASH 2G to 3 G Comm Radio	7,660.70
4	CORR-Corrosion Control	FP17374389	17	FY17 Rectifier Monitors (Nashville)	22,072.03
5	CORR-Corrosion Control	FP1734481	17	Magnesium Anode Beds - Nashville	11,058.95
6	DIMP-Distribution Integrity	FP1733753	17	3rd and Hart renewal-upgrade	1,063.89
7	DIMP-Distribution Integrity	FP1733763	17	Harding Place	1,176.70
8	DIMP-Distribution Integrity	FP1733764	17	Sunnyside Drive	248.05
9	DIMP-Distribution Integrity	FP1733765	17	McGavock Pike	138,317.76
10	DIMP-Distribution Integrity	FP1733766	17	Overhill Circle	11,100.94
11	DIMP-Distribution Integrity	FP1733767	17	Fesslers LN	111,089.41
12	DIMP-Distribution Integrity	FP1733768	17	Raymond ST	124,781.80
13	DIMP-Distribution Integrity	FP1733885	17	2nd Ave North 14" Replacement	16,867.01
14	DIMP-Distribution Integrity	FP1733931	17	Shelby Park RR Bridge Project	712,306.18
15	DIMP-Distribution Integrity	FP1733938	17	23rd Ave N @ Osage St	11,718.83
16	DIMP-Distribution Integrity	FP1733946	17	State Rte 45 Over Cumberland River	1,356.80
17	DIMP-Distribution Integrity	FP1733947	17	Nolensville Rd. Over RR S of I-440	135,174.22
18	DIMP-Distribution Integrity	FP1734137	17	Overton St.	239,877.91
19	DIMP-Distribution Integrity	FP1734138	17	Electric Avenue Project	39,344.63
20	DIMP-Distribution Integrity	FP1734378	17	Overton Lea DIMP	4,169.35
21	DIMP-Distribution Integrity	FP1734409	17	Monroe Harding Childrens Home	539.23
22	DIMP-Distribution Integrity	FP1734410	17	Georgia Ave Renewal	67,761.99
23	DIMP-Distribution Integrity	FP1734412	17	Vine Ridge Drive	24,839.02
24	DIMP-Distribution Integrity	FP1734413	17	McMurray Blvd Royal Elm Circle	44,273.27
25	DIMP-Distribution Integrity	FP1734414	17	Dreamland Drive Greenbrier Tn.	803.38
26	DIMP-Distribution Integrity	FP1734415	17	Foster Ave	166.84
27	DIMP-Distribution Integrity	FP1734416	17	Sadler Ave and Fox Ave	239.83
28	DIMP-Distribution Integrity	FP1734417	17	Rayon Drive Renewal	1.70
29	DIMP-Distribution Integrity	FP1734419	17	Rosedale Ave	1.87
30	DIMP-Distribution Integrity	FP1734420	17	Snyder Street @ Lovell Street	57,506.60
31	DIMP-Distribution Integrity	FP1734422	17	Lynwood Blvd / Tyne Blvd _ DIM	297,958.11
32	DIMP-Distribution Integrity	FP1734431	17	Murfreesboro Road at ForestVie	11,909.90
33	DIMP-Distribution Integrity	FP1734478	17	3rd Ave North Steel Replacement	80,088.19
34	DIMP-Distribution Integrity	FP1734480	17	Emergency Nesbit Lane	23,465.37
35	DIMP-Distribution Integrity	FP1734569	17	Enviro Science DIMP Project	894.45
36	DIMP-Distribution Integrity	FP1734592	17	Elm Hill Park Ext	232.35
37	TIMP-Transmission Integrity	FP1733929	17	White Bridge Road @ Post Rd. r	40,885.72
38	TIMP-Transmission Integrity	FP1733950	17	County Hospital Rd Station LNG	101.64
39	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	184,210.10
40	TIMP-Transmission Integrity	FP1734120	17	Line 311 Replacement	48,653.16
41	ISENP-Information Serv Enterprise	FP0026658	00	Work & Asset Management (OASIS)	826,258.18
42	**Total (unallocated)**				**$ 3,310,928.26**
43	*subtotal: TN Direct (unallocated)*				*$ 2,484,670.08*
44	*subtotal: CO-3 (unallocated)*				*$ 826,258.18*
					$ 3,310,928.26

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 3
REVISED

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. 25351

Line No.			**Jan-17**	
1	Beginning Balance	*Prior Month's IMR Report*	$ 2,852,263.29	
2	IMR Revenue Recognition	*Prior Annual IMR Report*	3,968,987.70	1/
3	(Collections from IM Adjustment)	*see Schedule 4*	(3,423,398.84)	
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	3,397,852.15	
5	Average Balance	*(Line 1 + Line 4) /2*	3,125,057.72	
6	Accrued Interest	*Line 5 * Line 9*	9,115.79	
7	Ending Balance After Interest	*Line 4 + Line 6*	$ 3,406,967.94	
8	Applicable Annual Interest Rate	*same as for ACA*	0.035000	
9	Monthly Interest Rate	*Line 8 / 12*	0.002917	
10	Actual GL #25351 EOM Balance	*per GL*	$ 3,108,704.45	
11	Variance	*Line 7 - Line 10*	$ 298,263.49	2/

Journal Entry: To Record Revenue		
01 01 25351 3 17 6250 489	3,968,987.70	2/
01 01 48010 3 17 6220 489	(2,367,263.02)	2/
01 01 48110 3 17 6220 489	(1,238,324.16)	2/
01 01 48120 3 17 6220 489	(53,541.65)	2/
01 01 48300 3 17 6220 489	(1,111.32)	2/
01 01 48900 3 17 6220 489	(308,747.55)	2/

Journal Entry: To Record Interest		
01 01 25351 3 17 6250 626	9,115.79	2/
01 01 43101 3 17 6220 626	(9,115.79)	2/

1/ Pursuant to the TPUC's April 10, 2017 ruling in Docket No. 16-00140, this schedule now reflects the approved monthly amortization of the annual Integrity Management Revenue Requirement from Piedmont's 2016 Annual Integrity Management Rider Report, which was filed by the Company on November 30, 2016.

2/ On April 10, 2017, pursuant to the TPUC's ruling, Piedmont recorded the approved IM Revenue Requirement to its GL for January 2017 and February 2017. It was recorded as a true-up adjustment to the GL in March 2017.

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4
REVISED

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		January - 2017				
		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
Line No.						
1	Residential (301)	0.10144		21,278,516		2,158,492.66
2	Small Commerical (302)	0.08861		8,598,099		761,877.55
3	Medium Commerical (352)	0.08861		3,194,095		283,028.75
4	Experimental Motor Vehicle Fuel (352/343)	0.08861		2,341		207.44
5	Firm Lg General Sales (303)	0.03936		809,688		31,869.32
6	Experimental Motor Vehicle Fuel (303/343)	0.03936		110,777		4,360.18
7	Firm Lg General Transportation (313)	0.03936		2,158,457		84,956.87
8	Experimental Motor Vehicle Fuel (313/343)	0.03936		7,937		312.40
9	Firm Resale (310)	0.03936		-		-
10	Interruptible Lg General Sales (304)	0.00984		18,455		181.60
11	Interruptible Lg General Transportation (314)	0.00984		9,970,739		98,112.07
12	**Total**					**$ 3,423,398.84**

Journal Entry: To Record Collections

01 01 48010 3 17 6220 489	2,158,492.66
01 01 48110 3 17 6220 489	761,877.55
01 01 48110 3 17 6220 489	283,236.19
01 01 48120 3 17 6220 489	36,229.50
01 01 48900 3 17 6220 489	85,269.27
01 01 48300 3 17 6220 489	-
01 01 48110 3 17 6220 489	181.60
01 01 48900 3 17 6220 489	98,112.07
01 01 25351 3 17 6250 489	(3,423,398.84)

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

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

Line No.		Current Vintage Year: Vintage Year 5 February 2017 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of February 2017 [3]	All Vintage Years Cumulative Capital Expenditure as of February 2017 [6]
	TN Direct				
1	Corrosion Control	$ 47,528.03	$ 207,732.93	$ 255,260.96	$ 5,452,224.85
2	Casing Remediation	$ -	$ -	$ -	$ 742,803.13
3	Distribution Integrity	$ 2,936,358.73	$ 4,818,192.81	$ 7,754,551.54	$ 36,732,285.71
4	Transmission Integrity	$ 356,792.08	$ 1,446,928.37	$ 1,803,720.45	$ 172,642,879.52
5	Total	$ 3,340,678.84	$ 6,472,854.11	$ 9,813,532.95	$ 215,570,193.21
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ 1,150,902.00	$ 8,792,757.29	$ 9,943,659.29	$ 121,883,584.82
7	TN % of CO-3 for Current Month [4]	16.30%			
8	Total Allocated to TN	$ 187,597.03	$ 1,449,152.43	$ 1,636,749.46	$ 21,579,661.97
9	Total Capital Expenditures [Line 5 + Line 8]	$ 3,528,275.87	$ 7,922,006.54	$ 11,450,282.41	$ 237,149,855.18
10	Less: Amount Included in the Attrition Period [5]	$ -		$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 3,528,275.87**	**$ 7,922,006.54**	**$ 11,450,282.41**	**$ 204,249,855.18**

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 and 4, which captures amounts through 10/31/16, is $192,799,572.77 ($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).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	February 2017
1	CORR-Corrosion Control	FP1734186	17	Nashville New Rectifier & Ground Be	5,569.99
2	CORR-Corrosion Control	FP1734289	17	Bridge Attachments Nashville	22,330.27
3	CORR-Corrosion Control	FP1734388	17	Nashville MAG Anode 2017	7,879.23
4	CORR-Corrosion Control	FP1734389	17	FY17 Rectifier Monitors (Nashville)	906.60
5	CORR-Corrosion Control	FP1734481	17	Magnesium Anode Beds - Nashville	10,841.94
6	DIMP-Distribution Integrity	FP1733763	17	Harding Place	3,070.87
7	DIMP-Distribution Integrity	FP1733764	17	Sunnyside Drive	1.59
8	DIMP-Distribution Integrity	FP1733765	17	McGavock Pike	4,242.49
9	DIMP-Distribution Integrity	FP1733766	17	Overhill Circle	(10,199.26)
10	DIMP-Distribution Integrity	FP1733767	17	Fesslers LN	80,594.57
11	DIMP-Distribution Integrity	FP1733768	17	Raymond ST	136,420.53
12	DIMP-Distribution Integrity	FP1733931	17	Shelby Park RR Bridge Project	1,685,938.79
13	DIMP-Distribution Integrity	FP1733947	17	Nolensville Rd. Over RR S of I-440	11,821.30
14	DIMP-Distribution Integrity	FP1734138	17	Electric Avenue Project	34,135.03
15	DIMP-Distribution Integrity	FP1734378	17	Overton Lea DIMP	1,668.83
16	DIMP-Distribution Integrity	FP1734409	17	Monroe Harding Childrens Home	14,447.88
17	DIMP-Distribution Integrity	FP1734410	17	Georgia Ave Renewal	35,962.33
18	DIMP-Distribution Integrity	FP1734412	17	Vine Ridge Drive	116,434.17
19	DIMP-Distribution Integrity	FP1734413	17	McMurray Blvd Royal Elm Circle	30,279.82
20	DIMP-Distribution Integrity	FP1734414	17	Dreamland Drive Greenbrier Tn.	31,693.68
21	DIMP-Distribution Integrity	FP1734415	17	Foster Ave	14.95
22	DIMP-Distribution Integrity	FP1734416	17	Sadler Ave and Fox Ave	3,444.16
23	DIMP-Distribution Integrity	FP1734417	17	Rayon Drive Renewal	1.72
24	DIMP-Distribution Integrity	FP1734418	17	Turner St Renewal	3,507.45
25	DIMP-Distribution Integrity	FP1734419	17	Rosedale Ave	122,591.00
26	DIMP-Distribution Integrity	FP1734420	17	Snyder Street @ Lovell Street	104,732.84
27	DIMP-Distribution Integrity	FP1734422	17	Lynwood Blvd / Tyne Blvd _ DIM	491,733.89
28	DIMP-Distribution Integrity	FP1734431	17	Murfreesboro Road at ForestVie	601.15
29	DIMP-Distribution Integrity	FP1734480	17	Emergency Nesbit Lane	30,456.52
30	DIMP-Distribution Integrity	FP1734569	17	Enviro Science DIMP Project	2,760.94
31	DIMP-Distribution Integrity	FP1734592	17	Elm Hill Park Ext	1.49
32	TIMP-Transmission Integrity	FP1733398	17	South Nashville 20"	124,760.05
33	TIMP-Transmission Integrity	FP1733409	17	Line C and E TIMP retrofits	548.61
34	TIMP-Transmission Integrity	FP1733929	17	White Bridge Road @ Post Rd.	18,457.62
35	TIMP-Transmission Integrity	FP1734029	17	Line 310 Scheduled Digs	1,219.11
36	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	155,638.25
37	TIMP-Transmission Integrity	FP1734120	17	Line 311 Replacement	56,168.44
38	ISENP-Information Serv Enterprise	FP0026658	00	Work & Asset Management (OASIS)	1,150,902.00

Total (unallocated) **$ 4,491,580.84**

39	*subtotal: TN Direct (unallocated)*	*$ 3,340,678.84*
40	*subtotal: CO-3 (unallocated)*	*$ 1,150,902.00*
		$ 4,491,580.84

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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. 25351

Line No.			Jan-17	Feb-17	
1	Beginning Balance	*Prior Month's IMR Report*	$ 2,852,263.29	$ 3,406,967.94	
2	IMR Revenue Recognition	*Prior Annual IMR Report*	3,968,987.70	3,776,922.54	1/
3	(Collections from IM Adjustment)	*see Separate Schedule*	(3,423,398.84)	(2,648,680.97)	
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	3,397,852.15	4,535,209.51	
5	Average Balance	*(Line 1 + Line 4) /2*	3,125,057.72	3,971,088.73	
6	Accrued Interest	*Line 5 * Line 9*	9,115.79	11,583.67	
7	Ending Balance After Interest	*Line 4 + Line 6*	$ 3,406,967.94	$ 4,546,793.18	
8	Applicable Annual Interest Rate	*same as for ACA*	0.035000	0.035000	
9	Monthly Interest Rate	*Line 8 / 12*	0.002917	0.002917	
10	Actual GL #25351 EOM Balance	*per GL*	$ 3,108,704.45	$ 3,963,829.57	
11	Variance	*Line 7 - Line 10*	$ 298,263.49	$ 582,963.61	2/

Journal Entry: To Record Revenue	Jan-17	Feb-17	
01 01 25351 3 17 6250 489	3,968,987.70	3,776,922.54	2/
01 01 48010 3 17 6220 489	(2,367,263.02)	(2,252,707.68)	2/
01 01 48110 3 17 6220 489	(1,238,324.16)	(1,178,399.83)	2/
01 01 48120 3 17 6220 489	(53,541.65)	(50,950.69)	2/
01 01 48300 3 17 6220 489	(1,111.32)	(1,057.54)	2/
01 01 48900 3 17 6220 489	(308,747.55)	(293,806.80)	2/

Journal Entry: To Record Interest	Jan-17	Feb-17	
01 01 25351 3 17 6250 626	9,115.79	11,583.67	2/
01 01 43101 3 17 6220 626	(9,115.79)	(11,583.67)	2/

1/ Pursuant to the TPUC's April 10, 2017 ruling in Docket No. 16-00140, this schedule reflects the approved monthly amortization of the annual Integrity Management Revenue Requirement from Piedmont's 2016 Annual Integrity Management Rider Report, which was filed by the Company on November 30, 2016.

2/ On April 10, 2017, pursuant to the TPUC's ruling, Piedmont recorded the approved IM Revenue Requirement to its GL for January 2017 and February 2017. It was recorded as a true-up adjustment to the GL in March 2017.

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support
Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

Line No.		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
		February - 2017				
1	Residential (301)	0.10144		16,260,452		1,649,460.25
2	Small Commerical (302)	0.08861		6,773,308		600,182.82
3	Medium Commerical (352)	0.08861		2,463,009		218,247.23
4	Experimental Motor Vehicle Fuel (343/352)	0.08861		2,548		225.78
5	Firm Lg General Sales (303)	0.03936		597,453		23,515.75
6	Experimental Motor Vehicle Fuel (343/303)	0.03936		104,479		4,112.29
7	Firm Lg General Transportation (313)	0.03936		1,798,272		70,779.99
8	Experimental Motor Vehicle Fuel (343/313)	0.03936		10,353		407.49
9	Firm Resale (310)	0.03936		-		-
10	Interruptible Lg General Sales (304)	0.00984		13,565		133.48
11	Interruptible Lg General Transportation (314)	0.00984		8,294,298		81,615.89
12	**Total**					**$ 2,648,680.97**

Journal Entry: To Record Collections

01 01 48010 3 17 6220 489	1,649,460.25
01 01 48110 3 17 6220 489	600,182.82
01 01 48110 3 17 6220 489	218,473.01
01 01 48120 3 17 6220 489	27,628.04
01 01 48900 3 17 6220 489	71,187.48
01 01 48300 3 17 6220 489	-
01 01 48110 3 17 6220 489	133.48
01 01 48900 3 17 6220 489	81,615.89
01 01 25351 3 17 6250 489	(2,648,680.97)

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

Cumulative Integrity Management Investment Amount

Actual Integrity Management Investment, by Integrity Project Type

Line No.		Current Vintage Year: Vintage Year 5			All Vintage Years
		March 2017 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of March 2017 [3]	Cumulative Capital Expenditure as of March 2017 [6]
	TN Direct				
1	Corrosion Control	$ 38,123.51	$ 255,260.96	$ 293,384.47	$ 5,490,348.36
2	Casing Remediation	$ -	$ -	$ -	$ 742,803.13
3	Distribution Integrity	$ 2,240,849.73	$ 7,754,551.54	$ 9,995,401.27	$ 38,973,135.44
4	Transmission Integrity	$ 298,339.45	$ 1,803,720.45	$ 2,102,059.90	$ 172,941,218.97
5	Total	$ 2,577,312.69	$ 9,813,532.95	$ 12,390,845.64	$ 218,147,505.90
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ 1,135,806.38	$ 9,943,659.29	$ 11,079,465.67	$ 123,019,391.20
7	TN % of CO-3 for Current Month [4]	16.30%			
8	Total Allocated to TN	$ 185,136.44	$ 1,636,749.46	$ 1,821,885.90	$ 21,764,798.41
9	Total Capital Expenditures [Line 5 + Line 8]	$ 2,762,449.13	$ 11,450,282.41	$ 14,212,731.54	$ 239,912,304.31
10	Less: Amount Included in the Attrition Period [5]	$ -		$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 2,762,449.13**	**$ 11,450,282.41**	**$ 14,212,731.54**	**$ 207,012,304.31**

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 and 4, which captures amounts through 10/31/16, is $192,799,572.77 ($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).

Piedmont Natural Gas Company, Inc. Schedule 2
Integrity Management Rider
State of Tennessee

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	March 2017
1	CORR-Corrosion Control	FP1734186	17	Nashville New Rectifier & Ground Be	859.33
2	CORR-Corrosion Control	FP1734289	17	Bridge Attachments Nashville	37,016.95
3	CORR-Corrosion Control	FP1734388	17	Nashville MAG Anode 2017	99.74
4	CORR-Corrosion Control	FP1734389	17	FY17 Rectifier Monitors (Nashville)	147.49
5	DIMP-Distribution Integrity	FP1733763	17	Harding Place	22,356.33
6	DIMP-Distribution Integrity	FP1733764	17	Sunnyside Drive	1.60
7	DIMP-Distribution Integrity	FP1733767	17	Fesslers LN	366,914.78
8	DIMP-Distribution Integrity	FP1733768	17	Raymond ST	(2,602.34)
9	DIMP-Distribution Integrity	FP1733931	17	Shelby Park RR Bridge Project	660,919.80
10	DIMP-Distribution Integrity	FP1733947	17	Nolensville Rd. Over RR S of I-440	4,315.39
11	DIMP-Distribution Integrity	FP1734410	17	Georgia Ave Renewal	6,882.70
12	DIMP-Distribution Integrity	FP1734411	17	Knapp Blvd.	9,656.87
13	DIMP-Distribution Integrity	FP1734412	17	Vine Ridge Drive	179,896.81
14	DIMP-Distribution Integrity	FP1734413	17	McMurray Blvd Royal Elm Circle	42,727.61
15	DIMP-Distribution Integrity	FP1734414	17	Dreamland Drive Greenbrier Tn.	65,481.58
16	DIMP-Distribution Integrity	FP1734415	17	Foster Ave	6,841.68
17	DIMP-Distribution Integrity	FP1734416	17	Sadler Ave and Fox Ave	6,314.42
18	DIMP-Distribution Integrity	FP1734417	17	Rayon Drive Renewal	1.73
19	DIMP-Distribution Integrity	FP1734418	17	Turner St Renewal	16,055.48
20	DIMP-Distribution Integrity	FP1734419	17	Rosedale Ave	292,782.31
21	DIMP-Distribution Integrity	FP1734420	17	Snyder Street @ Lovell Street	103,906.25
22	DIMP-Distribution Integrity	FP1734421	17	4th Ave South Insertion	265.63
23	DIMP-Distribution Integrity	FP1734422	17	Lynwood Blvd / Tyne Blvd _ DIM	382,475.31
24	DIMP-Distribution Integrity	FP1734431	17	Murfreesboro Road at ForestVie	2,367.64
25	DIMP-Distribution Integrity	FP1734478	17	3rd Ave North Steel Replacement	5,821.29
26	DIMP-Distribution Integrity	FP1734480	17	Emergency Nesbit Lane	11,096.35
27	DIMP-Distribution Integrity	FP1734569	17	Enviro Science DIMP Project	51,438.95
28	DIMP-Distribution Integrity	FP1734592	17	Elm Hill Park Ext	1.50
29	DIMP-Distribution Integrity	FP1734614	17	Loretta Drive Replacement	4,930.06
30	TIMP-Transmission Integrity	FP1733398	17	South Nashville 20"	3,216.91
31	TIMP-Transmission Integrity	FP1733929	17	White Bridge Road @ Post Rd.	18,876.39
32	TIMP-Transmission Integrity	FP1733950	17	County Hospital Rd Station LNG	0.81
33	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	244,485.31
34	TIMP-Transmission Integrity	FP1734120	17	Line 311 Replacement	31,760.03
35	ISENP-Information Serv Enterprise	FP0026658	00	Work & Asset Management (OASIS)	1,135,806.38
	Total (unallocated)				**$ 3,713,119.07**
36	*subtotal: TN Direct (unallocated)*				*$ 2,577,312.69*
37	*subtotal: CO-3 (unallocated)*				*$ 1,135,806.38*
					$ 3,713,119.07

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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. 25351

Line No.			Mar-17	
1	Beginning Balance	*Prior Month's IMR Report*	$ 4,546,793.18	
2	IMR Revenue Recognition	*Prior Annual IMR Report*	2,851,853.96	1/
3	(Collections from IM Adjustment)	*see Separate Schedule*	(2,070,489.51)	
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	5,328,157.63	
5	Average Balance	*(Line 1 + Line 4) /2*	4,937,475.41	
6	Accrued Interest	*Line 5 * Line 9*	14,402.62	
7	Ending Balance After Interest	*Line 4 + Line 6*	$ 5,342,560.25	
8	Applicable Annual Interest Rate	*same as for ACA*	0.035000	
9	Monthly Interest Rate	*Line 8 / 12*	0.002917	
10	Actual GL #25351 EOM Balance	*per GL*	$ 5,342,560.25	
11	Variance	*Line 7 - Line 10*	$ -	

Journal Entry: To Record Revenue	
01 01 25351 3 17 6250 489	2,851,853.96
01 01 48010 3 17 6220 489	(1,700,959.78)
01 01 48110 3 17 6220 489	(889,778.43)
01 01 48120 3 17 6220 489	(38,471.51)
01 01 48300 3 17 6220 489	(798.52)
01 01 48900 3 17 6220 489	(221,845.72)

Journal Entry: To Record Interest	
01 01 25351 3 17 6250 626	14,402.62
01 01 43101 3 17 6220 626	(14,402.62)

1/ Pursuant to the TPUC's April 10, 2017 ruling in Docket No. 16-00140, this schedule reflects the approved monthly amortization of the annual Integrity Management Revenue Requirement from Piedmont's 2016 Annual Integrity Management Rider Report, which was filed by the Company on November 30, 2016.

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		March - 2017				
		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
Line No.						
1	Residential (301)	0.10144		12,163,554		1,233,870.92
2	Small Commerical (302)	0.08861		5,313,493		470,828.61
3	Medium Commerical (352)	0.08861		1,978,912		175,351.39
4	Experimental Motor Vehicle Fuel (343/352)	0.08861		2,017		178.73
5	Firm Lg General Sales (303)	0.03936		636,500		25,052.64
6	Experimental Motor Vehicle Fuel (343/303)	0.03936		124,963		4,918.54
7	Firm Lg General Transportation (313)	0.03936		1,832,596		72,130.98
8	Experimental Motor Vehicle Fuel (343/313)	0.03936		13,068		514.36
9	Firm Resale (310)	0.03936		99		3.90
10	Interruptible Lg General Sales (304)	0.00984		17,323		170.46
11	Interruptible Lg General Transportation (314)	0.00984		8,889,124		87,468.98
12	**Total**					**$ 2,070,489.51**

Journal Entry: To Record Collections	
01 01 48010 3 17 6220 489	1,233,870.92
01 01 48110 3 17 6220 489	470,828.61
01 01 48110 3 17 6220 489	175,530.12
01 01 48120 3 17 6220 489	29,971.18
01 01 48900 3 17 6220 489	72,645.34
01 01 48300 3 17 6220 489	3.90
01 01 48110 3 17 6220 489	170.46
01 01 48900 3 17 6220 489	87,468.98
01 01 25351 3 17 6250 489	(2,070,489.51)
	-

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

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

Line No.		Current Vintage Year: Vintage Year 5 April 2017 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of April 2017 [3]	All Vintage Years Cumulative Capital Expenditure as of April 2017 [6]
	TN Direct				
1	Corrosion Control	$ 111,819.36	$ 293,384.47	$ 405,203.83	$ 5,602,167.72
2	Casing Remediation	$ -	$ -	$ -	$ 742,803.13
3	Distribution Integrity	$ 3,087,864.90	$ 9,995,401.27	$ 13,083,266.17	$ 42,061,000.34
4	Transmission Integrity	$ 99,791.69	$ 2,102,059.90	$ 2,201,851.59	$ 173,041,010.66
5	Total	$ 3,299,475.95	$ 12,390,845.64	$ 15,690,321.59	$ 221,446,981.85
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ 875,683.12	$ 11,079,465.67	$ 11,955,148.79	$ 123,895,074.32
7	TN % of CO-3 for Current Month [4]	16.30%			
8	Total Allocated to TN	$ 142,736.35	$ 1,821,885.90	$ 1,964,622.25	$ 21,907,534.76
9	Total Capital Expenditures [Line 5 + Line 8]	$ 3,442,212.30	$ 14,212,731.54	$ 17,654,943.84	$ 243,354,516.61
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 3,442,212.30**	**$ 14,212,731.54**	**$ 17,654,943.84**	**$ 210,454,516.61**

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 and 4, which captures amounts through 10/31/16, is $192,799,572.77 ($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).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	April 2017
1	CORR-Corrosion Control	FP1734186	17	Nashville New Rectifier & Ground Be	4,128.93
2	CORR-Corrosion Control	FP1734289	17	Bridge Attachments Nashville	105,963.49
3	CORR-Corrosion Control	FP1734388	17	Nashville MAG Anode 2017	1,578.50
4	CORR-Corrosion Control	FP1734389	17	FY17 Rectifier Monitors (Nashville)	148.44
5	DIMP-Distribution Integrity	FP1733763	17	Harding Place	37,690.37
6	DIMP-Distribution Integrity	FP1733764	17	Sunnyside Drive	1.61
7	DIMP-Distribution Integrity	FP1733765	17	McGavock Pike	768.33
8	DIMP-Distribution Integrity	FP1733766	17	Overhill Circle	5,442.51
9	DIMP-Distribution Integrity	FP1733767	17	Fesslers LN	168,168.34
10	DIMP-Distribution Integrity	FP1733768	17	Raymond ST	121,611.89
11	DIMP-Distribution Integrity	FP1733885	17	2nd Ave North 14" Replacement	(13,523.15)
12	DIMP-Distribution Integrity	FP1733931	17	Shelby Park RR Bridge Project	1,441,444.27
13	DIMP-Distribution Integrity	FP1733947	17	Nolensville Rd. Over RR S of I-440	2,497.46
14	DIMP-Distribution Integrity	FP1734378	17	Overton Lea DIMP	29,477.93
15	DIMP-Distribution Integrity	FP1734409	17	Monroe Harding Children's Home	3,300.24
16	DIMP-Distribution Integrity	FP1734410	17	Georgia Ave Renewal	3,158.52
17	DIMP-Distribution Integrity	FP1734411	17	Knapp Blvd.	61.98
18	DIMP-Distribution Integrity	FP1734412	17	Vine Ridge Drive	223,342.03
19	DIMP-Distribution Integrity	FP1734413	17	McMurray Blvd Royal Elm Circle	64,585.92
20	DIMP-Distribution Integrity	FP1734414	17	Dreamland Drive Greenbrier Tn.	37,228.59
21	DIMP-Distribution Integrity	FP1734415	17	Foster Ave	19,137.70
22	DIMP-Distribution Integrity	FP1734416	17	Sadler Ave and Fox Ave	5,631.88
23	DIMP-Distribution Integrity	FP1734417	17	Rayon Drive Renewal	1.74
24	DIMP-Distribution Integrity	FP1734418	17	Turner St Renewal	121,032.18
25	DIMP-Distribution Integrity	FP1734419	17	Rosedale Ave	131,207.36
26	DIMP-Distribution Integrity	FP1734420	17	Snyder Street @ Lovell Street	26,643.60
27	DIMP-Distribution Integrity	FP1734421	17	4th Ave South Insertion	1.70
28	DIMP-Distribution Integrity	FP1734422	17	Lynwood Blvd / Tyne Blvd _ DIM	499,319.39
29	DIMP-Distribution Integrity	FP1734431	17	Murfreesboro Road at ForestVie	3,655.40
30	DIMP-Distribution Integrity	FP1734480	17	Emergency Nesbit Lane	11,515.96
31	DIMP-Distribution Integrity	FP1734569	17	Enviro Science DIMP Project	141,581.03
32	DIMP-Distribution Integrity	FP1734592	17	Elm Hill Park Ext	1.51
33	DIMP-Distribution Integrity	FP1734614	17	Loretta Drive Replacement	2,878.61
34	TIMP-Transmission Integrity	FP1733929	17	White Bridge Road @ Post Rd.	9,249.85
35	TIMP-Transmission Integrity	FP1733950	17	County Hospital Rd Station LNG	(102.85)
36	TIMP-Transmission Integrity	FP1734029	17	Line 310 Scheduled Digs	685.29
37	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	63,685.11
38	TIMP-Transmission Integrity	FP1734120	17	Line 311 Replacement	26,274.29
39	ISENP-Information Serv Enterprise	FP0026658	00	Work & Asset Management (OASIS)	875,683.12

	Total (unallocated)	**$ 4,175,159.07**
40	*subtotal: TN Direct (unallocated)*	*$ 3,299,475.95*
41	*subtotal: CO-3 (unallocated)*	*$ 875,683.12*
		$ 4,175,159.07

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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. 25351

Line No.			Apr-17	
1	Beginning Balance	*Prior Month's IMR Report*	$ 5,342,560.25	
2	IMR Revenue Recognition	*Prior Annual IMR Report*	1,842,916.11	1/
3	(Collections from IM Adjustment)	*see Separate Schedule*	(1,444,571.37)	
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	5,740,904.99	
5	Average Balance	*(Line 1 + Line 4) /2*	5,541,732.62	
6	Accrued Interest	*Line 5 * Line 9*	17,135.04	
7	Ending Balance After Interest	*Line 4 + Line 6*	$ 5,758,040.03	
8	Applicable Annual Interest Rate	*same as for ACA*	0.037100	
9	Monthly Interest Rate	*Line 8 / 12*	0.003092	
10	Actual GL #25351 EOM Balance	*per GL*	$ 5,758,040.03	
11	Variance	*Line 7 - Line 10*	$ -	

Journal Entry: To Record Revenue	
01 01 25351 3 17 6250 489	1,842,916.11
01 01 48010 3 17 6220 489	(1,099,188.88)
01 01 48110 3 17 6220 489	(574,989.83)
01 01 48120 3 17 6220 489	(24,860.94)
01 01 48300 3 17 6220 489	(516.02)
01 01 48900 3 17 6220 489	(143,360.44)

Journal Entry: To Record Interest	
01 01 25351 3 17 6250 626	17,135.04
01 01 43101 3 17 6220 626	(17,135.04)

1/ Pursuant to the TPUC's April 10, 2017 ruling in Docket No. 16-00140, this schedule reflects the approved monthly amortization of the annual Integrity Management Revenue Requirement from Piedmont's 2016 Annual Integrity Management Rider Report, which was filed by the Company on November 30, 2016.

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		April - 2017				
		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
Line No.						
1	Residential (301)	0.10144		8,308,108		842,774.48
2	Small Commerical (302)	0.08861		3,798,685		336,601.48
3	Medium Commerical (352)	0.08861		1,407,837		124,748.44
4	Experimental Motor Vehicle Fuel (343/352)	0.08861		2,587		229.23
5	Firm Lg General Sales (303)	0.03936		459,601		18,089.90
6	Experimental Motor Vehicle Fuel (343/303)	0.03936		-		-
7	Firm Lg General Transportation (313)	0.03936		1,287,380		50,671.28
8	Experimental Motor Vehicle Fuel (343/313)	0.03936		-		-
9	Firm Resale (310)	0.03936		22		0.87
10	Interruptible Lg General Sales (304)	0.00984		20,539		202.10
11	Interruptible Lg General Transportation (314)	0.00984		7,241,218		71,253.59
12	**Total**					**$ 1,444,571.37**

Journal Entry: To Record Collections

01 01 48010 3 17 6220 489	842,774.48
01 01 48110 3 17 6220 489	336,601.48
01 01 48110 3 17 6220 489	124,977.67
01 01 48120 3 17 6220 489	18,089.90
01 01 48900 3 17 6220 489	50,671.28
01 01 48300 3 17 6220 489	0.87
01 01 48110 3 17 6220 489	202.10
01 01 48900 3 17 6220 489	71,253.59
01 01 25351 3 17 6250 489	(1,444,571.37)

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

Cumulative Integrity Management Investment Amount

Actual Integrity Management Investment, by Integrity Project Type

Line No.		Current Vintage Year: Vintage Year 5			All Vintage Years
		May 2017 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of May 2017 [3]	Cumulative Capital Expenditure as of May 2017 [6]
	TN Direct				
1	Corrosion Control	$ 32,852.77	$ 405,203.83	$ 438,056.60	$ 5,635,020.49
2	Casing Remediation	$ 455.90	$ -	$ 455.90	$ 743,259.03
3	Distribution Integrity	$ 1,817,558.08	$ 13,083,266.17	$ 14,900,824.25	$ 43,878,558.42
4	Transmission Integrity	$ 786,535.98	$ 2,201,851.59	$ 2,988,387.57	$ 173,827,546.64
5	Total	$ 2,637,402.73	$ 15,690,321.59	$ 18,327,724.32	$ 224,084,384.58
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ 1,418,196.23	$ 11,955,148.79	$ 13,373,345.02	$ 125,313,270.55
7	TN % of CO-3 for Current Month [4]	16.30%			
8	Total Allocated to TN	$ 231,165.99	$ 1,964,622.25	$ 2,195,788.24	$ 22,138,700.75
9	Total Capital Expenditures [Line 5 + Line 8]	$ 2,868,568.72	$ 17,654,943.84	$ 20,523,512.56	$ 246,223,085.33
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 2,868,568.72**	**$ 17,654,943.84**	**$ 20,523,512.56**	**$ 213,323,085.33**

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 and 4, which captures amounts through 10/31/16, is $192,799,572.77 ($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).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	May 2017
1	CORR-Corrosion Control	FP1734186	17	Nashville New Rectifier & Ground Be	3,519.08
2	CORR-Corrosion Control	FP1734289	17	Bridge Attachments Nashville	(0.86)
3	CORR-Corrosion Control	FP1734388	17	Nashville MAG Anode 2017	29,334.55
4	CSNG-Casing & Remediation	FP1734373	17	Hartsville Casing Removal Proj	455.90
5	DIMP-Distribution Integrity	FP1733763	17	Harding Place	61,707.37
6	DIMP-Distribution Integrity	FP1733764	17	Sunnyside Drive	1.62
7	DIMP-Distribution Integrity	FP1733765	17	McGavock Pike	(983.80)
8	DIMP-Distribution Integrity	FP1733767	17	Fesslers LN	116,743.65
9	DIMP-Distribution Integrity	FP1733768	17	Raymond ST	37,518.09
10	DIMP-Distribution Integrity	FP1733931	17	Shelby Park RR Bridge Project	525,319.79
11	DIMP-Distribution Integrity	FP1733938	17	23rd Ave N @ Osage St	(11,589.17)
12	DIMP-Distribution Integrity	FP1733947	17	Nolensville Rd. Over RR S of I-440	52,848.42
13	DIMP-Distribution Integrity	FP1734378	17	Overton Lea DIMP	10,499.19
14	DIMP-Distribution Integrity	FP1734409	17	Monroe Harding Children's Home	150.02
15	DIMP-Distribution Integrity	FP1734027	17	Donelson St @ Robertson St	(8,460.68)
16	DIMP-Distribution Integrity	FP1734410	17	Georgia Ave Renewal	161,510.39
17	DIMP-Distribution Integrity	FP1734411	17	Knapp Blvd.	2,513.30
18	DIMP-Distribution Integrity	FP1734412	17	Vine Ridge Drive	175,431.97
19	DIMP-Distribution Integrity	FP1734413	17	McMurray Blvd Royal Elm Circle	14,785.04
20	DIMP-Distribution Integrity	FP1734414	17	Dreamland Drive Greenbrier Tn.	7,803.85
21	DIMP-Distribution Integrity	FP1734415	17	Foster Ave	(5,648.16)
22	DIMP-Distribution Integrity	FP1734416	17	Sadler Ave and Fox Ave	12,189.56
23	DIMP-Distribution Integrity	FP1734417	17	Rayon Drive Renewal	18,774.60
24	DIMP-Distribution Integrity	FP1734418	17	Turner St Renewal	80,750.05
25	DIMP-Distribution Integrity	FP1734419	17	Rosedale Ave	104,107.43
26	DIMP-Distribution Integrity	FP1734420	17	Snyder Street @ Lovell Street	34,001.53
27	DIMP-Distribution Integrity	FP1734421	17	4th Ave South Insertion	1.72
28	DIMP-Distribution Integrity	FP1734422	17	Lynwood Blvd / Tyne Blvd _ DIM	125,293.25
29	DIMP-Distribution Integrity	FP1734431	17	Murfreesboro Road at ForestVie	613.94
30	DIMP-Distribution Integrity	FP1734478	17	3rd Ave North Steel Replacement	46,153.71
31	DIMP-Distribution Integrity	FP1734480	17	Emergency Nesbit Lane	12,992.90
32	DIMP-Distribution Integrity	FP1734569	17	Enviro Science DIMP Project	66,339.61
33	DIMP-Distribution Integrity	FP1734592	17	Elm Hill Park Ext	1.52
34	DIMP-Distribution Integrity	FP1734614	17	Loretta Drive Replacement	164,015.64
35	DIMP-Distribution Integrity	FP1734653	17	Blue Hole Rd HDD	11,341.58
36	DIMP-Distribution Integrity	FP1734656	17	Richard Jones Rd @ Hillsboro P	830.15
37	TIMP-Transmission Integrity	FP1733929	17	White Bridge Road @ Post Rd.	4,752.15
38	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	721,699.97
39	TIMP-Transmission Integrity	FP1734120	17	Line 311 Replacement	60,083.86
40	ISENP-Information Serv Enterprise	FP0026658	00	Work & Asset Management (OASIS)	1,418,196.23

	Total (unallocated)	**$ 4,055,598.96**
41	*subtotal: TN Direct (unallocated)*	*$ 2,637,402.73*
42	*subtotal: CO-3 (unallocated)*	*$ 1,418,196.23*
		$ 4,055,598.96

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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. 25351

Line No.			May-17
1	Beginning Balance	*Prior Month's IMR Report*	$ 5,758,040.03
2	IMR Revenue Recognition	*Prior Annual IMR Report*	1,166,798.45
3	(Collections from IM Adjustment)	*see Separate Schedule*	(1,002,035.68)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	5,922,802.80
5	Average Balance	*(Line 1 + Line 4) /2*	5,840,421.42
6	Accrued Interest	*Line 5 * Line 9*	18,058.58
7	Ending Balance After Interest	*Line 4 + Line 6*	$ 5,940,861.38
8	Applicable Annual Interest Rate	*same as for ACA*	0.037100
9	Monthly Interest Rate	*Line 8 / 12*	0.003092
10	Actual GL #25351 EOM Balance	*per GL*	$ 5,940,861.38
11	Variance	*Line 7 - Line 10*	$ -

Journal Entry: To Record Revenue

01 01 25351 3 17 6250 489	1,166,798.45
01 01 48010 3 17 6220 489	(695,925.27)
01 01 48110 3 17 6220 489	(364,041.12)
01 01 48120 3 17 6220 489	(15,740.11)
01 01 48300 3 17 6220 489	(326.70)
01 01 48900 3 17 6220 489	(90,765.25)

Journal Entry: To Record Interest

01 01 25351 3 17 6250 626	18,058.58
01 01 43101 3 17 6220 626	(18,058.58)

Piedmont Natural Gas Company, Inc. Schedule 4
Integrity Management Rider
State of Tennessee

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		May - 2017				
		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
Line No.						
1	Residential (301)	0.13124		3,466,722		454,972.60
2	Small Commerical (302)	0.11465		2,321,793		266,193.57
3	Medium Commerical (352)	0.11465		857,790		98,345.62
4	Experimental Motor Vehicle Fuel (343/352)	0.11465		4,184		479.70
5	Firm Lg General Sales (303)	0.05092		351,076		17,876.79
6	Experimental Motor Vehicle Fuel (343/303)	0.05092		150,061		7,641.11
7	Firm Lg General Transportation (313)	0.05092		1,229,665		62,614.54
8	Experimental Motor Vehicle Fuel (343/313)	0.05092		7,418		377.72
9	Firm Resale (310)	0.05092		11		0.56
10	Interruptible Lg General Sales (304)	0.01273		12,983		165.27
11	Interruptible Lg General Transportation (314)	0.01273		7,334,501		93,368.20
12	**Total**					**$ 1,002,035.68**

Journal Entry: To Record Collections

01 01 48010 3 17 6220 489	454,972.60
01 01 48110 3 17 6220 489	266,193.57
01 01 48110 3 17 6220 489	98,825.32
01 01 48120 3 17 6220 489	25,517.90
01 01 48900 3 17 6220 489	62,992.26
01 01 48300 3 17 6220 489	0.56
01 01 48110 3 17 6220 489	165.27
01 01 48900 3 17 6220 489	93,368.20
01 01 25351 3 17 6250 489	(1,002,035.68)

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

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

		Current Vintage Year: Vintage Year 5			All Vintage Years
Line No.		June 2017 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of June 2017 [3]	Cumulative Capital Expenditure as of June 2017 [6]
	TN Direct				
1	Corrosion Control	$ 37,980.27	$ 438,056.60	$ 476,036.87	$ 5,673,000.76
2	Casing Remediation	$ 17,516.05	$ 455.90	$ 17,971.95	$ 760,775.08
3	Distribution Integrity	$ 1,338,128.99	$ 14,900,824.25	$ 16,238,953.24	$ 45,216,687.41
4	Transmission Integrity	$ 778,242.07	$ 2,988,387.57	$ 3,766,629.64	$ 174,605,788.71
5	Total	$ 2,171,867.38	$ 18,327,724.32	$ 20,499,591.70	$ 226,256,251.96
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ 1,116,467.99	$ 13,373,345.02	$ 14,489,813.01	$ 126,429,738.54
7	TN % of CO-3 for Current Month [4]	16.30%			
8	Total Allocated to TN	$ 181,984.28	$ 2,195,788.24	$ 2,377,772.52	$ 22,320,685.03
9	Total Capital Expenditures [Line 5 + Line 8]	$ 2,353,851.66	$ 20,523,512.56	$ 22,877,364.22	$ 248,576,936.99
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 2,353,851.66**	**$ 20,523,512.56**	**$ 22,877,364.22**	**$ 215,676,936.99**

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 and 4, which captures amounts through 10/31/16, is $192,799,572.77 ($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).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	June 2017
1	CORR-Corrosion Control	FP1734186	17	Nashville New Rectifier & Ground Be	$ 239.55
2	CORR-Corrosion Control	FP1734289	17	Bridge Attachments Nashville	829.97
3	CORR-Corrosion Control	FP1734388	17	Nashville MAG Anode 2017	36,910.75
4	CSNG-Casing & Remediation	FP1734373	17	Hartsville Casing Removal Proj	17,516.05
5	DIMP-Distribution Integrity	FP1733763	17	Harding Place	28,431.61
6	DIMP-Distribution Integrity	FP1733764	17	Sunnyside Drive	34.08
7	DIMP-Distribution Integrity	FP1733766	17	Overhill Circle	(203.68)
8	DIMP-Distribution Integrity	FP1733767	17	Fesslers LN	63,022.19
9	DIMP-Distribution Integrity	FP1733768	17	Raymond ST	31,028.92
10	DIMP-Distribution Integrity	FP1733931	17	Shelby Park RR Bridge Project	497,431.46
11	DIMP-Distribution Integrity	FP1733947	17	Nolensville Rd. Over RR S of I-440	7,340.16
12	DIMP-Distribution Integrity	FP1734408	17	3rd and Hart Station Valves	425.67
13	DIMP-Distribution Integrity	FP1734411	17	Knapp Blvd	3,742.30
14	DIMP-Distribution Integrity	FP1734412	17	Vine Ridge Drive	126,640.77
15	DIMP-Distribution Integrity	FP1734413	17	McMurray Blvd Royal Elm Circle	14,445.92
16	DIMP-Distribution Integrity	FP1734414	17	Dreamland Drive Greenbrier Tn.	4,048.05
17	DIMP-Distribution Integrity	FP1734415	17	Foster Ave	129,403.37
18	DIMP-Distribution Integrity	FP1734416	17	Sadler Ave and Fox Ave	54,486.71
19	DIMP-Distribution Integrity	FP1734417	17	Rayon Drive Renewal	45,136.65
20	DIMP-Distribution Integrity	FP1734418	17	Turner St Renewal	8,070.32
21	DIMP-Distribution Integrity	FP1734419	17	Rosedale Ave	104,670.69
22	DIMP-Distribution Integrity	FP1734420	17	Synder Street @ Lovell Street	555.16
23	DIMP-Distribution Integrity	FP1734421	17	4th Ave South Insertion	1.73
24	DIMP-Distribution Integrity	FP1734422	17	Lynwood Blvd / Tyne Blvd _ DIM	174,017.21
25	DIMP-Distribution Integrity	FP1734431	17	Murfreesboro Road at ForestVie	9,701.94
26	DIMP-Distribution Integrity	FP1734480	17	Emergency Nesbit Ln	7,254.78
27	DIMP-Distribution Integrity	FP1734569	17	Enviro Science DIMP Project	9,402.66
28	DIMP-Distribution Integrity	FP1734592	17	Elm Hill Pk Ext	2,998.45
29	DIMP-Distribution Integrity	FP1734614	17	Loretta Drive Replacement	5,877.11
30	DIMP-Distribution Integrity	FP1734653	17	Blue Hole Rd HDD	10,159.43
31	DIMP-Distribution Integrity	FP1734656	17	Richard Jones Rd @ Hillsboro P	5.33
32	TIMP-Transmission Integrity	FP1733398	17	South Nashville 20"	(13,481.06)
33	TIMP-Transmission Integrity	FP1733929	17	White Bridge Road @ Post Rd. r	1,865.98
34	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	716,740.94
35	TIMP-Transmission Integrity	FP1734120	17	Line 311 Replacement	73,116.21
36	ISENP-Information Serv Enterprise	FP0026658	00	Work & Asset Management (OASIS)	1,116,467.99
	Total (unallocated)				**$ 3,288,335.37**
37	*subtotal: TN Direct (unallocated)*				*$ 2,171,867.38*
38	*subtotal: CO-3 (unallocated)*				*$ 1,116,467.99*
					$ 3,288,335.37

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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. 25351

Line No.			**Jun-17**
1	Beginning Balance	*Prior Month's IMR Report*	$ 5,940,861.38
2	IMR Revenue Recognition	*Prior Annual IMR Report*	826,224.16
3	(Collections from IM Adjustment)	*see Separate Schedule*	(817,046.50)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	5,950,039.04
5	Average Balance	*(Line 1 + Line 4) /2*	5,945,450.21
6	Accrued Interest	*Line 5 * Line 9*	18,383.33
7	Ending Balance After Interest	*Line 4 + Line 6*	$ 5,968,422.37
8	Applicable Annual Interest Rate	*same as for ACA*	0.037100
9	Monthly Interest Rate	*Line 8 / 12*	0.003092
10	Actual GL #25351 EOM Balance	*per GL*	$ 5,968,422.37
11	Variance	*Line 7 - Line 10*	$ -

Journal Entry: To Record Revenue	
01 01 25351 3 17 6250 489	826,224.16
01 01 48010 3 17 6220 489	(492,793.14)
01 01 48110 3 17 6220 489	(257,781.94)
01 01 48120 3 17 6220 489	(11,145.76)
01 01 48300 3 17 6220 489	(231.34)
01 01 48900 3 17 6220 489	(64,271.98)

Journal Entry: To Record Interest	
01 01 25351 3 17 6250 626	18,383.33
01 01 43101 3 17 6220 626	(18,383.33)

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		June - 2017				
		IM Adjustment		Usage		Collections
Line No.		($ per therm)	x	(therms)	=	($)
1	Residential (301)	0.13124		2,536,235		332,855.48
2	Small Commerical (302)	0.11465		2,133,039		244,552.92
3	Medium Commerical (352)	0.11465		651,111		74,649.88
4	Experimental Motor Vehicle Fuel (343/352)	0.11465		5,732		657.17
5	Firm Lg General Sales (303)	0.05092		297,734		15,160.62
6	Experimental Motor Vehicle Fuel (343/303)	0.05092		33,544		1,708.06
7	Firm Lg General Transportation (313)	0.05092		1,113,928		56,721.21
8	Experimental Motor Vehicle Fuel (343/313)	0.05092		132,954		6,770.02
9	Firm Resale (310)	0.05092		44		2.24
10	Interruptible Lg General Sales (304)	0.01273		35,179		447.83
11	Interruptible Lg General Transportation (314)	0.01273		6,560,964		83,521.07
12	**Total**					**$ 817,046.50**

Journal Entry: To Record Collections	
01 01 48010 3 17 6220 489	332,855.48
01 01 48110 3 17 6220 489	244,552.92
01 01 48110 3 17 6220 489	75,307.05
01 01 48120 3 17 6220 489	16,868.68
01 01 48900 3 17 6220 489	63,491.23
01 01 48300 3 17 6220 489	2.24
01 01 48120 3 17 6220 489	447.83
01 01 48900 3 17 6220 489	83,521.07
01 01 25351 3 17 6250 489	(817,046.50)
	-

Docket No. 17-00138
Integrity Management Rider
October 2017 Monthly Report

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 17-00138

IMR Monthly Report for Oct 2017
Schedule 1

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

		Current Vintage Year: Vintage Year 5			All Vintage Years
Line No.		October 2017 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of October 2017 [3]	Cumulative Capital Expenditure as of October 2017 [6]
	TN Direct				
1	Corrosion Control	$ 21,609.89	$ 555,076.03	$ 576,685.92	$ 5,773,649.81
2	Casing Remediation	$ -	$ 69,401.80	$ 69,401.80	$ 812,204.93
3	Distribution Integrity	$ 1,708,284.53	$ 23,382,449.09	$ 25,090,733.62	$ 54,068,467.79
4	Transmission Integrity	$ 759,094.10	$ 8,571,756.83	$ 9,330,850.93	$ 180,170,010.00
5	Total	$ 2,488,988.52	$ 32,578,683.75	$ 35,067,672.27	$ 240,824,332.53
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ 1,887,843.11	$ 17,502,634.81	$ 19,390,477.92	$ 131,330,403.45
7	TN % of CO-3 for Current Month [4]	16.30%			
8	Total Allocated to TN	$ 307,718.43	$ 2,868,862.48	$ 3,176,580.91	$ 23,119,493.42
9	Total Capital Expenditures [Line 5 + Line 8]	$ 2,796,706.95	$ 35,447,546.23	$ 38,244,253.18	$ 263,943,825.95
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 2,796,706.95**	**$ 35,447,546.23**	**$ 38,244,253.18**	**$ 231,043,825.95**

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 and 4, which captures amounts through 10/31/16, is $192,799,572.77 ($100,306,282.52 for Vintage Year 1, $53,974,676.19 for Vintage Year 2, $18,441,896.09 for Vintage Year 3 and $20,076,717.97 for Vintage Year 4).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 17-00138

IMR Monthly Report for Oct 2017
Schedule 2

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 2017
1	CORR-Corrosion Control	FP1734186	17	Nashville New Rectifier & Ground Be	191.35
2	CORR-Corrosion Control	FP1734388	17	Nashville MAG Anode 2017	21,418.54
3	DIMP-Distribution Integrity	FP1733603	17	Hogan Road - Main Replacement	(4,415.40)
4	DIMP-Distribution Integrity	FP1733763	17	Harding Place	41,754.39
5	DIMP-Distribution Integrity	FP1733764	17	Sunnyside Drive	84,317.65
6	DIMP-Distribution Integrity	FP1733767	17	Fesslers LN	87,500.63
7	DIMP-Distribution Integrity	FP1733931	17	Shelby Park RR Bridge Project	585,834.68
8	DIMP-Distribution Integrity	FP1734408	17	3rd and Hart Station Valves	55.11
9	DIMP-Distribution Integrity	FP1734411	17	Knapp Blvd	23,979.54
10	DIMP-Distribution Integrity	FP1734412	17	Vine Ridge Drive	137.29
11	DIMP-Distribution Integrity	FP1734414	17	Dreamland Drive Greenbrier Tn	355.00
12	DIMP-Distribution Integrity	FP1734415	17	Foster Ave	101,659.15
13	DIMP-Distribution Integrity	FP1734416	17	Sadler Ave and Fox Ave	32,192.30
14	DIMP-Distribution Integrity	FP1734417	17	Rayon Drive Renewal	803,117.94
15	DIMP-Distribution Integrity	FP1734418	17	Turner St Renewal	(766,269.40)
16	DIMP-Distribution Integrity	FP1734421	17	4th Ave South Insertion	123,078.36
17	DIMP-Distribution Integrity	FP1734422	17	Lynwood Blvd / Tyne Blvd _ DIM	76,630.37
18	DIMP-Distribution Integrity	FP1734431	17	Murfreesboro Road at ForestVie	58,081.47
19	DIMP-Distribution Integrity	FP1734478	17	3rd Ave North Steel Replacement	410,988.51
20	DIMP-Distribution Integrity	FP1734592	17	Elm Hill Pk Ext	342.04
21	DIMP-Distribution Integrity	FP1734647	17	Grassmere Park Road	5,718.01
22	DIMP-Distribution Integrity	FP1734672	17	12th Ave N at Grundy St.	30,289.56
23	DIMP-Distribution Integrity	FP1734726	17	Cowan St HP Distribution Pipeline	96.38
24	DIMP-Distribution Integrity	FP1734770	17	Ash Street and 2nd Ave S DIMP	12,448.10
25	DIMP-Distribution Integrity	FP1734808	17	Regulator Install for Shelby S	392.85
26	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	705,289.18
27	TIMP-Transmission Integrity	FP1734120	17	Line 311 Replacement	53,804.92
28	ISENP-Information Serv Enterprise	FP0026658	17	Work & Asset Management (OASIS)	1,887,843.11

	Total (unallocated)	**$ 4,376,831.63**
29	*subtotal: TN Direct (unallocated)*	*$ 2,488,988.52*
30	*subtotal: CO-3 (unallocated)*	*$ 1,887,843.11*
		$ 4,376,831.63

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 17-00138

IMR Monthly Report for Oct 2017
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. 25351

Line No.			Oct-17
1	Beginning Balance	*Prior Month's IMR Report*	$ 6,250,278.53
2	IMR Revenue Recognition	*Prior Annual IMR Report*	1,104,271.75
3	(Collections from IM Adjustment)	*see Separate Schedule*	(803,142.90)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	6,551,407.38
5	Average Balance	*(Line 1 + Line 4) /2*	6,400,842.96
6	Accrued Interest	*Line 5 * Line 9*	22,454.16
7	Ending Balance After Interest	*Line 4 + Line 6*	$ 6,573,861.54
8	Applicable Annual Interest Rate	*same as for ACA*	0.042100
9	Monthly Interest Rate	*Line 8 / 12*	0.003508
10	Actual GL #25351 EOM Balance	*per GL*	$ 6,573,861.54
11	Variance	*Line 7 - Line 10*	$ -

Journal Entry: To Record Revenue

01 01 25351 3 17 6250 489	1,104,271.75
01 01 48010 3 17 6220 489	(658,631.84)
01 01 48110 3 17 6220 489	(344,532.78)
01 01 48120 3 17 6220 489	(14,896.63)
01 01 48300 3 17 6220 489	(309.20)
01 01 48900 3 17 6220 489	(85,901.30)

Journal Entry: To Record Interest

01 01 25351 3 17 6250 626	22,454.16
01 01 43101 3 17 6220 626	(22,454.16)

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 17-00138

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

Line No.		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
		October - 2017				
1	Residential (301)	0.13124		2,232,784		293,030.57
2	Small General Service (302)	0.11465		2,061,359		236,334.81
3	Medium General Service (352)	0.11465		721,127		82,677.21
4	Experimental Motor Vehicle Fuel (343/352)	0.11465		3,239		371.35
5	Firm Lg General Sales (303)	0.05092		422,456		21,511.46
6	Experimental Motor Vehicle Fuel (343/303)	0.05092		30,162		1,535.85
7	Firm Lg General Transportation (313)	0.05092		1,527,253		77,767.72
8	Experimental Motor Vehicle Fuel (343/313)	0.05092		136,905		6,971.20
9	Firm Resale (310)	0.05092		551		28.06
10	Interruptible Lg General Sales (304)	0.01273		30,936		393.82
11	Interruptible Lg General Transportation (314)	0.01273		6,482,392		82,520.85
12	**Total**					**$ 803,142.90**

Journal Entry: To Record Collections

01 01 48010 3 17 6220 489	293,030.57
01 01 48110 3 17 6220 489	236,334.81
01 01 48110 3 17 6220 489	83,048.56
01 01 48120 3 17 6220 489	23,047.31
01 01 48900 3 17 6220 489	84,738.92
01 01 48300 3 17 6220 489	28.06
01 01 48120 3 17 6220 489	393.82
01 01 48900 3 17 6220 489	82,520.85
01 01 25351 3 17 6250 489	(803,142.90)
	-

Docket No. 17-00138
Integrity Management Rider
Revised Proposed Billing Rates for January 2018

PIEDMONT NATURAL GAS COMPANY, INC.
Tennessee Service Territory
Billing Rates Effective: January 1, 2018

Rate Schedule	Description	Tariff Rate Approved In Docket No. 11-00144 <1>	Cumulative PGA Demand <2>	Cumulative PGA Commodity <3>	Current Refund <4>	Current ACA Demand <5a>	Current ACA Commodity <5b>	Current IPA <6>	Current IM Adjustment <7>	Total Adj. Factor (Sum Col.2 thru Col.7) <8>	Proposed Billing Rate (Col.1+Col.8) <9>
	Monthly Charge-Nov.-Mar.	$17.45									$17.45
Residential	Monthly Charge-Apr.-Oct.	$13.45									$13.45
301	Nov.- Mar. per TH	0.32000	0.07577	0.30997	0.00000	(0.00398)	0.02593	0.00508	0.16057	0.57334	0.89334
301	Apr.- Oct. per TH	0.27000	0.07577	0.30997	0.00000	(0.00398)	0.02593	0.00508	0.16057	0.57334	0.84334
Small General	Monthly Charge	$44.00									$44.00
302	Nov.- Mar. per TH	0.35400	0.07577	0.30997	0.00000	(0.00398)	0.02593	0.00508	0.14027	0.55304	0.90704
302	Apr.- Oct. per TH	0.30000	0.07577	0.30997	0.00000	(0.00398)	0.02593	0.00508	0.14027	0.55304	0.85304
Medium General	Monthly Charge	$225.00									$225.00
352	Nov.- Mar. per TH	0.35400	0.07577	0.30997	0.00000	(0.00398)	0.02593	0.00508	0.14027	0.55304	0.90704
352	Apr.- Oct. per TH	0.30000	0.07577	0.30997	0.00000	(0.00398)	0.02593	0.00508	0.14027	0.55304	0.85304
Experimental Motor Vehicle Fuel	Monthly Charge			varies by customer per their corresponding rate schedule							
343	Nov.- Mar. per TH			varies by customer per their corresponding rate schedule							
343	Apr.- Oct. per TH			varies by customer per their corresponding rate schedule							
303	Monthly Charge	$800.00									$800.00
Firm	Demand Charge per TH	0.80000	0.82829		0.00000	(0.05401)				0.77428	1.57428
General Sales	First 15,000 TH/TH	0.09682		0.30997	0.00000		0.02593	0.00508	0.06230	0.40328	0.50010
	Next 25,000 TH/TH	0.08953		0.30997	0.00000		0.02593	0.00508	0.06230	0.40328	0.49281
	Next 50,000 TH/TH	0.06450		0.30997	0.00000		0.02593	0.00508	0.06230	0.40328	0.46778
	Over 90,000 TH/TH	0.02764		0.30997	0.00000		0.02593	0.00508	0.06230	0.40328	0.43092
304	Monthly Charge	$800.00									$800.00
Interruptible	First 15,000 TH/TH	0.09682		0.30997	0.00000		0.02593	0.00508	0.01557	0.35655	0.45337
General Sales	Next 25,000 TH/TH	0.08953		0.30997	0.00000		0.02593	0.00508	0.01557	0.35655	0.44608
	Next 50,000 TH/TH	0.06450		0.30997	0.00000		0.02593	0.00508	0.01557	0.35655	0.42105
	Over 90,000 TH/TH	0.02764		0.30997	0.00000		0.02593	0.00508	0.01557	0.35655	0.38419
313	Monthly Charge	$800.00									$800.00
Firm	Demand Charge per TH	0.80000	0.82829		0.00000	(0.05401)				0.77428	1.57428
Transportation	First 15,000 TH/TH	0.09682			0.00000				0.06230	0.06230	0.15912
	Next 25,000 TH/TH	0.08953			0.00000				0.06230	0.06230	0.15183
	Next 50,000 TH/TH	0.06450			0.00000				0.06230	0.06230	0.12680
	Over 90,000 TH/TH	0.02764			0.00000				0.06230	0.06230	0.08994
314	Monthly Charge	$800.00									$800.00
Interruptible	First 15,000 TH/TH	0.09682			0.00000				0.01557	0.01557	0.11239
Transportation	Next 25,000 TH/TH	0.08953			0.00000				0.01557	0.01557	0.10510
	Next 50,000 TH/TH	0.06450			0.00000				0.01557	0.01557	0.08007
	Over 90,000 TH/TH	0.02764			0.00000				0.01557	0.01557	0.04321
310	Demand Charge per TH	0.80000	0.82829		0.00000	(0.05401)				0.77428	1.57428
Resale Service	Commodity Charge	0.09000		0.30997	0.00000		0.02593	0.00508	0.06230	0.40328	0.49328

NOTES:

1/ In accordance with the Tennessee Public Service Commission order in Docket U-7074 customers metered inside Davidson County are required to pay an additional 6.61% for collection of the Metro Franchise Fee. Customers served by the Ashland City, Fairview, Greenbrier, Hartsville, Mt. Juliet and White House systems are required to pay 5.0%. Customers served by the Franklin and Nolensville systems are required to pay 3%.

Docket No. 17-00138
Integrity Management Rider
2017 Annual Report
Revised Schedules

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 17-00138

2017 IMR Annual Report
Schedule 1

Schedule of Journal Entries Related to the Integrity Management Rider for the Previous Twelve Months (November 2016 thru October 2017)
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. 25351

Line No.			Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17
1	Beginning Balance	*Prior Month's IMR Report*	$ 1,443,288.57	$ 2,412,578.11	$ 2,852,263.29	$ 3,406,967.94	$ 4,546,793.18	$ 5,342,560.25	$ 5,758,040.03	$ 5,940,861.38	$ 5,968,422.37	$ 6,059,263.95	$ 6,179,593.07	$ 6,250,278.53
2	IMR Revenue Recognition	*Prior Annual IMR Report*	1,851,810.38	2,948,059.87	3,968,987.70	3,776,922.54	2,851,853.96	1,842,916.11	1,166,798.45	826,224.16	769,291.10	775,305.08	776,117.09	1,104,271.75
3	(Collections from IM Adjustment)	*see Separate Schedule*	(888,136.43)	(2,516,042.28)	(3,423,398.84)	(2,648,680.97)	(2,070,489.51)	(1,444,571.37)	(1,002,035.68)	(817,046.50)	(698,262.51)	(675,136.81)	(725,907.13)	(803,142.90)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	2,406,962.52	2,844,595.70	3,397,852.15	4,535,209.51	5,328,157.63	5,740,904.99	5,922,802.80	5,950,039.04	6,039,450.96	6,159,432.22	6,229,803.03	6,551,407.38
5	Average Balance	*(Line 1 + Line 4) /2*	1,925,125.55	2,628,586.91	3,125,057.72	3,971,088.73	4,937,475.41	5,541,732.62	5,840,421.42	5,945,450.21	6,003,936.67	6,109,348.09	6,204,698.05	6,400,842.96
6	Accrued Interest	*Line 5 * Line 9*	5,615.59	7,667.59	9,115.79	11,583.67	14,402.62	17,135.04	18,058.58	18,383.33	19,812.99	20,160.85	20,475.50	22,454.16
7	Ending Balance After Interest	*Line 4 + Line 6*	$ 2,412,578.11	$ 2,852,263.29	$ 3,406,967.94	$ 4,546,793.18	$ 5,342,560.25	$ 5,758,040.03	$ 5,940,861.38	$ 5,968,422.37	$ 6,059,263.95	$ 6,179,593.07	$ 6,250,278.53	$ 6,573,861.54
8	Applicable Annual Interest Rate	*same as for ACA*	0.035000	0.035000	0.035000	0.035000	0.035000	0.037100	0.037100	0.037100	0.039600	0.039600	0.039600	0.042100
9	Monthly Interest Rate	*Line 8 / 12*	0.002917	0.002917	0.002917	0.002917	0.002917	0.003092	0.003092	0.003092	0.003300	0.003300	0.003300	0.003508
10	Actual GL #25351 EOM Balance	*per GL*	$ 2,412,578.11	$ 2,852,263.29	$ 3,108,704.45	$ 3,963,829.57	$ 5,342,560.25	$ 5,758,040.03	$ 5,940,861.38	$ 5,968,422.37	$ 6,059,263.95	$ 6,179,593.07	$ 6,250,278.53	$ 6,573,861.54
11	Variance	*Line 7 - Line 10*	$ -	$ -	$ 298,263.49	$ 582,963.61	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Journal Entry: To Record Revenue	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17
01 01 25351 3 17 6250 489	1,851,810.38	2,948,059.87	3,968,987.70	3,776,922.54	2,851,853.96	1,842,916.11	1,166,798.45	826,224.16	769,291.10	775,305.08	776,117.09	1,104,271.75
01 01 48010 3 17 6220 489	(1,104,493.78)	(1,758,340.83)	(2,367,263.02)	(2,252,707.68)	(1,700,959.78)	(1,099,188.88)	(695,925.27)	(492,793.14)	(458,835.98)	(462,422.96)	(462,907.28)	(658,631.84)
01 01 48110 3 17 6220 489	(578,005.57)	(920,177.93)	(1,238,324.16)	(1,178,399.83)	(889,778.43)	(574,989.83)	(364,041.12)	(257,781.94)	(240,018.82)	(241,895.18)	(242,148.54)	(344,532.78)
01 01 48120 3 17 6220 489	(24,740.19)	(39,386.08)	(53,541.65)	(50,950.69)	(38,471.51)	(24,860.94)	(15,740.11)	(11,145.76)	(10,377.74)	(10,458.87)	(10,469.82)	(14,896.63)
01 01 48300 3 17 6220 489	(518.51)	(825.46)	(1,111.32)	(1,057.54)	(798.52)	(516.02)	(326.70)	(231.34)	(215.40)	(217.09)	(217.31)	(309.20)
01 01 48900 3 17 6220 489	(144,052.33)	(229,329.57)	(308,747.55)	(293,806.80)	(221,845.72)	(143,360.44)	(90,765.25)	(64,271.98)	(59,843.16)	(60,310.98)	(60,374.14)	(85,901.30)
	-											

Journal Entry: To Record Interest	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17
01 01 25351 3 17 6250 626	5,615.59	7,667.59	9,115.79	11,583.67	14,402.62	17,135.04	18,058.58	18,383.33	19,812.99	20,160.85	20,475.50	22,454.16
01 01 43101 3 17 6220 626	(5,615.59)	(7,667.59)	(9,115.79)	(11,583.67)	(14,402.62)	(17,135.04)	(18,058.58)	(18,383.33)	(19,812.99)	(20,160.85)	(20,475.50)	(22,454.16)

[illegible]

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 17-00138

2017 IMR Annual Report
REVISED - Schedule 3

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 2018 -Dec 31 2018						
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]	$ 13,950,563	$ 7,297,742	$ 1,156,936	$ 984,507	**$ 23,389,748**
3	Deferred Account Adjustment Due From (To) Customers	Actual Deferred Account Balance at Oct 31, 2017	$ 3,920,909	$ 2,051,084	$ 325,165	$ 276,703	**$ 6,573,862**
4	Total Amount for Recovery in this Rider	[= Line 2 + Line 3]	$ 17,871,472	$ 9,348,827	$ 1,482,101	$ 1,261,210	**$ 29,963,610**
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]	$1.60570	$1.40270	$0.62300	$0.15570	
7	**Proposed Integrity Management Rate per therm**	[= Line 6 / 10]	**$0.16057**	**$0.14027**	**$0.06230**	**$0.01557**	
	As previously approved:						
	Jan 1 2017 -Dec 31 2017						
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 of 2016 Annual Report x Line 8]	$ 13,746,705	$ 7,191,101	$ 1,140,029	$ 970,121	$ 23,047,956
10	Deferred Account Adjustment	Actual Deferred Account Balance at Oct 31, 2016	$ 860,834	$ 450,315	$ 71,390	$ 60,750	$ 1,443,289
11	Total Amount for Recovery in this Rider	[= Line 9 + Line 10]	$ 14,607,539	$ 7,641,416	$ 1,211,419	$ 1,030,871	$ 24,491,245
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 11 / Line 12]	$1.31240	$1.14650	$0.50920	$0.12730	
14	Proposed Integrity Management Rate per therm	[= Line 13 / 10]	$0.13124	$0.11465	$0.05092	$0.01273	

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 17-00138

2017 IMR Annual Report
Schedule 4

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)	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Total**
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. 17-00138

Summary of IMRR Computation

Line No.	Vintage Year	Rate Period Jan 1 2017 - Dec 31 2017	Rate Period Jan 1 2018 - Dec 31 2018
1	Vintage 1	$ 13,060,485	$ 11,053,279
2	Vintage 2	5,781,344	4,922,199
3	Vintage 3	1,984,957	1,723,556
4	Vintage 4	2,221,171	1,924,902
5	Vintage 5	n/a	3,765,812
6	Total	23,047,956	23,389,748
7	**Total IMRR, excluding IM Deferred Account Adjustment**	**$ 23,047,956**	**$ 23,389,748**
	Spread of Total IMRR, excluding IM Deferred Adjustment, by Month		
8	January	$ 3,968,988	$ 4,027,846
9	February	3,776,923	3,832,933
10	March	2,851,854	2,894,146
11	April	1,842,916	1,870,246
12	May	1,166,798	1,184,102
13	June	826,224	838,477
14	July	769,291	780,699
15	August	775,305	786,803
16	September	776,117	787,627
17	October	1,104,272	1,120,648
18	November	2,002,042	2,031,731
19	December	3,187,226	3,234,492
20	Total	**$ 23,047,956**	**$ 23,389,748**

Piedmont Natural Gas Company, Inc
Integrity Management Rider
State of Tennessee
TPUC Docket No. 17-00138

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2018 - December 31, 2018

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

	Year 1	Year 2	Year 3	Year 4	Year 5
Plant	100,306,283	100,306,283	100,306,283	100,306,283	100,306,283
Accumulated depreciation	(974,476)	(2,428,917)	(3,883,358)	(5,337,799)	(6,792,240)
Net plant	99,331,807	97,877,366	96,422,925	94,968,484	93,514,043
ADIT	(4,057,566)	(6,977,762)	(9,549,872)	(24,529,845)	(25,236,573)
ADIT benefit				24,529,845	21,449,590
Net investment	95,274,242	90,899,604	86,873,053	94,968,484	89,727,060
Pre-tax ROR%	11.446%	11.446%	11.446%	11.446%	9.878%
Pre tax rate of return	10,904,787	10,404,675	9,943,304	10,869,786	8,863,158
Depreciation expense	1,454,441	1,454,441	1,454,441	1,454,441	1,454,441
Property Tax expense	732,236	732,236	732,236	732,236	732,236
Total, excluding uncollectibles	13,091,459	12,590,752	12,129,986	13,056,463	11,049,835
Uncollectibles gross-up factor	1.000308	1.000308	1.000308	1.000308	1.000308
Total revenue requirement	13,095,492	12,594,631	12,133,723	13,060,485	11,053,279

Assumptions and calculations
Rider computed each year
Normal depreciation and AFUDC practices apply, AFUDC ends and depreciation begins when plant goes into service.

	Year 1	Year 2	Year 3	Year 4	Year 5
Net of tax rate of return	6.96%	6.96%	6.96%	6.96%	7.30%

		Year 1	Year 2	Year 3	Year 4	Year 5
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 - 5					
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%
FIT rate		35.00%	35.00%	35.00%	35.00%	21.00%
Composite income tax rate		39.23%	39.23%	39.23%	39.23%	26.14%
Uncollectibles rate		0.0308%	0.0308%	0.0308%	0.0308%	0.0308%
Revenue requirement gross up factor		1.000308	1.000308	1.000308	1.000308	1.000308
Capital structure assumptions (rate case)						
LTD	41.42%					
STD	5.87%					
Common equity	52.71%					
Capital cost rate assumptions (rate case)						
LTD	6.05%					
STD	1.59%					
Common equity	10.20%					
Overall and pre-tax RORs						
	Overall	Pre-tax RORs				
LTD	2.506%	2.506%	2.506%	2.506%	2.506%	2.506%
STD	0.093%	0.093%	0.093%	0.093%	0.093%	0.093%
Common equity	5.376%	8.846%	8.846%	8.846%	8.846%	7.279%
Total	7.976%	11.446%	11.446%	11.446%	11.446%	9.878%

Tax depreciation schedule

	Rate	MACRS 15 Yearly	MACRS 15 Cumulative	BONUS 50% Yearly	BONUS 50% 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%	6,951,325	37,795,507	3,475,613	69,050,845
Tax year 6	6.23%	6,249,081	44,044,589	3,124,541	72,175,386
Tax year 7	5.90%	5,918,071	49,962,660	2,959,035	75,134,421
Tax year 8	5.90%	5,918,071	55,880,732	2,959,035	78,093,457
Tax year 9	5.91%	5,928,101	61,808,832	2,964,051	81,057,507
Tax year 10	5.90%	5,918,071	67,726,903	2,959,035	84,016,543
Tax year 11	5.91%	5,928,101	73,654,004	2,964,051	86,980,593
Tax year 12	5.90%	5,918,071	79,572,075	2,959,035	89,939,629
Tax year 13	5.91%	5,928,101	85,500,176	2,964,051	92,903,679
Tax year 14	5.90%	5,918,071	91,418,246	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	

		Year 1	Year 2	Year 3	Year 4	Year 5
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
Depreciation expense		1,454,441	1,454,441	1,454,441	1,454,441	1,454,441
Rider year EOY amount		1,701,696	3,156,137	4,610,578	6,065,019	7,519,461
Average accumulated depreciation		974,476	2,428,917	3,883,358	5,337,799	6,792,240

MACRS 15

		Year 1	Year 2	Year 3	Year 4	Year 5
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	32,025,899	38,657,751
Tax period A tax depreciation		7,909,150	7,118,235	6,410,575	5,769,517	5,186,738
Tax period B tax depreciation		1,457,952	1,313,009	1,181,708	1,062,344	1,006,072
Rider year EOY amount		16,002,363	24,433,607	32,025,890	38,857,751	45,050,561
Average tax depreciation reserve		11,318,812	20,217,985	28,229,749	35,441,821	41,954,156

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

	Year 1	Year 2	Year 3	Year 4	Year 5
Accumulated deferred taxes					
Average tax depreciation reserve	11,318,812	20,217,985	28,229,749	35,441,821	41,954,156
Average book depreciation reserve	974,476	2,428,917	3,883,358	5,337,799	6,792,240
Difference	10,344,336	17,789,069	24,346,391	30,104,022	35,161,916
Composite tax rate w 35% FIT rate	39.23%	39.23%	39.23%	39.23%	39.23%
Average ADIT	4,057,566	6,977,762	9,549,872	11,808,303	13,792,267

Note - composite tax rate ignores excess deferred tax flowback

BONUS 50%

		Year 1	Year 2	Year 3	Year 4	Year 5
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
Tax period A tax depreciation		3,954,575	3,559,118	3,205,387	2,884,759	2,593,369
Tax period B tax depreciation		728,976	656,505	590,854	531,172	503,036
Rider year EOY amount		58,154,323	62,369,945	66,166,087	69,582,017	72,678,422
Average tax depreciation reserve		55,812,547	60,262,134	64,268,016	67,874,052	71,130,220

	Year 1	Year 2	Year 3	Year 4	Year 5
Accumulated deferred taxes					
Average tax depreciation reserve	55,812,547	60,262,134	64,268,016	67,874,052	71,130,220
Average book depreciation reserve	974,476	2,428,917	3,883,358	5,337,799	6,792,240
Difference	54,838,072	57,833,217	60,384,658	62,536,253	64,337,980
Tax difference balance	54,838,072	57,833,217	60,384,658	62,536,253	64,337,980
Composite tax rate w 35% FIT rate	39.23%	39.23%	39.23%	39.23%	39.23%
Average ADIT	21,510,734	22,685,060	23,685,887	24,529,845	25,236,577

Piedmont Natural Gas Company, Inc
Integrity Management Rider
State of Tennessee
TPUC Docket No. 17-00138

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2018 - December 31, 2018

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

	Year 1	Year 2	Year 3	Year 4
Plant	53,974,676	53,974,676	53,974,676	53,974,676
Accumulated depreciation	(524,364)	(1,306,997)	(2,089,630)	(2,872,262)
Net plant	53,450,312	52,667,679	51,885,047	51,102,414
ADIT	(2,183,371)	(3,756,724)	(12,745,343)	(13,194,477)
NOL benefit			1,075,631	
Net investment	51,266,941	48,910,955	40,215,335	37,907,937
Pre-tax ROR%	11.446%	11.446%	11.446%	9.878%
Pre-tax rate of return	5,867,848	5,598,419	4,602,935	3,744,035
Depreciation expense	782,633	782,633	782,633	782,633
Property Tax expense	394,015	394,015	394,015	394,015
Total, excluding uncollectibles	7,044,496	6,775,067	5,779,583	4,920,683
Uncollectibles gross-up factor	1.000304	1.000304	1.000304	1.000304
Total revenue requirement	7,046,647	6,777,134	5,781,344	4,922,179

Assumptions and calculations
Rider computed each year
Normal depreciation and AFUDC practices apply, AFUDC ends and depreciation begins when plant goes into service

	Year 1	Year 2	Year 3	Year 4
Net of tax rate of return	6.96%	6.96%	6.96%	7.30%

		Year 1	Year 2	Year 3	Year 4
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 - 4				
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%
FIT rate		35.00%	35.00%	35.00%	21.00%
Composite income tax rate		39.23%	39.23%	39.23%	26.14%
Uncollectibles rate		0.0304%	0.0304%	0.0304%	0.0304%
Revenue requirement gross up factor		1.000304	1.000304	1.000304	1.000304
Capital structure assumptions (rate case)					
LTD	41.42%				
STD	5.87%				
Common equity	52.71%				
Capital cost rate assumptions (rate case)					
LTD	6.05%				
STD	1.59%				
Common equity	10.20%				
Overall and pre-tax RORs					
	Overall	Pre-tax RORs			
LTD	2.506%	2.506%	2.506%	2.506%	2.506%
STD	0.093%	0.093%	0.093%	0.093%	0.093%
Common equity	5.376%	8.846%	8.846%	8.846%	7.279%
Total	7.976%	11.446%	11.446%	11.446%	9.878%

Tax depreciation schedule

	Rate	MACRS 15 Yearly	MACRS 15 Cumulative	BONUS 50% Yearly	BONUS 50% 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	1,870,222	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	

		Year 1	Year 2	Year 3	Year 4
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
Depreciation expense		782,633	782,633	782,633	782,633
Rider year EOY amount		915,680	1,698,313	2,480,946	3,263,579
Average accumulated Depreciation		524,364	1,306,997	2,089,630	2,872,262

MACRS 15

		Year 1	Year 2	Year 3	Year 4
Tax depreciation reserve					
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
Tax period A tax depreciation		4,255,903	3,830,323	3,449,522	3,104,569
Tax period B tax depreciation		784,522	706,529	635,876	571,646
Rider year EOY amount		8,610,850	13,147,691	17,233,089	20,909,304
Average tax depreciation reserve		6,090,637	10,879,271	15,190,390	19,071,196

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

	Year 1	Year 2	Year 3	Year 4
Accumulated deferred taxes				
Average tax depreciation reserve	6,090,637	10,879,271	15,190,390	19,071,196
Average book depreciation reserve	524,364	1,306,997	2,089,630	2,872,262
Difference	5,566,273	9,572,274	13,100,760	16,198,934
Composite tax rate w 35% FIT rate	39.23%	39.23%	39.23%	39.23%
Average ADIT	2,183,371	3,756,724	5,138,773	6,356,032

Note - composite tax rate ignores excess deferred tax flowback

BONUS 50%

		Year 1	Year 2	Year 3	Year 4
Tax depreciation reserve					
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	31,292,765	33,561,184	35,603,882
Tax period A tax depreciation		2,127,957	1,915,156	1,724,761	1,552,285
Tax period B tax depreciation		392,261	353,264	317,938	285,823
Rider year EOY amount		31,292,765	33,561,184	35,603,882	37,441,990
Average tax depreciation reserve		30,032,657	32,426,973	34,582,533	36,522,936

	Year 1	Year 2	Year 3	Year 4
Accumulated deferred taxes				
Average tax depreciation reserve	30,032,657	32,426,973	34,582,533	36,522,936
Average book depreciation reserve	524,364	1,306,997	2,089,630	2,872,262
Difference	29,508,293	31,119,977	32,492,903	33,650,674
Tax difference balance	29,508,293	31,119,977	32,492,903	33,650,674
Composite tax rate w 35% FIT rate	39.23%	39.23%	39.23%	39.23%
Average ADIT	11,574,628	12,206,817	12,745,343	13,199,477

Piedmont Natural Gas Company, Inc
Integrity Management Rider
State of Tennessee
TPUC Docket No. 17-00138

Annual Revenue Requirement Computation
Rider Rate Period - January 1, 2018 - December 31, 2018

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

	Year 1	Year 2	Year 3
Plant	18,441,896	18,441,896	18,441,896
Accumulated depreciation	(179,163)	(446,571)	(713,978)
Net plant	18,262,733	17,995,325	17,727,918
ADIT	(746,007)	(4,170,784)	(4,354,788)
ADIT benefit			
Net investment	17,516,726	13,824,541	13,373,130
Pre-tax ROR%	11.446%	11.446%	9.878%
Pre-tax rate of return	2,004,908	1,582,312	1,320,997
Depreciation expense	267,407	267,407	267,407
Property Tax expense	134,626	134,626	134,626
Total, excluding uncollectibles	2,406,941	1,984,346	1,723,029
Uncollectibles gross-up factor	1.000308	1.000308	1.000304
Total revenue requirement	2,407,683	1,984,957	1,723,556

Assumptions and calculations:
Rider computed each year
Normal depreciation and AFUDC practices apply. AFUDC ends and depreciation begins when plant goes into service

	Year 1	Year 2	Year 3
Net of tax rate of return	6.96%	6.96%	7.32%

		Year 1	Year 2	Year 3
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 - 3			
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%
FIT rate		35.00%	35.00%	21.00%
Composite income tax rate		39.23%	39.23%	26.14%
Uncollectibles rate		0.0308%	0.0308%	0.0304%
Revenue requirement gross-up factor		1.000308	1.000308	1.000304
Capital structure assumptions (rate case):				
LTD	41.42%			
STD	5.87%			
Common equity	52.71%			
Capital cost rate assumptions (rate case):				
LTD	6.04%			
STD	1.59%			
Common equity	10.20%			
Overall and pre-tax RORs				
	Overall	Pre-tax RORs		
LTD	2.502%	2.502%	2.502%	2.502%
STD	0.093%	0.093%	0.093%	0.093%
Common equity	5.376%	8.846%	8.846%	7.279%
Total	7.976%	11.446%	11.446%	9.878%

Tax depreciation schedule

		MACRS 15		BONUS 50%	
	Rate	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	12,695,402
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
Accumulated depreciation				
Portion of year in service before rider	17%			
Pre rider amount of depreciation	45,459			
Rider year SOY amount		45,459	312,867	580,274
Depreciation expense		267,407	267,407	267,407
Rider year EOY amount		312,867	580,274	847,681
Average accumulated depreciation		179,163	446,571	713,978

MACRS 15

Tax depreciation reserve		Year 1	Year 2	Year 3
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 SOY amount		1,219,931	2,942,128	4,492,261
Tax period A tax depreciation		1,454,144	1,308,729	1,178,622
Tax period B tax depreciation		268,053	241,404	217,264
Rider year EOY amount		2,942,128	4,492,261	5,888,147
Average tax depreciation reserve		2,081,030	3,717,195	5,190,204

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

Accumulated deferred taxes	Year 1	Year 2	Year 3
Average tax depreciation reserve	2,081,030	3,717,195	5,190,204
Average book depreciation reserve	179,163	446,571	713,978
Difference	1,901,867	3,270,624	4,476,226
Composite tax rate w 35% FIT rate	39.23%	39.23%	39.23%
Average ADIT	746,007	1,282,909	1,755,890

Note - composite tax rate ignores excess deferred tax flowback

BONUS 50%

Tax depreciation reserve		Year 1	Year 2	Year 3
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 SOY amount		9,830,914	10,692,012	11,467,079
Tax period A tax depreciation		727,077	654,365	589,311
Tax period B tax depreciation		134,026	120,702	108,632
Rider year EOY amount		10,692,012	11,467,079	12,165,022
Average tax depreciation reserve		10,261,463	11,079,545	11,816,050

Accumulated deferred taxes	Year 1	Year 2	Year 3
Average tax depreciation reserve	10,261,463	11,079,545	11,816,050
Average book depreciation reserve	179,163	446,571	713,978
Difference	10,082,300	10,632,975	11,102,072
Tax difference balance	10,082,300	10,632,975	11,102,072
Composite tax rate w 35% FIT rate	39.23%	39.23%	39.23%
Average ADIT	3,954,782	4,170,784	4,354,788

Piedmont Natural Gas Company, Inc
Integrity Management Rider
State of Tennessee
TPUC Docket No. 17-00138

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2018 - December 31, 2018

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

	Year 1	Year 2
Plant	20,076,718	20,076,718
Accumulated depreciation	(195,045)	(486,158)
Net plant	19,881,673	19,590,560
ADIT	(4,305,362)	(4,540,513)
NOL benefit		
Net investment	15,576,310	15,050,048
Pre-tax ROR	11.446%	9.878%
Pre-tax rate of return	1,782,856	1,486,637
Depreciation expense	291,112	291,112
Property tax expense	146,560	146,560
Total, excluding uncollectibles	2,220,487	1,924,309
Uncollectibles gross up factor	1.000328	1.000324
Total revenue requirement	2,221,171	1,924,902

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 6.96% 7.50%

		Year 1	Year 2
Plant amount	20,076,718		
Book depreciation rate	1.45%		
Property Tax Rate	0.73%		
Tax depreciation	BONUS 50% Years 1 - 2		
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%
FIT rate		35.00%	21.00%
Composite income tax rate		39.23%	26.14%
Uncollectibles rate		0.0328%	0.0324%
Revenue requirement gross up factor		1.000328	1.000324
Capital structure assumptions (rate case)			
LTD	41.42%		
STD	5.87%		
Common equity	52.71%		
Capital cost rate assumptions (rate case)			
LTD	6.05%		
STD	1.59%		
Common equity	10.20%		
Overall and pre-tax RORs			
	Overall	Pre-tax RORs	
LTD	2.506%	2.506%	2.506%
STD	0.093%	0.093%	0.093%
Common equity	5.376%	8.846%	7.279%
Total	7.976%	11.446%	9.878%

MACRS 15 tax depreciation schedule

	Rate	MACRS 15 Yearly	MACRS 15 Cumulative	BONUS 50% Yearly	BONUS 50% Cumulative
Tax year 1	5.00%	1,003,836		10,540,277	
Tax year 2	9.50%	1,907,288	2,911,124	953,644	11,493,921
Tax year 3	8.55%	1,716,559	4,627,683	858,280	12,352,201
Tax year 4	7.70%	1,545,907	6,173,591	772,954	13,125,154
Tax year 5	6.93%	1,391,317	7,564,907	695,658	13,820,813
Tax year 6	6.23%	1,250,780	8,815,687	625,390	14,446,202
Tax year 7	5.90%	1,184,526	10,000,213	592,263	15,038,466
Tax year 8	5.90%	1,184,526	11,184,740	592,263	15,630,729
Tax year 9	5.91%	1,186,534	12,371,274	593,267	16,223,996
Tax year 10	5.90%	1,184,526	13,555,800	592,263	16,816,259
Tax year 11	5.91%	1,186,534	14,742,334	593,267	17,409,526
Tax year 12	5.90%	1,184,526	15,926,860	592,263	18,001,789
Tax year 13	5.91%	1,186,534	17,113,394	593,267	18,595,056
Tax year 14	5.90%	1,184,526	18,297,921	592,263	19,187,319
Tax year 15	5.91%	1,186,534	19,484,455	593,267	19,780,586
Tax year 16	2.95%	592,263	20,076,718	296,132	20,076,718
Total	100.00%	20,076,718		20,076,718	

		Year 1	Year 2
Accumulated depreciation			
Portion of year in service before rider	17%		
Prior year amount of depreciation	49,489		
Rider year BOY amount		49,489	340,602
Depreciation expense		291,112	291,112
Rider year EOY amount		340,602	631,714
Average accumulated depreciation		195,045	486,158

MACRS 15		Year 1	Year 2
Tax depreciation reserve			
FY of completion tax depreciation	1,003,836		
Post FY tax depreciation to rider date	17%		
Tax year 2 tax depreciation	1,907,288		
Tax year 2 pre-rider tax depr	324,239		
Rider year BOY amount		1,328,075	3,202,939
Tax period A tax depreciation		1,583,049	1,424,744
Tax period B tax depreciation		291,815	262,856
Rider year EOY amount		3,202,939	4,890,488
Average tax depreciation reserve		2,265,507	4,046,713

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

Accumulated deferred taxes	Year 1	Year 2
Average tax depreciation reserve	2,265,507	4,046,713
Average book depreciation reserve	195,045	486,158
Difference	2,070,462	3,560,556
Composite tax rate w 35% FIT rate	39.23%	39.23%
Average ADIT	812,139	1,396,628

Note - composite tax rate ignores excess deferred tax flowback

BONUS 50%		Year 1	Year 2
Tax depreciation reserve			
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
Tax period A tax depreciation		791,525	722,372
Tax period B tax depreciation		145,908	121,402
Rider year EOY amount		11,639,829	12,483,603
Average tax depreciation reserve		11,171,113	12,061,716

Accumulated deferred taxes	Year 1	Year 2
Average tax depreciation reserve	11,171,113	12,061,716
Average book depreciation reserve	195,045	486,158
Difference	10,976,067	11,575,558
Tax difference balance	10,976,067	11,575,558
Composite tax rate w 35% FIT rate	39.23%	39.23%
Average ADIT	4,305,367	4,540,513

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 17-00118

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2018 - December 31, 2018

Vintage Year 3 - November 1, 2016 thru October 31, 2017

	Year 1
Plant	38,244,253
Accumulated depreciation	(371,543)
Net plant	37,872,710
ADIT	(8,201,309)
NOL benefit	
Net investment	29,671,401
Pre-tax ROR%	9.878%
Pre-tax rate of return	2,930,877
Depreciation expense	554,542
Property tax expense	279,183
Total, excluding uncollectibles	[illegible]
Uncollectibles gross-up factor	1.003308
Total revenue requirement	[illegible]

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 7.50%

		Year 1
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%
FIT rate		21.00%
Composite income tax rate		26.14%
Uncollectibles rate		0.0908%
Revenue requirement gross up factor		1.003308
Capital structure assumptions (rate case):		
LTD	41.43%	
STD	5.87%	
Common equity	52.71%	
Capital cost rate assumptions (rate case):		
LTD	6.05%	
STD	1.59%	
Common equity	10.20%	
Overall and pre-tax RORs		
	Overall	Pre-tax RORs
LTD	2.506%	2.506%
STD	0.093%	0.093%
Common equity	5.376%	7.279%
Total	7.976%	9.878%

MACRS 15 tax depreciation schedule

		MACRS 15		BONUS 50%	
	Rate	Yearly	Cumulative	Yearly	Cumulative
Tax year 1	5.00%	1,912,213		20,078,233	
Tax year 2	9.50%	3,633,204	5,545,417	1,816,602	21,894,835
Tax year 3	8.55%	3,269,884	8,815,300	1,634,942	23,529,777
Tax year 4	7.70%	2,944,807	11,760,108	1,472,404	25,002,181
Tax year 5	6.93%	2,650,327	14,410,435	1,325,163	26,327,344
Tax year 6	6.23%	2,382,617	16,793,052	1,191,308	27,518,652
Tax year 7	5.90%	2,256,411	19,049,463	1,128,205	28,646,858
Tax year 8	5.90%	2,256,411	21,305,873	1,128,205	29,775,063
Tax year 9	5.91%	2,260,235	23,566,109	1,130,118	30,905,181
Tax year 10	5.90%	2,256,411	25,822,520	1,128,205	32,033,386
Tax year 11	5.91%	2,260,235	28,082,755	1,130,118	33,163,504
Tax year 12	5.90%	2,256,411	30,339,166	1,128,205	34,291,710
Tax year 13	5.91%	2,260,235	32,599,401	1,130,118	35,421,827
Tax year 14	5.90%	2,256,411	34,855,812	1,128,205	36,550,033
Tax year 15	5.91%	2,260,235	37,116,048	1,130,118	37,680,150
Tax year 16	2.95%	1,128,205	38,244,253	564,103	38,244,253
Total	100.00%	38,244,253		38,244,253	

		Year 1
Accumulated Depreciation		
Portion of year in service before rider	17%	
Pre-rider amount of depreciation	94,272	
Rider year BOY amount		94,272
Depreciation expense		554,542
Rider year EOY amount		648,814
Average accumulated depreciation		371,543

MACRS 15		Year 1
Tax depreciation reserve		
FY of completion tax depreciation	1,912,213	
Post FY tax depreciation to rider date	17%	
Tax year 2 tax depreciation	3,633,204	
Tax year 2 pre-rider tax depr	617,645	
Rider year BOY amount		2,529,857
Tax period A tax depreciation		3,015,559
Tax period B tax depreciation		555,880
Rider year EOY amount		6,101,297
Average tax depreciation reserve		4,315,577

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

	Year 1
Accumulated deferred taxes	
Average tax depreciation reserve	4,315,577
Average book depreciation reserve	371,543
Difference	3,944,034
Composite tax rate w 35% FIT rate	39.23%
Average ADIT	1,547,247

Note: composite tax rate ignores excess deferred tax flowback

BONUS 50%		Year 1
Tax depreciation reserve		
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
Tax period A tax depreciation		1,507,780
Tax period B tax depreciation		277,940
Rider year EOY amount		22,172,775
Average tax depreciation reserve		21,279,915

	Year 1
Accumulated deferred taxes	
Average tax depreciation reserve	21,279,915
Average book depreciation reserve	371,543
Difference	20,908,372
Tax difference balance	20,908,372
Composite tax rate w 35% FIT rate	39.23%
Average ADIT	8,201,309

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 17-00138

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Tennessee Allocated NOL Carryforward As of November 30, 2017

Line No.				Line Computation
1	2013	Taxable Income	(20,072,959)	
2		Allocated NOL	(7,647,003)	
3	2014	Taxable Income	(70,327,409)	
4		Allocated NOL	(48,689,253)	
5	2015	Taxable Income	35,741,137	
6		Allocated NOL	-	
7	2016	Taxable Income	(7,598,842)	
8		Allocated NOL	(4,948,286)	
9	TN Allocated NOL Carryforward		(61,284,542)	Line 9 = Lines 2 + 4 + 6 + 8
10	Federal Tax Rate		0.35	
11	TN Tax Benefit of NOL Carryforward		(21,449,590)	Line 11 = Line 9 x Line 10

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 17-00138

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Schedule of Prior Period Adjustments

None

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.

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 16-00140 **USED FOR 2016 ANNU**

Tennessee Allocated NOL Carryforward

2013	Taxable Income	(20,072,959)
	Allocated NOL	(17,807,061)
2014	Taxable Income	(70,327,409)
	Allocated NOL	(48,689,253)
2015	Taxable Income	35,741,137
	Allocated NOL	-
2016	Taxable Income	(9,075,049)
	Allocated NOL	(6,662,131)
TN Allocated NOL Carryforward		(73,158,445)
TN Tax Benefit of NOL Carryforward		(25,605,456)

	ADIT	**NOL Benefit**
Vintage 1 - Year 4	(24,529,845)	24,529,845
Vintage 2 - Year 3	(12,745,341)	1,075,611
Vintage 3 - Year 2	(4,170,784)	-
Vintage 4 - Year 1	(4,305,362)	-

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

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

		Current Vintage Year: Vintage Year 5			All Vintage Years
Line No.		August 2017 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of August 2017 [3]	Cumulative Capital Expenditure as of August 2017 [6]
	TN Direct				
1	Corrosion Control	$ 38,525.03	$ 503,718.48	$ 542,243.51	$ 5,739,207.40
2	Casing Remediation	$ 36,092.60	$ 70,427.14	$ 106,519.74	$ 849,322.87
3	Distribution Integrity	$ 2,012,037.84	$ 19,248,916.53	$ 21,260,954.37	$ 50,238,688.54
4	Transmission Integrity	$ 868,007.09	$ 6,898,544.16	$ 7,766,551.25	$ 178,605,710.32
5	Total	$ 2,954,662.56	$ 26,721,606.31	$ 29,676,268.87	$ 235,432,929.13
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ 854,133.36	$ 15,957,939.27	$ 16,812,072.63	$ 128,751,998.16
7	TN % of CO-3 for Current Month [4]	16.30%			
8	Total Allocated to TN	$ 139,223.74	$ 2,617,077.10	$ 2,756,300.84	$ 22,699,213.35
9	Total Capital Expenditures [Line 5 + Line 8]	$ 3,093,886.30	$ 29,338,683.41	$ 32,432,569.71	$ 258,132,142.48
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 3,093,886.30**	**$ 29,338,683.41**	**$ 32,432,569.71**	**$ 225,232,142.48**

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 and 4, which captures amounts through 10/31/16, is $192,799,572.77 ($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).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	August 2017
1	CORR-Corrosion Control	FP1734388	17	Nashville MAG Anode 2017	$ 38,336.11
2	CORR-Corrosion Control	FP1734186	17	Nashville New Rectifier & Ground Be	188.92
3	CSNG-Casing & Remediation	FP1734373	17	Hartsville Casing Removal Proj	36,092.60
4	DIMP-Distribution Integrity	FP1734629	17	3914 Cross Creek Rd	19,287.15
5	DIMP-Distribution Integrity	FP1734408	17	3rd and Hart Station Valves	2,139.73
6	DIMP-Distribution Integrity	FP1734421	17	4th Ave South Insertion	2,187.55
7	DIMP-Distribution Integrity	FP1734653	17	Blue Hole Rd HDD	18,204.10
8	DIMP-Distribution Integrity	FP1734414	17	Dreamland Drive Greenbrier Tn.	46,685.58
9	DIMP-Distribution Integrity	FP1734592	17	Elm Hill Pk Ext	39,482.68
10	DIMP-Distribution Integrity	FP1734480	17	Emergency Nesbit Ln	594.32
11	DIMP-Distribution Integrity	FP1734569	17	Enviro Science DIMP Project	4,117.04
12	DIMP-Distribution Integrity	FP1733767	17	Fesslers LN	126,456.82
13	DIMP-Distribution Integrity	FP1734415	17	Foster Ave	173,537.33
14	DIMP-Distribution Integrity	FP1734647	17	Grassmere Park Road	42,045.75
15	DIMP-Distribution Integrity	FP1733763	17	Harding Place	171,493.51
16	DIMP-Distribution Integrity	FP1734411	17	Knapp Blvd	151,836.78
17	DIMP-Distribution Integrity	FP1734422	17	Lynwood Blvd / Tyne Blvd _ DIM	53,104.62
18	DIMP-Distribution Integrity	FP1734413	17	McMurray Blvd Royal Elm Circle	161,071.70
19	DIMP-Distribution Integrity	FP1734431	17	Murfreesboro Road at ForestVie	13,358.29
20	DIMP-Distribution Integrity	FP1734417	17	Rayon Drive Renewal	14,649.30
21	DIMP-Distribution Integrity	FP1734656	17	Richard Jones Rd @ Hillsboro P	53,589.54
22	DIMP-Distribution Integrity	FP1734419	17	Rosedale Ave	8,431.10
23	DIMP-Distribution Integrity	FP1734416	17	Sadler Ave and Fox Ave	52,294.58
24	DIMP-Distribution Integrity	FP1733931	17	Shelby Park RR Bridge Project	206,483.93
25	DIMP-Distribution Integrity	FP1733764	17	Sunnyside Drive	735.48
26	DIMP-Distribution Integrity	FP1734418	17	Turner St Renewal	488,884.72
27	DIMP-Distribution Integrity	FP1734412	17	Vine Ridge Drive	27,181.92
28	DIMP-Distribution Integrity	FP1734420	17	Snyder Street @ Lovell Street	8,972.47
29	DIMP-Distribution Integrity	FP1734672	17	12th Ave N at Grundy St.	8,922.34
30	DIMP-Distribution Integrity	FP1734749	17	2nd Ave N and Jefferson Leak	116,289.51
31	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	741,992.59
32	TIMP-Transmission Integrity	FP1734120	17	Line 311 Replacement	116,918.07
33	TIMP-Transmission Integrity	FP1733398	17	South Nashville 20"	8,007.18
34	TIMP-Transmission Integrity	FP1733929	17	White Bridge Road @ Post Rd. r	1,089.25
35	ISENP-Information Serv Enterprise	FP0026658	17	Work & Asset Management (OASIS)	854,133.36

	Total (unallocated)	**$ 3,808,795.92**
35	*subtotal: TN Direct (unallocated)*	*$ 2,954,662.56*
37	*subtotal: CO-3 (unallocated)*	*$ 854,133.36*
		$ 3,808,795.92

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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. 25351

Line No.			Aug-17
1	Beginning Balance	*Prior Month's IMR Report*	$ 6,059,263.95
2	IMR Revenue Recognition	*Prior Annual IMR Report*	775,305.08
3	(Collections from IM Adjustment)	*see Separate Schedule*	(675,136.81)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	6,159,432.22
5	Average Balance	*(Line 1 + Line 4) /2*	6,109,348.09
6	Accrued Interest	*Line 5 * Line 9*	20,160.85
7	Ending Balance After Interest	*Line 4 + Line 6*	$ 6,179,593.07
8	Applicable Annual Interest Rate	*same as for ACA*	0.039600
9	Monthly Interest Rate	*Line 8 / 12*	0.003300
10	Actual GL #25351 EOM Balance	*per GL*	$ 6,179,593.07
11	Variance	*Line 7 - Line 10*	$ -

Journal Entry: To Record Revenue	
01 01 25351 3 17 6250 489	775,305.08
01 01 48010 3 17 6220 489	(462,422.96)
01 01 48110 3 17 6220 489	(241,895.18)
01 01 48120 3 17 6220 489	(10,458.87)
01 01 48300 3 17 6220 489	(217.09)
01 01 48900 3 17 6220 489	(60,310.98)

Journal Entry: To Record Interest	
01 01 25351 3 17 6250 626	20,160.85
01 01 43101 3 17 6220 626	(20,160.85)

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		August - 2017				
		IM Adjustment		Usage		Collections
Line No.		($ per therm)	x	(therms)	=	($)
1	Residential (301)	0.13124		1,758,705		230,812.44
2	Small Commerical (302)	0.11465		1,913,710		219,406.85
3	Medium Commerical (352)	0.11465		546,834		62,694.52
4	Experimental Motor Vehicle Fuel (343/352)	0.11465		4,904		562.24
5	Firm Lg General Sales (303)	0.05092		313,810		15,979.21
6	Experimental Motor Vehicle Fuel (343/303)	0.05092		33,457		1,703.63
7	Firm Lg General Transportation (313)	0.05092		1,214,798		61,857.51
8	Experimental Motor Vehicle Fuel (343/313)	0.05092		138,574		7,056.19
9	Firm Resale (310)	0.05092		121		6.16
10	Interruptible Lg General Sales (304)	0.01273		9,408		119.76
11	Interruptible Lg General Transportation (314)	0.01273		5,886,748		74,938.30
12	**Total**					**$ 675,136.81**

Journal Entry: To Record Collections

01 01 48010 3 17 6220 489	230,812.44
01 01 48110 3 17 6220 489	219,406.85
01 01 48110 3 17 6220 489	63,256.76
01 01 48120 3 17 6220 489	17,682.84
01 01 48900 3 17 6220 489	68,913.70
01 01 48300 3 17 6220 489	6.16
01 01 48120 3 17 6220 489	119.76
01 01 48900 3 17 6220 489	74,938.30
01 01 25351 3 17 6250 489	(675,136.81)
	-

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

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

		Current Vintage Year: Vintage Year 5			All Vintage Years
Line No.		September 2017 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of September 2017 [3]	Cumulative Capital Expenditure as of September 2017 [6]
	TN Direct				
1	Corrosion Control	$ 12,832.52	$ 542,243.51	$ 555,076.03	$ 5,752,039.92
2	Casing Remediation	$ (37,117.94)	$ 106,519.74	$ 69,401.80	$ 812,204.93
3	Distribution Integrity	$ 2,121,494.72	$ 21,260,954.37	$ 23,382,449.09	$ 52,360,183.26
4	Transmission Integrity	$ 805,205.58	$ 7,766,551.25	$ 8,571,756.83	$ 179,410,915.90
5	Total	$ 2,902,414.88	$ 29,676,268.87	$ 32,578,683.75	$ 238,335,344.01
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ 690,562.18	$ 16,812,072.63	$ 17,502,634.81	$ 129,442,560.34
7	TN % of CO-3 for Current Month [4]	16.30%			
8	Total Allocated to TN	$ 112,561.64	$ 2,756,300.84	$ 2,868,862.48	$ 22,811,774.99
9	Total Capital Expenditures [Line 5 + Line 8]	$ 3,014,976.52	$ 32,432,569.71	$ 35,447,546.23	$ 261,147,119.00
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 3,014,976.52**	**$ 32,432,569.71**	**$ 35,447,546.23**	**$ 228,247,119.00**

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 and 4, which captures amounts through 10/31/16, is $192,799,572.77 ($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).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	September 2017
1	CORR-Corrosion Control	FP1734186	17	Nashville New Rectifier & Ground Be	$ 190.13
2	CORR-Corrosion Control	FP1734388	17	Nashville MAG Anode 2017	12,642.39
3	CSNG-Casing & Remediation	FP1734373	17	Hartsville Casing Removal Proj	(37,117.94)
4	DIMP-Distribution Integrity	FP1733763	17	Harding Place	83,676.31
5	DIMP-Distribution Integrity	FP1733764	17	Sunnyside Drive	67,859.14
6	DIMP-Distribution Integrity	FP1733767	17	Fesslers LN	(179,171.87)
7	DIMP-Distribution Integrity	FP1733931	17	Shelby Park RR Bridge Project	86,797.84
8	DIMP-Distribution Integrity	FP1733947	17	Nolensville Rd. over RR S of I-440	436.73
9	DIMP-Distribution Integrity	FP1734408	17	3rd and Hart Station Valves	6,018.67
10	DIMP-Distribution Integrity	FP1734411	17	Knapp Blvd	218,302.36
11	DIMP-Distribution Integrity	FP1734412	17	Vine Ridge Drive	97,767.92
12	DIMP-Distribution Integrity	FP1734413	17	McMurray Blvd Royal Elm Circle	197,493.22
13	DIMP-Distribution Integrity	FP1734415	17	Foster Ave	192,899.21
14	DIMP-Distribution Integrity	FP1734416	17	Sadler Ave and Fox Ave	12,099.91
15	DIMP-Distribution Integrity	FP1734417	17	Rayon Drive Renewal	238,527.33
16	DIMP-Distribution Integrity	FP1734418	17	Turner St Renewal	578,173.83
17	DIMP-Distribution Integrity	FP1734421	17	4th Ave South Insertion	169,094.90
18	DIMP-Distribution Integrity	FP1734422	17	Lynwood Blvd / Tyne Blvd _ DIM	84,216.19
19	DIMP-Distribution Integrity	FP1734431	17	Murfreesboro Road at ForestVie	17,476.90
20	DIMP-Distribution Integrity	FP1734478	17	3rd Ave North Steel Replacement	22,183.91
21	DIMP-Distribution Integrity	FP1734480	17	Emergency Nesbit Ln	255.58
22	DIMP-Distribution Integrity	FP1734592	17	Elm Hill Pk Ext	148,962.15
23	DIMP-Distribution Integrity	FP1734647	17	Grassmere Park Road	2,249.75
24	DIMP-Distribution Integrity	FP1734672	17	12th Ave N at Grundy St.	48,326.11
25	DIMP-Distribution Integrity	FP1734749	17	2nd Ave N and Jefferson Leak	27,848.63
26	TIMP-Transmission Integrity	FP1733398	17	South Nashville 20"	11,753.70
27	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	472,860.03
28	TIMP-Transmission Integrity	FP1734120	17	Line 311 Replacement	320,591.85
29	ISENP-Information Serv Enterprise	FP0026658	17	Work & Asset Management (OASIS)	690,562.18

	Total (unallocated)	**$ 3,592,977.06**
30	*subtotal: TN Direct (unallocated)*	*$ 2,902,414.88*
31	*subtotal: CO-3 (unallocated)*	*$ 690,562.18*
		$ 3,592,977.06

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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. 25351

Line No.			Sep-17
1	Beginning Balance	*Prior Month's IMR Report*	$ 6,179,593.07
2	IMR Revenue Recognition	*Prior Annual IMR Report*	776,117.09
3	(Collections from IM Adjustment)	*see Separate Schedule*	(725,907.13)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	6,229,803.03
5	Average Balance	*(Line 1 + Line 4) /2*	6,204,698.05
6	Accrued Interest	*Line 5 * Line 9*	20,475.50
7	Ending Balance After Interest	*Line 4 + Line 6*	$ 6,250,278.53
8	Applicable Annual Interest Rate	*same as for ACA*	0.039600
9	Monthly Interest Rate	*Line 8 / 12*	0.003300
10	Actual GL #25351 EOM Balance	*per GL*	$ 6,250,278.53
11	Variance	*Line 7 - Line 10*	$ -

Journal Entry: To Record Revenue	
01 01 25351 3 17 6250 489	776,117.09
01 01 48010 3 17 6220 489	(462,907.28)
01 01 48110 3 17 6220 489	(242,148.54)
01 01 48120 3 17 6220 489	(10,469.82)
01 01 48300 3 17 6220 489	(217.31)
01 01 48900 3 17 6220 489	(60,374.14)

Journal Entry: To Record Interest	
01 01 25351 3 17 6250 626	20,475.50
01 01 43101 3 17 6220 626	(20,475.50)

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		September - 2017				
		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
Line No.						
1	Residential (301)	0.13124		2,078,896		272,834.31
2	Small General Sales (302)	0.11465		1,924,206		220,610.22
3	Medium General Sales (352)	0.11465		641,159		73,508.88
4	Experimental Motor Vehicle Fuel (343/352)	0.11465		3,635		416.75
5	Firm Lg General Sales (303)	0.05092		314,946		16,037.05
6	Experimental Motor Vehicle Fuel (343/303)	0.05092		28,392		1,445.72
7	Firm Lg General Transportation (313)	0.05092		1,196,652		60,933.52
8	Experimental Motor Vehicle Fuel (343/313)	0.05092		127,341		6,484.20
9	Firm Resale (310)	0.05092		165		8.40
10	Interruptible Lg General Sales (304)	0.01273		11,283		143.63
11	Interruptible Lg General Transportation (314)	0.01273		5,772,541		73,484.45
12	**Total**					**$ 725,907.13**

Journal Entry: To Record Collections

01 01 48010 3 17 6220 489	272,834.31
01 01 48110 3 17 6220 489	220,610.22
01 01 48110 3 17 6220 489	73,925.63
01 01 48120 3 17 6220 489	17,482.77
01 01 48900 3 17 6220 489	67,417.72
01 01 48300 3 17 6220 489	8.40
01 01 48120 3 17 6220 489	143.63
01 01 48900 3 17 6220 489	73,484.45
01 01 25351 3 17 6250 489	(725,907.13)
	-

Docket No. 17-_____
Integrity Management Rider
October 2017 Monthly Report

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 17-_____

IMR Monthly Report for Oct 2017
Schedule 1

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

		Current Vintage Year: Vintage Year 5			All Vintage Years
Line No.		October 2017 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of October 2017 [3]	Cumulative Capital Expenditure as of October 2017 [6]
	TN Direct				
1	Corrosion Control	$ 21,609.89	$ 555,076.03	$ 576,685.92	$ 5,773,649.81
2	Casing Remediation	$ -	$ 69,401.80	$ 69,401.80	$ 812,204.93
3	Distribution Integrity	$ 1,708,284.53	$ 23,382,449.09	$ 25,090,733.62	$ 54,068,467.79
4	Transmission Integrity	$ 759,094.10	$ 8,571,756.83	$ 9,330,850.93	$ 180,170,010.00
5	Total	$ 2,488,988.52	$ 32,578,683.75	$ 35,067,672.27	$ 240,824,332.53
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ 1,887,843.11	$ 17,502,634.81	$ 19,390,477.92	$ 131,330,403.45
7	TN % of CO-3 for Current Month [4]	16.30%			
8	Total Allocated to TN	$ 307,718.43	$ 2,868,862.48	$ 3,176,580.91	$ 23,119,493.42
9	Total Capital Expenditures [Line 5 + Line 8]	$ 2,796,706.95	$ 35,447,546.23	$ 38,244,253.18	$ 263,943,825.95
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 2,796,706.95**	**$ 35,447,546.23**	**$ 38,244,253.18**	**$ 231,043,825.95**

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 and 4, which captures amounts through 10/31/16, is $192,799,572.77 ($100,306,282.52 for Vintage Year 1, $53,974,676.19 for Vintage Year 2, $18,441,896.09 for Vintage Year 3 and $20,076,717.97 for Vintage Year 4).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 17-_____

IMR Monthly Report for Oct 2017
Schedule 2

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 2017
1	CORR-Corrosion Control	FP1734186	17	Nashville New Rectifier & Ground Be	191.35
2	CORR-Corrosion Control	FP1734388	17	Nashville MAG Anode 2017	21,418.54
3	DIMP-Distribution Integrity	FP1733603	17	Hogan Road - Main Replacement	(4,415.40)
4	DIMP-Distribution Integrity	FP1733763	17	Harding Place	41,754.39
5	DIMP-Distribution Integrity	FP1733764	17	Sunnyside Drive	84,317.65
6	DIMP-Distribution Integrity	FP1733767	17	Fesslers LN	87,500.63
7	DIMP-Distribution Integrity	FP1733931	17	Shelby Park RR Bridge Project	585,834.68
8	DIMP-Distribution Integrity	FP1734408	17	3rd and Hart Station Valves	55.11
9	DIMP-Distribution Integrity	FP1734411	17	Knapp Blvd	23,979.54
10	DIMP-Distribution Integrity	FP1734412	17	Vine Ridge Drive	137.29
11	DIMP-Distribution Integrity	FP1734414	17	Dreamland Drive Greenbrier Tn	355.00
12	DIMP-Distribution Integrity	FP1734415	17	Foster Ave	101,659.15
13	DIMP-Distribution Integrity	FP1734416	17	Sadler Ave and Fox Ave	32,192.30
14	DIMP-Distribution Integrity	FP1734417	17	Rayon Drive Renewal	803,117.94
15	DIMP-Distribution Integrity	FP1734418	17	Turner St Renewal	(766,269.40)
16	DIMP-Distribution Integrity	FP1734421	17	4th Ave South Insertion	123,078.36
17	DIMP-Distribution Integrity	FP1734422	17	Lynwood Blvd / Tyne Blvd _ DIM	76,630.37
18	DIMP-Distribution Integrity	FP1734431	17	Murfreesboro Road at ForestVie	58,081.47
19	DIMP-Distribution Integrity	FP1734478	17	3rd Ave North Steel Replacement	410,988.51
20	DIMP-Distribution Integrity	FP1734592	17	Elm Hill Pk Ext	342.04
21	DIMP-Distribution Integrity	FP1734647	17	Grassmere Park Road	5,718.01
22	DIMP-Distribution Integrity	FP1734672	17	12th Ave N at Grundy St.	30,289.56
23	DIMP-Distribution Integrity	FP1734726	17	Cowan St HP Distribution Pipeline	96.38
24	DIMP-Distribution Integrity	FP1734770	17	Ash Street and 2nd Ave S DIMP	12,448.10
25	DIMP-Distribution Integrity	FP1734808	17	Regulator Install for Shelby S	392.85
26	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	705,289.18
27	TIMP-Transmission Integrity	FP1734120	17	Line 311 Replacement	53,804.92
28	ISENP-Information Serv Enterprise	FP0026658	17	Work & Asset Management (OASIS)	1,887,843.11

	Total (unallocated)	**$ 4,376,831.63**
29	*subtotal: TN Direct (unallocated)*	*$ 2,488,988.52*
30	*subtotal: CO-3 (unallocated)*	*$ 1,887,843.11*
		$ 4,376,831.63

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 17-_____

IMR Monthly Report for Oct 2017
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. 25351

Line No.			Oct-17
1	Beginning Balance	*Prior Month's IMR Report*	$ 6,250,278.53
2	IMR Revenue Recognition	*Prior Annual IMR Report*	1,104,271.75
3	(Collections from IM Adjustment)	*see Separate Schedule*	(803,142.90)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	6,551,407.38
5	Average Balance	*(Line 1 + Line 4) /2*	6,400,842.96
6	Accrued Interest	*Line 5 * Line 9*	22,454.16
7	Ending Balance After Interest	*Line 4 + Line 6*	$ 6,573,861.54
8	Applicable Annual Interest Rate	*same as for ACA*	0.042100
9	Monthly Interest Rate	*Line 8 / 12*	0.003508
10	Actual GL #25351 EOM Balance	*per GL*	$ 6,573,861.54
11	Variance	*Line 7 - Line 10*	$ -

Journal Entry: To Record Revenue

01 01 25351 3 17 6250 489	1,104,271.75
01 01 48010 3 17 6220 489	(658,631.84)
01 01 48110 3 17 6220 489	(344,532.78)
01 01 48120 3 17 6220 489	(14,896.63)
01 01 48300 3 17 6220 489	(309.20)
01 01 48900 3 17 6220 489	(85,901.30)

Journal Entry: To Record Interest

01 01 25351 3 17 6250 626	22,454.16
01 01 43101 3 17 6220 626	(22,454.16)

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 17-_____

IMR Monthly Report for Oct 2017
Schedule 4

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

Line No.		October - 2017				
		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
1	Residential (301)	0.13124		2,232,784		293,030.57
2	Small General Service (302)	0.11465		2,061,359		236,334.81
3	Medium General Service (352)	0.11465		721,127		82,677.21
4	Experimental Motor Vehicle Fuel (343/352)	0.11465		3,239		371.35
5	Firm Lg General Sales (303)	0.05092		422,456		21,511.46
6	Experimental Motor Vehicle Fuel (343/303)	0.05092		30,162		1,535.85
7	Firm Lg General Transportation (313)	0.05092		1,527,253		77,767.72
8	Experimental Motor Vehicle Fuel (343/313)	0.05092		136,905		6,971.20
9	Firm Resale (310)	0.05092		551		28.06
10	Interruptible Lg General Sales (304)	0.01273		30,936		393.82
11	Interruptible Lg General Transportation (314)	0.01273		6,482,392		82,520.85
12	**Total**					**$ 803,142.90**

Journal Entry: To Record Collections	
01 01 48010 3 17 6220 489	293,030.57
01 01 48110 3 17 6220 489	236,334.81
01 01 48110 3 17 6220 489	83,048.56
01 01 48120 3 17 6220 489	23,047.31
01 01 48900 3 17 6220 489	84,738.92
01 01 48300 3 17 6220 489	28.06
01 01 48120 3 17 6220 489	393.82
01 01 48900 3 17 6220 489	82,520.85
01 01 25351 3 17 6250 489	(803,142.90)
	-

Docket No. 17-_____

Integrity Management Rider

Proposed Billing Rates for January 2018

PIEDMONT NATURAL GAS COMPANY, INC.
Tennessee Service Territory
Billing Rates Effective: January 1, 2018

Rate Schedule	Description	Tariff Rate Approved In Docket No. 11-00144	Cumulative PGA Demand	Cumulative PGA Commodity	Current Refund	Current ACA Demand	Current ACA Commodity	Current IPA	Current IM Adjustment	Total Adj. Factor (Sum Col.2 thru Col.7)	Proposed Billing Rate (Col.1+Col.8)
		<1>	<2>	<3>	<4>	<5a>	<5b>	<6>	<7>	<8>	<9>
	Monthly Charge-Nov.-Mar.	$17.45									$17.45
Residential	Monthly Charge-Apr.-Oct.	$13.45									$13.45
301	Nov.- Mar. per TH	0.32000	0.07577	0.30997	0.00000	(0.00398)	0.02593	0.00508	0.17617	0.58894	0.90894
301	Apr.- Oct. per TH	0.27000	0.07577	0.30997	0.00000	(0.00398)	0.02593	0.00508	0.17617	0.58894	0.85894
Small General	Monthly Charge	$44.00									$44.00
302	Nov.- Mar. per TH	0.35400	0.07577	0.30997	0.00000	(0.00398)	0.02593	0.00508	0.15390	0.56667	0.92067
302	Apr.- Oct. per TH	0.30000	0.07577	0.30997	0.00000	(0.00398)	0.02593	0.00508	0.15390	0.56667	0.86667
Medium General	Monthly Charge	$225.00									$225.00
352	Nov.- Mar. per TH	0.35400	0.07577	0.30997	0.00000	(0.00398)	0.02593	0.00508	0.15390	0.56667	0.92067
352	Apr.- Oct. per TH	0.30000	0.07577	0.30997	0.00000	(0.00398)	0.02593	0.00508	0.15390	0.56667	0.86667
Experimental Motor Vehicle Fuel	Monthly Charge			varies by customer per their corresponding rate schedule							
343	Nov.- Mar. per TH			varies by customer per their corresponding rate schedule							
343	Apr.- Oct. per TH			varies by customer per their corresponding rate schedule							
303	Monthly Charge	$800.00									$800.00
Firm	Demand Charge per TH	0.80000	0.82829		0.00000	(0.05401)				0.77428	1.57428
General Sales	First 15,000 TH/TH	0.09682		0.30997	0.00000		0.02593	0.00508	0.06836	0.40934	0.50616
	Next 25,000 TH/TH	0.08953		0.30997	0.00000		0.02593	0.00508	0.06836	0.40934	0.49887
	Next 50,000 TH/TH	0.06450		0.30997	0.00000		0.02593	0.00508	0.06836	0.40934	0.47384
	Over 90,000 TH/TH	0.02764		0.30997	0.00000		0.02593	0.00508	0.06836	0.40934	0.43698
304	Monthly Charge	$800.00									$800.00
Interruptible	First 15,000 TH/TH	0.09682		0.30997	0.00000		0.02593	0.00508	0.01709	0.35807	0.45489
General Sales	Next 25,000 TH/TH	0.08953		0.30997	0.00000		0.02593	0.00508	0.01709	0.35807	0.44760
	Next 50,000 TH/TH	0.06450		0.30997	0.00000		0.02593	0.00508	0.01709	0.35807	0.42257
	Over 90,000 TH/TH	0.02764		0.30997	0.00000		0.02593	0.00508	0.01709	0.35807	0.38571
313	Monthly Charge	$800.00									$800.00
Firm	Demand Charge per TH	0.80000	0.82829		0.00000	(0.05401)				0.77428	1.57428
Transportation	First 15,000 TH/TH	0.09682			0.00000				0.06836	0.06836	0.16518
	Next 25,000 TH/TH	0.08953			0.00000				0.06836	0.06836	0.15789
	Next 50,000 TH/TH	0.06450			0.00000				0.06836	0.06836	0.13286
	Over 90,000 TH/TH	0.02764			0.00000				0.06836	0.06836	0.09600
314	Monthly Charge	$800.00									$800.00
Interruptible	First 15,000 TH/TH	0.09682			0.00000				0.01709	0.01709	0.11391
Transportation	Next 25,000 TH/TH	0.08953			0.00000				0.01709	0.01709	0.10662
	Next 50,000 TH/TH	0.06450			0.00000				0.01709	0.01709	0.08159
	Over 90,000 TH/TH	0.02764			0.00000				0.01709	0.01709	0.04473
310	Demand Charge per TH	0.80000	0.82829		0.00000	(0.05401)				0.77428	1.57428
Resale Service	Commodity Charge	0.09000		0.30997	0.00000		0.02593	0.00508	0.06836	0.40934	0.49934

NOTES:

1/ In accordance with the Tennessee Public Service Commission order in Docket U-7074 customers metered inside Davidson County are required to pay an additional 6.61% for collection of the Metro Franchise Fee. Customers served by the Ashland City, Fairview, Greenbrier, Hartsville, Mt. Juliet and White House systems are required to pay 5.0%. Customers served by the Franklin and Nolensville systems are required to pay 3%.

Docket No. 17-_____
Integrity Management Rider
2017 Annual Report

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 17-____

Schedule of Journal Entries Related to the Integrity Management Rider for the Previous Twelve Months (November 2016 thru October 2017)
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. 25351

Line No.			Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17
1	Beginning Balance	*Prior Month's IMR Report*	$ 1,443,288.57	$ 2,412,578.11	$ 2,852,263.29	$ 3,406,967.94	$ 4,546,793.18	$ 5,342,560.25	$ 5,758,040.03	$ 5,940,861.38	$ 5,968,422.37	$ 6,059,263.95	$ 6,179,593.07	$ 6,250,278.53
2	IMR Revenue Recognition	*Prior Annual IMR Report*	1,851,810.38	2,948,059.87	3,968,987.70	3,776,922.54	2,851,853.96	1,842,916.11	1,166,798.45	826,224.16	769,291.10	775,305.08	776,117.09	1,104,271.75
3	(Collections from IM Adjustment)	*see Separate Schedule*	(888,136.43)	(2,516,042.28)	(3,423,398.84)	(2,648,680.97)	(2,070,489.51)	(1,444,571.37)	(1,002,035.68)	(817,046.50)	(698,262.51)	(675,136.81)	(725,907.13)	(803,142.90)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	2,406,962.52	2,844,595.70	3,397,852.15	4,535,209.51	5,328,157.63	5,740,904.99	5,922,802.80	5,950,039.04	6,039,450.96	6,159,432.22	6,229,803.03	6,551,407.38
5	Average Balance	*(Line 1 + Line 4) /2*	1,925,125.55	2,628,586.91	3,125,057.72	3,971,088.73	4,937,475.41	5,541,732.62	5,840,421.42	5,945,450.21	6,003,936.67	6,109,348.09	6,204,698.05	6,400,842.96
6	Accrued Interest	*Line 5 * Line 9*	5,615.59	7,667.59	9,115.79	11,583.67	14,402.62	17,135.04	18,058.58	18,383.33	19,812.99	20,160.85	20,475.50	22,454.16
7	Ending Balance After Interest	*Line 4 + Line 6*	$ 2,412,578.11	$ 2,852,263.29	$ 3,406,967.94	$ 4,546,793.18	$ 5,342,560.25	$ 5,758,040.03	$ 5,940,861.38	$ 5,968,422.37	$ 6,059,263.95	$ 6,179,593.07	$ 6,250,278.53	$ 6,573,861.54
8	Applicable Annual Interest Rate	*same as for ACA*	0.035000	0.035000	0.035000	0.035000	0.035000	0.037100	0.037100	0.037100	0.039600	0.039600	0.039600	0.042100
9	Monthly Interest Rate	*Line 8 / 12*	0.002917	0.002917	0.002917	0.002917	0.002917	0.003092	0.003092	0.003092	0.003300	0.003300	0.003300	0.003508
10	Actual GL #25351 EOM Balance	*per GL*	$ 2,412,578.11	$ 2,852,263.29	$ 3,108,704.45	$ 3,963,829.57	$ 5,342,560.25	$ 5,758,040.03	$ 5,940,861.38	$ 5,968,422.37	$ 6,059,263.95	$ 6,179,593.07	$ 6,250,278.53	$ 6,573,861.54
11	Variance	*Line 7 - Line 10*	$ -	$ -	$ 298,263.49	$ 582,963.61	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -

Journal Entry: To Record Revenue	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17
01 01 25351 3 17 6250 489	1,851,810.38	2,948,059.87	3,968,987.70	3,776,922.54	2,851,853.96	1,842,916.11	1,166,798.45	826,224.16	769,291.10	775,305.08	776,117.09	1,104,271.75
01 01 48010 3 17 6220 489	(1,104,493.78)	(1,758,340.83)	(2,367,263.02)	(2,252,707.68)	(1,700,959.78)	(1,099,188.88)	(695,925.27)	(492,793.14)	(458,835.98)	(462,422.96)	(462,907.28)	(658,631.84)
01 01 48110 3 17 6220 489	(578,005.57)	(920,177.93)	(1,238,324.16)	(1,178,399.83)	(889,778.43)	(574,989.83)	(364,041.12)	(257,781.94)	(240,018.82)	(241,895.18)	(242,148.54)	(344,532.78)
01 01 48120 3 17 6220 489	(24,740.19)	(39,386.08)	(53,541.65)	(50,950.69)	(38,471.51)	(24,860.94)	(15,740.11)	(11,145.76)	(10,377.74)	(10,458.87)	(10,469.82)	(14,896.63)
01 01 48300 3 17 6220 489	(518.51)	(825.46)	(1,111.32)	(1,057.54)	(798.52)	(516.02)	(326.70)	(231.34)	(215.40)	(217.09)	(217.31)	(309.20)
01 01 48900 3 17 6220 489	(144,052.33)	(229,329.57)	(308,747.55)	(293,806.80)	(221,845.72)	(143,360.44)	(90,765.25)	(64,271.98)	(59,843.16)	(60,310.98)	(60,374.14)	(85,901.30)
	-											

Journal Entry: To Record Interest	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17
01 01 25351 3 17 6250 626	5,615.59	7,667.59	9,115.79	11,583.67	14,402.62	17,135.04	18,058.58	18,383.33	19,812.99	20,160.85	20,475.50	22,454.16
01 01 43101 3 17 6220 626	(5,615.59)	(7,667.59)	(9,115.79)	(11,583.67)	(14,402.62)	(17,135.04)	(18,058.58)	(18,383.33)	(19,812.99)	(20,160.85)	(20,475.50)	(22,454.16)

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 17-_____

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 2018 -Dec 31 2018						
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]	$ 15,687,718	$ 8,206,473	$ 1,301,000	$ 1,107,100	**$ 26,302,291**
3	Deferred Account Adjustment Due From (To) Customers	Actual Deferred Account Balance at Oct 31, 2017	$ 3,920,909	$ 2,051,084	$ 325,165	$ 276,703	**$ 6,573,862**
4	Total Amount for Recovery in this Rider	[= Line 2 + Line 3]	$ 19,608,626	$ 10,257,558	$ 1,626,165	$ 1,383,803	**$ 32,876,153**
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]	$1.76170	$1.53900	$0.68360	$0.17090	
7	**Proposed Integrity Management Rate per therm**	[= Line 6 / 10]	**$0.17617**	**$0.15390**	**$0.06836**	**$0.01709**	
	As previously approved:						
	Jan 1 2017 -Dec 31 2017						
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 of 2016 Annual Report x Line 8]	$ 13,746,705	$ 7,191,101	$ 1,140,029	$ 970,121	$ 23,047,956
10	Deferred Account Adjustment	Actual Deferred Account Balance at Oct 31, 2016	$ 860,834	$ 450,315	$ 71,390	$ 60,750	$ 1,443,289
11	Total Amount for Recovery in this Rider	[= Line 9 + Line 10]	$ 14,607,539	$ 7,641,416	$ 1,211,419	$ 1,030,871	$ 24,491,245
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 11 / Line 12]	$1.31240	$1.14650	$0.50920	$0.12730	
14	Proposed Integrity Management Rate per therm	[= Line 13 / 10]	$0.13124	$0.11465	$0.05092	$0.01273	

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 17-_____

2017 IMR Annual Report
Schedule 4

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)	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Total**
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. 17-_____

Summary of IMRR Computation

Line No.	Vintage Year	Rate Period Jan 1 2017 - Dec 31 2017	Rate Period Jan 1 2018 - Dec 31 2018
1	Vintage 1	$ 13,060,485	$ 12,460,384
2	Vintage 2	5,781,344	5,516,595
3	Vintage 3	1,984,957	1,933,274
4	Vintage 4	2,221,171	2,160,918
5	Vintage 5	n/a	4,231,121
6	Total	23,047,956	26,302,291
7	**Total IMRR, excluding IM Deferred Account Adjustment**	**$ 23,047,956**	**$ 26,302,291**
	Spread of Total IMRR, excluding IM Deferred Adjustment, by Month		
8	January	$ 3,968,988	$ 4,529,403
9	February	3,776,923	4,310,218
10	March	2,851,854	3,254,531
11	April	1,842,916	2,103,133
12	May	1,166,798	1,331,549
13	June	826,224	942,886
14	July	769,291	877,914
15	August	775,305	884,777
16	September	776,117	885,704
17	October	1,104,272	1,260,193
18	November	2,002,042	2,284,727
19	December	3,187,226	3,637,258
20	Total	**$ 23,047,956**	**$ 26,302,291**

Piedmont Natural Gas Company, Inc
Integrity Management Rider
State of Tennessee
TPUC Docket No. 17-_____

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2018 - December 31, 2018

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

	Year 1	Year 2	Year 3	Year 4	Year 5
Plant	100,306,283	100,306,283	100,306,283	100,306,283	100,306,283
Accumulated depreciation	(974,476)	(2,428,917)	(3,883,358)	(5,337,799)	(6,792,240)
Net plant	99,331,807	97,877,366	96,422,925	94,968,484	93,514,043
ADIT	(4,057,566)	(6,977,762)	(9,549,872)	(24,529,845)	(25,236,573)
NOL benefit				24,529,845	21,449,590
Net investment	95,274,241	90,899,604	86,873,053	94,968,484	89,727,060
Pre-tax RORs	11.446%	11.446%	11.446%	11.446%	11.446%
Pre-tax rate of return	10,904,782	10,404,375	9,943,709	10,869,786	10,269,859
Depreciation expense	1,454,441	1,454,441	1,454,441	1,454,441	1,454,441
Property Tax expense	732,236	732,236	732,236	732,236	732,236
Total, excluding uncollectibles	13,091,459	12,590,752	12,129,886	13,056,463	12,456,536
Uncollectibles gross up factor	1.000308	1.000308	1.000308	1.000308	1.000308
Total revenue requirement	13,095,491	12,594,631	12,133,673	13,060,485	**12,460,384**

Assumptions and calculations:
Rider computed each year
Normal depreciation and AFUDC practices apply, AFUDC ends and depreciation begins when plant goes into service

	Year 1	Year 2	Year 3	Year 4	Year 5
Net of tax rate of return	6.96%	6.96%	6.96%	6.96%	6.96%

		Year 1	Year 2	Year 3	Year 4	Year 5
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 - 5					
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%
FIT rate		35.00%	35.00%	35.00%	35.00%	35.00%
Composite income tax rate		39.23%	39.23%	39.23%	39.23%	39.23%
Uncollectibles rate		0.0308%	0.0308%	0.0308%	0.0308%	0.0308%
Revenue requirement gross up factor		1.000308	1.000308	1.000308	1.000308	1.000308
Capital structure assumptions (rate case):						
LTD	41.42%					
STD	5.87%					
Common equity	52.71%					
Capital cost rate assumptions (rate case):						
LTD	6.05%					
STD	1.59%					
Common equity	10.20%					
Overall and pre-tax RORs	Overall	Pre-tax RORs				
LTD	2.506%	2.506%	2.506%	2.506%	2.506%	2.506%
STD	0.093%	0.093%	0.093%	0.093%	0.093%	0.093%
Common equity	5.376%	8.846%	8.846%	8.846%	8.846%	8.846%
Total	7.976%	11.446%	11.446%	11.446%	11.446%	11.446%

Tax depreciation schedule

	Rate	MACRS 15 Yearly	MACRS 15 Cumulative	BONUS 50% Yearly	BONUS 50% Cumulative
Tax year 1	5.00%	5,015,314		52,660,799	
Tax year 2	9.50%	9,529,197	14,544,411	4,744,548	57,405,347
Tax year 3	8.55%	8,576,187	23,120,598	4,288,094	61,693,441
Tax year 4	7.70%	7,723,584	30,844,182	3,881,792	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	

		Year 1	Year 2	Year 3	Year 4	Year 5
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
Depreciation expense		1,454,441	1,454,441	1,454,441	1,454,441	1,454,441
Rider year EOY amount		1,701,696	3,156,137	4,610,578	6,065,019	7,519,461
Average accumulated depreciation		974,476	2,428,917	3,883,358	5,337,799	6,792,240

MACRS 15

Tax depreciation reserve		Year 1	Year 2	Year 3	Year 4	Year 5
FY of completion tax depreciation	5,015,314					
Post FY tax depreciation to rider date	17%					
Tax year 2 tax depreciation	9,529,197					
Tax year 2 pre-rider tax depr	1,619,946					
Rider year BOY amount		6,635,261	16,092,363	24,433,637	32,025,890	38,857,751
Tax period A tax depreciation		7,999,150	7,118,235	6,410,575	5,769,517	5,186,738
Tax period B tax depreciation		1,457,952	1,313,039	1,181,758	1,062,344	1,006,072
Rider year EOY amount		16,092,363	24,433,637	32,025,890	38,857,751	45,050,561
Average tax depreciation reserve		11,318,817	20,717,985	28,729,749	35,441,821	41,954,156

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

Accumulated deferred taxes	Year 1	Year 2	Year 3	Year 4	Year 5
Average tax depreciation reserve	11,318,817	20,717,985	28,729,749	35,441,821	41,954,156
Average book depreciation reserve	974,476	2,428,917	3,883,358	5,337,799	6,792,240
Difference	10,344,335	17,789,069	24,346,391	30,104,022	35,161,916
Composite tax rate	39.23%	39.23%	39.23%	39.23%	39.23%
Average ADIT	4,057,566	6,977,762	9,549,872	11,808,303	13,792,262

Note: composite tax rate ignores excess deferred tax flowback

BONUS 50%

Tax depreciation reserve		Year 1	Year 2	Year 3	Year 4	Year 5
FY of completion tax depreciation	52,660,799					
Post FY tax depreciation to rider date	17%					
Tax year 2 tax depreciation	4,744,548					
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
Tax period A tax depreciation		3,954,575	3,559,118	3,205,287	2,884,259	2,593,365
Tax period B tax depreciation		728,976	656,505	590,854	531,672	503,036
Rider year EOY amount		58,154,323	62,369,945	66,166,087	69,582,017	72,678,422
Average tax depreciation reserve		55,812,547	60,262,134	64,268,016	67,874,052	71,130,220

Accumulated deferred taxes	Year 1	Year 2	Year 3	Year 4	Year 5
Average tax depreciation reserve	55,812,547	60,262,134	64,268,016	67,874,052	71,130,220
Average book depreciation reserve	974,476	2,428,917	3,883,358	5,337,799	6,792,240
Difference	54,838,071	57,833,217	60,384,658	62,536,253	64,337,980
Composite tax rate	39.23%	39.23%	39.23%	39.23%	39.23%
Average ADIT	21,510,734	22,685,082	23,685,867	24,529,845	25,236,573

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 17-_____

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2018 - December 31, 2018

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

	Year 1	Year 2	Year 3	Year 4
Plant	53,974,676	53,974,676	53,974,676	53,974,676
Accumulated depreciation	(524,364)	(1,306,997)	(2,089,630)	(2,872,262)
Net plant	53,450,312	52,667,679	51,885,047	51,102,414
ADIT	(2,183,371)	(3,754,724)	(12,745,341)	(13,199,477)
NOL benefit			1,075,611	
Net investment	51,266,941	48,912,955	40,215,316	37,902,937
Pre tax ROR%	11.446%	11.446%	11.446%	11.446%
Pre-tax rate of return	5,867,848	5,598,419	4,602,915	4,338,248
Depreciation expense	782,633	782,633	782,633	782,633
Property Tax expense	394,015	394,015	394,015	394,015
Total, excluding uncollectibles	7,044,496	6,775,067	5,779,563	5,514,896
Uncollectibles gross up factor	1.000308	1.000308	1.000308	1.000308
Total revenue requirement	7,046,667	6,777,154	5,781,344	5,516,595

Assumptions and calculations:
Rider computed each year.
Normal depreciation and AFUDC practices apply, AFUDC ends and depreciation begins when plant goes into service

	Year 1	Year 2	Year 3	Year 4
Net of tax rate of return	6.96%	6.96%	6.96%	6.96%

		Year 1	Year 2	Year 3	Year 4
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 - 4				
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%
FIT rate		35.00%	35.00%	35.00%	35.00%
Composite income tax rate		39.23%	39.23%	39.23%	39.23%
Uncollectibles rate		0.0308%	0.0308%	0.0308%	0.0308%
Revenue requirement gross up factor		1.000308	1.000308	1.000308	1.000308
Capital structure assumptions (rate case):					
LTD	41.42%				
STD	5.87%				
Common equity	52.71%				
Capital cost rate assumptions (rate case):					
LTD	6.05%				
STD	1.59%				
Common equity	10.20%				
Overall and pre-tax RORs					
	Overall	Pre-tax RORs			
LTD	2.506%	2.506%	2.506%	2.506%	2.506%
STD	0.093%	0.093%	0.093%	0.093%	0.093%
Common equity	5.376%	8.846%	8.846%	8.846%	8.846%
Total	7.976%	11.446%	11.446%	11.446%	11.446%

Tax depreciation schedule

		MACRS 15		BONUS 50%	
	Rate	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	

		Year 1	Year 2	Year 3	Year 4
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
Depreciation expense		782,633	782,633	782,633	782,633
Rider year EOY amount		915,680	1,698,313	2,480,946	3,263,579
Average accumulated depreciation		524,364	1,306,997	2,089,630	2,872,262

MACRS 15

		Year 1	Year 2	Year 3	Year 4
Tax depreciation reserve					
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	17,233,389
Tax period A tax depreciation		4,255,903	3,830,313	3,449,522	3,104,569
Tax period B tax depreciation		784,522	706,529	635,876	571,646
Rider year EOY amount		8,610,850	13,147,691	17,233,389	20,909,304
Average tax depreciation reserve		6,090,637	10,879,271	15,190,390	19,071,196

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

	Year 1	Year 2	Year 3	Year 4
Accumulated deferred taxes				
Average tax depreciation reserve	6,090,637	10,879,271	15,190,390	19,071,196
Average book depreciation reserve	524,364	1,306,997	2,089,630	2,872,262
Difference	5,566,273	9,572,274	13,100,760	16,198,934
Composite tax rate	39.23%	39.23%	39.23%	39.23%
Average ADIT	2,183,371	3,754,724	5,138,733	6,356,032

Note: composite tax rate ignores excess deferred tax flowback

BONUS 50%

		Year 1	Year 2	Year 3	Year 4
Tax depreciation reserve					
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	33,561,134	35,603,882
Tax period A tax depreciation		2,127,951	1,915,156	1,724,761	1,552,285
Tax period B tax depreciation		392,261	353,264	317,938	285,823
Rider year EOY amount		31,292,763	33,561,184	35,603,882	37,441,990
Average tax depreciation reserve		30,032,657	32,426,973	34,582,533	36,522,936

	Year 1	Year 2	Year 3	Year 4
Accumulated deferred taxes				
Average tax depreciation reserve	30,032,657	32,426,973	34,582,533	36,522,936
Average book depreciation reserve	524,364	1,306,997	2,089,630	2,872,262
Difference	29,508,293	31,119,977	32,492,903	33,650,674
Composite tax rate	39.23%	39.23%	39.23%	39.23%
Average ADIT	11,574,678	12,206,811	12,745,341	13,199,477

Piedmont Natural Gas Company, Inc
Integrity Management Rider
State of Tennessee
TPUC Docket No. 17-____

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2018 - December 31, 2018

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

	Year 1	Year 2	Year 3
Plant	18,441,896	18,441,896	18,441,896
Accumulated depreciation	(179,163)	(446,571)	(713,978)
Net plant	18,262,733	17,995,326	17,727,918
ADIT	(746,007)	(4,170,784)	(4,354,788)
NOL benefit			-
Net investment	17,516,726	13,824,541	13,373,130
Pre-tax RORs	11.446%	11.446%	11.446%
Pre-tax rate of return	2,004,928	1,582,312	1,530,645
Depreciation expense	267,407	267,407	267,407
Property Tax expense	134,626	134,626	134,626
Total, excluding uncollectibles	2,406,961	1,984,346	1,932,679
Uncollectibles gross up factor	1.000308	1.000308	1.000308
Total revenue requirement	2,407,683	1,984,957	1,933,274

Assumptions and calculations:
Rider computed each year
Normal depreciation and AFUDC practices apply, AFUDC ends and depreciation begins when plant goes into service

	Year 1	Year 2	Year 3
Net of tax rate of return	6.95%	6.95%	6.95%

		Year 1	Year 2	Year 3
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 - 3			
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%
FIT rate		35.00%	35.00%	35.00%
Composite income tax rate		39.23%	39.23%	39.23%
Uncollectibles rate		0.0308%	0.0308%	0.0308%
Revenue requirement gross up factor		1.000308	1.000308	1.000308
Capital structure assumptions (rate case):				
LTD	41.42%			
STD	5.87%			
Common equity	52.71%			
Capital cost rate assumptions (rate case):				
LTD	6.05%			
STD	1.59%			
Common equity	10.20%			
Overall and pre-tax RORs				
	Overall	Pre-tax RORs		
LTD	2.506%	2.506%	2.506%	2.506%
STD	0.093%	0.093%	0.093%	0.093%
Common equity	5.376%	8.846%	8.846%	8.846%
Total	7.976%	11.446%	11.446%	11.446%

Tax depreciation schedule

	Rate	MACRS 15 Yearly	MACRS 15 Cumulative	BONUS 50% Yearly	BONUS 50% 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
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
Depreciation expense		267,407	267,407	267,407
Rider year EOY amount		312,867	580,274	847,681
Average accumulated depreciation		179,163	446,571	713,978

MACRS 15

		Year 1	Year 2	Year 3
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	297,836			
Rider year BOY amount		1,219,931	2,942,128	4,492,261
Tax period A tax depreciation		1,454,144	1,308,729	1,178,622
Tax period B tax depreciation		268,053	241,404	217,264
Rider year EOY amount		2,942,128	4,492,261	5,888,147
Average tax depreciation reserve		2,081,030	3,717,195	5,190,204

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

	Year 1	Year 2	Year 3
Accumulated deferred taxes			
Average tax depreciation reserve	2,081,030	3,717,195	5,190,204
Average book depreciation reserve	179,163	446,571	713,978
Difference	1,901,867	3,270,624	4,476,226
Composite tax rate	39.23%	39.23%	39.23%
Average ADIT	746,007	1,282,902	1,755,800

Note: composite tax rate ignores excess deferred tax flowback

BONUS 50%

		Year 1	Year 2	Year 3
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
Tax period A tax depreciation		727,072	654,365	589,311
Tax period B tax depreciation		134,026	120,702	108,632
Rider year EOY amount		10,692,012	11,467,079	12,165,022
Average tax depreciation reserve		10,261,463	11,079,545	11,816,050

	Year 1	Year 2	Year 3
Accumulated deferred taxes			
Average tax depreciation reserve	10,261,463	11,079,545	11,816,050
Average book depreciation reserve	179,163	446,571	713,978
Difference	10,082,300	10,632,975	11,102,072
Composite tax rate	39.23%	39.23%	39.23%
Average ADIT	3,954,782	4,170,784	4,354,788

Piedmont Natural Gas Company, Inc
Integrity Management Rider
State of Tennessee
TPUC Docket No. 17-_____

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2018 - December 31, 2018

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

	Year 1	Year 2
Plant	20,076,718	20,076,718
Accumulated depreciation	(195,045)	(486,158)
Net plant	19,881,673	19,590,560
ADIT	(4,326,362)	(4,540,513)
NOL benefit		
Net investment	15,556,310	15,050,048
Pre-tax ROR%	11.446%	11.446%
Pre-tax rate of return	1,780,814	1,722,582
Depreciation expense	291,113	291,113
Property Tax expense	146,560	146,562
Total, excluding uncollectibles	2,220,487	2,160,257
Uncollectibles gross up factor	1.000308	1.000308
Total revenue requirement	2,221,171	2,160,922

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 6.96%

		Year 1	Year 2
Plant amount	20,076,718		
Book depreciation rate	1.45%		
Property Tax Rate	0.73%		
Tax depreciation	BONUS 50% Years 1 - 2		
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%
FIT rate		35.00%	35.00%
Composite income tax rate		39.23%	39.23%
Uncollectibles rate		0.0308%	0.0308%
Revenue requirement gross up factor		1.000308	1.000308
Capital structure assumptions (rate case):			
LTD	41.42%		
STD	5.87%		
Common equity	52.71%		
Capital cost rate assumptions (rate case):			
LTD	6.05%		
STD	1.59%		
Common equity	10.20%		
Overall and pre-tax RORs			
	Overall	Pre-tax RORs	
LTD	2.506%	2.506%	2.506%
STD	0.093%	0.093%	0.093%
Common equity	5.376%	8.846%	8.846%
Total	7.976%	11.446%	11.446%

MACRS 15 tax depreciation schedule

	Rate	MACRS 15 Yearly	MACRS 15 Cumulative	BONUS 50% Yearly	BONUS 50% Cumulative
Tax year 1	5.00%	1,003,836		10,540,277	
Tax year 2	9.50%	1,907,288	2,911,124	955,644	11,495,921
Tax year 3	8.55%	1,716,559	4,627,683	858,280	12,352,201
Tax year 4	7.70%	1,545,907	6,173,591	772,954	13,125,154
Tax year 5	6.93%	1,391,317	7,564,907	695,658	13,820,813
Tax year 6	6.23%	1,250,780	8,815,687	625,390	14,446,202
Tax year 7	5.90%	1,184,526	10,000,213	592,263	15,038,465
Tax year 8	5.90%	1,184,526	11,184,740	592,263	15,630,729
Tax year 9	5.91%	1,186,534	12,371,274	593,267	16,223,996
Tax year 10	5.90%	1,184,526	13,555,800	592,263	16,816,259
Tax year 11	5.91%	1,186,534	14,742,334	593,267	17,409,526
Tax year 12	5.90%	1,184,526	15,926,860	592,263	18,001,789
Tax year 13	5.91%	1,186,534	17,113,394	593,267	18,595,056
Tax year 14	5.90%	1,184,526	18,297,921	592,263	19,187,319
Tax year 15	5.91%	1,186,534	19,484,455	593,267	19,780,586
Tax year 16	2.95%	592,263	20,076,718	296,132	20,076,718
Total	100.00%	20,076,718		20,076,718	

		Year 1	Year 2
Accumulated depreciation			
Portion of year in service before rider	17%		
Pre rider amount of depreciation	49,489		
Rider year BOY amount		49,489	340,602
Depreciation expense		291,113	291,113
Rider year EOY amount		340,602	631,714
Average accumulated depreciation		195,045	486,158

MACRS 15

		Year 1	Year 2
Tax depreciation reserve			
FY of completion tax depreciation	1,003,836		
Post FY tax depreciation to rider date	17%		
Tax year 2 tax depreciation	1,907,288		
Tax year 2 pre rider tax depr	324,239		
Rider year BOY amount		1,328,075	3,232,959
Tax period A tax depreciation		1,583,049	1,424,744
Tax period B tax depreciation		321,835	232,785
Rider year EOY amount		3,232,959	4,890,488
Average tax depreciation reserve		2,265,517	4,046,723

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

	Year 1	Year 2
Accumulated deferred taxes		
Average tax depreciation reserve	2,265,517	4,046,723
Average book depreciation reserve	195,045	486,158
Difference	2,070,472	3,560,565
Composite tax rate	39.23%	39.23%
Average ADIT	812,235	1,396,676

Note: composite tax rate ignores excess deferred tax flowback

BONUS 50%

		Year 1	Year 2
Tax depreciation reserve			
FY of completion tax depreciation	10,540,277		
Post FY tax depreciation to rider date	17%		
Tax year 2 tax depreciation	955,644		
Tax year 2 pre rider tax depr	162,459		
Rider year BOY amount		10,702,736	11,659,879
Tax period A tax depreciation		791,535	712,372
Tax period B tax depreciation		165,608	111,400
Rider year EOY amount		11,659,879	12,483,651
Average tax depreciation reserve		11,181,225	12,061,715

	Year 1	Year 2
Accumulated deferred taxes		
Average tax depreciation reserve	11,181,225	12,061,715
Average book depreciation reserve	195,045	486,158
Difference	10,986,267	11,575,556
Composite tax rate	39.23%	39.23%
Average ADIT	4,326,362	4,540,513

Piedmont Natural Gas Company, Inc
Integrity Management Rider
State of Tennessee
TPUC Docket No. 17-____

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2018 - December 31, 2018

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

	Year 1
Plant	38,244,253
Accumulated depreciation	(371,543)
Net plant	37,872,710
ADIT	(8,201,309)
NOL benefit	
Net investment	29,671,401
Pre-tax ROR%	11.446%
Pre-tax rate of return	3,396,193
Depreciation expense	554,542
Property Tax expense	279,183
Total, excluding uncollectibles	4,229,917
Uncollectibles gross up factor	1.000308
Total revenue requirement	4,231,220

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 6.95%

		Year 1
Plant amount	38,244,253	
Book depreciation rate	1.45%	
Property Tax Rate	0.73%	
Tax depreciation	BONUS 50% Year 1	
Plant in service date for this Vintage	31-Oct-17	
Original Rider effective date for this Vintage	1-Jan-14	
Fiscal year end for this Vintage	31-Oct-17	
SIT rate		6.50%
FIT rate		35.00%
Composite income tax rate		39.23%
Uncollectibles rate		0.0308%
Revenue requirement gross up factor		1.000308
Capital structure assumptions (rate case):		
LTD	41.42%	
STD	5.87%	
Common equity	52.71%	
Capital cost rate assumptions (rate case):		
LTD	6.05%	
STD	1.59%	
Common equity	10.20%	
Overall and pre-tax RORs		
	Overall	Pre-tax RORs
LTD	2.506%	2.506%
STD	0.093%	0.093%
Common equity	5.376%	8.846%
Total	7.975%	11.446%

MACRS 15 tax depreciation schedule

	Rate	MACRS 15 Yearly	MACRS 15 Cumulative	BONUS 50% Yearly	BONUS 50% Cumulative
Tax year 1	5.00%	1,912,213		20,078,233	
Tax year 2	9.50%	3,633,204	5,545,417	1,816,602	21,894,835
Tax year 3	8.55%	3,269,884	8,815,300	1,634,942	23,529,777
Tax year 4	7.70%	2,944,807	11,760,106	1,477,404	25,007,181
Tax year 5	6.93%	2,650,327	14,410,433	1,320,163	26,327,344
Tax year 6	6.23%	2,382,617	16,793,052	1,191,308	27,518,652
Tax year 7	5.90%	2,256,411	19,049,463	1,128,205	28,646,858
Tax year 8	5.90%	2,256,411	21,305,873	1,128,205	29,775,063
Tax year 9	5.91%	2,260,235	23,566,109	1,130,118	30,905,181
Tax year 10	5.90%	2,256,411	25,822,520	1,128,205	32,033,386
Tax year 11	5.91%	2,260,235	28,082,755	1,130,118	33,163,504
Tax year 12	5.90%	2,256,411	30,339,166	1,128,205	34,291,710
Tax year 13	5.91%	2,260,235	32,599,401	1,130,118	35,421,827
Tax year 14	5.90%	2,256,411	34,855,812	1,128,205	36,550,033
Tax year 15	5.91%	2,260,235	37,116,048	1,130,116	37,680,150
Tax year 16	2.95%	1,128,205	38,244,253	564,103	38,244,253
Total	100.00%	38,244,253		38,244,253	

		Year 1
Accumulated depreciation		
Portion of year in service before rider	17%	
Pre-rider amount of depreciation	94,272	
Rider year BOY amount		94,272
Depreciation expense		554,542
Rider year EOY amount		648,814
Average accumulated depreciation		371,543

MACRS 15

Tax depreciation reserve		Year 1
FY of completion tax depreciation	1,912,213	
Post FY tax depreciation to rider date	17%	
Tax year 2 tax depreciation	3,633,204	
Tax year 2 pre rider tax depr	617,645	
Rider year BOY amount		2,529,857
Tax period A tax depreciation		3,015,559
Tax period B tax depreciation		555,880
Rider year EOY amount		6,101,297
Average tax depreciation reserve		4,315,577

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

Accumulated deferred taxes	
Average tax depreciation reserve	4,315,577
Average book depreciation reserve	371,543
Difference	3,944,034
Composite tax rate	39.23%
Average ADIT	1,547,247

Note: composite tax rate ignores excess deferred tax flowback

BONUS 50%

Tax depreciation reserve		
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
Tax period A tax depreciation		1,507,780
Tax period B tax depreciation		277,940
Rider year EOY amount		22,172,775
Average tax depreciation reserve		21,279,915

Accumulated deferred taxes	
Average tax depreciation reserve	21,279,915
Average book depreciation reserve	371,543
Difference	20,908,372
Composite tax rate	39.23%
Average ADIT	8,201,309

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 17-_____

2017 IMR Annual Report
Schedule 11

Tennessee Allocated NOL Carryforward As of November 30, 2017

Line No.				Line Computation
1	2013	Taxable Income	(20,072,959)	
2		Allocated NOL	(7,647,003)	
3	2014	Taxable Income	(70,327,409)	
4		Allocated NOL	(48,689,253)	
5	2015	Taxable Income	35,741,137	
6		Allocated NOL	-	
7	2016	Taxable Income	(7,598,842)	
8		Allocated NOL	(4,948,286)	
9	TN Allocated NOL Carryforward		(61,284,542)	Line 9 = Lines 2 + 4 + 6 + 8
10	Federal Tax Rate		0.35	
11	TN Tax Benefit of NOL Carryforward		(21,449,590)	Line 11 = Line 9 x Line 10

Schedule of Prior Period Adjustments

None

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.

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 16-00140

Tennessee Allocated NOL Carryforward

2013	Taxable Income	(20,072,959)
	Allocated NOL	(17,807,061)
2014	Taxable Income	(70,327,409)
	Allocated NOL	(48,689,253)
2015	Taxable Income	35,741,137
	Allocated NOL	-
2016	Taxable Income	(9,075,049)
	Allocated NOL	(6,662,131)
TN Allocated NOL Carryforward		(73,158,445)
TN Tax Benefit of NOL Carryforward		(25,605,456)

	ADIT	**NOL Benefit**
Vintage 1 - Year 4	(24,529,845)	24,529,845
Vintage 2 - Year 3	(12,745,341)	1,075,611
Vintage 3 - Year 2	(4,170,784)	-
Vintage 4 - Year 1	(4,305,362)	-

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

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

		Current Vintage Year: Vintage Year 6			All Vintage Years
Line No.		November 2017 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of November 2017 [3]	Cumulative Capital Expenditure as of November 2017 [6]
	TN Direct				
1	Corrosion Control	$ 18,795.93		$ 18,795.93	$ 5,792,445.74
2	Casing Remediation	$ 36,484.24		$ 36,484.24	$ 848,689.17
3	Distribution Integrity	$ 3,241,458.43		$ 3,241,458.43	$ 57,309,926.22
4	Transmission Integrity	$ 439,201.49		$ 439,201.49	$ 180,609,211.49
5	Total	$ 3,735,940.09	$ -	$ 3,735,940.09	$ 244,560,272.62
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ 295,369.55		$ 295,369.55	$ 131,625,773.00
7	TN % of CO-3 for Current Month [4]	16.30%			
8	Total Allocated to TN	$ 48,145.24		$ 48,145.24	$ 23,167,638.66
9	Total Capital Expenditures [Line 5 + Line 8]	$ 3,784,085.33	$ -	$ 3,784,085.33	$ 267,727,911.28
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 3,784,085.33**	**$ -**	**$ 3,784,085.33**	**$ 234,827,911.28**

#REF!

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 and 5, which captures amounts through 10/31/17, is $231,043,825.95 ($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 and $38,244,253.18 for Vintage 5).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	November 2017
1	CORR-Corrosion Control	FP1734186	17	Nashville New Rectifier & Ground Be	$ 192.58
2	CORR-Corrosion Control	FP1734388	17	Nashville MAG Anode 2017	18,603.35
3	CSNG-Casing & Remediation	FP1734373	17	Hartsville Casing Removal	36,484.24
4	DIMP-Distribution Integrity	FP1733763	17	Harding Place	182,601.19
5	DIMP-Distribution Integrity	FP1733764	17	Sunnyside Drive	54,807.91
6	DIMP-Distribution Integrity	FP1733766	17	Overhill Circle	1,486.82
7	DIMP-Distribution Integrity	FP1733767	17	Fesslers LN	239.93
8	DIMP-Distribution Integrity	FP1733931	17	Shelby Park RR Bridge Project	1,147,137.21
9	DIMP-Distribution Integrity	FP1733947	17	Nolensville Rd Over RR S of I-440	2,650.64
10	DIMP-Distribution Integrity	FP1734408	17	3rd and Hart Station Valves	7,605.69
11	DIMP-Distribution Integrity	FP1734411	17	Knapp Blvd	21,824.82
12	DIMP-Distribution Integrity	FP1734415	17	Foster Ave	5,003.37
13	DIMP-Distribution Integrity	FP1734416	17	Sadler Ave and Fox Ave	4,053.84
14	DIMP-Distribution Integrity	FP1734418	17	Turner St Renewal	956,028.66
15	DIMP-Distribution Integrity	FP1734420	17	Snyder Street @ Lovell Street	1,441.09
16	DIMP-Distribution Integrity	FP1734421	17	4th Ave South Insertion	112,399.08
17	DIMP-Distribution Integrity	FP1734422	17	Lynwood Blvd / Tyne Blvd _ DIM	44,737.90
18	DIMP-Distribution Integrity	FP1734431	17	Murfreesboro Road at ForestVie	(186.83)
19	DIMP-Distribution Integrity	FP1734478	17	3rd Ave North Steel Replacement	20,428.85
20	DIMP-Distribution Integrity	FP1734480	17	Emergency Nesbit Lane	112,140.77
21	DIMP-Distribution Integrity	FP1734569	17	Enviro Science DIMP Project	244,853.97
22	DIMP-Distribution Integrity	FP1734592	17	Elm Hill Pk Ext	(23.01)
23	DIMP-Distribution Integrity	FP1734647	17	Grassmere Park Road	48,060.66
24	DIMP-Distribution Integrity	FP1734672	17	12th Ave N at Grundy St.	12,361.52
25	DIMP-Distribution Integrity	FP1734726	17	Cowan St HP Distribution Pipeline	0.62
26	DIMP-Distribution Integrity	FP1734749	17	2nd Ave N and Jefferson Leak	108,331.15
27	DIMP-Distribution Integrity	FP1734770	17	Ash Street and 2nd Ave S DIMP	96,327.90
28	DIMP-Distribution Integrity	FP1734808	17	Regulator Install for Shelby S	57,144.68
29	TIMP-Transmission Integrity	FP1733398	17	South Nashville 20"	6,426.17
30	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	196,054.01
31	TIMP-Transmission Integrity	FP1734120	17	Line 311 Replacement	236,721.31
32	ISENP-Information Serv Enterprise	FP0026658	17	Work & Asset Management (OASIS)	295,369.55

	Total (unallocated)	**$ 4,031,309.64**
33	*subtotal: TN Direct (unallocated)*	*$ 3,735,940.09*
34	*subtotal: CO-3 (unallocated)*	*$ 295,369.55*
		$ 4,031,309.64

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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. 25351

Line No.			Nov-17
1	Beginning Balance	*Prior Month's IMR Report*	$ 6,573,861.54
2	IMR Revenue Recognition	*Prior Annual IMR Report*	2,002,041.71
3	(Collections from IM Adjustment)	*see Separate Schedule*	(1,902,020.12)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	6,673,883.13
5	Average Balance	*(Line 1 + Line 4) /2*	6,623,872.34
6	Accrued Interest	*Line 5 * Line 9*	23,236.54
7	Ending Balance After Interest	*Line 4 + Line 6*	$ 6,697,119.67
8	Applicable Annual Interest Rate	*same as for ACA*	0.042100
9	Monthly Interest Rate	*Line 8 / 12*	0.003508
10	Actual GL #25351 EOM Balance	*per GL*	$ 6,697,119.67
11	Variance	*Line 7 - Line 10*	$ -

Journal Entry: To Record Revenue

01 01 25351 3 17 6250 489	2,002,041.71
01 01 48010 3 17 6220 489	(1,194,097.76)
01 01 48110 3 17 6220 489	(624,637.01)
01 01 48120 3 17 6220 489	(27,007.55)
01 01 48300 3 17 6220 489	(560.57)
01 01 48900 3 17 6220 489	(155,738.82)

Journal Entry: To Record Interest

01 01 25351 3 17 6250 626	23,236.54
01 01 43101 3 17 6220 626	(23,236.54)

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		November 2017				
		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
Line No.						
1	Residential (301)	0.13124		7,769,511		1,019,670.62
2	Small General Sales (302)	0.11465		4,067,386		466,325.80
3	Medium General Sales (352)	0.11465		1,509,261		173,036.77
4	Experimental Motor Vehicle Fuel (343/352)	0.11465		2,359		270.46
5	Firm Lg General Sales (303)	0.05092		650,515		33,124.22
6	Experimental Motor Vehicle Fuel (343/303)	0.05092		28,710		1,461.91
7	Firm Lg General Transportation (313)	0.05092		1,891,428		96,311.51
8	Experimental Motor Vehicle Fuel (343/313)	0.05092		126,009		6,416.38
9	Firm Resale (310)	0.05092		1,525		77.65
10	Interruptible Lg General Sales (304)	0.01273		40,811		519.52
11	Interruptible Lg General Transportation (314)	0.01273		8,232,936		104,805.28
12	**Total**					**$ 1,902,020.12**

Journal Entry: To Record Collections

01 01 48010 3 17 6220 489	1,019,670.62
01 01 48110 3 17 6220 489	466,325.80
01 01 48110 3 17 6220 489	173,307.23
01 01 48120 3 17 6220 489	34,586.13
01 01 48900 3 17 6220 489	102,727.89
01 01 48300 3 17 6220 489	77.65
01 01 48120 3 17 6220 489	519.52
01 01 48900 3 17 6220 489	104,805.28
01 01 25351 3 17 6250 489	(1,902,020.12)
	-

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

Cumulative Integrity Management Investment Amount

Actual Integrity Management Investment, by Integrity Project Type

Line No.		Current Vintage Year: Vintage Year 6			All Vintage Years
		December 2017 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of December 2017 [3]	Cumulative Capital Expenditure as of December 2017 [6]
	TN Direct				
1	Corrosion Control	$ 5,096.88	$ 18,795.93	$ 23,892.81	$ 5,797,542.62
2	Casing Remediation	$ -	$ 36,484.24	$ 36,484.24	$ 848,689.17
3	Distribution Integrity	$ 1,953,490.10	$ 3,241,458.43	$ 5,194,948.53	$ 59,263,416.32
4	Transmission Integrity	$ 1,103,298.89	$ 439,201.49	$ 1,542,500.38	$ 181,712,510.38
5	Total	$ 3,061,885.87	$ 3,735,940.09	$ 6,797,825.96	$ 247,622,158.49
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ 1,095,148.22	$ 295,369.55	$ 1,390,517.77	$ 132,720,921.22
7	TN % of CO-3 for Current Month [4]	16.30%			
8	Total Allocated to TN	$ 178,509.16	$ 48,145.24	$ 226,654.40	$ 23,346,147.82
9	Total Capital Expenditures [Line 5 + Line 8]	$ 3,240,395.03	$ 3,784,085.33	$ 7,024,480.36	$ 270,968,306.31
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 3,240,395.03**	**$ 3,784,085.33**	**$ 7,024,480.36**	**$ 238,068,306.31**

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 and 5, which captures amounts through 10/31/17, is $231,043,825.95 ($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 and $38,244,253.18 for Vintage 5).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	December 2017
1	CORR-Corrosion Control	FP1734186	17	Nashville New Rectifier & Ground Be	$ 193.81
2	CORR-Corrosion Control	FP1734388	17	Nashville MAG Anode 2017	4,903.07
3	DIMP-Distribution Integrity	FP1733763	17	Harding Place	312,368.31
4	DIMP-Distribution Integrity	FP1733764	17	Sunnyside Drive	103,144.68
5	DIMP-Distribution Integrity	FP1733767	17	Fesslers LN	281,185.76
6	DIMP-Distribution Integrity	FP1733885	17	2nd Ave North 14" Replacement	(7,324.57)
7	DIMP-Distribution Integrity	FP1733931	17	Shelby Park RR Bridge Project	126,943.17
8	DIMP-Distribution Integrity	FP1734408	17	3rd and Hart Station Valves	14,626.76
9	DIMP-Distribution Integrity	FP17334410	17	Georgia Ave Renewal	1,078.22
10	DIMP-Distribution Integrity	FP1734411	17	Knapp Blvd	44,443.85
11	DIMP-Distribution Integrity	FP17334413	17	McMurray Blvd Royal Elm Circle	157,103.59
12	DIMP-Distribution Integrity	FP1734415	17	Foster Ave	596,800.53
13	DIMP-Distribution Integrity	FP1734416	17	Sadler Ave and Fox Ave	27,161.51
14	DIMP-Distribution Integrity	FP1734420	17	Snyder Street @ Lovell Street	31,872.08
15	DIMP-Distribution Integrity	FP1734421	17	4th Ave South Insertion	47,100.08
16	DIMP-Distribution Integrity	FP1734422	17	Lynwood Blvd / Tyne Blvd _ DIM	37,361.72
17	DIMP-Distribution Integrity	FP1734431	17	Murfreesboro Road at ForestVie	12,560.56
18	DIMP-Distribution Integrity	FP1734480	17	Emergency Nesbit Lane	(104,237.87)
19	DIMP-Distribution Integrity	FP1734614	17	Loretta Drive Replacement	1,043.43
20	DIMP-Distribution Integrity	FP1734672	17	12th Ave N at Grundy St.	241,636.54
21	DIMP-Distribution Integrity	FP1734726	17	Cowan St HP Distribution Pipeline	0.62
22	DIMP-Distribution Integrity	FP1734770	17	Ash Street and 2nd Ave S DIMP	11,815.32
23	DIMP-Distribution Integrity	FP1734808	17	Regulator Install for Shelby S	3,105.46
24	DIMP-Distribution Integrity	FP1734812	17	Haverford Ave.	7,027.50
25	DIMP-Distribution Integrity	FP1734823	17	240 Blackman Rd DIMP	6,672.85
26	TIMP-Transmission Integrity	FP1733398	17	South Nashville 20"	16,538.37
27	TIMP-Transmission Integrity	FP1733989	17	Line 310 T Cut Out R1	(4,568.44)
28	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	630,606.00
29	TIMP-Transmission Integrity	FP1734120	17	Line 311 Replacement	460,722.96
30	ISENP-Information Serv Enterprise	FP0026658	17	Work & Asset Management (OASIS)	1,095,148.22

	Total (unallocated)	**$ 4,157,034.09**
31	*subtotal: TN Direct (unallocated)*	*$ 3,061,885.87*
32	*subtotal: CO-3 (unallocated)*	*$ 1,095,148.22*
		$ 4,157,034.09

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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. 25351

Line No.				Dec-17
1	Beginning Balance	*Prior Month's IMR Report*	$	6,697,119.67
2	IMR Revenue Recognition	*Prior Annual IMR Report*		3,187,226.34
3	(Collections from IM Adjustment)	*see Separate Schedule*		(3,469,548.38)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*		6,414,797.63
5	Average Balance	*(Line 1 + Line 4) /2*		6,555,958.65
6	Accrued Interest	*Line 5 * Line 9*		22,998.30
7	Ending Balance After Interest	*Line 4 + Line 6*	$	6,437,795.93
8	Applicable Annual Interest Rate	*same as for ACA*		0.042100
9	Monthly Interest Rate	*Line 8 / 12*		0.003508
10	Actual GL #25351 EOM Balance	*per GL*	$	6,437,795.93
11	Variance	*Line 7 - Line 10*	$	-

Journal Entry: To Record Revenue

01 01 25351 3 17 6250 489	3,187,226.34
01 01 48010 3 17 6220 489	(1,900,989.28)
01 01 48110 3 17 6220 489	(994,414.62)
01 01 48120 3 17 6220 489	(42,995.68)
01 01 48300 3 17 6220 489	(892.42)
01 01 48900 3 17 6220 489	(247,934.34)

Journal Entry: To Record Interest

01 01 25351 3 17 6250 626	22,998.30
01 01 43101 3 17 6220 626	(22,998.30)

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support
Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		December 2017				
		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
Line No.						
1	Residential (301)	0.13124		16,119,598		2,115,536.04
2	Small General Sales (302)	0.11465		6,830,906		783,163.37
3	Medium General Sales (352)	0.11465		2,313,325		265,222.71
4	Experimental Motor Vehicle Fuel (343/352)	0.11465		1,432		164.18
5	Firm Lg General Sales (303)	0.05092		1,013,265		51,595.45
6	Experimental Motor Vehicle Fuel (343/303)	0.05092		29,097		1,481.62
7	Firm Lg General Transportation (313)	0.05092		2,408,475		122,639.55
8	Experimental Motor Vehicle Fuel (343/313)	0.05092		122,696		6,247.68
9	Firm Resale (310)	0.05092		2,928		149.09
10	Interruptible Lg General Sales (304)	0.01273		41,307		525.84
11	Interruptible Lg General Transportation (314)	0.01273		9,648,299		122,822.85
12	**Total**					**$ 3,469,548.38**

Journal Entry: To Record Collections

01 01 48010 3 17 6220 489	2,115,536.04
01 01 48110 3 17 6220 489	783,163.37
01 01 48110 3 17 6220 489	265,386.89
01 01 48120 3 17 6220 489	53,077.07
01 01 48900 3 17 6220 489	128,887.23
01 01 48300 3 17 6220 489	149.09
01 01 48120 3 17 6220 489	525.84
01 01 48900 3 17 6220 489	122,822.85
01 01 25351 3 17 6250 489	(3,469,548.38)
	-

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

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

		Current Vintage Year: Vintage Year 6			All Vintage Years
Line No.		January 2018 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of January 2018 [3]	Cumulative Capital Expenditure as of January 2018 [6]
	TN Direct				
1	Corrosion Control	$ -	$ 23,892.81	$ 23,892.81	$ 5,797,542.62
2	Casing Remediation	$ -	$ 36,484.24	$ 36,484.24	$ 848,689.17
3	Distribution Integrity	$ 869,216.01	$ 5,194,948.53	$ 6,064,164.54	$ 60,132,632.33
4	Transmission Integrity	$ 326,164.03	$ 1,542,500.38	$ 1,868,664.41	$ 182,038,674.41
5	Total	$ 1,195,380.04	$ 6,797,825.96	$ 7,993,206.00	$ 248,817,538.53
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ 610,658.18	$ 1,390,517.77	$ 2,001,175.95	$ 133,331,579.40
7	TN % of CO-3 for Current Month [4]	16.33%			
8	Total Allocated to TN	$ 99,720.48	$ 226,654.40	$ 326,374.88	$ 23,445,868.30
9	Total Capital Expenditures [Line 5 + Line 8]	$ 1,295,100.52	$ 7,024,480.36	$ 8,319,580.88	$ 272,263,406.83
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 1,295,100.52**	**$ 7,024,480.36**	**$ 8,319,580.88**	**$ 239,363,406.83**

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 and 5, which captures amounts through 10/31/17, is $231,043,825.95 ($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 and $38,244,253.18 for Vintage 5).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	January 2018
1	DIMP-Distribution Integrity	FP1733763	17	Harding Place	$ 139,254.15
2	DIMP-Distribution Integrity	FP1733764	17	Sunnyside Drive	(14.83)
3	DIMP-Distribution Integrity	FP1733767	17	Fesslers LN	26,299.89
4	DIMP-Distribution Integrity	FP1733931	17	Shelby Park RR Bridge Project	1,239.88
5	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	198,260.70
6	TIMP-Transmission Integrity	FP1734120	17	Line 431 Replacement	127,903.33
7	DIMP-Distribution Integrity	FP1734408	17	3rd and Hart Station Valves	10,984.85
8	DIMP-Distribution Integrity	FP1734412	17	Vine Ridge Drive	16,128.58
9	DIMP-Distribution Integrity	FP1734415	17	Foster Ave	(50,400.00)
10	DIMP-Distribution Integrity	FP1734416	17	Sadler Ave and Fox Ave	127,075.14
11	DIMP-Distribution Integrity	FP1734420	17	Synder Street @ Lovell Street	99,688.29
12	DIMP-Distribution Integrity	FP1734421	17	4th Ave South Insertion	128,238.55
13	DIMP-Distribution Integrity	FP1734422	17	Lynwood Blvd / Tyne Blvd _ DIM	51,547.17
14	DIMP-Distribution Integrity	FP1734478	17	3rd Ave North Steel Replacment	10,170.30
15	DIMP-Distribution Integrity	FP1734480	17	Emergency Nesbit Ln	106,070.40
16	DIMP-Distribution Integrity	FP1734726	17	Cowan St HP Distribution Pipeline	30,852.88
17	DIMP-Distribution Integrity	FP1734770	17	Ash Street and 2nd Ave S DIMP	3,770.00
18	DIMP-Distribution Integrity	FP1734799	17	Nashville Bridge Attachments	200.00
19	DIMP-Distribution Integrity	FP1734807	17	Wingo Regulator Station Remova	5,546.16
20	DIMP-Distribution Integrity	FP1734808	17	Regulator Install for Shelby S	246.90
21	DIMP-Distribution Integrity	FP1734812	17	Haverford Ave.	11,372.16
22	DIMP-Distribution Integrity	FP1734819	17	Shelby Railroad Tressell Retir	3,811.04
23	DIMP-Distribution Integrity	FP1734823	17	240 Blackman Rd DIMP	147,134.50
24	ISENP-Information Serv Enterprise	FP0026658	17	Work & Asset Management (OASIS)	610,658.18

	Total (unallocated)	**$ 1,806,038.22**
25	*subtotal: TN Direct (unallocated)*	*$ 1,195,380.04*
26	*subtotal: CO-3 (unallocated)*	*$ 610,658.18*
		$ 1,806,038.22

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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. 25351

Line No.				Jan-18
1	Beginning Balance	*Prior Month's IMR Report*	$	6,437,795.93
2	IMR Revenue Recognition	*Prior Annual IMR Report*		3,968,987.70
3	(Collections from IM Adjustment)	*see Separate Schedule*		(6,579,658.39)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*		3,827,125.24
5	Average Balance	*(Line 1 + Line 4) /2*		5,132,460.59
6	Accrued Interest	*Line 5 * Line 9*		18,179.18
7	Ending Balance After Interest	*Line 4 + Line 6*	$	3,845,304.42
8	Applicable Annual Interest Rate	*same as for ACA*		0.042500
9	Monthly Interest Rate	*Line 8 / 12*		0.003542
10	Actual GL #25351 EOM Balance	*per GL*	$	3,845,304.42
11	Variance	*Line 7 - Line 10*	$	-

Journal Entry: To Record Revenue	
01 01 25351 3 17 6250 489	3,968,987.70
01 01 48010 3 17 6220 489	(2,367,263.02)
01 01 48110 3 17 6220 489	(1,238,324.16)
01 01 48120 3 17 6220 489	(53,541.65)
01 01 48300 3 17 6220 489	(1,111.32)
01 01 48900 3 17 6220 489	(308,747.55)

Journal Entry: To Record Interest	
01 01 25351 3 17 6250 626	18,179.18
01 01 43101 3 17 6220 626	(18,179.18)

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		January 2018				
		IM Adjustment		Usage		Collections
Line No.		($ per therm)	x	(therms)	=	($)
1	Residential (301)	0.13124		31,969,737		4,195,708.28
2	Small General Sales (302)	0.11465		13,600,104		1,559,251.92
3	Medium General Sales (352)	0.11465		4,153,038		476,145.81
4	Experimental Motor Vehicle Fuel (343/352)	0.11465		1,405		161.08
5	Firm Lg General Sales (303)	0.05092		1,211,038		61,666.05
6	Experimental Motor Vehicle Fuel (343/303)	0.05092		30,669		1,561.67
7	Firm Lg General Transportation (313)	0.05092		2,787,484		141,938.69
8	Experimental Motor Vehicle Fuel (343/313)	0.05092		126,560		6,444.44
9	Firm Resale (310)	0.05092		3,506		178.53
10	Interruptible Lg General Sales (304)	0.01273		32,497		413.69
11	Interruptible Lg General Transportation (314)	0.01273		10,698,211		136,188.23
12	**Total**					**$ 6,579,658.39**

Journal Entry: To Record Collections

01 01 48010 3 17 6220 489	4,195,708.28
01 01 48110 3 17 6220 489	1,559,251.92
01 01 48110 3 17 6220 489	476,306.89
01 01 48120 3 17 6220 489	63,227.72
01 01 48900 3 17 6220 489	148,383.13
01 01 48300 3 17 6220 489	178.53
01 01 48120 3 17 6220 489	413.69
01 01 48900 3 17 6220 489	136,188.23
01 01 25351 3 17 6250 489	(6,579,658.39)

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

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

		Current Vintage Year: Vintage Year 6			All Vintage Years
Line No.		February 2018 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of February 2018 [3]	Cumulative Capital Expenditure as of February 2018 [6]
	TN Direct				
1	Corrosion Control	$ -	$ 23,892.81	$ 23,892.81	$ 5,797,542.62
2	Casing Remediation	$ -	$ 36,484.24	$ 36,484.24	$ 848,689.17
3	Distribution Integrity	$ 920,861.89	$ 6,064,164.54	$ 6,985,026.43	$ 61,053,494.22
4	Transmission Integrity	$ 1,048,913.42	$ 1,868,664.41	$ 2,917,577.83	$ 183,087,587.83
5	Total	$ 1,969,775.31	$ 7,993,206.00	$ 9,962,981.31	$ 250,787,313.84
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ 530,432.82	$ 2,001,175.95	$ 2,531,608.77	$ 133,862,012.22
7	TN % of CO-3 for Current Month [4]	16.33%			
8	Total Allocated to TN	$ 86,619.68	$ 326,374.88	$ 412,994.56	$ 23,532,487.98
9	Total Capital Expenditures [Line 5 + Line 8]	$ 2,056,394.99	$ 8,319,580.88	$ 10,375,975.87	$ 274,319,801.82
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 2,056,394.99**	**$ 8,319,580.88**	**$ 10,375,975.87**	**$ 241,419,801.82**

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 and 5, which captures amounts through 10/31/17, is $231,043,825.95 ($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 and $38,244,253.18 for Vintage 5).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	February 2018
1	DIMP-Distribution Integrity	FP1733763	17	Harding Place	$ 134,302.31
2	DIMP-Distribution Integrity	FP1733764	17	Sunnyside Drive	150.23
3	DIMP-Distribution Integrity	FP1733766	17	Overhill Circle	17,510.85
4	DIMP-Distribution Integrity	FP1733767	17	Fesslers LN	673.48
5	DIMP-Distribution Integrity	FP1733931	17	Shelby Park RR Bridge Project	21,240.04
6	DIMP-Distribution Integrity	FP1734408	17	3rd and Hart Station Valves	21,283.39
7	DIMP-Distribution Integrity	FP1734412	17	Vine Ridge Drive	369,311.97
8	DIMP-Distribution Integrity	FP1734415	17	Foster Ave	110.21
9	DIMP-Distribution Integrity	FP1734416	17	Sadler Ave and Fox Ave	33,959.99
10	DIMP-Distribution Integrity	FP1734420	17	Synder Street @ Lovell Street	1,960.10
11	DIMP-Distribution Integrity	FP1734421	17	4th Ave South Insertion	45,106.65
12	DIMP-Distribution Integrity	FP1734422	17	Lynwood Blvd / Tyne Blvd _ DIM	38,462.26
13	DIMP-Distribution Integrity	FP1734431	17	Murfreesboro Rd at Forest Vie	18.20
14	DIMP-Distribution Integrity	FP1734480	17	Emergency Nesbit Ln	49,268.19
15	DIMP-Distribution Integrity	FP1734726	17	Cowan St HP Distribution Pipeline	18,728.72
16	DIMP-Distribution Integrity	FP1734770	17	Ash Street and 2nd Ave S DIMP	441.23
17	DIMP-Distribution Integrity	FP1734799	17	Nashville Bridge Attachments	428.08
18	DIMP-Distribution Integrity	FP1734807	17	Wingo Regulator Station Remova	8,479.28
19	DIMP-Distribution Integrity	FP1734808	17	Regulator Install for Shelby S	411.72
20	DIMP-Distribution Integrity	FP1734812	17	Haverford Ave.	1,661.23
21	DIMP-Distribution Integrity	FP1734818	17	Bryan St #1852	565.98
22	DIMP-Distribution Integrity	FP1734819	17	Shelby Railroad Tressell Retir	1,768.50
23	DIMP-Distribution Integrity	FP1734823	17	240 Blackman Rd DIMP	19,017.23
24	DIMP-Distribution Integrity	FP1734824	17	Childrens Way	136,002.05
25	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	377,114.43
26	TIMP-Transmission Integrity	FP1734120	17	Line 431 Replacement	671,798.99
27	ISENP-Information Serv Enterprise	FP0026658	17	Work & Asset Management (OASIS)	530,432.82

	Total (unallocated)	**$ 2,500,208.13**
28	*subtotal: TN Direct (unallocated)*	*$ 1,969,775.31*
29	*subtotal: CO-3 (unallocated)*	*$ 530,432.82*
		$ 2,500,208.13

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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. 25351

Line No.				Feb-18
1	Beginning Balance	*Prior Month's IMR Report*	$	3,845,304.42
2	IMR Revenue Recognition	*Prior Annual IMR Report*		3,776,922.54
3	(Collections from IM Adjustment)	*see Separate Schedule*		(4,960,934.66)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*		2,661,292.30
5	Average Balance	*(Line 1 + Line 4) /2*		3,253,298.36
6	Accrued Interest	*Line 5 * Line 9*		11,523.18
7	Ending Balance After Interest	*Line 4 + Line 6*	$	2,672,815.48
8	Applicable Annual Interest Rate	*same as for ACA*		0.042500
9	Monthly Interest Rate	*Line 8 / 12*		0.003542
10	Actual GL #0253139 EOM Balance	*per GL*	$	2,672,815.48
11	Variance	*Line 7 - Line 10*	$	-

Journal Entry: To Record Revenue	
01 01 25351 3 17 6250 489	3,776,922.54
01 01 48010 3 17 6220 489	(2,252,707.68)
01 01 48110 3 17 6220 489	(1,178,399.83)
01 01 48120 3 17 6220 489	(50,950.69)
01 01 48300 3 17 6220 489	(1,057.54)
01 01 48900 3 17 6220 489	(293,806.80)

Journal Entry: To Record Interest	
01 01 25351 3 17 6250 626	11,523.18
01 01 43101 3 17 6220 626	(11,523.18)

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		February 2018				
		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
Line No.						
1	Residential (301)	0.13124		24,618,181		3,230,890.07
2	Small General Sales (302)	0.11465		9,943,883		1,140,066.19
3	Medium General Sales (352)	0.11465		2,924,912		335,341.16
4	Experimental Motor Vehicle Fuel (343/352)	0.11465		955		109.49
5	Firm Lg General Sales (303)	0.05092		732,136		37,280.37
6	Experimental Motor Vehicle Fuel (343/303)	0.05092		28,242		1,438.08
7	Firm Lg General Transportation (313)	0.05092		2,020,858		102,902.09
8	Experimental Motor Vehicle Fuel (343/313)	0.05092		117,006		5,957.95
9	Firm Resale (310)	0.05092		1,743		88.75
10	Interruptible Lg General Sales (304)	0.01273		16,603		211.36
11	Interruptible Lg General Transportation (314)	0.01273		8,377,781		106,649.15
12	**Total**					**$ 4,960,934.66**

Journal Entry: To Record Collections	
01 01 48010 3 17 6220 489	3,230,890.07
01 01 48110 3 17 6220 489	1,140,066.19
01 01 48110 3 17 6220 489	335,450.65
01 01 48120 3 17 6220 489	38,718.45
01 01 48900 3 17 6220 489	108,860.04
01 01 48300 3 17 6220 489	88.75
01 01 48120 3 17 6220 489	211.36
01 01 48900 3 17 6220 489	106,649.15
01 01 25351 3 17 6250 489	(4,960,934.66)
	-

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

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

		Current Vintage Year: Vintage Year 6			All Vintage Years
Line No.		March 2018 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of March 2018 [3]	Cumulative Capital Expenditure as of March 2018 [6]
	TN Direct				
1	Corrosion Control	$ 39,825.04	$ 23,892.81	$ 63,717.85	$ 5,837,367.66
2	Casing Remediation	$ -	$ 36,484.24	$ 36,484.24	$ 848,689.17
3	Distribution Integrity	$ 398,208.45	$ 6,985,026.43	$ 7,383,234.88	$ 61,451,702.67
4	Transmission Integrity	$ (223,569.36)	$ 2,917,577.83	$ 2,694,008.47	$ 182,864,018.47
5	Total	$ 214,464.13	$ 9,962,981.31	$ 10,177,445.44	$ 251,001,777.97
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ 18,284.48	$ 2,531,608.77	$ 2,549,893.25	$ 133,880,296.70
7	TN % of CO-3 for Current Month [4]	16.33%			
8	Total Allocated to TN	$ 2,985.86	$ 412,994.56	$ 415,980.42	$ 23,535,473.84
9	Total Capital Expenditures [Line 5 + Line 8]	$ 217,449.99	$ 10,375,975.87	$ 10,593,425.86	$ 274,537,251.81
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 217,449.99**	**$ 10,375,975.87**	**$ 10,593,425.86**	**$ 241,637,251.81**

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 and 5, which captures amounts through 10/31/17, is $231,043,825.95 ($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 and $38,244,253.18 for Vintage 5).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	March 2018
1	DIMP-Distribution Integrity	FP1733763	17	Harding Place	$ 164,948.58
2	DIMP-Distribution Integrity	FP1733764	17	Sunnyside Drive	1,206.71
3	DIMP-Distribution Integrity	FP1733931	17	Shelby Park RR Bridge Project	12,062.26
4	DIMP-Distribution Integrity	FP1734408	17	3rd and Hart Station Valves	(576.59)
5	DIMP-Distribution Integrity	FP1734416	17	Sadler Ave and Fox Ave	1,900.26
6	DIMP-Distribution Integrity	FP1734421	17	4th Ave South Insertion	534.72
7	DIMP-Distribution Integrity	FP1734422	17	Lynwood Blvd / Tyne Blvd _ DIM	38,070.51
8	DIMP-Distribution Integrity	FP1734432	17	Visco Dt	1,573.18
9	DIMP-Distribution Integrity	FP1734726	17	Cowan St HP Distribution Pipeline	31,667.99
10	DIMP-Distribution Integrity	FP1734770	17	Ash Street and 2nd Ave S DIMP	146.62
11	DIMP-Distribution Integrity	FP1734799	17	Nashville Bridge Attachments	(499.18)
12	DIMP-Distribution Integrity	FP1734812	17	Haverford Ave.	1,275.79
13	DIMP-Distribution Integrity	FP1734818	17	Bryan St #1852	127,716.83
14	DIMP-Distribution Integrity	FP1734819	17	Shelby Railroad Tressell Retir	70.89
15	DIMP-Distribution Integrity	FP1734823	17	240 Blackman Rd DIMP	1,022.67
16	DIMP-Distribution Integrity	FP1734824	17	Childrens Way	17,087.21
17	CORR-Corrosion Control	FP1734721	17	Nashville Trans Remediation	2,299.13
18	CORR-Corrosion Control	FP1734720	17	Nashville HP Dist Remediation	2,299.13
19	CORR-Corrosion Control	F0214409	17	Nashville Rectifier (REM MON)	33,515.60
20	CORR-Corrosion Control	F0214742	17	Dickerson Rd @ Shevel St	411.18
21	CORR-Corrosion Control	FP1734388	17	Nashville Mag Anode 2017	1,300.00
22	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	(499,949.86)
23	TIMP-Transmission Integrity	FP1734120	17	Line 431 Replacement	276,380.50
24	ISENP-Information Serv Enterprise	FP0026658	17	Work & Asset Management (OASIS)	18,284.48

	Total (unallocated)	**$ 232,748.61**
25	*subtotal: TN Direct (unallocated)*	*$ 214,464.13*
26	*subtotal: CO-3 (unallocated)*	*$ 18,284.48*
		$ 232,748.61

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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. 25351

Line No.				**Mar-18**
1	Beginning Balance	*Prior Month's IMR Report*	$	2,672,815.48
2	IMR Revenue Recognition	*Prior Annual IMR Report*		2,851,853.96
3	(Collections from IM Adjustment)	*see Separate Schedule*		(2,856,175.22)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*		2,668,494.22
5	Average Balance	*(Line 1 + Line 4) /2*		2,670,654.85
6	Accrued Interest	*Line 5 * Line 9*		9,459.46
7	Ending Balance After Interest	*Line 4 + Line 6*	$	2,677,953.68
8	Applicable Annual Interest Rate	*same as for ACA*		0.042500
9	Monthly Interest Rate	*Line 8 / 12*		0.003542
10	Actual GL #0253139 EOM Balance	*per GL*	$	2,677,953.68
11	Variance	*Line 7 - Line 10*	$	-

Journal Entry: To Record Revenue	
47136 0253139 GA489 PTOP	2,851,853.96
47136 0480000 GA489 PTOP 0526 RESVAL	(1,700,959.78)
47136 0481200 GA489 PTOP 0526 COMSTD	(889,778.43)
47136 0481000 GA489 PTOP 0526 INDSLS	(38,471.51)
47136 0483011 GA489 PTOP 0526 GASRSL	(798.52)
47136 0489000 GA489 PTOP 0526 BOTHRV	(221,845.72)

Journal Entry: To Record Interest	
47136 0253139 GA626 PTOP	9,459.46
47136 0431150 GA626 PTOP 0526	(9,459.46)

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		March 2018				
		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
Line No.						
1	Residential (301)	0.13124		13,053,596		1,713,153.94
2	Small General Sales (302)	0.11465		5,976,208		685,172.25
3	Medium General Sales (352)	0.11465		1,647,324		188,865.70
4	Experimental Motor Vehicle Fuel (343/352)	0.11465		501		57.44
5	Firm Lg General Sales (303)	0.05092		758,566		38,626.18
6	Experimental Motor Vehicle Fuel (343/303)	0.05092		31,342		1,595.93
7	Firm Lg General Transportation (313)	0.05092		2,122,432		108,074.24
8	Experimental Motor Vehicle Fuel (343/313)	0.05092		124,796		6,354.61
9	Firm Resale (310)	0.05092		1,707		86.92
10	Interruptible Lg General Sales (304)	0.01273		19,005		241.93
11	Interruptible Lg General Transportation (314)	0.01273		8,950,988		113,946.08
12	**Total**					**$ 2,856,175.22**

Journal Entry: To Record Collections

47136 0480000 GA489 PTOP 0526 RESVAL	1,713,153.94
47136 0481200 GA489 PTOP 0526 COMSTD	685,172.25
47136 0481200 GA489 PTOP 0526 COMSTD	188,923.14
47136 0481000 GA489 PTOP 0526 INDSLS	40,222.11
47136 0489000 GA489 PTOP 0526 BOTHRV	114,428.85
47136 0483011 GA489 PTOP 0526 GASRSL	86.92
47136 0481000 GA489 PTOP 0526 INDSLS	241.93
47136 0489000 GA489 PTOP 0526 BOTHRV	113,946.08
47136 0253139 GA489 PTOP	(2,856,175.22)
	-

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

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

Line No.		Current Vintage Year: Vintage Year 6			All Vintage Years
		April 2018 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of April 2018 [3]	Cumulative Capital Expenditure as of April 2018 [6]
	TN Direct				
1	Corrosion Control	$ 78,665.53	$ 63,717.85	$ 142,383.38	$ 5,916,033.19
2	Casing Remediation	$ -	$ 36,484.24	$ 36,484.24	$ 848,689.17
3	Distribution Integrity	$ 1,238,146.47	$ 7,383,234.88	$ 8,621,381.35	$ 62,689,849.14
4	Transmission Integrity	$ 435,067.74	$ 2,694,008.47	$ 3,129,076.21	$ 183,299,086.21
5	Total	$ 1,751,879.74	$ 10,177,445.44	$ 11,929,325.18	$ 252,753,657.71
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ 8,068.57	$ 2,549,893.25	$ 2,557,961.82	$ 133,888,365.27
7	TN % of CO-3 for Current Month [4]	16.33%			
8	Total Allocated to TN	$ 1,317.60	$ 415,980.42	$ 417,298.02	$ 23,536,791.44
9	Total Capital Expenditures [Line 5 + Line 8]	$ 1,753,197.34	$ 10,593,425.86	$ 12,346,623.20	$ 276,290,449.15
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 1,753,197.34**	**$ 10,593,425.86**	**$ 12,346,623.20**	**$ 243,390,449.15**

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 and 5, which captures amounts through 10/31/17, is $231,043,825.95 ($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 and $38,244,253.18 for Vintage 5).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	April 2018
1	DIMP-Distribution Integrity	FP1733763	17	Harding Place	$ 1,010,515.37
2	DIMP-Distribution Integrity	FP1733764	17	Sunnyside Drive	(2.84)
3	DIMP-Distribution Integrity	FP1733931	17	Shelby Park RR Bridge Project	105,643.33
4	DIMP-Distribution Integrity	FP1734415	17	Foster Ave	(0.59)
5	DIMP-Distribution Integrity	FP1734416	17	Sadler Ave and Fox Ave	17,744.30
6	DIMP-Distribution Integrity	FP1734421	17	4th Ave South Insertion	37,727.43
7	DIMP-Distribution Integrity	FP1734422	17	Lynwood Blvd / Tyne Blvd _ DIM	41,859.21
8	DIMP-Distribution Integrity	FP1734430	17	Keaton Ave	1,692.70
9	DIMP-Distribution Integrity	FP1734432	17	Visco Dt	10.10
10	DIMP-Distribution Integrity	FP1734749	17	2nd Ave N and Jefferson Leak	9,445.54
11	DIMP-Distribution Integrity	FP1734726	17	Cowan St HP Distribution Pipeline	6,490.02
12	DIMP-Distribution Integrity	FP1734799	17	Nashville Bridge Attachments	0.83
13	DIMP-Distribution Integrity	FP1734807	17	Ringo Regulator Station Removal	(23.23)
14	DIMP-Distribution Integrity	FP1734808	17	Regulator Install for Shelby S	(10.25)
15	DIMP-Distribution Integrity	FP1734812	17	Haverford Ave.	693.64
16	DIMP-Distribution Integrity	FP1734818	17	Bryan St #1852	2,293.00
17	DIMP-Distribution Integrity	FP1734819	17	Shelby Railroad Tressell Retir	3,676.44
18	DIMP-Distribution Integrity	FP1734823	17	240 Blackman Rd DIMP	(442.97)
19	DIMP-Distribution Integrity	FP1734824	17	Childrens Way	(6.07)
20	DIMP-Distribution Integrity	FP0216309	17	Baxter Lane	840.51
21	CORR-Corrosion Control	FP1734721	17	Nashville Trans Remediation	13,810.75
22	CORR-Corrosion Control	FP1734720	17	Nashville HP Dist Remediation	60,151.67
23	CORR-Corrosion Control	F0214409	17	Nashville Rectifier (REM MON)	215.12
24	CORR-Corrosion Control	F0214742	17	Dickerson Rd @ Shevel St	4,310.46
25	CORR-Corrosion Control	FP1734388	17	Nashville Mag Anode 2017	177.53
26	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	121,336.69
27	TIMP-Transmission Integrity	FP1734120	17	Line 431 Replacement	313,731.05
28	ISENP-Information Serv Enterprise	FP0026658	17	Work & Asset Management (OASIS)	8,068.57

	Total (unallocated)	**$ 1,759,948.31**
25	*subtotal: TN Direct (unallocated)*	*$ 1,751,879.74*
26	*subtotal: CO-3 (unallocated)*	*$ 8,068.57*
		$ 1,759,948.31

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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

Line No.				Jan-18		Feb-18		Mar-18		Apr-18	
1	Beginning Balance	*Prior Month's IMR Report*	$	6,437,795.93	$	3,904,267.16	$	2,788,096.52	$	2,836,009.80	
2	IMR Revenue Recognition	*Prior Annual IMR Report*		4,027,846.21		3,832,932.80		2,894,145.82		1,870,245.82	1/
3	(Collections from IM Adjustment)	*see Separate Schedule*		(6,579,658.39)		(4,960,934.66)		(2,856,175.22)		(2,813,196.13)	
4	Ending Balance Before Interest	*sum Lines 1 thru 3*		3,885,983.75		2,776,265.30		2,826,067.12		1,893,059.49	
5	Average Balance	*(Line 1 + Line 4) /2*		5,161,889.84		3,340,266.23		2,807,081.82		2,364,534.65	
6	Accrued Interest	*Line 5 * Line 9*		18,283.41		11,831.22		9,942.68		8,807.89	
7	Ending Balance After Interest	*Line 4 + Line 6*	$	3,904,267.16	$	2,788,096.52	$	2,836,009.80	$	1,901,867.38	
8	Applicable Annual Interest Rate	*same as for ACA*		0.042500		0.042500		0.042500		0.044700	
9	Monthly Interest Rate	*Line 8 / 12*		0.003542		0.003542		0.003542		0.003725	
10	Actual GL #0253139 EOM Balance	*per GL*	$	3,845,304.42	$	2,672,815.48	$	2,677,953.68	$	1,715,841.89	
11	Variance	*Line 7 - Line 10*	$	58,962.74	$	115,281.04	$	158,056.12	$	186,025.49	2/

Journal Entry: To Record Revenue	Jan-18	Feb-18	Mar-18	Apr-18	
47136 0253139 GA489 PTOP	4,027,846.21	3,832,932.80	2,894,145.82	1,870,245.82	2/
47136 0480000 GA489 PTOP 0526 RESVAL	(2,402,368.59)	(2,286,114.44)	(1,726,184.34)	(1,115,489.42)	2/
47136 0481200 GA489 PTOP 0526 COMSTD	(1,256,688.01)	(1,195,875.04)	(902,973.49)	(583,516.70)	2/
47136 0481000 GA489 PTOP 0526 INDSLS	(54,335.65)	(51,706.26)	(39,042.03)	(25,229.61)	2/
47136 0483011 GA489 PTOP 0526 GASRSL	(1,127.80)	(1,073.22)	(810.36)	(523.67)	2/
47136 0489000 GA489 PTOP 0526 BOTHRV	(313,326.16)	(298,163.84)	(225,135.60)	(145,486.42)	2/

Journal Entry: To Record Interest	Jan-18	Feb-18	Mar-18	Apr-18	
47136 0253139 GA626 PTOP	18,283.41	11,831.22	9,942.68	8,807.89	2/
47136 0431150 GA626 PTOP 0526	(18,283.41)	(11,831.22)	(9,942.68)	(8,807.89)	2/

1/ Pursuant to the TPUC's May 14, 2018 ruling in Docket No. 17-00138, this schedule reflects the approved monthly amortization of the annual Integrity Management Revenue Requirement from Piedmont's 2017 Annual Integrity Management Rider Report, which was filed by the Company on November 30, 2017. See Exhibit A of the Direct Testimony of Pia K. Powers in Docket No. 17-00138 for the approved monthly amortization.

2/ Pursuant to the TPUC's ruling, Piedmont recorded the approved IM Revenue Requirement to its general ledger for January 2018 thru April 2018. It was recorded as a true-up adjustment in May 2018.

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		April 2018				
		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
Line No.						
1	Residential (301)	0.13124		12,942,568		1,698,582.62
2	Small General Sales (302)	0.11465		5,716,112		655,352.24
3	Medium General Sales (352)	0.11465		1,901,353		217,990.12
4	Experimental Motor Vehicle Fuel (343/352)	0.11465		726		83.24
5	Firm Lg General Sales (303)	0.05092		598,061		30,453.27
6	Experimental Motor Vehicle Fuel (343/303)	0.05092		29,889		1,521.95
7	Firm Lg General Transportation (313)	0.05092		1,847,138		94,056.27
8	Experimental Motor Vehicle Fuel (343/313)	0.05092		125,971		6,414.44
9	Firm Resale (310)	0.05092		1,185		60.34
10	Interruptible Lg General Sales (304)	0.01273		16,468		209.64
11	Interruptible Lg General Transportation (314)	0.01273		8,520,974		108,472.00
12	**Total**					**$ 2,813,196.13**

Journal Entry: To Record Collections

47136 0480000 GA489 PTOP 0526 RESVAL	1,698,582.62
47136 0481200 GA489 PTOP 0526 COMSTD	655,352.24
47136 0481200 GA489 PTOP 0526 COMSTD	218,073.36
47136 0481000 GA489 PTOP 0526 INDSLS	31,975.22
47136 0489000 GA489 PTOP 0526 BOTHRV	100,470.71
47136 0483011 GA489 PTOP 0526 GASRSL	60.34
47136 0481000 GA489 PTOP 0526 INDSLS	209.64
47136 0489000 GA489 PTOP 0526 BOTHRV	108,472.00
47136 0253139 GA489 PTOP	(2,813,196.13)
	-

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

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

Line No.		Current Vintage Year: Vintage Year 6			All Vintage Years
		May 2018 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of May 2018 [3]	Cumulative Capital Expenditure as of May 2018 [6]
	TN Direct				
1	Corrosion Control	$ 4,538.58	$ 142,383.38	$ 146,921.96	$ 5,920,571.77
2	Casing Remediation	$ -	$ 36,484.24	$ 36,484.24	$ 848,689.17
3	Distribution Integrity	$ 634,453.19	$ 8,621,381.35	$ 9,255,834.54	$ 63,324,302.33
4	Transmission Integrity	$ 321,670.42	$ 3,129,076.21	$ 3,450,746.63	$ 183,620,756.63
5	Total	$ 960,662.19	$ 11,929,325.18	$ 12,889,987.37	$ 253,714,319.90
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ 7,520.01	$ 2,557,961.82	$ 2,565,481.83	$ 133,895,885.28
7	TN % of CO-3 for Current Month [4]	16.33%			
8	Total Allocated to TN	$ 1,228.02	$ 417,298.02	$ 418,526.04	$ 23,538,019.46
9	Total Capital Expenditures [Line 5 + Line 8]	$ 961,890.21	$ 12,346,623.20	$ 13,308,513.41	$ 277,252,339.36
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 961,890.21**	**$ 12,346,623.20**	**$ 13,308,513.41**	**$ 244,352,339.36**

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 and 5, which captures amounts through 10/31/17, is $231,043,825.95 ($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 and $38,244,253.18 for Vintage 5).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	May 2018
1	DIMP-Distribution Integrity	FP1733763	17	Harding Place	$ 204,810.00
2	DIMP-Distribution Integrity	FP1733763	17	Harding Place	4,094.33
3	DIMP-Distribution Integrity	FP1733931	17	Shelby Park RR Bridge Project	25,380.53
4	DIMP-Distribution Integrity	FP1734408	17	3rd and Hart Station Valves	356.85
5	DIMP-Distribution Integrity	FP1734416	17	Sadler Ave and Fox Ave	3,803.06
6	DIMP-Distribution Integrity	FP1734421	17	4th Ave South Insertion	2,580.69
7	DIMP-Distribution Integrity	FP1734726	17	Cowan St HP Distribution Pipeline	14,456.71
8	DIMP-Distribution Integrity	FP1734799	17	Nashville Bridge Attachments	0.83
9	DIMP-Distribution Integrity	FP1734812	17	Haverford Ave.	130,533.22
10	DIMP-Distribution Integrity	FP1734818	17	Bryan St #1852	116,156.31
11	DIMP-Distribution Integrity	FP1734824	17	Childrens Way	91,077.52
12	DIMP-Distribution Integrity	FP1734432	17	Visco Dt	10.16
13	DIMP-Distribution Integrity	FP1734430	17	Keaton Ave	3,174.76
14	DIMP-Distribution Integrity	F0216309	17	Baxter Ln	2,356.93
15	DIMP-Distribution Integrity	FP1734693	17	Cliff Dr Main replacement	395.07
16	DIMP-Distribution Integrity	FP1734690	17	Belmont Pit Regulator Replacement	4,271.34
17	DIMP-Distribution Integrity	FP1734692	17	California Ave #1817	30,994.88
18	CORR-Corrosion Control	FP1734721	17	Nashville Trans Remediation	4,276.16
19	CORR-Corrosion Control	FP1734721	17	Nashville Trans Remediation	117.12
20	CORR-Corrosion Control	FP1734720	17	Nashville HP Dist Remediation	(43,929.84)
21	CORR-Corrosion Control	F0214409	17	Nashville Rectifier (REM MON)	216.50
22	CORR-Corrosion Control	F0214742	17	Dickerson Rd @ Shevel St	1,474.84
23	CORR-Corrosion Control	F0214467	17	Nashville Bridge New Coating	35,465.40
24	CORR-Corrosion Control	FP1734718	17	Nashville Galvanic Anode	6,918.40
25	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	13,960.87
26	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	4,137.28
27	TIMP-Transmission Integrity	FP1734120	17	Line 431 Replacement	253,110.05
28	TIMP-Transmission Integrity	FP1734120	17	Line 431 Replacement	31,136.65
29	TIMP-Transmission Integrity	FP1733398	17	South Nashville 20"	19,325.57
30	ISENP-Information Serv Enterprise	FP0026658	17	OASIS: Distribution for Ventyx	7,520.01
	Total (unallocated)				**$ 968,182.20**
31	*subtotal: TN Direct (unallocated)*				*$ 960,662.19*
32	*subtotal: CO-3 (unallocated)*				*$ 7,520.01*
					$ 968,182.20

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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

Line No.				May-18
1	Beginning Balance	*Prior Month's IMR Report*	$	1,901,867.38
2	IMR Revenue Recognition	*Prior Annual IMR Report*		1,184,101.61
3	(Collections from IM Adjustment)	*see Separate Schedule*		(1,508,001.70)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*		1,577,967.29
5	Average Balance	*(Line 1 + Line 4) /2*		1,739,917.34
6	Accrued Interest	*Line 5 * Line 9*		6,481.19
7	Ending Balance After Interest	*Line 4 + Line 6*	$	1,584,448.48
8	Applicable Annual Interest Rate	*same as for ACA*		0.044700
9	Monthly Interest Rate	*Line 8 / 12*		0.003725
10	Actual GL #0253139 EOM Balance	*per GL*	$	1,584,448.48
11	Variance	*Line 7 - Line 10*	$	-

Journal Entry: To Record Revenue

47136 0253139 GA489 PTOP	1,184,101.61
47136 0480000 GA489 PTOP 0526 RESVAL	(706,245.56)
47136 0481200 GA489 PTOP 0526 COMSTD	(369,439.71)
47136 0481000 GA489 PTOP 0526 INDSLS	(15,973.53)
47136 0483011 GA489 PTOP 0526 GASRSL	(331.55)
47136 0489000 GA489 PTOP 0526 BOTHRV	(92,111.26)

Journal Entry: To Record Interest

47136 0253139 GA626 PTOP	6,481.19
47136 0431150 GA626 PTOP 0526	(6,481.19)

Piedmont Natural Gas Company, Inc. Schedule 4
Integrity Management Rider
State of Tennessee

General Ledger Support
Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		May 2018				
		IM Adjustment		Usage		Collections
Line No.		($ per therm)	x	(therms)	=	($)
1	Residential (301)	0.13124		6,268,071		822,621.64
2	Small General Sales (302)	0.11465		3,315,230		380,091.12
3	Medium General Sales (352)	0.11465		1,076,675		123,440.79
4	Experimental Motor Vehicle Fuel (343/352)	0.11465		1,306		149.73
5	Firm Lg General Sales (303)	0.05092		316,655		16,124.07
6	Experimental Motor Vehicle Fuel (343/303)	0.05092		33,444		1,702.97
7	Firm Lg General Transportation (313)	0.05092		1,267,172		64,524.40
8	Experimental Motor Vehicle Fuel (343/313)	0.05092		142,995		7,281.31
9	Firm Resale (310)	0.05092		431		21.95
10	Interruptible Lg General Sales (304)	0.01273		20,600		262.24
11	Interruptible Lg General Transportation (314)	0.01273		7,209,857		91,781.48
12	**Total**					**$ 1,508,001.70**

Journal Entry: To Record Collections

47136 0480000 GA489 PTOP 0526 RESVAL	822,621.64
47136 0481200 GA489 PTOP 0526 COMSTD	380,091.12
47136 0481200 GA489 PTOP 0526 COMSTD	123,590.52
47136 0481000 GA489 PTOP 0526 INDSLS	17,827.04
47136 0489000 GA489 PTOP 0526 BOTHRV	71,805.71
47136 0483011 GA489 PTOP 0526 GASRSL	21.95
47136 0481000 GA489 PTOP 0526 INDSLS	262.24
47136 0489000 GA489 PTOP 0526 BOTHRV	91,781.48
47136 0253139 GA489 PTOP	(1,508,001.70)
	-

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

Cumulative Integrity Management Investment Amount

Actual Integrity Management Investment, by Integrity Project Type

Line No.		Current Vintage Year: Vintage Year 6 June 2018 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of June 2018 [3]	All Vintage Years Cumulative Capital Expenditure as of June 2018 [6]
	TN Direct				
1	Corrosion Control	$ 892,090.52	$ 146,921.96	$ 1,039,012.48	$ 6,812,662.29
2	Casing Remediation	$ -	$ 36,484.24	$ 36,484.24	$ 848,689.17
3	Distribution Integrity	$ 1,104,180.52	$ 9,255,834.54	$ 10,360,015.06	$ 64,428,482.85
4	Transmission Integrity	$ 1,284,388.80	$ 3,450,746.63	$ 4,735,135.43	$ 184,905,145.43
5	Total	$ 3,280,659.84	$ 12,889,987.37	$ 16,170,647.21	$ 256,994,979.74
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ 30,906.31	$ 2,565,481.83	$ 2,596,388.14	$ 133,926,791.59
7	TN % of CO-3 for Current Month [4]	16.33%			
8	Total Allocated to TN	$ 5,047.00	$ 418,526.04	$ 423,573.04	$ 23,543,066.46
9	Total Capital Expenditures [Line 5 + Line 8]	$ 3,285,706.84	$ 13,308,513.41	$ 16,594,220.25	$ 280,538,046.20
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 3,285,706.84**	**$ 13,308,513.41**	**$ 16,594,220.25**	**$ 247,638,046.20**

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 and 5, which captures amounts through 10/31/17, is $231,043,825.95 ($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 and $38,244,253.18 for Vintage 5).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	June 2018
1	DIMP-Distribution Integrity	FP1733763	17	Harding Place	$ 479,796.56
2	DIMP-Distribution Integrity	FP1733931	17	Shelby Park RR Bridge Project	1,320.83
3	DIMP-Distribution Integrity	FP1734408	17	3rd and Hart Station Valves	250.40
4	DIMP-Distribution Integrity	FP1734416	17	Sadler Ave and Fox Ave	(6,333.65)
5	DIMP-Distribution Integrity	FP1734421	17	4th Ave South Insertion	53.70
6	DIMP-Distribution Integrity	FP1734726	17	Cowan St HP Distribution Pipeline	7,746.36
7	DIMP-Distribution Integrity	FP1734799	17	Nashville Bridge Attachments	31,707.28
8	DIMP-Distribution Integrity	FP1734812	17	Haverford Ave.	881.08
9	DIMP-Distribution Integrity	FP1734818	17	Bryan St #1852	343,330.75
10	DIMP-Distribution Integrity	FP1734824	17	Childrens Way	(383.40)
11	DIMP-Distribution Integrity	FP1734432	17	Visco Dt	853.15
12	DIMP-Distribution Integrity	FP1734430	17	Keaton Ave	92,896.03
13	DIMP-Distribution Integrity	F0215066	17	Maplewood Rd Valve	449.71
14	DIMP-Distribution Integrity	F0216309	17	Baxter Ln	45,242.36
15	DIMP-Distribution Integrity	FP1734653	17	Blue Hold Rd HDD	60,822.37
16	DIMP-Distribution Integrity	FP1734693	17	Cliff Dr Main replacement	2.54
17	DIMP-Distribution Integrity	FP1734690	17	Belmont Pit Regulator Replacement	28,467.74
18	DIMP-Distribution Integrity	FP1734692	17	California Ave #1817	17,076.71
19	CORR-Corrosion Control	FP1734721	17	Nashville Trans Remediation	51,468.29
20	CORR-Corrosion Control	FP1734720	17	Nashville HP Dist Remediation	766,826.58
21	CORR-Corrosion Control	F0214409	17	Nashville Rectifier (REM MON)	217.89
22	CORR-Corrosion Control	F0214742	17	Dickerson Rd @ Shevel St	14,145.46
23	CORR-Corrosion Control	F0214467	17	Nashville Bridge New Coating	57,893.85
24	CORR-Corrosion Control	FP1734718	17	Nashville Galvanic Anode	1,538.45
25	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	15,861.06
26	TIMP-Transmission Integrity	FP1734120	17	Line 431 Replacement	1,265,438.12
27	TIMP-Transmission Integrity	FP1733398	17	South Nashville 20"	3,089.62
28	ISENP-Information Serv Enterprise	FP0026658	17	OASIS: Distribution for Ventyx	30,906.31

	Total (unallocated)	**$ 3,311,566.15**
29	*subtotal: TN Direct (unallocated)*	*$ 3,280,659.84*
30	*subtotal: CO-3 (unallocated)*	*$ 30,906.31*
		$ 3,311,566.15

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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

Line No.			Jun-18
1	Beginning Balance	*Prior Month's IMR Report*	$ 1,584,448.48
2	IMR Revenue Recognition	*Prior Annual IMR Report*	838,476.73
3	(Collections from IM Adjustment)	*see Separate Schedule*	(957,799.88)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	1,465,125.33
5	Average Balance	*(Line 1 + Line 4) /2*	1,524,786.91
6	Accrued Interest	*Line 5 * Line 9*	5,679.83
7	Ending Balance After Interest	*Line 4 + Line 6*	$ 1,470,805.16
8	Applicable Annual Interest Rate	*same as for ACA*	0.044700
9	Monthly Interest Rate	*Line 8 / 12*	0.003725
10	Actual GL #0253139 EOM Balance	*per GL*	$ 1,470,805.16
11	Variance	*Line 7 - Line 10*	$ -

Journal Entry: To Record Revenue	
47136 0253139 GA489 PTOP	838,476.73
47136 0480000 GA489 PTOP 0526 RESVAL	(500,101.07)
47136 0481200 GA489 PTOP 0526 COMSTD	(261,604.74)
47136 0481000 GA489 PTOP 0526 INDSLS	(11,311.05)
47136 0483011 GA489 PTOP 0526 GASRSL	(234.77)
47136 0489000 GA489 PTOP 0526 BOTHRV	(65,225.10)

Journal Entry: To Record Interest	
47136 0253139 GA626 PTOP	5,679.83
47136 0431150 GA626 PTOP 0526	(5,679.83)

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support
Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		June 2018				
		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
Line No.						
1	Residential (301)	0.16057		2,290,562		367,795.54
2	Small General Sales (302)	0.14027		2,104,321		295,173.11
3	Medium General Sales (352)	0.14027		658,030		92,301.87
4	Experimental Motor Vehicle Fuel (343/352)	0.14027		-		-
5	Firm Lg General Sales (303)	0.06230		287,228		17,894.30
6	Experimental Motor Vehicle Fuel (343/303)	0.06230		33,652		2,096.52
7	Firm Lg General Transportation (313)	0.06230		1,153,627		71,870.96
8	Experimental Motor Vehicle Fuel (343/313)	0.06230		135,033		8,412.56
9	Firm Resale (310)	0.06230		274		17.07
10	Interruptible Lg General Sales (304)	0.01557		37,443		582.99
11	Interruptible Lg General Transportation (314)	0.01557		6,528,899		101,654.96
12	**Total**					**$ 957,799.88**

Journal Entry: To Record Collections	
47136 0480000 GA489 PTOP 0526 RESVAL	367,795.54
47136 0481200 GA489 PTOP 0526 COMSTD	295,173.11
47136 0481200 GA489 PTOP 0526 COMSTD	92,301.87
47136 0481000 GA489 PTOP 0526 INDSLS	19,990.82
47136 0489000 GA489 PTOP 0526 BOTHRV	80,283.52
47136 0483011 GA489 PTOP 0526 GASRSL	17.07
47136 0481000 GA489 PTOP 0526 INDSLS	582.99
47136 0489000 GA489 PTOP 0526 BOTHRV	101,654.96
47136 0253139 GA489 PTOP	(957,799.88)

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

Cumulative Integrity Management Investment Amount

Actual Integrity Management Investment, by Integrity Project Type

		Current Vintage Year: Vintage Year 6			All Vintage Years
Line No.		July 2018 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of July 2018 [3]	Cumulative Capital Expenditure as of July 2018 [6]
	TN Direct				
1	Corrosion Control	$ 191,196.57	$ 1,039,012.48	$ 1,230,209.05	$ 7,003,858.86
2	Casing Remediation	$ -	$ 36,484.24	$ 36,484.24	$ 848,689.17
3	Distribution Integrity	$ 1,292,039.41	$ 10,360,015.06	$ 11,652,054.47	$ 65,720,522.26
4	Transmission Integrity	$ (228,221.38)	$ 4,735,135.43	$ 4,506,914.05	$ 184,676,924.05
5	Total	$ 1,255,014.60	$ 16,170,647.21	$ 17,425,661.81	$ 258,249,994.34
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ -	$ 2,596,388.14	$ 2,596,388.14	$ 133,926,791.59
7	TN % of CO-3 for Current Month [4]	16.33%			
8	Total Allocated to TN	$ -	$ 423,573.04	$ 423,573.04	$ 23,543,066.46
9	Total Capital Expenditures [Line 5 + Line 8]	$ 1,255,014.60	$ 16,594,220.25	$ 17,849,234.85	$ 281,793,060.80
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 1,255,014.60**	**$ 16,594,220.25**	**$ 17,849,234.85**	**$ 248,893,060.80**

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 and 5, which captures amounts through 10/31/17, is $231,043,825.95 ($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 and $38,244,253.18 for Vintage 5).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	July 2018
1	DIMP-Distribution Integrity	F0215066	17	Maplewood Rd Valve	2.89
2	DIMP-Distribution Integrity	F0216582	17	Rural Hill Isolation Valve Removal	9,360.12
3	DIMP-Distribution Integrity	F0221329	17	10th Ave N Valve Replacement	822.36
4	DIMP-Distribution Integrity	FP1733749	17	North 1st St-Replacement	(35,595.00)
5	DIMP-Distribution Integrity	FP1733756	17	Foster Ave Murfreesboro Rd	(30,254.62)
6	DIMP-Distribution Integrity	FP1733763	17	Harding Place	580,098.97
7	DIMP-Distribution Integrity	FP1733766	17	Overhill Circle	(26,981.00)
8	DIMP-Distribution Integrity	FP1733947	17	Noblesville Rd Over RR of I-440	(42,798.00)
9	DIMP-Distribution Integrity	FP1734138	17	Electric Avenue Project	466,370.15
10	DIMP-Distribution Integrity	FP1734421	17	4th Ave South Insertion	8,841.21
11	DIMP-Distribution Integrity	FP1734422	17	Lynwood Blvd/Tyne Blvd DIM	6,692.12
12	DIMP-Distribution Integrity	FP1734430	17	Keaton Ave	22,568.35
13	DIMP-Distribution Integrity	FP1734432	17	Visco Dt	204,564.21
14	DIMP-Distribution Integrity	FP1734478	17	3rd Ave North Steel Replacement	(4,604.75)
15	DIMP-Distribution Integrity	FP1734480	17	Emergency Nesbit Lane	(36,212.00)
16	DIMP-Distribution Integrity	FP1734653	17	Blue Hold Rd HDD	3,052.08
17	DIMP-Distribution Integrity	FP1734690	17	Belmont Pit Regulator Replacement	44906.56
18	DIMP-Distribution Integrity	FP1734693	17	Cliff Dr Main replacement	10,334.51
19	DIMP-Distribution Integrity	FP1734696	17	West Tyne & Old Harding Place	1,726.67
20	DIMP-Distribution Integrity	FP1734726	17	Cowan St HP Distribution Pipeline	6,429.24
21	DIMP-Distribution Integrity	FP1734799	17	Nashville Bridge Attachments	61,956.70
22	DIMP-Distribution Integrity	FP1734807	17	Wingo Regulator Station Removal	99.93
23	DIMP-Distribution Integrity	FP1734812	17	Haverford Ave.	(191.70)
24	DIMP-Distribution Integrity	FP1734818	17	Bryan St #1852	40,850.41
25	CORR-Corrosion Control	FP1734721	17	Nashville Trans Remediation	461.95
26	CORR-Corrosion Control	FP1734720	17	Nashville HP Dist Remediation	6,759.35
27	CORR-Corrosion Control	F0214409	17	Nashville Rectifier (REM MON)	3,249.94
28	CORR-Corrosion Control	F0214742	17	Dickerson Rd @ Shevel St	63,204.76
29	CORR-Corrosion Control	F0214467	17	Nashville Bridge New Coating	117,466.29
30	CORR-Corrosion Control	FP1734718	17	Nashville Galvanic Anode	54.28
31	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	8,358.50
32	TIMP-Transmission Integrity	FP1734120	17	Line 431 Replacement	(236,579.88)

	Total (unallocated)	**$ 1,255,014.60**
33	*subtotal: TN Direct (unallocated)*	*$ 1,255,014.60*
34	*subtotal: CO-3 (unallocated)*	*$ -*
		$ 1,255,014.60

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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

Line No.			**Jul-18**
1	Beginning Balance	*Prior Month's IMR Report*	$ 1,470,805.16
2	IMR Revenue Recognition	*Prior Annual IMR Report*	780,699.38
3	(Collections from IM Adjustment)	*see Separate Schedule*	(827,957.14)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	1,423,547.40
5	Average Balance	*(Line 1 + Line 4) /2*	1,447,176.28
6	Accrued Interest	*Line 5 * Line 9*	5,655.56
7	Ending Balance After Interest	*Line 4 + Line 6*	$ 1,429,202.96
8	Applicable Annual Interest Rate	*same as for ACA*	0.04690
9	Monthly Interest Rate	*Line 8 / 12*	0.003908
10	Actual GL #0253139 EOM Balance	*per GL*	$ 1,429,202.96
11	Variance	*Line 7 - Line 10*	$ -

Journal Entry: To Record Revenue	
47136 0253139 GA489 PTOP	780,699.38
47136 0480000 GA489 PTOP 0526 RESVAL	(465,640.34)
47136 0481200 GA489 PTOP 0526 COMSTD	(243,578.20)
47136 0481000 GA489 PTOP 0526 INDSLS	(10,531.63)
47136 0483011 GA489 PTOP 0526 GASRSL	(218.60)
47136 0489000 GA489 PTOP 0526 BOTHRV	(60,730.61)

Journal Entry: To Record Interest	
47136 0253139 GA626 PTOP	5,655.56
47136 0431150 GA626 PTOP 0526	(5,655.56)

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		July 2018				
		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
Line No.						
1	Residential (301)	0.16057		1,827,276		293,405.71
2	Small General Sales (302)	0.14027		1,821,263		255,468.56
3	Medium General Sales (352)	0.14027		558,641		78,360.57
4	Experimental Motor Vehicle Fuel (343/352)	0.14027		32		4.49
5	Firm Lg General Sales (303)	0.06230		284,094		17,699.06
6	Experimental Motor Vehicle Fuel (343/303)	0.06230		35,833		2,232.40
7	Firm Lg General Transportation (313)	0.06230		1,074,579		66,946.27
8	Experimental Motor Vehicle Fuel (343/313)	0.06230		139,783		8,708.48
9	Firm Resale (310)	0.06230		264		16.45
10	Interruptible Lg General Sales (304)	0.01557		5,241		81.60
11	Interruptible Lg General Transportation (314)	0.01557		6,745,893		105,033.55
12	**Total**					**$ 827,957.14**

Journal Entry: To Record Collections

47136 0480000 GA489 PTOP 0526 RESVAL	293,405.71
47136 0481200 GA489 PTOP 0526 COMSTD	255,468.56
47136 0481200 GA489 PTOP 0526 COMSTD	78,365.06
47136 0481000 GA489 PTOP 0526 INDSLS	19,931.46
47136 0489000 GA489 PTOP 0526 BOTHRV	75,654.75
47136 0483011 GA489 PTOP 0526 GASRSL	16.45
47136 0481000 GA489 PTOP 0526 INDSLS	81.60
47136 0489000 GA489 PTOP 0526 BOTHRV	105,033.55
47136 0253139 GA489 PTOP	(827,957.14)
	-

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

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

		Current Vintage Year: Vintage Year 6			All Vintage Years
Line No.		August 2018 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of August 2018 [3]	Cumulative Capital Expenditure as of August 2018 [6]
	TN Direct				
1	Corrosion Control	$ 225,388.22	$ 1,230,209.05	$ 1,455,597.27	$ 7,229,247.08
2	Casing Remediation	$ 14,884.32	$ 36,484.24	$ 51,368.56	$ 863,573.49
3	Distribution Integrity	$ 1,280,688.97	$ 11,652,054.47	$ 12,932,743.44	$ 67,001,211.23
4	Transmission Integrity	$ 619,369.88	$ 4,506,914.05	$ 5,126,283.93	$ 185,296,293.93
5	Total	$ 2,140,331.39	$ 17,425,661.81	$ 19,565,993.20	$ 260,390,325.73
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ -	$ 2,596,388.14	$ 2,596,388.14	$ 133,926,791.59
7	TN % of CO-3 for Current Month [4]	16.33%			
8	Total Allocated to TN	$ -	$ 423,573.04	$ 423,573.04	$ 23,543,066.46
9	Total Capital Expenditures [Line 5 + Line 8]	$ 2,140,331.39	$ 17,849,234.85	$ 19,989,566.24	$ 283,933,392.19
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 2,140,331.39**	**$ 17,849,234.85**	**$ 19,989,566.24**	**$ 251,033,392.19**

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 and 5, which captures amounts through 10/31/17, is $231,043,825.95 ($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 and $38,244,253.18 for Vintage 5).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	August 2018
1	DIMP-Distribution Integrity	F0215066	17	Maplewood Rd Valve	2.91
2	DIMP-Distribution Integrity	F0216309	17	Baxter Ln	45.37
3	DIMP-Distribution Integrity	F0221329	17	10th Ave N Valve Replacement	2,601.47
4	DIMP-Distribution Integrity	F0222124	17	Harding Pl & Granny White Pk Valve	2,298.85
5	DIMP-Distribution Integrity	F0222311	17	2658 Hwy 41 South Greenbrier	73,067.37
6	DIMP-Distribution Integrity	F0222670	17	Donelso Plaza Regulator Removal	943.21
7	DIMP-Distribution Integrity	FP1733755	17	Wheeler Ave and Hewlett Dr	(5,904.25)
8	DIMP-Distribution Integrity	FP1733763	17	Harding Place	282,913.11
9	DIMP-Distribution Integrity	FP1733767	17	Fesslers/Murfreesboro Rd	(6,073.75)
10	DIMP-Distribution Integrity	FP1734414	17	Dreamland Drive, Greenbrier TN	(8,249.00)
11	DIMP-Distribution Integrity	FP1734415	17	Foster Ave at Thompson Lane	38,630.15
12	DIMP-Distribution Integrity	FP1734417	17	Rayon Dr (Bridgeway Ave & Ensely)	(4,604.75)
13	DIMP-Distribution Integrity	FP1734421	17	4th Ave South Insertion	29,459.94
14	DIMP-Distribution Integrity	FP1734422	17	Lynwood Blvd/Tyne Blvd DIM	140,117.64
15	DIMP-Distribution Integrity	FP1734430	17	Keaton Ave	19,352.05
16	DIMP-Distribution Integrity	FP1734432	17	Visco Dt	268,417.18
17	DIMP-Distribution Integrity	FP1734690	17	Belmont Pit Regulator Replacement	45,500.22
18	DIMP-Distribution Integrity	FP1734692	17	California Ave at Centennial	43.34
19	DIMP-Distribution Integrity	FP1734693	17	Cliff Dr Main replacement	127,955.14
20	DIMP-Distribution Integrity	FP1734696	17	West Tyne & Old Harding Place	11.08
21	DIMP-Distribution Integrity	FP1734726	17	Cowan St HP Distribution Pipeline	6,595.17
22	DIMP-Distribution Integrity	FP1734799	17	Nashville Bridge Attachments	264,144.08
23	DIMP-Distribution Integrity	FP1734812	17	Haverford Ave.	90.69
24	DIMP-Distribution Integrity	FP1734818	17	Bryan St #1852	3,331.75
25	CORR-Corrosion Control	FP1734721	17	Nashville Trans Remediation	464.91
26	CORR-Corrosion Control	FP1734720	17	Nashville HP Dist Remediation	4,957.10
27	CORR-Corrosion Control	F0214409	17	Nashville Rectifier (REM MON)	3,378.97
28	CORR-Corrosion Control	F0214742	17	Dickerson Rd @ Shevel St	16,327.01
29	CORR-Corrosion Control	F0214467	17	Nashville Bridge New Coating	193,216.11
30	CORR-Corrosion Control	FP1734718	17	Nashville Galvanic Anode	7,044.12
31	CSNG-Casing & Remediation	FP1734395	17	Casing 2704 East RR Xing Wilson	19,489.07
32	CSNG-Casing & Remediation	FP1734373	17	Casing at 204 Broadway in Hartsville	(4,604.75)
33	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	15,577.14
34	TIMP-Transmission Integrity	FP1734120	17	Line 431 Replacement	600,725.99
35	TIMP-Transmission Integrity	FP1734394	17	Line 431 Ph II 20 & 12" Transmission	3,066.75
	Total (unallocated)				**$ 2,140,331.39**
36	*subtotal: TN Direct (unallocated)*				*$ 2,140,331.39*
37	*subtotal: CO-3 (unallocated)*				*$ -*
					$ 2,140,331.39

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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

Line No.			Aug-18
1	Beginning Balance	$	1,429,202.96
2	IMR Revenue Recognition		786,802.54
3	(Collections from IM Adjustment)		(820,974.34)
4	Ending Balance Before Interest		1,395,031.16
5	Average Balance		1,412,117.06
6	Accrued Interest		5,518.55
7	Ending Balance After Interest	$	1,400,549.71
8	Applicable Annual Interest Rate		0.04690
9	Monthly Interest Rate		0.003908
10	Actual GL #0253139 EOM Balance	$	1,400,549.71
11	Variance	$	-

Journal Entry: To Record Revenue	
47136 0253139 GA489 PTOP	786,802.54
47136 0480000 GA489 PTOP 0526 RESVAL	(469,280.51)
47136 0481200 GA489 PTOP 0526 COMSTD	(245,482.40)
47136 0481000 GA489 PTOP 0526 INDSLS	(10,613.96)
47136 0483011 GA489 PTOP 0526 GASRSL	(220.30)
47136 0489000 GA489 PTOP 0526 BOTHRV	(61,205.37)

Journal Entry: To Record Interest	
47136 0253139 GA626 PTOP	5,518.55
47136 0431150 GA626 PTOP 0526	(5,518.55)

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		August 2018				
		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
Line No.						
1	Residential (301)	0.16057		1,719,601		276,116.33
2	Small General Sales (302)	0.14027		1,833,630		257,203.28
3	Medium General Sales (352)	0.14027		540,639		75,835.43
4	Experimental Motor Vehicle Fuel (343/352)	0.14027		32		4.49
5	Firm Lg General Sales (303)	0.06230		312,321		19,457.60
6	Experimental Motor Vehicle Fuel (343/303)	0.06230		35,921		2,237.88
7	Firm Lg General Transportation (313)	0.06230		1,206,953		75,193.17
8	Experimental Motor Vehicle Fuel (343/313)	0.06230		146,932		9,153.86
9	Firm Resale (310)	0.06230		297		18.50
10	Interruptible Lg General Sales (304)	0.01557		8,988		139.94
11	Interruptible Lg General Transportation (314)	0.01557		6,783,164		105,613.86
12	**Total**					**$ 820,974.34**

Journal Entry: To Record Collections

47136 0480000 GA489 PTOP 0526 RESVAL	276,116.33
47136 0481200 GA489 PTOP 0526 COMSTD	257,203.28
47136 0481200 GA489 PTOP 0526 COMSTD	75,839.92
47136 0481000 GA489 PTOP 0526 INDSLS	21,695.48
47136 0489000 GA489 PTOP 0526 BOTHRV	84,347.03
47136 0483011 GA489 PTOP 0526 GASRSL	18.50
47136 0481000 GA489 PTOP 0526 INDSLS	139.94
47136 0489000 GA489 PTOP 0526 BOTHRV	105,613.86
47136 0253139 GA489 PTOP	(820,974.34)
	-

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

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

		Current Vintage Year: Vintage Year 6			All Vintage Years
Line No.		September 2018 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of September 2018 [3]	Cumulative Capital Expenditure as of September 2018 [6]
	TN Direct				
1	Corrosion Control	$ 33,167.59	$ 1,455,597.27	$ 1,488,764.86	$ 7,262,414.67
2	Casing Remediation	$ 18,313.49	$ 51,368.56	$ 69,682.05	$ 881,886.98
3	Distribution Integrity	$ 996,952.70	$ 12,932,743.44	$ 13,929,696.14	$ 67,998,163.93
4	Transmission Integrity	$ 1,619,863.39	$ 5,126,283.93	$ 6,746,147.32	$ 186,916,157.32
5	Total	$ 2,668,297.17	$ 19,565,993.20	$ 22,234,290.37	$ 263,058,622.90
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ (46,730.89)	$ 2,596,388.14	$ 2,549,657.25	$ 133,880,060.70
7	TN % of CO-3 for Current Month [4]	16.33%			
8	Total Allocated to TN	$ (7,631.15)	$ 423,573.04	$ 415,941.89	$ 23,535,435.31
9	Total Capital Expenditures [Line 5 + Line 8]	$ 2,660,666.02	$ 19,989,566.24	$ 22,650,232.26	$ 286,594,058.21
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 2,660,666.02**	**$ 19,989,566.24**	**$ 22,650,232.26**	**$ 253,694,058.21**

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 and 5, which captures amounts through 10/31/17, is $231,043,825.95 ($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 and $38,244,253.18 for Vintage 5).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	September 2018
1	DIMP-Distribution Integrity	FP1733763	17	Harding Place	414,820.33
2	DIMP-Distribution Integrity	FP1733931	17	Shelby Park RR Bridge Project	(4,270.09)
3	DIMP-Distribution Integrity	FP1734408	17	3rd and Hart Station Valves	75.57
4	DIMP-Distribution Integrity	FP1734416	17	Sadler Ave and Fox Ave	58.88
5	DIMP-Distribution Integrity	FP1734421	17	4th Ave South Insertion	303.59
6	DIMP-Distribution Integrity	FP1734726	17	Cowan St HP Distribution Pipeline	14,056.08
7	DIMP-Distribution Integrity	FP1734799	17	Nashville Bridge Attachments	82,979.29
8	DIMP-Distribution Integrity	FP1734812	17	Haverford Ave.	434.02
9	DIMP-Distribution Integrity	FP1734818	17	Bryan St #1852	157.08
10	DIMP-Distribution Integrity	FP1734824	17	Childrens Way	53.34
11	DIMP-Distribution Integrity	FP1734432	17	Visco Dt	148,583.05
12	DIMP-Distribution Integrity	FP1734430	17	Keaton Ave	23,672.12
13	DIMP-Distribution Integrity	F0216309	17	Baxter Ln	122.66
14	DIMP-Distribution Integrity	FP1734693	17	Cliff Dr Main replacement	97,285.33
15	DIMP-Distribution Integrity	FP1734690	17	Belmont Pit Regulator Replacement	34,968.29
16	DIMP-Distribution Integrity	F0215066	17	Maplewood Rd Valve	19.28
17	DIMP-Distribution Integrity	FP1734653	17	Blue Hole Rd HDD	48.22
18	DIMP-Distribution Integrity	FP1734807	17	Wingo Regulator Station Remova	85.72
19	DIMP-Distribution Integrity	FP1734422	17	Lynwood Blvd/Tyne Blvd DIM	29.25
20	DIMP-Distribution Integrity	FP1734696	17	West Tyne & Old Harding Place	1,000.79
21	DIMP-Distribution Integrity	F0216582	17	Rural Hill Isolation Valve Removal	-
22	DIMP-Distribution Integrity	F0221329	17	10th Ave N Valve Replacement	5.79
23	DIMP-Distribution Integrity	F0222670	17	Donelso Plaza Regulator Removal	56,785.31
24	DIMP-Distribution Integrity	F0222311	17	2658 Hwy 41 South Greenbrier	13,236.66
25	DIMP-Distribution Integrity	F0222124	17	Harding Pl & Granny White Pk Valve	14.76
26	DIMP-Distribution Integrity	FP1734417	17	Rayon Dr (Bridgeway Ave & Ensely)	(4,604.75)
27	DIMP-Distribution Integrity	F0215064	17	Elizabethan Rd Valve Replacement	374.35
28	DIMP-Distribution Integrity	FP1734688	17	Abbott Martin @ Walnut Dr.	467.39
29	DIMP-Distribution Integrity	FP1733764	17	Sunnyside Drive	50.21
30	DIMP-Distribution Integrity	FP1734823	17	240 Blackman Rd DIMP	107.46
31	DIMP-Distribution Integrity	FP1733498	17	Clare Avenue - Insertion	(12,091.00)
32	DIMP-Distribution Integrity	FP1733516	17	Duling Ave - Main Replacement	(11,160.00)
33	DIMP-Distribution Integrity	FP1733524	17	16th and Horton	144.00
34	DIMP-Distribution Integrity	FP1733827	17	Elm Hill Pike Bridge Replaceme	(1,889.92)
35	DIMP-Distribution Integrity	FP1733886	17	Kermit Dr and Vultee Bv	(2,909.75)
36	DIMP-Distribution Integrity	FP1734692	17	California Ave at Centennial	65.12
37	DIMP-Distribution Integrity	FP1734694	17	Forrest St.	143,874.27
38	CORR-Corrosion Control	FP1734721	17	Nashville Trans Remediation	467.90
39	CORR-Corrosion Control	FP1734720	17	Nashville HP Dist Remediation	9,973.08
40	CORR-Corrosion Control	F0214409	17	Nashville Rectifier (REM MON)	87.28
41	CORR-Corrosion Control	F0214742	17	Dickerson Rd @ Shevel St	153.76
42	CORR-Corrosion Control	F0214467	17	Nashville Bridge New Coating	12,861.96
43	CORR-Corrosion Control	FP1734718	17	Nashville Galvanic Anode	9,623.61
44	CSNG-Casing & Remediation	FP1734395	17	Casing 2704 East RR Xing Wilson	18,313.49
45	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	775.74
46	TIMP-Transmission Integrity	FP1734120	17	Line 431 Replacement	1,614,780.35
47	TIMP-Transmission Integrity	FP1734394	17	Line 431 Ph II 20 & 12"Transmission	4,307.30
48	ISENP-Information Serv Enterprise	FP0026658	17	Work & Asset Management (OASIS)	(46,730.89)

Total (unallocated)	**$ 2,621,566.28**
subtotal: TN Direct (unallocated)	*$ 2,668,297.17*
subtotal: CO-3 (unallocated)	*$ (46,730.89)*
	$ 2,621,566.28

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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

Line No.				Sep-18
1	Beginning Balance	*Prior Month's IMR Report*	$	1,400,549.71
2	IMR Revenue Recognition	*Prior Annual IMR Report*		787,626.60
3	(Collections from IM Adjustment)	*see Separate Schedule*		(878,303.09)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*		1,309,873.22
5	Average Balance	*(Line 1 + Line 4) /2*		1,355,211.47
6	Accrued Interest	*Line 5 * Line 9*		5,296.17
7	Ending Balance After Interest	*Line 4 + Line 6*	$	1,315,169.39
8	Applicable Annual Interest Rate	*same as for ACA*		0.04690
9	Monthly Interest Rate	*Line 8 / 12*		0.003908
10	Actual GL #0253139 EOM Balance	*per GL*	$	1,315,169.39
11	Variance	*Line 7 - Line 10*	$	-

Journal Entry: To Record Revenue	
47136 0253139 GA489 PTOP	787,626.60
47136 0480000 GA489 PTOP 0526 RESVAL	(469,772.01)
47136 0481200 GA489 PTOP 0526 COMSTD	(245,739.50)
47136 0481000 GA489 PTOP 0526 INDSLS	(10,625.08)
47136 0483011 GA489 PTOP 0526 GASRSL	(220.54)
47136 0489000 GA489 PTOP 0526 BOTHRV	(61,269.47)

Journal Entry: To Record Interest	
47136 0253139 GA626 PTOP	5,296.17
47136 0431150 GA626 PTOP 0526	(5,296.17)

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		September 2018				
		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
Line No.						
1	Residential (301)	0.16057		1,950,336		313,165.45
2	Small General Sales (302)	0.14027		2,006,548		281,458.49
3	Medium General Sales (352)	0.14027		586,664		82,291.36
4	Experimental Motor Vehicle Fuel (343/352)	0.14027		32		4.49
5	Firm Lg General Sales (303)	0.06230		313,864		19,553.73
6	Experimental Motor Vehicle Fuel (343/303)	0.06230		34,507		2,149.79
7	Firm Lg General Transportation (313)	0.06230		1,149,609		71,620.64
8	Experimental Motor Vehicle Fuel (343/313)	0.06230		130,141		8,107.78
9	Firm Resale (310)	0.06230		349		21.74
10	Interruptible Lg General Sales (304)	0.01557		25,931		403.75
11	Interruptible Lg General Transportation (314)	0.01557		6,392,156		99,525.87
12	**Total**					**$ 878,303.09**

Journal Entry: To Record Collections

47136 0480000 GA489 PTOP 0526 RESVAL	313,165.45
47136 0481200 GA489 PTOP 0526 COMSTD	281,458.49
47136 0481200 GA489 PTOP 0526 COMSTD	82,295.85
47136 0481000 GA489 PTOP 0526 INDSLS	21,703.52
47136 0489000 GA489 PTOP 0526 BOTHRV	79,728.42
47136 0483011 GA489 PTOP 0526 GASRSL	21.74
47136 0481000 GA489 PTOP 0526 INDSLS	403.75
47136 0489000 GA489 PTOP 0526 BOTHRV	99,525.87
47136 0253139 GA489 PTOP	(878,303.09)
	-

TPUC Docket No. 18-00126
Integrity Management Rider
October 2018 Monthly Report

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 18-00126

IMR Monthly Report for Oct 2018
Schedule 1

Cumulative Integrity Management Investment Amount

Actual Integrity Management Investment, by Integrity Project Type

		Current Vintage Year: Vintage Year 6			All Vintage Years
Line No.		October 2018 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of October 2018 [3]	Cumulative Capital Expenditure as of October 2018 [6]
	TN Direct				
1	Corrosion Control	$ 81,104.31	$ 1,488,764.86	$ 1,569,869.17	$ 7,343,518.98
2	Casing Remediation	$ 177.41	$ 69,682.05	$ 69,859.46	$ 882,064.39
3	Distribution Integrity	$ 1,114,180.83	$ 13,929,696.14	$ 15,043,876.97	$ 69,112,344.76
4	Transmission Integrity	$ 3,718,543.28	$ 6,746,147.32	$ 10,464,690.60	$ 190,634,700.60
5	Total	$ 4,914,005.83	$ 22,234,290.37	$ 27,148,296.20	$ 267,972,628.73
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ -	$ 2,549,657.25	$ 2,549,657.25	$ 133,880,060.70
7	TN % of CO-3 for Current Month [4]	16.33%			
8	Total Allocated to TN	$ -	$ 415,941.89	$ 415,941.89	$ 23,535,435.31
9	Total Capital Expenditures [Line 5 + Line 8]	$ 4,914,005.83	$ 22,650,232.26	$ 27,564,238.09	$ 291,508,064.04
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 4,914,005.83**	**$ 22,650,232.26**	**$ 27,564,238.09**	**$ 258,608,064.04**

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 and 5, which captures amounts through 10/31/17, is $231,043,825.95 ($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 and $38,244,253.18 for Vintage 5).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 18-00126

IMR Monthly Report for Oct 2018
Schedule 2

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 2018
1	CORR-Corrosion Control	F0214467	17	Nashville Bridge New Coating	72,037.33
2	CORR-Corrosion Control	F0214742	17	Dickerson Rd @ Shevel St	74.50
3	CORR-Corrosion Control	FP1734718	17	Nashville Galvanic Anode	24,724.46
4	CORR-Corrosion Control	FP1734720	17	Nashville HP Dist Remediation	(16,202.88)
5	CORR-Corrosion Control	FP1734721	17	Nashville Trans Remediation	470.90
6	CSNG-Casing & Remediation	FP1734395	17	Casing 2704 East RR Xing Wilson	177.41
7	DIMP-Distribution Integrity	F0215064	17	Elizabethan Rd Valve Replacement	22,796.78
8	DIMP-Distribution Integrity	F0215066	17	Maplewood Rd Valve	3.05
9	DIMP-Distribution Integrity	F0216582	17	Rural Hill Isolation Valve Removal	866.42
10	DIMP-Distribution Integrity	F0221329	17	10th Ave N Valve Replacement	947.38
11	DIMP-Distribution Integrity	F0221354	17	Davidson Drive @ Charlotte Pike Valve	3,507.82
12	DIMP-Distribution Integrity	F0222120	17	31st Ave @ West end Valve Replacement	750.02
13	DIMP-Distribution Integrity	F0222124	17	Harding Pl & Granny White Pk Valve	14.85
14	DIMP-Distribution Integrity	F0222670	17	Donelso Plaza Regulator Removal	13,706.68
15	DIMP-Distribution Integrity	F0223608	17	Old Hickory Blvd Replacement	1,068.50
16	DIMP-Distribution Integrity	F0225705	17	Old Harding Pike Insulator	14,081.49
17	DIMP-Distribution Integrity	F0225786	17	Woodcrest Leak Repair	2,142.72
18	DIMP-Distribution Integrity	FP1733758	17	Beekman Drive and Foxwood Drive	-6781.08
19	DIMP-Distribution Integrity	FP1733763	17	Harding Place	190,049.43
20	DIMP-Distribution Integrity	FP1733764	17	Sunnyside Drive	688,484.94
21	DIMP-Distribution Integrity	FP1733765	17	McGavock Pike	(3,587.75)
22	DIMP-Distribution Integrity	FP1733768	17	Raymond ST	(11,808.50)
23	DIMP-Distribution Integrity	FP1733788	17	Old Hickory Blvd @ Chickering	(1,792.46)
24	DIMP-Distribution Integrity	FP1734136	17	Jones St Renewal	(5,113.25)
25	DIMP-Distribution Integrity	FP1734420	17	Synder Street @ Lovell Street	(9,068.25)
26	DIMP-Distribution Integrity	FP1734422	17	Lynwood Blvd/Tyne Blvd DIM	(49,440.00)
27	DIMP-Distribution Integrity	FP1734430	17	Keaton Ave	801.85
28	DIMP-Distribution Integrity	FP1734432	17	Visco Dt	258,118.85
29	DIMP-Distribution Integrity	FP1734688	17	Abbott Martin @ Walnut Dr.	3.00
30	DIMP-Distribution Integrity	FP1734690	17	Belmont Pit Regulator Replacement	1,280.99
31	DIMP-Distribution Integrity	FP1734693	17	Cliff Dr Main replacement	1,523.21
32	DIMP-Distribution Integrity	FP1734694	17	Forrest St.	13,475.39
33	DIMP-Distribution Integrity	FP1734696	17	West Tyne & Old Harding Place	191,416.48
34	DIMP-Distribution Integrity	FP1734726	17	Cowan St HP Distribution Pipeline	(571.21)
35	DIMP-Distribution Integrity	FP1734749	17	2nd Ave and Jefferson Leak Rd	(217,863.42)
36	DIMP-Distribution Integrity	FP1734799	17	Nashville Bridge Attachments	13,986.69
37	DIMP-Distribution Integrity	FP1734818	17	Bryan St #1852	1,180.21
38	TIMP-Transmission Integrity	FP1734120	17	Line 431 Replacement	3,630,862.96
39	TIMP-Transmission Integrity	FP1734394	17	Line 431 Ph II 20 & 12"Transmission	85,987.15
40	TIMP-Transmission Integrity	FP1734394	17	Line 431 Ph II Reg Station	1,693.17

Total (unallocated)	**$**	**4,914,005.83**
subtotal: TN Direct (unallocated)	*$*	*4,914,005.83*
subtotal: CO-3 (unallocated)	*$*	*-*
	$	***4,914,005.83***

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 18-00126

IMR Monthly Report for Oct 2018
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

Line No.				Oct-18
1	Beginning Balance	*Prior Month's IMR Report*	$	1,315,169.39
2	IMR Revenue Recognition	*Prior Annual IMR Report*		1,120,647.66
3	(Collections from IM Adjustment)	*see Separate Schedule*		(1,066,339.02)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*		1,369,478.03
5	Average Balance	*(Line 1 + Line 4) /2*		1,342,323.71
6	Accrued Interest	*Line 5 * Line 9*		5,547.82
7	Ending Balance After Interest	*Line 4 + Line 6*	$	1,375,025.85
8	Applicable Annual Interest Rate	*same as for ACA*		0.04960
9	Monthly Interest Rate	*Line 8 / 12*		0.004133
10	Actual GL #0253139 EOM Balance	*per GL*	$	1,375,025.85
11	Variance	*Line 7 - Line 10*	$	-

Journal Entry: To Record Revenue	
01 01 25351 3 17 6250 489	1,120,647.66
01 01 48010 3 17 6220 489	(668,399.09)
01 01 48110 3 17 6220 489	(349,642.07)
01 01 48120 3 17 6220 489	(15,117.53)
01 01 48300 3 17 6220 489	(313.78)
01 01 48900 3 17 6220 489	(87,175.19)

Journal Entry: To Record Interest	
01 01 25351 3 17 6250 626	5,547.82
01 01 43101 3 17 6220 626	(5,547.82)

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 18-00126

IMR Monthly Report for Oct 2018
Schedule 4

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

Line No.		October 2018				
		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
1	Residential (301)	0.16057		2,415,541		387,863.42
2	Small General Sales (302)	0.14027		2,179,791		305,759.28
3	Medium General Sales (352)	0.14027		700,096		98,202.47
4	Experimental Motor Vehicle Fuel (343/352)	0.14027		43		6.03
5	Firm Lg General Sales (303)	0.06230		632,017		39,374.66
6	Experimental Motor Vehicle Fuel (343/303)	0.06230		34,297		2,136.70
7	Firm Lg General Transportation (313)	0.06230		1,599,723		99,662.74
8	Experimental Motor Vehicle Fuel (343/313)	0.06230		146,174		9,106.64
9	Firm Resale (310)	0.06230		857		53.39
10	Interruptible Lg General Sales (304)	0.01557		36,189		563.46
11	Interruptible Lg General Transportation (314)	0.01557		7,939,000		123,610.23
12	**Total**					**$ 1,066,339.02**

Journal Entry: To Record Collections	
47136 0480000 GA489 PTOP 0526 RESVAL	387,863.42
47136 0481200 GA489 PTOP 0526 COMSTD	305,759.28
47136 0481200 GA489 PTOP 0526 COMSTD	98,208.50
47136 0481000 GA489 PTOP 0526 INDSLS	41,511.36
47136 0489000 GA489 PTOP 0526 BOTHRV	108,769.38
47136 0483011 GA489 PTOP 0526 GASRSL	53.39
47136 0481000 GA489 PTOP 0526 INDSLS	563.46
47136 0489000 GA489 PTOP 0526 BOTHRV	123,610.23
47136 0253139 GA489 PTOP	(1,066,339.02)
	-

TPUC Docket No. 18-00126
Integrity Management Rider
Proposed Billing Rates for January 2019

PIEDMONT NATURAL GAS COMPANY, INC.
Tennessee Service Territory
Billing Rates Effective: January 1, 2019

Rate Schedule	Description	Tariff Rate Approved In Docket No. 11-00144	Cumulative PGA Demand	Cumulative PGA Commodity	Current Refund	Current ACA Demand	Current ACA Commodity	Current IPA	Current IM Adjustment	Total Adj. Factor (Sum Col.2 thru Col.7)	Proposed Billing Rate (Col.1+Col.8)
		<1>	<2>	<3>	<4>	<5a>	<5b>	<6>	<7>	<8>	<9>
	Monthly Charge-Nov.-Mar.	$17.45									$17.45
Residential	Monthly Charge-Apr.-Oct.	$13.45									$13.45
301	Nov.- Mar. per TH	0.32000	0.07577	0.30997	0.00000	(0.01010)	0.00044	0.00395	0.14605	0.52608	0.84608
301	Apr.- Oct. per TH	0.27000	0.07577	0.30997	0.00000	(0.01010)	0.00044	0.00395	0.14605	0.52608	0.79608
Small General	Monthly Charge	$44.00									$44.00
302	Nov.- Mar. per TH	0.35400	0.07577	0.30997	0.00000	(0.01010)	0.00044	0.00395	0.12759	0.50762	0.86162
302	Apr.- Oct. per TH	0.30000	0.07577	0.30997	0.00000	(0.01010)	0.00044	0.00395	0.12759	0.50762	0.80762
Medium General	Monthly Charge	$225.00									$225.00
352	Nov.- Mar. per TH	0.35400	0.07577	0.30997	0.00000	(0.01010)	0.00044	0.00395	0.12759	0.50762	0.86162
352	Apr.- Oct. per TH	0.30000	0.07577	0.30997	0.00000	(0.01010)	0.00044	0.00395	0.12759	0.50762	0.80762
Experimental Motor Vehicle Fuel	Monthly Charge			varies by customer per their corresponding rate schedule							
343	Nov.- Mar. per TH			varies by customer per their corresponding rate schedule							
343	Apr.- Oct. per TH			varies by customer per their corresponding rate schedule							
303	Monthly Charge	$800.00									$800.00
Firm	Demand Charge per TH	0.80000	0.82829		0.00000	(0.17497)				0.65332	1.45332
General Sales	First 15,000 TH/TH	0.09682		0.30997	0.00000		0.00044	0.00395	0.05667	0.37103	0.46785
	Next 25,000 TH/TH	0.08953		0.30997	0.00000		0.00044	0.00395	0.05667	0.37103	0.46056
	Next 50,000 TH/TH	0.06450		0.30997	0.00000		0.00044	0.00395	0.05667	0.37103	0.43553
	Over 90,000 TH/TH	0.02764		0.30997	0.00000		0.00044	0.00395	0.05667	0.37103	0.39867
304	Monthly Charge	$800.00									$800.00
Interruptible	First 15,000 TH/TH	0.09682		0.30997	0.00000		0.00044	0.00395	0.01417	0.32853	0.42535
General Sales	Next 25,000 TH/TH	0.08953		0.30997	0.00000		0.00044	0.00395	0.01417	0.32853	0.41806
	Next 50,000 TH/TH	0.06450		0.30997	0.00000		0.00044	0.00395	0.01417	0.32853	0.39303
	Over 90,000 TH/TH	0.02764		0.30997	0.00000		0.00044	0.00395	0.01417	0.32853	0.35617
313	Monthly Charge	$800.00									$800.00
Firm	Demand Charge per TH	0.80000	0.82829		0.00000	(0.17497)				0.65332	1.45332
Transportation	First 15,000 TH/TH	0.09682			0.00000				0.05667	0.05667	0.15349
	Next 25,000 TH/TH	0.08953			0.00000				0.05667	0.05667	0.14620
	Next 50,000 TH/TH	0.06450			0.00000				0.05667	0.05667	0.12117
	Over 90,000 TH/TH	0.02764			0.00000				0.05667	0.05667	0.08431
314	Monthly Charge	$800.00									$800.00
Interruptible	First 15,000 TH/TH	0.09682			0.00000				0.01417	0.01417	0.11099
Transportation	Next 25,000 TH/TH	0.08953			0.00000				0.01417	0.01417	0.10370
	Next 50,000 TH/TH	0.06450			0.00000				0.01417	0.01417	0.07867
	Over 90,000 TH/TH	0.02764			0.00000				0.01417	0.01417	0.04181
310	Demand Charge per TH	0.80000	0.82829		0.00000	(0.17497)				0.65332	1.45332
Resale Service	Commodity Charge	0.09000		0.30997	0.00000		0.00044	0.00395	0.05667	0.37103	0.46103

NOTES:

1/ In accordance with the Tennessee Public Service Commission order in Docket U-7074 customers metered inside Davidson County are required to pay an additional 6.46% for collection of the Metro Franchise Fee. Customers served by the Ashland City, Fairview, Greenbrier, Hartsville, Mt. Juliet and White House systems are required to pay 5.0%. Customers served by the Franklin and Nolensville systems are required to pay 3%.

TPUC Docket No. 18-00126
Integrity Management Rider
2018 Annual Report

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 18-00126

2018 IMR Annual Report
Schedule 1

Schedule of Journal Entries Related to the Integrity Management Rider for the Previous Twelve Months (November 2017 thru October 2018)
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. 25351

Line No.			Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18
1	Beginning Balance	*Prior Month's IMR Report*	$ 6,573,861.54	$ 6,697,119.67	$ 6,437,795.93	$ 3,904,267.16	$ 2,788,096.52	$ 2,836,009.80	$ 1,901,867.38	$ 1,584,448.48	$ 1,470,805.16	$ 1,429,202.96	$ 1,400,549.71	$ 1,315,169.39
2	IMR Revenue Recognition	*Prior Annual IMR Report*	2,002,041.71	3,187,226.34	4,027,846.21	3,832,932.80	2,894,145.82	1,870,245.82	1,184,101.61	838,476.73	780,699.38	786,802.54	787,626.60	1,120,647.66 1/
3	(Collections from IM Adjustment)	*see Separate Schedule*	(1,902,020.12)	(3,469,548.38)	(6,579,658.39)	(4,960,934.66)	(2,856,175.22)	(2,813,196.13)	(1,508,001.70)	(957,799.88)	(827,957.14)	(820,974.34)	(878,303.09)	(1,066,339.02)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	6,673,883.13	6,414,797.63	3,885,983.75	2,776,265.30	2,826,067.12	1,893,059.49	1,577,967.29	1,465,125.33	1,423,547.40	1,395,031.16	1,309,873.22	1,369,478.03
5	Average Balance	*(Line 1 + Line 4) /2*	6,623,872.34	6,555,958.65	5,161,889.84	3,340,266.23	2,807,081.82	2,364,534.65	1,739,917.34	1,524,786.91	1,447,176.28	1,412,117.06	1,355,211.47	1,342,323.71
6	Accrued Interest	*Line 5 * Line 9*	23,236.54	22,998.30	18,283.41	11,831.22	9,942.68	8,807.89	6,481.19	5,679.83	5,655.56	5,518.55	5,296.17	5,547.82
7	Ending Balance After Interest	*Line 4 + Line 6*	$ 6,697,119.67	$ 6,437,795.93	$ 3,904,267.16	$ 2,788,096.52	$ 2,836,009.80	$ 1,901,867.38	$ 1,584,448.48	$ 1,470,805.16	$ 1,429,202.96	$ 1,400,549.71	$ 1,315,169.39	$ 1,375,025.85
8	Applicable Annual Interest Rate	*same as for ACA*	0.042100	0.042100	0.042500	0.042500	0.042500	0.044700	0.044700	0.044700	0.04690	0.04690	0.04690	0.04960
9	Monthly Interest Rate	*Line 8 / 12*	0.003508	0.003508	0.003542	0.003542	0.003542	0.003725	0.003725	0.003725	0.003908	0.003908	0.003908	0.004133
10	Actual GL #25351 EOM Balance	*per GL*	$ 6,697,119.67	$ 6,437,795.93	$ 3,845,304.42	$ 2,672,815.48	$ 2,677,953.68	$ 1,715,841.89	$ 1,584,448.48	$ 1,470,805.16	$ 1,429,202.96	$ 1,400,549.71	$ 1,315,169.39	$ 1,375,025.85
11	Variance	*Line 7 - Line 10*	$ -	$ -	$ 58,962.74	$ 115,281.04	$ 158,056.12	$ 186,025.49	$ -	$ -	$ -	$ -	$ -	$ - 2/

Journal Entry: To Record Revenue	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18
01 01 25351 3 17 6250 489	2,002,041.71	3,187,226.34	4,027,846.21	3,832,932.80	2,894,145.82	1,870,245.82	1,184,101.61	838,476.73	780,699.38	786,802.54	787,626.60	1,120,647.66
01 01 48010 3 17 6220 489	(1,194,097.76)	(1,900,989.28)	(2,402,368.59)	(2,286,114.44)	(1,726,184.34)	(1,115,489.42)	(706,245.56)	(500,101.07)	(465,640.34)	(469,280.51)	(469,772.01)	(668,399.09)
01 01 48110 3 17 6220 489	(624,637.01)	(994,414.62)	(1,256,688.01)	(1,195,875.04)	(902,973.49)	(583,516.70)	(369,439.71)	(261,604.74)	(243,578.20)	(245,482.40)	(245,739.50)	(349,642.07)
01 01 48120 3 17 6220 489	(27,007.55)	(42,995.68)	(54,335.65)	(51,706.26)	(39,042.03)	(25,229.61)	(15,973.53)	(11,311.05)	(10,531.63)	(10,613.96)	(10,625.08)	(15,117.53)
01 01 48300 3 17 6220 489	(560.57)	(892.42)	(1,127.80)	(1,073.22)	(810.36)	(523.67)	(331.55)	(234.77)	(218.60)	(220.30)	(220.54)	(313.78)
01 01 48900 3 17 6220 489	(155,738.82)	(247,934.34)	(313,326.16)	(298,163.84)	(225,135.60)	(145,486.42)	(92,111.26)	(65,225.10)	(60,730.61)	(61,205.37)	(61,269.47)	(87,175.19)

Journal Entry: To Record Interest	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18
01 01 25351 3 17 6250 626	23,236.54	22,998.30	18,283.41	11,831.22	9,942.68	8,807.89	6,481.19	5,679.83	5,655.56	5,518.55	5,296.17	5,547.82
01 01 43101 3 17 6220 626	(23,236.54)	(22,998.30)	(18,283.41)	(11,831.22)	(9,942.68)	(8,807.89)	(6,481.19)	(5,679.83)	(5,655.56)	(5,518.55)	(5,296.17)	(5,547.82)

1/ Pursuant to the TPUC's May 14, 2018 ruling in Docket No. 17-00138, this schedule reflects the approved monthly amortization of the annual Integrity Management Revenue Requirement from Piedmont's 2017 Annual Integrity Management Rider Report, which was filed by the Company on November 30, 2017. See Exhibit A of the Direct Testimony of Pia K. Powers in Docket No. 17-00138 for the approved monthly amortization.

2/ Pursuant to the TPUC's ruling, Piedmont recorded the approved IM Revenue Requirement to its general ledger for January 2018 thru April 2018. It was recorded as a true-up adjustment in May 2018.

[illegible]

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 18-00126

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 2019 -Dec 31 2019						
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]	$ 15,435,431	$ 8,074,499	$ 1,280,077	$ 1,089,296	**$ 25,879,303**
3	Deferred Account Adjustment Due From (To) Customers	Actual Deferred Account Balance at Oct 31, 2018	$ 820,119	$ 429,016	$ 68,013	$ 57,877	**$ 1,375,026**
4	Total Amount for Recovery in this Rider	[= Line 2 + Line 3]	$ 16,255,550	$ 8,503,515	$ 1,348,091	$ 1,147,173	**$ 27,254,329**
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]	$1.46050	$1.27590	$0.56670	$0.14170	
7	**Proposed Integrity Management Rate per therm**	[= Line 6 / 10]	**$0.14605**	**$0.12759**	**$0.05667**	**$0.01417**	
	As previously approved:						
	Jan 1 2018 -Dec 31 2018						
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 of 2017 Revised Annual Report x Line 8]	$ 13,950,563	$ 7,297,742	$ 1,156,936	$ 984,507	$ 23,389,748
10	Deferred Account Adjustment Due From (To) Customers	Actual Deferred Account Balance at Oct 31, 2017	$ 3,920,909	$ 2,051,084	$ 325,165	$ 276,703	$ 6,573,862
11	Total Amount for Recovery in this Rider	[= Line 9 + Line 10]	$ 17,871,472	$ 9,348,827	$ 1,482,101	$ 1,261,210	$ 29,963,610
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 11 / Line 12]	$1.60570	$1.40270	$0.62300	$0.15570	
14	Proposed Integrity Management Rate per therm	[= Line 13 / 10]	$0.16057	$0.14027	$0.06230	$0.01557	

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 18-00126

2018 IMR Annual Report
Schedule 4

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)	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Total
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
TRA Docket No. 18-00[illegible]

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2019 - December 31, 2019

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

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Plant	100,306,283	100,306,283	100,306,283	100,306,283	100,306,283	100,306,283
Accumulated depreciation	(974,475)	(2,428,917)	(3,883,358)	(5,337,799)	(6,792,240)	(8,246,681)
Net plant	99,331,808	97,877,366	96,422,925	94,968,484	93,514,043	92,059,602
ADIT	(4,057,566)	(6,977,767)	(9,549,877)	(24,529,845)	(25,236,577)	(25,647,749)
NOL benefit				24,529,845	21,449,892	18,707,662
Net investment	95,274,242	90,899,604	86,873,053	94,968,484	89,727,360	85,119,515
Pre-tax ROR%	11.446%	11.446%	11.446%	11.446%	9.878%	9.878%
Pre-tax rate of return	10,904,782	10,404,075	9,943,109	10,869,795	8,863,198	8,408,063
Depreciation expense	1,454,441	1,454,441	1,454,441	1,454,441	1,454,441	1,454,441
Property tax expense	737,236	737,236	737,236	737,236	737,236	737,236
Total, excluding uncollectibles	13,096,459	12,595,752	12,134,786	13,060,473	11,054,875	10,599,740
Uncollectibles gross-up factor	1.000308	1.000308	1.000308	1.000308	1.000308	1.000308
Total revenue requirement	13,100,493	12,599,631	12,138,523	13,064,496	11,058,279	10,603,010

Assumptions and calculations:
Rider computed each year
Normal depreciation and AFUDC practices apply; AFUDC ends and depreciation begins when plant goes into service

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Net of tax rate of return	6.96%	6.96%	6.96%	6.96%	7.30%	7.30%

		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
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-Jun-14						
Fiscal year end for this vintage	31-Oct-13						
SIT rate		6.50%	6.50%	6.50%	6.50%	6.50%	6.50%
FIT rate		35.00%	35.00%	35.00%	35.00%	21.00%	21.00%
Composite federal/state tax rate		39.23%	39.23%	39.23%	39.23%	26.14%	26.14%
Uncollectibles rate		0.0308%	0.0308%	0.0308%	0.0308%	0.0308%	0.0308%
Revenue requirement gross-up factor		1.000308	1.000308	1.000308	1.000308	1.000308	1.000308
Capital structure assumptions (Tariff/Order):							
LTD	47.43%						
STD	5.87%						
Common equity	47.71%						
Cost of capital rate assumptions (Tariff/Order):							
LTD	5.25%						
STD	1.55%						
Common equity	10.20%						
Overall and pre-tax RORs	Overall	Pre-tax ROR					
LTD	2.506%	2.506%	2.506%	2.506%	2.506%	2.506%	2.506%
STD	0.093%	0.093%	0.093%	0.093%	0.093%	0.093%	0.093%
Common equity	5.376%	8.846%	8.846%	8.846%	8.846%	7.279%	7.279%
Total	7.975%	11.446%	11.446%	11.446%	11.446%	9.878%	9.878%

Tax depreciation schedule

	Rate	MACRS 15 Yearly	MACRS 15 Cumulative	BONUS 50% Yearly	BONUS 50% 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	44,044,488	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	

		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	247,255						
Rider year BOY amount		247,255	1,701,696	3,156,137	4,610,578	6,065,019	7,519,461
Depreciation expense		1,454,441	1,454,441	1,454,441	1,454,441	1,454,441	1,454,441
Rider year EOY amount		1,701,696	3,156,137	4,610,578	6,065,019	7,519,461	8,973,902
Average accumulated depreciation		974,476	2,428,917	3,883,358	5,337,799	6,792,240	8,246,681

MACRS 15

		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
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		6,635,260	16,002,364	24,433,657	32,025,850	38,857,751	45,050,547
Tax period A tax depreciation		7,909,150	7,118,235	6,410,175	5,769,517	5,186,718	4,911,999
Tax period B tax depreciation		1,457,953	1,313,006	1,181,766	1,062,384	1,006,072	1,006,072
Rider year EOY amount		16,002,363	24,433,607	32,025,850	38,857,751	45,050,551	50,968,632
Average tax depreciation reserve		11,318,812	20,217,985	28,229,749	35,441,821	41,954,156	48,009,596

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

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Accumulated deferred taxes						
Average tax depreciation reserve	11,318,812	20,217,985	28,229,749	35,441,821	41,954,156	48,009,596
Average book depreciation reserve	974,476	2,428,917	3,883,358	5,337,799	6,792,240	8,246,681
Difference	10,344,336	17,789,068	24,346,391	30,104,022	35,161,916	39,762,915
Tax difference balance	10,344,335	17,789,068	24,346,391	30,104,022	35,161,916	35,161,916
Composite tax rate w 35% FIT rate	39.23%	39.23%	39.23%	39.23%	39.23%	39.23%
Incremental tax difference beginning Year 6						4,600,999
Composite tax rate w 21% FIT rate	0.00%	0.00%	0.00%	0.00%	0.00%	26.14%
Average ADIT	4,057,566	6,977,767	9,549,877	11,808,336	13,792,367	14,994,215

Note - composite tax rate ignores excess deferred tax flow back

BONUS 50%

		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
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	58,154,373	62,369,945	66,156,087	69,582,017	72,678,422
Tax period A tax depreciation		3,954,575	3,559,118	3,205,287	2,884,759	2,593,359	2,455,999
Tax period B tax depreciation		728,926	656,503	590,854	531,172	503,036	503,036
Rider year EOY amount		58,154,373	62,369,945	66,156,087	69,582,017	72,678,437	75,637,457
Average tax depreciation reserve		55,812,547	60,262,134	64,258,016	67,874,052	71,130,210	74,157,940

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

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Accumulated deferred taxes						
Average tax depreciation reserve	55,812,547	60,262,134	64,258,016	67,874,052	71,130,210	74,157,940
Average book depreciation reserve	974,476	2,428,917	3,883,358	5,337,799	6,792,240	8,246,681
Difference	54,838,072	57,833,217	60,384,658	62,536,253	64,337,980	65,911,259
Tax difference balance	54,838,072	57,833,217	60,384,658	62,536,253	64,337,980	64,337,980
Composite tax rate w 35% FIT rate	39.23%	39.23%	39.23%	39.23%	39.23%	39.23%
Incremental tax difference beginning Year 6						1,573,279
Composite tax rate w 21% FIT rate	0.00%	0.00%	0.00%	0.00%	0.00%	26.14%
Average ADIT	21,510,734	22,685,080	23,685,887	24,529,845	25,236,577	25,647,749

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 18-[illegible]

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2019 - December 31, 2019

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

	Year 1	Year 2	Year 3	Year 4	Year 5
Plant	53,974,676	53,974,676	53,974,676	53,974,676	53,974,676
Accumulated depreciation	(524,364)	(1,306,997)	(2,089,630)	(2,872,262)	(3,654,895)
Net plant	53,450,312	52,667,679	51,885,047	51,102,414	50,319,781
ADIT	(2,185,372)	(3,754,724)	(12,745,341)	(13,199,477)	(13,452,857)
NOL benefit			1,075,613		
Net investment	51,264,940	48,912,955	40,215,319	37,902,937	36,866,924
Pre tax ROR%	11.446%	11.446%	11.446%	9.878%	9.878%
Pre tax rate of return	5,867,848	5,598,419	4,602,959	3,744,035	3,641,698
Depreciation expense	782,633	782,633	782,633	782,633	782,633
Property tax expense	394,015	394,015	394,015	394,015	394,015
Total, excluding uncollectibles	7,044,496	6,775,067	5,779,563	4,920,683	4,818,346
Uncollectibles gross up factor	1.000308	1.000308	1.000308	1.000308	1.000308
Total revenue requirement	7,046,667	6,777,154	5,781,344	4,922,199	4,819,830

Assumptions and calculations:
Rider computed each year
Normal depreciation and AFUDC practices apply, AFUDC ends and depreciation begins when plant goes into service

	Year 1	Year 2	Year 3	Year 4	Year 5
Net of tax rate of return	6.96%	6.96%	6.96%	7.10%	7.10%

		Year 1	Year 2	Year 3	Year 4	Year 5
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 1 - 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%
FIT rate		35.00%	35.00%	35.00%	21.00%	21.00%
Composite income tax rate		39.23%	39.23%	39.23%	26.14%	26.14%
Uncollectibles rate		0.0308%	0.0308%	0.0308%	0.0308%	0.0308%
Revenue requirement gross up factor		1.000308	1.000308	1.000308	1.000308	1.000308
Capital structure assumptions (rate case):						
LTD	41.42%					
STD	5.87%					
Common equity	52.71%					
Capital cost rate assumptions (rate case):						
LTD	6.05%					
STD	1.59%					
Common equity	10.20%					
Overall and pre-tax RORs	Overall	Pre tax RORs				
LTD	2.506%	2.506%	2.506%	2.506%	2.506%	2.506%
STD	0.093%	0.093%	0.093%	0.093%	0.093%	0.093%
Common equity	5.376%	8.846%	8.846%	8.846%	7.279%	7.279%
Total	7.976%	11.446%	11.446%	11.446%	9.878%	9.878%

Tax depreciation schedule

	Rate	MACRS 15 Yearly	MACRS 15 Cumulative	BONUS 50% Yearly	BONUS 50% 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	39,633,604	1,594,952	46,804,141
Tax year 12	5.90%	3,184,506	42,818,110	1,592,253	48,396,394
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	53,974,675
Total	100.00%	53,974,676		53,974,675	

		Year 1	Year 2	Year 3	Year 4	Year 5
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
Depreciation expense		782,633	782,633	782,633	782,633	782,633
Rider year EOY amount		915,680	1,698,313	2,480,946	3,263,579	4,046,212
Average accumulated depreciation		524,364	1,306,997	2,089,630	2,872,262	3,654,895

MACRS 15

		Year 1	Year 2	Year 3	Year 4	Year 5
Tax depreciation reserve						
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
Tax period A tax depreciation		4,255,903	3,830,313	3,449,522	3,104,569	2,790,977
Tax period B tax depreciation		784,522	706,529	635,876	571,646	541,366
Rider year EOY amount		8,610,850	13,147,691	17,233,089	20,909,304	24,241,646
Average tax depreciation reserve		6,090,637	10,879,271	15,190,390	19,071,196	22,575,475

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

	Year 1	Year 2	Year 3	Year 4	Year 5
Accumulated deferred taxes					
Average tax depreciation reserve	6,090,637	10,879,271	15,190,390	19,071,196	22,575,475
Average book depreciation reserve	524,364	1,306,997	2,089,630	2,872,262	3,654,895
Difference	5,566,273	9,572,274	13,100,760	16,198,934	18,920,580
Tax difference balance	5,566,273	9,572,274	13,100,760	16,198,934	16,198,934
Composite tax rate at 35% FIT rate	39.23%	39.23%	39.23%	39.23%	39.23%
Incremental tax difference beginning Year 5					2,721,646
Composite tax rate at 21% FIT rate	0.00%	0.00%	0.00%	0.00%	26.14%
Average ADIT	2,185,372	3,754,724	[illegible]	[illegible]	7,065,334

Note: composite tax rate ignores excess deferred tax flowback

BONUS 50%

		Year 1	Year 2	Year 3	Year 4	Year 5
Tax depreciation reserve						
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
Tax period A tax depreciation		2,127,952	1,915,156	1,724,761	1,552,285	1,395,488
Tax period B tax depreciation		392,261	353,264	317,938	285,823	270,683
Rider year EOY amount		31,292,763	33,561,184	35,603,882	37,441,990	39,108,161
Average tax depreciation reserve		30,032,657	32,426,973	34,582,533	36,522,936	38,275,076

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

	Year 1	Year 2	Year 3	Year 4	Year 5
Accumulated deferred taxes					
Average tax depreciation reserve	30,032,657	32,426,973	34,582,533	36,522,936	38,275,076
Average book depreciation reserve	524,364	1,306,997	2,089,630	2,872,262	3,654,895
Difference	29,508,293	31,119,977	32,492,903	33,650,674	34,620,180
Tax difference balance	29,508,293	31,119,977	32,492,903	33,650,674	33,650,674
Composite tax rate at 35% FIT rate	39.23%	39.23%	39.23%	39.23%	39.23%
Incremental tax difference beginning Year 5					969,507
Composite tax rate at 21% FIT rate	0.00%	0.00%	0.00%	0.00%	26.14%
Average ADIT	11,574,678	12,206,611	12,745,341	13,199,477	13,452,857

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 18-00126

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2019 - December 31, 2019

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

	Year 1	Year 2	Year 3	Year 4
Plant	18,441,896	18,441,896	18,441,896	18,441,896
Accumulated depreciation	(179,163)	(446,571)	(713,978)	(981,386)
Net plant	18,262,733	17,995,326	17,727,918	17,460,511
ADIT	(746,007)	(4,170,784)	(4,354,768)	(4,456,173)
NOL benefit				
Net investment	17,516,726	13,824,541	13,373,150	13,004,337
Pre tax ROR%	11.446%	11.446%	9.878%	9.878%
Pre tax rate of return	2,004,968	1,582,352	1,320,992	1,284,565
Depreciation expense	267,407	267,407	267,407	267,407
Property tax expense	134,626	134,626	134,626	134,626
Total, excluding uncollectibles	2,406,941	1,984,144	1,723,025	1,686,598
Uncollectibles gross up factor	1.000308	1.000308	1.000308	1.000308
Total revenue requirement	2,407,683	1,984,755	1,723,556	1,686,918

Assumptions and calculations:
Rider computed each year
Normal depreciation and AFUDC practices apply; AFUDC ends and depreciation begins when plant goes into service

	Year 1	Year 2	Year 3	Year 4
Net of tax rate of return	6.96%	6.96%	7.30%	7.30%

			Year 1	Year 2	Year 3	Year 4
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%
FIT rate			35.00%	35.00%	21.00%	21.00%
Composite income tax rate			39.23%	39.23%	26.14%	26.14%
Uncollectibles rate			0.0308%	0.0308%	0.0308%	0.0308%
Revenue requirement gross up factor			1.000308	1.000308	1.000308	1.000308
Capital structure assumptions (rate case):						
LTD	41.62%					
STD	5.67%					
Common equity	52.71%					
Capital cost rate assumptions (rate case):						
LTD	6.06%					
STD	1.53%					
Common equity	10.20%					
Overall and pre-tax ROAs						
	Overall		Pre-tax ROAs			
LTD	2.506%		2.506%	2.506%	2.506%	2.506%
STD	0.093%		0.093%	0.093%	0.093%	0.093%
Common equity	5.376%		8.846%	8.846%	7.279%	7.279%
Total	7.976%		11.446%	11.446%	9.878%	9.878%

Tax depreciation schedule

	Rate	MACRS 15 Yearly	MACRS 15 Cumulative	BONUS 50% Yearly	BONUS 50% Cumulative
Tax year 1	5.00%	922,095		9,681,995	
Tax year 2	9.50%	1,752,980	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
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
Depreciation expense		267,407	267,407	267,407	267,407
Rider year EOY amount		312,867	580,274	847,682	1,115,089
Average accumulated depreciation		179,163	446,571	713,978	981,386

MACRS 15

Tax depreciation reserve		Year 1	Year 2	Year 3	Year 4
FY of completion tax depreciation	922,095				
Post FY tax depreciation to rider date	17%				
Tax year 2 tax depreciation	1,752,980				
Tax year 2 pre rider tax depr	297,837				
Rider year BOY amount		1,219,931	2,942,126	4,392,163	5,888,147
Tax period A tax depreciation		1,454,144	1,308,779	1,178,622	1,060,759
Tax period B tax depreciation		268,051	241,404	317,264	195,318
Rider year EOY amount		2,942,126	4,492,261	5,888,147	7,144,225
Average tax depreciation reserve		2,081,030	3,717,195	5,190,204	6,516,186

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

Accumulated deferred taxes	Year 1	Year 2	Year 3	Year 4
Average tax depreciation reserve	2,081,030	3,717,195	5,190,204	6,516,186
Average book depreciation reserve	179,163	446,571	713,978	981,386
Difference	1,901,867	3,270,624	4,476,226	5,534,800
Tax difference balance	1,901,867	3,270,624	4,476,226	4,476,226
Composite tax rate w 35% FIT rate	39.23%	39.23%	39.23%	39.23%
Incremental tax difference beginning Year 4				1,058,574
Composite tax rate w 21% FIT rate	0.00%	0.00%	0.00%	26.14%
Average ADIT	746,007	1,282,902	1,755,800	2,032,458

Note: composite tax rate ignores excess deferred tax flow back

BONUS 50%

Tax depreciation reserve		Year 1	Year 2	Year 3	Year 4
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
Tax period A tax depreciation		727,072	654,365	589,322	530,380
Tax period B tax depreciation		134,026	120,702	108,617	97,659
Rider year EOY amount		10,692,012	11,467,079	12,165,022	12,793,062
Average tax depreciation reserve		10,261,463	11,079,545	11,816,050	12,479,542

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

Accumulated deferred taxes	Year 1	Year 2	Year 3	Year 4
Average tax depreciation reserve	10,261,463	11,079,545	11,816,050	12,479,543
Average book depreciation reserve	179,163	446,571	713,978	981,386
Difference	10,082,300	10,632,975	11,102,072	11,497,155
Tax difference balance	10,082,300	10,632,975	11,102,072	11,102,072
Composite tax rate w 35% FIT rate	39.23%	39.23%	39.23%	39.23%
Incremental tax difference beginning Year 4				395,583
Composite tax rate w 21% FIT rate	0.00%	0.00%	0.00%	26.14%
Average ADIT	3,954,767	4,170,784	4,354,768	4,456,173

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 18-00126

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2019 - December 31, 2019

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

	Year 1	Year 2	Year 3
Plant	20,076,718	20,076,718	20,076,718
Accumulated depreciation	(195,045)	(486,158)	(777,270)
Net plant	19,881,673	19,590,560	19,299,448
ADIT	(4,305,362)	(4,540,513)	(4,673,979)
NOL benefit	-	-	-
Net investment	15,576,310	15,050,048	14,625,469
Pretax RORN	11.446%	9.878%	9.878%
Pretax rate of return	1,782,814	1,486,637	1,444,697
Depreciation expense	291,112	291,112	291,112
Property Tax expense	146,560	146,560	146,560
Total, excluding uncollectibles	2,220,487	1,924,309	1,882,370
Uncollectibles gross-up factor	1.000328	1.000328	1.000328
Total revenue requirement	2,221,171	1,924,902	1,882,949

Assumptions and calculations:
Rider computed each year
Normal depreciation and AFUDC practices apply. AFUDC ends and depreciation begins when plant goes into service

	Year 1	Year 2	Year 3
Net of tax rate of return	6.96%	7.30%	7.30%

		Year 1	Year 2	Year 3
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%
FIT rate		35.00%	21.00%	21.00%
Composite income tax rate		39.23%	26.14%	26.14%
Uncollectibles rate		0.0328%	0.0328%	0.0328%
Revenue requirement gross-up factor		1.000328	1.000328	1.000328
Capital structure assumptions (rate case):				
LTD	41.42%			
STD	5.87%			
Common equity	52.71%			
Capital cost rate assumptions (rate case):				
LTD	6.05%			
STD	1.56%			
Common equity	10.20%			
Overall and pretax RORs				
	Overall	Pretax RORs		
LTD	2.506%	2.506%	2.506%	2.506%
STD	0.093%	0.093%	0.093%	0.093%
Common equity	5.376%	8.846%	7.279%	7.279%
Total	7.976%	11.446%	9.878%	9.878%

MACRS 15 tax depreciation schedule

		MACRS 15		BONUS 50%	
	Rate	Yearly	Cumulative	Yearly	Cumulative
Tax year 1	5.00%	1,003,836		10,540,277	
Tax year 2	9.50%	1,907,288	2,911,124	953,644	11,493,921
Tax year 3	8.55%	1,716,559	4,627,683	858,280	12,352,201
Tax year 4	7.70%	1,545,907	6,173,591	772,954	13,125,154
Tax year 5	6.93%	1,391,317	7,564,907	695,658	13,820,813
Tax year 6	6.23%	1,250,780	8,815,687	625,390	14,446,202
Tax year 7	5.90%	1,184,526	10,000,213	592,263	15,038,466
Tax year 8	5.90%	1,184,526	11,184,740	592,261	15,630,729
Tax year 9	5.91%	1,186,534	12,371,274	593,267	16,223,996
Tax year 10	5.90%	1,184,526	13,555,800	592,263	16,816,259
Tax year 11	5.91%	1,186,534	14,742,334	593,267	17,409,526
Tax year 12	5.90%	1,184,526	15,926,860	592,263	18,001,789
Tax year 13	5.91%	1,186,534	17,113,394	593,267	18,595,056
Tax year 14	5.90%	1,184,526	18,297,921	592,263	19,187,319
Tax year 15	5.91%	1,186,534	19,484,455	593,267	19,780,586
Tax year 16	2.95%	592,263	20,076,718	296,132	20,076,718
Total	100.00%	20,076,718		20,076,718	

		Year 1	Year 2	Year 3
Accumulated depreciation				
Portion of year in service before rider	17%			
Pre-rider amount of depreciation	49,489			
Rider year BOY amount		49,489	340,602	631,714
Depreciation expense		291,112	291,112	291,112
Rider year EOY amount		340,602	631,714	922,826
Average accumulated depreciation		195,045	486,158	777,270

BONUS 50%		Year 1	Year 2	Year 3
Tax depreciation reserve				
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
Tax period A tax depreciation		791,525	712,372	641,552
Tax period B tax depreciation		145,908	131,402	118,261
Rider year EOY amount		11,639,829	12,483,603	13,243,416
Average tax depreciation reserve		11,171,113	12,061,716	12,863,510

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

	Year 1	Year 2	Year 3
Accumulated deferred taxes			
Average tax depreciation reserve	11,171,113	12,061,716	12,863,510
Average book depreciation reserve	195,045	486,158	777,270
Difference	10,976,067	11,575,558	12,086,239
Tax difference balance	10,976,067	11,575,558	11,575,558
Composite tax rate w 35% FIT rate	39.23%	39.23%	39.23%
Incremental tax difference beginning Year 3	-	-	510,681
Composite tax rate w 21% FIT rate	0.00%	0.00%	26.14%
Average ADIT	4,305,362	4,540,513	4,673,979

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 18-00126

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2019 - December 31, 2019

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

	Year 1	Year 2
Plant	38,244,253	38,244,253
Accumulated depreciation	(371,543)	(976,085)
Net plant	37,872,710	37,268,168
ADIT	(8,201,309)	(8,649,248)
NOL benefit	-	-
Net investment	29,671,401	28,618,920
Pre-tax ROR%	9.878%	9.878%
Pre-tax rate of return	2,930,927	2,831,903
Depreciation expense	554,547	554,547
Property Tax expense	279,183	279,183
Total, excluding uncollectibles	3,764,657	3,665,628
Uncollectibles gross-up factor	1.000308	1.000308
Total revenue requirement	3,765,817	3,666,757

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	7.30%	7.30%

		Year 1	Year 2
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%
FIT rate		21.00%	21.00%
Composite income tax rate		26.14%	26.14%
Uncollectibles rate		0.0308%	0.0308%
Revenue requirement gross-up factor		1.000308	1.000308
Capital structure assumptions (rate case):			
LTD	41.42%		
STD	5.87%		
Common equity	52.71%		
Capital cost rate assumptions (rate case):			
LTD	6.05%		
STD	1.59%		
Common equity	10.20%		
Overall and pre-tax RORs			
	Overall	Pre tax RORs	
LTD	2.506%	2.506%	2.506%
STD	0.093%	0.093%	0.093%
Common equity	5.375%	7.279%	7.279%
Total	7.975%	9.878%	9.878%

MACRS 15 tax depreciation schedule

	Rate	MACRS 15 Yearly	MACRS 15 Cumulative	BONUS 50% Yearly	BONUS 50% Cumulative
Tax year 1	5.00%	1,912,213		20,078,233	
Tax year 2	9.50%	3,633,204	5,545,417	1,816,602	21,894,835
Tax year 3	8.55%	3,269,884	8,815,300	1,634,942	23,529,777
Tax year 4	7.70%	2,944,807	11,760,108	1,472,404	25,002,180
Tax year 5	6.93%	2,650,327	14,410,435	1,325,163	26,327,344
Tax year 6	6.23%	2,382,617	16,793,051	1,191,308	27,518,652
Tax year 7	5.90%	2,256,411	19,049,462	1,128,205	28,646,858
Tax year 8	5.90%	2,256,411	21,305,873	1,128,205	29,775,063
Tax year 9	5.91%	2,260,235	23,566,109	1,130,118	30,905,181
Tax year 10	5.90%	2,256,411	25,822,520	1,128,205	32,033,386
Tax year 11	5.91%	2,260,235	28,082,755	1,130,118	33,163,504
Tax year 12	5.90%	2,256,411	30,339,166	1,128,205	34,291,709
Tax year 13	5.91%	2,260,235	32,599,401	1,130,118	35,421,827
Tax year 14	5.90%	2,256,411	34,855,812	1,128,205	36,550,033
Tax year 15	5.91%	2,260,235	37,116,048	1,130,118	37,680,150
Tax year 16	2.95%	1,128,205	38,244,253	564,103	38,244,253
Total	100.00%	38,244,253		38,244,253	

		Year 1	Year 2
Accumulated depreciation			
Portion of year in service before rider	17%		
Pre-rider amount of depreciation	94,272		
Rider year BOY amount		94,272	648,814
Depreciation expense		554,547	554,547
Rider year EOY amount		648,814	1,203,355
Average accumulated depreciation		371,543	976,085

BONUS 50%		Year 1	Year 2
Tax depreciation reserve			
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
Tax period A tax depreciation		1,507,780	1,357,002
Tax period B tax depreciation		277,940	250,309
Rider year EOY amount		22,172,775	23,780,085
Average tax depreciation reserve		21,279,915	22,976,430

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

	Year 1	Year 2
Accumulated deferred taxes		
Average tax depreciation reserve	21,279,915	22,976,430
Average book depreciation reserve	371,543	976,085
Difference	20,908,372	22,000,345
Tax difference balance	20,908,372	20,908,372
Composite tax rate w 35% FIT rate	39.23%	39.23%
Incremental tax difference beginning Year 2	-	1,141,973
Composite tax rate w 21% FIT rate	0.00%	26.14%
Average ADIT	8,201,309	8,649,248

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 18-00126

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2019 - December 31, 2019

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

	Year 1
Plant	27,564,238
Accumulated depreciation	(267,787)
Net plant	27,296,452
ADIT	(742,922)
NOL benefit	-
Net investment	26,553,530
Pre-tax ROR%	9.878%
Pre-tax rate of return	2,622,946
Depreciation expense	399,681
Property Tax expense	201,219
Total, excluding uncollectibles	3,223,846
Uncollectibles gross-up factor	1.000308
Total revenue requirement	3,224,839

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 7.30%

		Year 1
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%
FIT rate		21.00%
Composite income tax rate		26.14%
Uncollectibles rate		0.0308%
Revenue requirement gross-up factor		1.000308
Capital structure assumptions (rate case):		
LTD	41.42%	
STD	5.87%	
Common equity	52.71%	
Capital cost rate assumptions (rate case):		
LTD	6.05%	
STD	1.59%	
Common equity	10.20%	
Overall and pre-tax RORs		
	Overall	Pre-tax RORs
LTD	2.506%	2.506%
STD	0.093%	0.093%
Common equity	5.376%	7.279%
Total	7.976%	9.878%

MACRS 15 tax depreciation schedule

	Rate	MACRS 15 Yearly	Cumulative
Tax year 1	5.00%	1,378,212	
Tax year 2	9.50%	2,618,603	3,996,815
Tax year 3	8.55%	2,356,742	6,353,557
Tax year 4	7.70%	2,122,446	8,476,003
Tax year 5	6.93%	1,910,232	10,386,205
Tax year 6	6.23%	1,717,252	12,103,457
Tax year 7	5.90%	1,626,290	13,729,747
Tax year 8	5.90%	1,626,290	15,356,037
Tax year 9	5.91%	1,629,046	16,985,084
Tax year 10	5.90%	1,626,290	18,611,374
Tax year 11	5.91%	1,629,046	20,240,420
Tax year 12	5.90%	1,626,290	21,866,710
Tax year 13	5.91%	1,629,046	23,495,757
Tax year 14	5.90%	1,626,290	25,122,047
Tax year 15	5.91%	1,629,046	26,751,093
Tax year 16	2.95%	813,145	27,564,238
Total	100.00%	27,564,238	

		Year 1
Accumulated depreciation		
Portion of year in service before rider	17%	
Pre-rider amount of depreciation	67,946	
Rider year BOY amount		67,946
Depreciation expense		399,681
Rider year EOY amount		467,627
Average accumulated depreciation		267,787

MACRS 15

		Year 1
Tax depreciation reserve		
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
Tax period A tax depreciation		2,173,440
Tax period B tax depreciation		400,646
Rider year EOY amount		4,397,461
Average tax depreciation reserve		3,110,418

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

	Year 1
Accumulated deferred taxes	
Average tax depreciation reserve	3,110,418
Average book depreciation reserve	267,787
Difference	2,842,631
Composite tax rate	26.14%
Average ADIT	742,922

Note: composite tax rate ignores excess deferred tax flowback

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 18-00126

2018 IMR Annual Report
Schedule 12

Tennessee Allocated NOL Carryforward As of November 30, 2018

Line No.				Line Computation
1	2013	Taxable Income	(20,072,959)	
2		Allocated NOL	(1,394,788)	
3	2014	Taxable Income	(70,327,409)	
4		Allocated NOL	(48,689,253)	
5	2015	Taxable Income	35,741,137	
6		Allocated NOL	-	
7	2016	Taxable Income	(7,598,842)	
8		Allocated NOL	(3,366,479)	
9	TN Allocated NOL Carryforward		(53,450,521)	Line 9 = Lines 2 + 4 + 6 + 8
10	Federal Tax Rate		0.35	
11	TN Tax Benefit of NOL Carryforward		(18,707,682)	Line 11 = Line 9 x Line 10

Schedule of Prior Period Adjustments

None

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.

Schedule 1

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Cumulative Integrity Management Investment Amount

Actual Integrity Management Investment, by Integrity Project Type

Line No.		Current Vintage Year: Vintage Year 7: November 2018 Capital Expenditure [1]	Current Vintage Year: Vintage Year 7: Prior Cumulative Capital Expenditure [2]	Current Vintage Year: Vintage Year 7: Cumulative Capital Expenditure as of November 2018 [3]	All Vintage Years: Cumulative Capital Expenditure as of November 2018 [6]
	TN Direct				
1	Corrosion Control	$ 269,864.75		$ 269,864.75	$ 7,613,383.73
2	Casing Remediation	$ -		$ -	$ 882,064.39
3	Distribution Integrity	$ 804,703.49		$ 804,703.49	$ 69,917,048.25
4	Transmission Integrity	$ 1,309,933.04		$ 1,309,933.04	$ 191,944,633.64
5	Total	$ 2,384,501.28	$ -	$ 2,384,501.28	$ 270,357,130.01
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ -	$ -	$ -	$ 133,880,060.70
7	TN % of CO-3 for Current Month [4]	16.33%			
8	Total Allocated to TN	$ -	$ -	$ -	$ 23,535,435.31
9	Total Capital Expenditures [Line 5 + Line 8]	$ 2,384,501.28	$ -	$ 2,384,501.28	$ 293,892,565.32
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 2,384,501.28**	**$ -**	**$ 2,384,501.28**	**$ 260,992,565.32**

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 and 6, which captures amounts through 10/31/18, is $258,608,064.04 ($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 5 and $27,564,238.09 for Vintage Year 6).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	November 2018
1	CORR-Corrosion Control	F0214467	17	Nashville Bridge New Coating	175,320.19
2	CORR-Corrosion Control	FP1734718	17	Nashville Galvanic Anode	48,811.06
3	CORR-Corrosion Control	FP1734720	17	Nashville HP Dist Remediation	1,106.90
4	CORR-Corrosion Control	FP1734721	17	Nashville Trans Remediation	44,626.60
5	DIMP-Distribution Integrity	F0215064	17	Elizabethan Rd Valve Replacement	7,184.01
6	DIMP-Distribution Integrity	F0215066	17	Maplewood Rd Valve	3.07
7	DIMP-Distribution Integrity	F0216582	17	Rural Hill Isolation Valve Removal	65.64
8	DIMP-Distribution Integrity	F0221329	17	10th Ave N Valve Replacement	28.09
9	DIMP-Distribution Integrity	F0221354	17	Davidson Drive @ Charlotte Pike Valve	22.51
10	DIMP-Distribution Integrity	F0222120	17	31st Ave @ West end Valve Replacement	4.81
11	DIMP-Distribution Integrity	F0222124	17	Harding Pl & Granny White Pk Valve	14.95
12	DIMP-Distribution Integrity	F0222670	17	Donelso Plaza Regulator Removal	(385.11)
13	DIMP-Distribution Integrity	F0223608	17	Old Hickory Blvd Replacement	50,492.94
14	DIMP-Distribution Integrity	F0225698	17	Centennial Blvd Main Replacement	1,451.55
15	DIMP-Distribution Integrity	F0225705	17	Old Harding Pike Insulator	2,775.98
16	DIMP-Distribution Integrity	F0225786	17	Woodcrest Leak Repair	13.75
17	DIMP-Distribution Integrity	F0227045	17	Highway 76 Valve Replacement	11440.17
18	DIMP-Distribution Integrity	FP1733762	17	Grandview Ave	(19,524.00)
19	DIMP-Distribution Integrity	FP1733763	17	Harding Place	242,257.01
20	DIMP-Distribution Integrity	FP1733931	17	Shelby Park RR Bridge Project	(2,186.26)
21	DIMP-Distribution Integrity	FP1733940	17	Hadley to Buffolo St Wilming	(17,162.00)
22	DIMP-Distribution Integrity	FP1734138	17	Electric Avenue Project	(6,299.75)
23	DIMP-Distribution Integrity	FP1734415	17	Foster Ave	(4,604.75)
24	DIMP-Distribution Integrity	FP1734421	17	4th Ave Sounth Inspection	11,958.36
25	DIMP-Distribution Integrity	FP1734430	17	Keaton Ave	739.66
26	DIMP-Distribution Integrity	FP1734432	17	Visco Dt	384,811.46
27	DIMP-Distribution Integrity	FP1734480	17	Emergency Nesbit Ln	(7,765.39)
28	DIMP-Distribution Integrity	FP1734688	17	Abbott Martin @ Walnut Dr.	419.58
29	DIMP-Distribution Integrity	FP1734690	17	Belmont Pit Regulator Replacement	706.01
30	DIMP-Distribution Integrity	FP1734693	17	Cliff Dr Main replacement	3,626.25
31	DIMP-Distribution Integrity	FP1734694	17	Forrest St.	2,399.40
32	DIMP-Distribution Integrity	FP1734696	17	West Tyne & Old Harding Place	84,330.13
33	DIMP-Distribution Integrity	FP1734799	17	Nashville Bridge Attachments	62,651.03
34	DIMP-Distribution Integrity	FP1734818	17	Bryan St #1852	(160.86)
35	DIMP-Distribution Integrity	FP1734410	17	Georgia Ave Renewal	(4,604.75)
36	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	(25,620.05)
37	TIMP-Transmission Integrity	FP1734120	17	Line 431 Replacement	1,254,734.35
38	TIMP-Transmission Integrity	FP1734394	17	Line 431 Ph II 20 & 12"Transmission	80,818.74

Total (unallocated)	**$ 2,384,501.28**
subtotal: TN Direct (unallocated)	*$ 2,384,501.28*
subtotal: CO-3 (unallocated)	*$ -*
	$ 2,384,501.28

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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

Line No.				**Nov-18**
1	Beginning Balance	*Prior Month's IMR Report*	$	1,375,025.85
2	IMR Revenue Recognition	*Prior Annual IMR Report*		2,031,731.19
3	(Collections from IM Adjustment)	*see Separate Schedule*		(2,970,020.43)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*		436,736.61
5	Average Balance	*(Line 1 + Line 4) /2*		905,881.23
6	Accrued Interest	*Line 5 * Line 9*		3,744.01
7	Ending Balance After Interest	*Line 4 + Line 6*	$	440,480.62
8	Applicable Annual Interest Rate	*same as for ACA*		0.049600
9	Monthly Interest Rate	*Line 8 / 12*		0.004133
10	Actual GL #0253139 EOM Balance	*per GL*	$	440,480.62
11	Variance	*Line 7 - Line 10*	$	-

Journal Entry: To Record Revenue	
47136 0253139 GA489 PTOP	2,031,731.19
47136 0480000 GA489 PTOP 0526 RESVAL	(1,211,805.75)
47136 0481200 GA489 PTOP 0526 COMSTD	(633,900.13)
47136 0481000 GA489 PTOP 0526 INDSLS	(27,408.06)
47136 0483011 GA489 PTOP 0526 GASRSL	(568.88)
47136 0489000 GA489 PTOP 0526 BOTHRV	(158,048.37)

Journal Entry: To Record Interest	
47136 0253139 GA626 PTOP	3,744.01
47136 0431150 GA626 PTOP 0526	(3,744.01)

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support
Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		November 2018				
		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
Line No.						
1	Residential (301)	0.16057		10,307,018		1,654,997.88
2	Small General Sales (302)	0.14027		5,194,641		728,652.29
3	Medium General Sales (352)	0.14027		1,732,494		243,016.93
4	Experimental Motor Vehicle Fuel (343/352)	0.14027		11		1.54
5	Firm Lg General Sales (303)	0.06230		817,101		50,905.39
6	Experimental Motor Vehicle Fuel (343/303)	0.06230		30,759		1,916.29
7	Firm Lg General Transportation (313)	0.06230		2,191,121		136,506.84
8	Experimental Motor Vehicle Fuel (343/313)	0.06230		136,704		8,516.66
9	Firm Resale (310)	0.06230		2,826		176.06
10	Interruptible Lg General Sales (304)	0.01557		38,910		605.83
11	Interruptible Lg General Transportation (314)	0.01557		9,295,101		144,724.72
12	**Total**					**$ 2,970,020.43**

Journal Entry: To Record Collections

47136 0480000 GA489 PTOP 0526 RESVAL	1,654,997.88
47136 0481200 GA489 PTOP 0526 COMSTD	728,652.29
47136 0481200 GA489 PTOP 0526 COMSTD	243,018.47
47136 0481000 GA489 PTOP 0526 INDSLS	52,821.68
47136 0489000 GA489 PTOP 0526 BOTHRV	145,023.50
47136 0483011 GA489 PTOP 0526 GASRSL	176.06
47136 0481000 GA489 PTOP 0526 INDSLS	605.83
47136 0489000 GA489 PTOP 0526 BOTHRV	144,724.72
47136 0253139 GA489 PTOP	(2,970,020.43)
	-

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

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

Line No.		Current Vintage Year: Vintage Year 7			All Vintage Years
		December 2018 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of December 2018 [3]	Cumulative Capital Expenditure as of December 2018 [6]
	TN Direct				
1	Corrosion Control	$ 126,377.91	$ 269,864.75	$ 396,242.66	$ 7,739,761.64
2	Casing Remediation	$ (2,789.54)		$ (2,789.54)	$ 879,274.85
3	Distribution Integrity	$ 906,346.87	$ 804,703.49	$ 1,711,050.36	$ 70,823,395.12
4	Transmission Integrity	$ 1,121,044.95	$ 1,309,933.04	$ 2,430,977.99	$ 193,065,678.59
5	Total	$ 2,150,980.19	$ 2,384,501.28	$ 4,535,481.47	$ 272,508,110.20
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ -	$ -	$ -	$ 133,880,060.70
7	TN % of CO-3 for Current Month [4]	16.33%			
8	Total Allocated to TN	$ -	$ -	$ -	$ 23,535,435.31
9	Total Capital Expenditures [Line 5 + Line 8]	$ 2,150,980.19	$ 2,384,501.28	$ 4,535,481.47	$ 296,043,545.51
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 2,150,980.19**	**$ 2,384,501.28**	**$ 4,535,481.47**	**$ 263,143,545.51**

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 and 6, which captures amounts through 10/31/18, is $258,608,064.04 ($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 5 and $27,564,238.09 for Vintage Year 6).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	December 2018
1	CORR-Corrosion Control	F0214467	17	Nashville Bridge New Coating	(20,751.90)
2	CORR-Corrosion Control	F0216211	17	Paint Main Shelby Pedestrian bridge	122,499.19
3	CORR-Corrosion Control	FP1734718	17	Nashville Galvanic Anode	17,641.53
4	CORR-Corrosion Control	FP1734721	17	Nashville Trans Remediation	6,208.81
5	CORR-Corrosion Control	FP1734721	17	Nashville Trans Remediation	780.28
6	CSNG-Casing & Remediation	FP1733743	17	Old Hickory Blvd c/s Center Street in Hermitage, Tn.	(2,825.00)
7	CSNG-Casing & Remediation	FP1734395	17	Wilson Pike Circle at CSX Crossing	35.46
8	DIMP-Distribution Integrity	F0215066	17	Maplewood Rd Valve	3.09
9	DIMP-Distribution Integrity	F0216582	17	Rural Hill Isolation Valve Removal	66.06
10	DIMP-Distribution Integrity	F0221329	17	10th Ave N Valve Replacement	28.27
11	DIMP-Distribution Integrity	F0221354	17	Davidson Drive @ Charlotte Pike Valve	22.66
12	DIMP-Distribution Integrity	F0222120	17	31st Ave @ West end Valve Replacement	4.84
13	DIMP-Distribution Integrity	F0222124	17	Harding Pl & Granny White Pk Valve	15.04
14	DIMP-Distribution Integrity	F0222311	17	Greenbrier Elementary School Main Repair	266.11
15	DIMP-Distribution Integrity	F0223608	17	Old Hickory Blvd Replacement	22650.84
16	DIMP-Distribution Integrity	F0225698	17	Centennial Blvd Main Replacement	9.32
17	DIMP-Distribution Integrity	F0225705	17	Old Harding Pike Insulator	108.20
18	DIMP-Distribution Integrity	F0225786	17	Woodcrest Leak Repair	13.84
19	DIMP-Distribution Integrity	F0227045	17	Highway 76 Valve Replacement	7,589.97
20	DIMP-Distribution Integrity	FP1733763	17	Harding Place	92,339.81
21	DIMP-Distribution Integrity	FP1733931	17	Shelby Park RR Bridge Project	25,735.73
22	DIMP-Distribution Integrity	FP1734432	17	Visco Dt	238,643.42
23	DIMP-Distribution Integrity	FP1734688	17	Abbott Martin @ Walnut Dr.	9,846.92
24	DIMP-Distribution Integrity	FP1734693	17	Cliff Dr Main replacement	468,006.89
25	DIMP-Distribution Integrity	FP1734694	17	Forrest St.	21,895.44
26	DIMP-Distribution Integrity	FP1734696	17	West Tyne & Old Harding Place	9,889.20
27	DIMP-Distribution Integrity	FP1734799	17	Nashville Bridge Attachments	9,211.22
28	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	11,358.76
29	TIMP-Transmission Integrity	FP1734120	17	Line 431 Replacement	1,063,579.29
30	TIMP-Transmission Integrity	FP1734120	17	Line 431 Replacement	6,112.26
31	TIMP-Transmission Integrity	FP1734394	17	Line 431 Ph II Land	39,985.84
32	TIMP-Transmission Integrity	FP1734394	17	Line 431 Ph II Reg Station	8.80

Total (unallocated)	**$ 2,150,980.19**
subtotal: TN Direct (unallocated)	*$ 2,150,980.19*
subtotal: CO-3 (unallocated)	*$ -*
	$ 2,150,980.19

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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

Line No.			**Dec-18**
1	Beginning Balance	*Prior Month's IMR Report*	$ 440,480.62
2	IMR Revenue Recognition	*Prior Annual IMR Report*	3,234,491.64
3	(Collections from IM Adjustment)	*see Separate Schedule*	(5,149,669.18)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	(1,474,696.92)
5	Average Balance	*(Line 1 + Line 4) /2*	(517,108.15)
6	Accrued Interest	*Line 5 * Line 9*	(2,137.21)
7	Ending Balance After Interest	*Line 4 + Line 6*	$ (1,476,834.13)
8	Applicable Annual Interest Rate	*same as for ACA*	0.049600
9	Monthly Interest Rate	*Line 8 / 12*	0.004133
10	Actual GL #0253139 EOM Balance	*per GL*	$ (1,476,834.13)
11	Variance	*Line 7 - Line 10*	$ -

Journal Entry: To Record Revenue	
47136 0253139 GA489 PTOP	3,234,491.64
47136 0480000 GA489 PTOP 0526 RESVAL	(1,929,180.19)
47136 0481200 GA489 PTOP 0526 COMSTD	(1,009,161.39)
47136 0481000 GA489 PTOP 0526 INDSLS	(43,633.29)
47136 0483011 GA489 PTOP 0526 GASRSL	(905.66)
47136 0489000 GA489 PTOP 0526 BOTHRV	(251,611.11)

Journal Entry: To Record Interest	
47136 0253139 GA626 PTOP	(2,137.21)
47136 0431150 GA626 PTOP 0526	2,137.21

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		December 2018				
		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
Line No.						
1	Residential (301)	0.16057		19,992,349		3,210,171.48
2	Small General Sales (302)	0.14027		8,557,208		1,200,319.57
3	Medium General Sales (352)	0.14027		2,627,974		368,625.91
4	Experimental Motor Vehicle Fuel (343/352)	0.14027		-		-
5	Firm Lg General Sales (303)	0.06230		1,017,504		63,390.50
6	Experimental Motor Vehicle Fuel (343/303)	0.06230		30,555		1,903.58
7	Firm Lg General Transportation (313)	0.06230		2,348,972		146,340.96
8	Experimental Motor Vehicle Fuel (343/313)	0.06230		130,456		8,127.41
9	Firm Resale (310)	0.06230		3,181		198.18
10	Interruptible Lg General Sales (304)	0.01557		27,269		424.58
11	Interruptible Lg General Transportation (314)	0.01557		9,644,638		150,167.01
12	**Total**					**$ 5,149,669.18**

Journal Entry: To Record Collections

47136 0480000 GA489 PTOP 0526 RESVAL	3,210,171.48
47136 0481200 GA489 PTOP 0526 COMSTD	1,200,319.57
47136 0481200 GA489 PTOP 0526 COMSTD	368,625.91
47136 0481000 GA489 PTOP 0526 INDSLS	65,294.08
47136 0489000 GA489 PTOP 0526 BOTHRV	154,468.37
47136 0483011 GA489 PTOP 0526 GASRSL	198.18
47136 0481000 GA489 PTOP 0526 INDSLS	424.58
47136 0489000 GA489 PTOP 0526 BOTHRV	150,167.01
47136 0253139 GA489 PTOP	(5,149,669.18)
	-

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

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

Line No.		Current Vintage Year: Vintage Year 7			All Vintage Years
		January 2019 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of January 2019 [3]	Cumulative Capital Expenditure as of January 2019 [6]
	TN Direct				
1	Corrosion Control	$ 17,922.34	$ 396,242.66	$ 414,165.00	$ 7,757,683.98
2	Casing Remediation	$ (2,000.00)	$ (2,789.54)	$ (4,789.54)	$ 877,274.85
3	Distribution Integrity	$ 1,495,737.15	$ 1,711,050.36	$ 3,206,787.51	$ 72,319,132.27
4	Transmission Integrity	$ 1,286,806.91	$ 2,430,977.99	$ 3,717,784.90	$ 194,352,485.50
5	Total	$ 2,798,466.40	$ 4,535,481.47	$ 7,333,947.87	$ 275,306,576.60
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ -	$ -	$ -	$ 133,880,060.70
7	TN % of CO-3 for Current Month [4]	16.33%			
8	Total Allocated to TN	$ -	$ -	$ -	$ 23,535,435.31
9	Total Capital Expenditures [Line 5 + Line 8]	$ 2,798,466.40	$ 4,535,481.47	$ 7,333,947.87	$ 298,842,011.91
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 2,798,466.40**	**$ 4,535,481.47**	**$ 7,333,947.87**	**$ 265,942,011.91**

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 and 6, which captures amounts through 10/31/18, is $258,608,064.04 ($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 5 and $27,564,238.09 for Vintage Year 6).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	January 2019
1	CORR-Corrosion Control	F0214467	17	Nashville Bridge New Coating	10,817.01
2	CORR-Corrosion Control	F0216211	17	Paint Main Shelby Pedestrian bridge	9,838.69
3	CORR-Corrosion Control	FP1734720	17	Nashville HP Dist Remediation	831.13
4	CORR-Corrosion Control	FP1734721	17	Nashville Trans Remediation	(3,564.49)
5	CSNG-Casing & Remediation	FP1734395	17	Wilson Pike Circle at CSX Crossing	(2,000.00)
6	DIMP-Distribution Integrity	F0215066	17	Maplewood Rd Valve	6.30
7	DIMP-Distribution Integrity	F0216582	17	Rural Hill Isolation Valve Removal	134.66
8	DIMP-Distribution Integrity	F0221329	17	10th Ave N Valve Replacement	57.63
9	DIMP-Distribution Integrity	F0221354	17	Davidson Drive @ Charlotte Pike Valve	3,822.42
10	DIMP-Distribution Integrity	F0222120	17	31st Ave @ West end Valve Replacement	9.88
11	DIMP-Distribution Integrity	F0222124	17	Harding Pl & Granny White Pk Valve	30.66
12	DIMP-Distribution Integrity	F0221351	17	E South St Main Relocate	290.65
13	DIMP-Distribution Integrity	F0222727	17	Brick Church Pike to West Trinity	7,994.26
14	DIMP-Distribution Integrity	F0223608	17	Old Hickory Blvd Replacement	30,074.56
15	DIMP-Distribution Integrity	F0225698	17	Centennial Blvd Main Replacement	9.56
16	DIMP-Distribution Integrity	F0225705	17	Old Harding Pike Insulator	50,194.32
17	DIMP-Distribution Integrity	F0225786	17	Woodcrest Leak Repair	28.22
18	DIMP-Distribution Integrity	F0227045	17	Highway 76 Valve Replacement	6,907.56
19	DIMP-Distribution Integrity	FP1733763	17	Harding Place	114,383.18
20	DIMP-Distribution Integrity	FP1733931	17	Shelby Park RR Bridge Project	43,628.87
21	DIMP-Distribution Integrity	FP1734432	17	Visco Dt	60,633.36
22	DIMP-Distribution Integrity	FP1734688	17	Abbott Martin @ Walnut Dr.	346,350.48
23	DIMP-Distribution Integrity	FP1734693	17	Cliff Dr Main replacement	6,720.05
24	DIMP-Distribution Integrity	FP1734694	17	Forrest St.	816,971.16
25	DIMP-Distribution Integrity	FP1734696	17	West Tyne & Old Harding Place	4,868.37
26	DIMP-Distribution Integrity	FP1734799	17	Nashville Bridge Attachments	2,621.00
27	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	(5,634.81)
28	TIMP-Transmission Integrity	FP1734120	17	Line 431 Replacement	1,176,256.56
29	TIMP-Transmission Integrity	FP1734394	17	Line 431 Ph II Land	21,222.28
30	TIMP-Transmission Integrity	FP1734394	17	Line 431 Ph II Reg Station	94,962.88

Total (unallocated)	**$ 2,798,466.40**
subtotal: TN Direct (unallocated)	*$ 2,798,466.40*
subtotal: CO-3 (unallocated)	*$ -*
	$ 2,798,466.40

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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

Line No.			**Jan-19**
1	Beginning Balance	*Prior Month's IMR Report*	$ (1,476,834.13)
2	IMR Revenue Recognition	*Prior Annual IMR Report*	4,027,846.21
3	(Collections from IM Adjustment)	*see Separate Schedule*	(5,504,963.90)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	(2,953,951.82)
5	Average Balance	*(Line 1 + Line 4) /2*	(2,215,392.98)
6	Accrued Interest	*Line 5 * Line 9*	(9,563.85)
7	Ending Balance After Interest	*Line 4 + Line 6*	$ (2,963,515.67)
8	Applicable Annual Interest Rate	*same as for ACA*	0.051800
9	Monthly Interest Rate	*Line 8 / 12*	0.004317
10	Actual GL #0253139 EOM Balance	*per GL*	$ (2,963,515.67)
11	Variance	*Line 7 - Line 10*	$ -

Journal Entry: To Record Revenue	
47136 0253139 GA489 PTOP	4,027,846.21
47136 0480000 GA489 PTOP 0526 RESVAL	(2,402,368.59)
47136 0481200 GA489 PTOP 0526 COMSTD	(1,256,688.01)
47136 0481000 GA489 PTOP 0526 INDSLS	(54,335.65)
47136 0483011 GA489 PTOP 0526 GASRSL	(1,127.80)
47136 0489000 GA489 PTOP 0526 BOTHRV	(313,326.16)

Journal Entry: To Record Interest	
47136 0253139 GA626 PTOP	(9,563.85)
47136 0431150 GA626 PTOP 0526	9,563.85

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		January 2019				
		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
Line No.						
1	Residential (301)	0.16057		21,062,323		3,381,977.20
2	Small General Sales (302)	0.14027		9,393,889		1,317,680.81
3	Medium General Sales (352)	0.14027		2,835,519		397,738.25
4	Experimental Motor Vehicle Fuel (343/352)	0.14027		192		26.93
5	Firm Lg General Sales (303)	0.06230		1,121,675		69,880.35
6	Experimental Motor Vehicle Fuel (343/303)	0.06230		31,059		1,934.98
7	Firm Lg General Transportation (313)	0.06230		2,628,388		163,748.57
8	Experimental Motor Vehicle Fuel (343/313)	0.06230		149,980		9,343.75
9	Firm Resale (310)	0.06230		4,033		251.26
10	Interruptible Lg General Sales (304)	0.01557		26,745		416.42
11	Interruptible Lg General Transportation (314)	0.01557		10,402,401		161,965.38
12	**Total**					**$ 5,504,963.90**

Journal Entry: To Record Collections

47136 0480000 GA489 PTOP 0526 RESVAL	3,381,977.20
47136 0481200 GA489 PTOP 0526 COMSTD	1,317,680.81
47136 0481200 GA489 PTOP 0526 COMSTD	397,765.18
47136 0481000 GA489 PTOP 0526 INDSLS	71,815.33
47136 0489000 GA489 PTOP 0526 BOTHRV	173,092.32
47136 0483011 GA489 PTOP 0526 GASRSL	251.26
47136 0481000 GA489 PTOP 0526 INDSLS	416.42
47136 0489000 GA489 PTOP 0526 BOTHRV	161,965.38
47136 0253139 GA489 PTOP	(5,504,963.90)
	-

Schedule 1

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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

		Current Vintage Year: Vintage Year 7			All Vintage Years
Line No.		February 2019 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of February 2019 [3]	Cumulative Capital Expenditure as of February 2019 [6]
	TN Direct				
1	Corrosion Control	$ (944.95)	$ 414,165.00	$ 413,220.05	$ 7,756,739.03
2	Casing Remediation	$ -	$ (4,789.54)	$ (4,789.54)	$ 877,274.85
3	Distribution Integrity	$ 1,402,714.09	$ 3,206,787.51	$ 4,609,501.60	$ 73,721,846.36
4	Transmission Integrity	$ 2,176,388.12	$ 3,717,784.90	$ 5,894,173.02	$ 196,528,873.62
5	Total	$ 3,578,157.26	$ 7,333,947.87	$ 10,912,105.13	$ 278,884,733.86
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ -	$ -	$ -	$ 133,880,060.70
7	TN % of CO-3 for Current Month [4]	15.80%			
8	Total Allocated to TN	$ -	$ -	$ -	$ 23,535,435.31
9	Total Capital Expenditures [Line 5 + Line 8]	$ 3,578,157.26	$ 7,333,947.87	$ 10,912,105.13	$ 302,420,169.17
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 3,578,157.26**	**$ 7,333,947.87**	**$ 10,912,105.13**	**$ 269,520,169.17**

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 and 6, which captures amounts through 10/31/18, is $258,608,064.04 ($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 5 and $27,564,238.09 for Vintage Year 6).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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

Line No.	Capital Project Type	Funding Project Number	District	Funding Project Description	February 2019
1	CORR-Corrosion Control	F0214467	17	Nashville Bridge New Coating	(1,810.72)
2	CORR-Corrosion Control	F0216211	17	Paint Main Shelby Pedestrian bridge	865.77
3	DIMP-Distribution Integrity	FP1733763	17	Harding Place	26,633.01
4	DIMP-Distribution Integrity	FP1734799	17	Nashville Bridge Attachments	(1,684.66)
5	DIMP-Distribution Integrity	FP1734432	17	Visco Dt	45,657.44
6	DIMP-Distribution Integrity	FP1734693	17	Cliff Dr Main replacement	(15,946.93)
7	DIMP-Distribution Integrity	F0215066	17	Maplewood Rd Valve	(6.20)
8	DIMP-Distribution Integrity	FP1734696	17	West Tyne & Old Harding Place	419.67
9	DIMP-Distribution Integrity	F0216582	17	Rural Hill Isolation Valve Removal	(132.50)
10	DIMP-Distribution Integrity	F0221329	17	10th Ave N Valve Replacement	(56.70)
11	DIMP-Distribution Integrity	F0222124	17	Harding Pl & Granny White Pk Valve	(30.46)
12	DIMP-Distribution Integrity	FP1734688	17	Abbott Martin @ Walnut Dr.	228,159.23
13	DIMP-Distribution Integrity	FP1734694	17	Forrest St.	670,759.75
14	DIMP-Distribution Integrity	F0223608	17	Old Hickory Blvd Replacement	39,721.73
15	DIMP-Distribution Integrity	F0225705	17	Old Harding Pike Insulator	162.40
16	DIMP-Distribution Integrity	F0222120	17	31st Ave @ West end Valve Replacement	(9.72)
17	DIMP-Distribution Integrity	F0221354	17	Davidson Drive @ Charlotte Pike Valve	(20.75)
18	DIMP-Distribution Integrity	F0225786	17	Woodcrest Leak Repair	(27.77)
19	DIMP-Distribution Integrity	F0227045	17	Highway 76 Valve Replacement	9,000.35
20	DIMP-Distribution Integrity	FP1733931	17	Shelby Park RR Bridge Project	224,685.94
21	DIMP-Distribution Integrity	F0225698	17	Centennial Blvd Main Replacement	9.62
22	DIMP-Distribution Integrity	F0222727	17	Brick Church Pike to West Trinity	171,447.45
23	DIMP-Distribution Integrity	F0221908	17	Silas Creek at Good Hope	3,973.19
24	TIMP-Transmission Integrity	FP1734120	17	Line 431 Replacement	1,854,883.07
25	TIMP-Transmission Integrity	FP1734120	17	Line 431 Replacement	77.75
26	TIMP-Transmission Integrity	FP1734394	17	Line 431 Ph II Land	19,904.12
27	TIMP-Transmission Integrity	FP1734394	17	Line 431 Ph II Reg Station	288,286.32
28	TIMP-Transmission Integrity	FP1733398	17	South Nashville 20"	13,236.86
29	**Total (unallocated)**				**$ 3,578,157.26**

subtotal: TN Direct (unallocated) *$ 3,578,157.26*
subtotal: CO-3 (unallocated) *$ -*
$ 3,578,157.26

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 3

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

Line No.		Feb-19
1	Beginning Balance	$ (2,963,515.67)
2	IMR Revenue Recognition	3,832,932.80
3	(Collections from IM Adjustment)	(5,841,113.21)
4	Ending Balance Before Interest	(4,971,696.08)
5	Average Balance	(3,967,605.88)
6	Accrued Interest	(17,128.15)
7	Ending Balance After Interest	$ (4,988,824.23)
8	Applicable Annual Interest Rate	0.051800
9	Monthly Interest Rate	0.004317
10	Actual GL #0253139 EOM Balance	$ (4,988,824.23)
11	Variance	$ -

Journal Entry: To Record Revenue	
47136 0253139 GA489 PTOP	3,832,932.80
47136 0480000 GA489 PTOP 0526 RESVAL	(2,286,114.44)
47136 0481200 GA489 PTOP 0526 COMSTD	(1,195,875.04)
47136 0481000 GA489 PTOP 0526 INDSLS	(51,706.26)
47136 0483011 GA489 PTOP 0526 GASRSL	(1,073.22)
47136 0489000 GA489 PTOP 0526 BOTHRV	(298,163.84)

Journal Entry: To Record Interest	
47136 0253139 GA626 PTOP	(17,128.15)
47136 0431150 GA626 PTOP 0526	17,128.15

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

Line No.		February 2019				
		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
1	Residential (301)	0.16057		23,389,331		3,755,624.88
2	Small General Sales (302)	0.14027		9,672,283		1,356,731.14
3	Medium General Sales (352)	0.14027		2,887,034		404,964.26
4	Experimental Motor Vehicle Fuel (343/352)	0.14027		383		53.72
5	Firm Lg General Sales (303)	0.06230		846,713		52,750.22
6	Experimental Motor Vehicle Fuel (343/303)	0.06230		28,386		1,768.45
7	Firm Lg General Transportation (313)	0.06230		2,002,913		124,781.48
8	Experimental Motor Vehicle Fuel (343/313)	0.06230		131,397		8,186.03
9	Firm Resale (310)	0.06230		2,482		154.63
10	Interruptible Lg General Sales (304)	0.01557		16,843		262.25
11	Interruptible Lg General Transportation (314)	0.01557		8,724,223		135,836.15
12	**Total**					**$ 5,841,113.21**

Journal Entry: To Record Collections

47136 0480000 GA489 PTOP 0526 RESVAL	3,755,624.88
47136 0481200 GA489 PTOP 0526 COMSTD	1,356,731.14
47136 0481200 GA489 PTOP 0526 COMSTD	405,017.98
47136 0481000 GA489 PTOP 0526 INDSLS	54,518.67
47136 0489000 GA489 PTOP 0526 BOTHRV	132,967.51
47136 0483011 GA489 PTOP 0526 GASRSL	154.63
47136 0481000 GA489 PTOP 0526 INDSLS	262.25
47136 0489000 GA489 PTOP 0526 BOTHRV	135,836.15
47136 0253139 GA489 PTOP	(5,841,113.21)
	-

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

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

Line No.		Current Vintage Year: Vintage Year 7			All Vintage Years
		March 2019 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of March 2019 [3]	Cumulative Capital Expenditure as of March 2019 [6]
	TN Direct				
1	Corrosion Control	$ 871.43	$ 413,220.05	$ 414,091.48	$ 7,757,610.46
2	Casing Remediation	$ -	$ (4,789.54)	$ (4,789.54)	$ 877,274.85
3	Distribution Integrity	$ 760,841.97	$ 4,609,501.60	$ 5,370,343.57	$ 74,482,688.33
4	Transmission Integrity	$ 2,693,529.00	$ 5,894,173.02	$ 8,587,702.02	$ 199,222,402.62
5	Total	$ 3,455,242.40	$ 10,912,105.13	$ 14,367,347.53	$ 282,339,976.26
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ -	$ -	$ -	$ 133,880,060.70
7	TN % of CO-3 for Current Month [4]	15.80%			
8	Total Allocated to TN	$ -	$ -	$ -	$ 23,535,435.31
9	Total Capital Expenditures [Line 5 + Line 8]	$ 3,455,242.40	$ 10,912,105.13	$ 14,367,347.53	$ 305,875,411.57
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 3,455,242.40**	**$ 10,912,105.13**	**$ 14,367,347.53**	**$ 272,975,411.57**

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 and 6, which captures amounts through 10/31/18, is $258,608,064.04 ($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 5 and $27,564,238.09 for Vintage Year 6).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	March 2019
1	CORR-Corrosion Control	F0216211	17	Paint Main Shelby Pedestrian bridge	871.43
2	DIMP-Distribution Integrity	F0216582	17	Rural Hill Isolation Valve Removal	1.75
3	DIMP-Distribution Integrity	F0221329	17	10th Ave N Valve Replacement	0.75
4	DIMP-Distribution Integrity	F0221351	17	314 E South St Main Relocate	45.00
5	DIMP-Distribution Integrity	F0221354	17	Davidson Drive @ Charlotte Pike Valve	25.47
6	DIMP-Distribution Integrity	F0222120	17	31st Ave @ West end Valve Replacement	0.13
7	DIMP-Distribution Integrity	F0222666	17	331006 - Stratford Avenue	102,220.40
8	DIMP-Distribution Integrity	F0222727	17	Brick Church Pike to West Trinity	195,074.88
9	DIMP-Distribution Integrity	F0223608	17	Old Hickory Blvd Replacement	193.02
10	DIMP-Distribution Integrity	F0225698	17	Centennial Blvd Main Replacement	1,275.19
11	DIMP-Distribution Integrity	F0225705	17	Old Harding Pike Insulator	350.58
12	DIMP-Distribution Integrity	F0225786	17	Woodcrest Leak Repair	0.37
13	DIMP-Distribution Integrity	F0227045	17	Highway 76 Valve Replacement	405.05
14	DIMP-Distribution Integrity	F0228432	17	21st and Jefferson	33,415.41
15	DIMP-Distribution Integrity	FP1733763	17	Harding Place	110,199.17
16	DIMP-Distribution Integrity	FP1734432	17	Visco Dt	17,182.85
17	DIMP-Distribution Integrity	FP1734688	17	Abbott Martin @ Walnut Dr.	34,363.54
18	DIMP-Distribution Integrity	FP1734694	17	Forrest St.	266,072.95
19	DIMP-Distribution Integrity	FP1734726	17	Cowan St HP Distribution Pipeline	0.05
20	DIMP-Distribution Integrity	FP1734726	17	Cowan St HP Distribution Pipeline	15.41
21	TIMP-Transmission Integrity	FP1734120	17	Line 431 Replacement	2,207,771.00
22	TIMP-Transmission Integrity	FP1734394	17	Line 431 Ph II Land	449,624.00
23	TIMP-Transmission Integrity	FP1733398	17	South Nashville 20"	36,134.00

24	**Total (unallocated)**	**$ 3,455,242.40**
	subtotal: TN Direct (unallocated)	*$ 3,455,242.40*
	subtotal: CO-3 (unallocated)	*$ -*
		$ 3,455,242.40

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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

Line No.			**Mar-19**
1	Beginning Balance	*Prior Month's IMR Report*	$ (4,988,824.23)
2	IMR Revenue Recognition	*Prior Annual IMR Report*	2,894,145.82
3	(Collections from IM Adjustment)	*see Separate Schedule*	(4,673,440.27)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	(6,768,118.68)
5	Average Balance	*(Line 1 + Line 4) /2*	(5,878,471.46)
6	Accrued Interest	*Line 5 * Line 9*	(25,377.36)
7	Ending Balance After Interest	*Line 4 + Line 6*	$ (6,793,496.04)
8	Applicable Annual Interest Rate	*same as for ACA*	0.051800
9	Monthly Interest Rate	*Line 8 / 12*	0.004317
10	Actual GL #0253139 EOM Balance	*per GL*	$ (6,793,496.04)
11	Variance	*Line 7 - Line 10*	$ -

Journal Entry: To Record Revenue	
47136 0253139 GA489 PTOP	2,894,145.82
47136 0480000 GA489 PTOP 0526 RESVAL	(1,726,184.34)
47136 0481200 GA489 PTOP 0526 COMSTD	(902,973.49)
47136 0481000 GA489 PTOP 0526 INDSLS	(39,042.03)
47136 0483011 GA489 PTOP 0526 GASRSL	(810.36)
47136 0489000 GA489 PTOP 0526 BOTHRV	(225,135.60)

Journal Entry: To Record Interest	
47136 0253139 GA626 PTOP	(25,377.36)
47136 0431150 GA626 PTOP 0526	25,377.36

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		March 2019				
Line No.		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
1	Residential (301)	0.16057		18,029,455		2,894,989.59
2	Small General Sales (302)	0.14027		7,854,945		1,101,813.14
3	Medium General Sales (352)	0.14027		2,353,642		330,145.36
4	Experimental Motor Vehicle Fuel (343/352)	0.14027		277		38.85
5	Firm Lg General Sales (303)	0.06230		882,280		54,966.04
6	Experimental Motor Vehicle Fuel (343/303)	0.06230		31,421		1,957.53
7	Firm Lg General Transportation (313)	0.06230		2,147,258		133,774.17
8	Experimental Motor Vehicle Fuel (343/313)	0.06230		138,055		8,600.83
9	Firm Resale (310)	0.06230		2,641		164.53
10	Interruptible Lg General Sales (304)	0.01557		17,383		270.65
11	Interruptible Lg General Transportation (314)	0.01557		9,423,223		146,719.58
12	**Total**					**$ 4,673,440.27**

Journal Entry: To Record Collections

47136 0480000 GA489 PTOP 0526 RESVAL	2,894,989.59
47136 0481200 GA489 PTOP 0526 COMSTD	1,101,813.14
47136 0481200 GA489 PTOP 0526 COMSTD	330,184.21
47136 0481000 GA489 PTOP 0526 INDSLS	56,923.57
47136 0489000 GA489 PTOP 0526 BOTHRV	142,375.00
47136 0483011 GA489 PTOP 0526 GASRSL	164.53
47136 0481000 GA489 PTOP 0526 INDSLS	270.65
47136 0489000 GA489 PTOP 0526 BOTHRV	146,719.58
47136 0253139 GA489 PTOP	(4,673,440.27)
	-

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

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

Line No.		Current Vintage Year: Vintage Year 7			All Vintage Years
		April 2019 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of April 2019 [3]	Cumulative Capital Expenditure as of April 2019 [6]
	TN Direct				
1	Corrosion Control	$ 24,710.94	$ 414,091.48	$ 438,802.42	$ 7,782,321.40
2	Casing Remediation	$ -	$ (4,789.54)	$ (4,789.54)	$ 877,274.85
3	Distribution Integrity	$ 1,263,034.50	$ 5,370,343.57	$ 6,633,378.07	$ 75,745,722.83
4	Transmission Integrity	$ 2,550,577.58	$ 8,587,702.02	$ 11,138,279.60	$ 201,772,980.20
5	Total	$ 3,838,323.02	$ 14,367,347.53	$ 18,205,670.55	$ 286,178,299.28
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ -	$ -	$ -	$ 133,880,060.70
7	TN % of CO-3 for Current Month [4]	15.80%			
8	Total Allocated to TN	$ -	$ -	$ -	$ 23,535,435.31
9	Total Capital Expenditures [Line 5 + Line 8]	$ 3,838,323.02	$ 14,367,347.53	$ 18,205,670.55	$ 309,713,734.59
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 3,838,323.02**	**$ 14,367,347.53**	**$ 18,205,670.55**	**$ 276,813,734.59**

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 and 6, which captures amounts through 10/31/18, is $258,608,064.04 ($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 5 and $27,564,238.09 for Vintage Year 6).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	April 2019
1	CORR-Corrosion Control	F0214467	17	Nashville Bridge New Coating	6,288.77
2	CORR-Corrosion Control	F0216211	17	Paint Main Shelby Pedestrian bridge	877.13
3	CORR-Corrosion Control	FP1734718	17	Nashville Galvanic Anode	9,076.12
4	CORR-Corrosion Control	FP1734720	17	Nashville HP Dist Remediation	8,468.92
5	DIMP-Distribution Integrity	F0221354	17	Davidson Drive @ Charlotte Pike Valve	25.78
6	DIMP-Distribution Integrity	F0222666	17	331006 - Stratford Avenue	20,850.24
7	DIMP-Distribution Integrity	F0222727	17	Brick Church Pike to West Trinity	249,424.86
8	DIMP-Distribution Integrity	F0225698	17	Centennial Blvd Main Replacement	23,134.47
9	DIMP-Distribution Integrity	F0225705	17	Old Harding Pike Insulator	19,505.82
10	DIMP-Distribution Integrity	F0227045	17	Highway 76 Valve Replacement	14,473.77
11	DIMP-Distribution Integrity	F0228432	17	21st and Jefferson	7,206.07
12	DIMP-Distribution Integrity	FP1733763	17	Harding Place	179,743.71
13	DIMP-Distribution Integrity	FP1734432	17	Visco Dt	177,675.79
14	DIMP-Distribution Integrity	FP1734688	17	Abbott Martin @ Walnut Dr.	11,970.34
15	DIMP-Distribution Integrity	FP1734694	17	Forrest St.	555,449.14
16	DIMP-Distribution Integrity	FP1734726	17	Cowan St HP Distribution Pipeline	3,574.51
17	TIMP-Transmission Integrity	FP1734120	17	Line 431 Replacement	2,222,618.04
18	TIMP-Transmission Integrity	FP1734394	17	Line 431 Ph II Land	327,959.54

Total (unallocated)	**$ 3,838,323.02**
subtotal: TN Direct (unallocated)	*$ 3,838,323.02*
subtotal: CO-3 (unallocated)	*$ -*
	$ 3,838,323.02

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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

Line No.			Apr-19
1	Beginning Balance	*Prior Month's IMR Report*	$ (6,793,496.04)
2	IMR Revenue Recognition	*Prior Annual IMR Report*	1,870,245.82
3	(Collections from IM Adjustment)	*see Separate Schedule*	(2,898,444.09)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	(7,821,694.31)
5	Average Balance	*(Line 1 + Line 4) /2*	(7,307,595.18)
6	Accrued Interest	*Line 5 * Line 9*	(33,191.10)
7	Ending Balance After Interest	*Line 4 + Line 6*	$ (7,854,885.41)
8	Applicable Annual Interest Rate	*same as for ACA*	0.054500
9	Monthly Interest Rate	*Line 8 / 12*	0.004542
10	Actual GL #0253139 EOM Balance	*per GL*	$ (7,854,885.41)
11	Variance	*Line 7 - Line 10*	$ -

Journal Entry: To Record Revenue	
47136 0253139 GA489 PTOP	1,870,245.82
47136 0480000 GA489 PTOP 0526 RESVAL	(1,115,489.42)
47136 0481200 GA489 PTOP 0526 COMSTD	(583,516.70)
47136 0481000 GA489 PTOP 0526 INDSLS	(25,229.61)
47136 0483011 GA489 PTOP 0526 GASRSL	(523.67)
47136 0489000 GA489 PTOP 0526 BOTHRV	(145,486.42)

Journal Entry: To Record Interest	
47136 0253139 GA626 PTOP	(33,191.10)
47136 0431150 GA626 PTOP 0526	33,191.10

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support
Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		April 2019				
Line No.		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
1	Residential (301)	0.16057		10,706,784		1,719,188.31
2	Small General Sales (302)	0.14027		5,097,326		715,001.92
3	Medium General Sales (352)	0.14027		1,519,409		213,127.50
4	Experimental Motor Vehicle Fuel (343/352)	0.14027		736		103.24
5	Firm Lg General Sales (303)	0.06230		497,991		31,024.84
6	Experimental Motor Vehicle Fuel (343/303)	0.06230		30,983		1,930.24
7	Firm Lg General Transportation (313)	0.06230		1,519,316		94,653.39
8	Experimental Motor Vehicle Fuel (343/313)	0.06230		147,280		9,175.54
9	Firm Resale (310)	0.06230		977		60.87
10	Interruptible Lg General Sales (304)	0.01557		13,788		214.68
11	Interruptible Lg General Transportation (314)	0.01557		7,319,432		113,963.56
12	**Total**					**$ 2,898,444.09**

Journal Entry: To Record Collections

47136 0480000 GA489 PTOP 0526 RESVAL	1,719,188.31
47136 0481200 GA489 PTOP 0526 COMSTD	715,001.92
47136 0481200 GA489 PTOP 0526 COMSTD	213,230.74
47136 0481000 GA489 PTOP 0526 INDSLS	32,955.08
47136 0489000 GA489 PTOP 0526 BOTHRV	103,828.93
47136 0483011 GA489 PTOP 0526 GASRSL	60.87
47136 0481000 GA489 PTOP 0526 INDSLS	214.68
47136 0489000 GA489 PTOP 0526 BOTHRV	113,963.56
47136 0253139 GA489 PTOP	(2,898,444.09)
	-

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

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

Line No.		Current Vintage Year: Vintage Year 7			All Vintage Years
		May 2019 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of May 2019 [3]	Cumulative Capital Expenditure as of May 2019 [6]
	TN Direct				
1	Corrosion Control	$ 4,367.91	$ 438,802.42	$ 443,170.33	$ 7,786,689.31
2	Casing Remediation	$ -	$ (4,789.54)	$ (4,789.54)	$ 877,274.85
3	Distribution Integrity	$ 1,189,036.25	$ 6,633,378.07	$ 7,822,414.32	$ 76,934,759.08
4	Transmission Integrity	$ (781,754.87)	$ 11,138,279.60	$ 10,356,524.73	$ 200,991,225.33
5	Total	$ 411,649.29	$ 18,205,670.55	$ 18,617,319.84	$ 286,589,948.57
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ -	$ -	$ -	$ 133,880,060.70
7	TN % of CO-3 for Current Month [4]	15.80%			
8	Total Allocated to TN	$ -	$ -	$ -	$ 23,535,435.31
9	Total Capital Expenditures [Line 5 + Line 8]	$ 411,649.29	$ 18,205,670.55	$ 18,617,319.84	$ 310,125,383.88
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 411,649.29**	**$ 18,205,670.55**	**$ 18,617,319.84**	**$ 277,225,383.88**

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 and 6, which captures amounts through 10/31/18, is $258,608,064.04 ($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 5 and $27,564,238.09 for Vintage Year 6).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	May 2019
1	CORR-Corrosion Control	FP1734718	17	Nashville Galvonic Anode	3,485.04
2	CORR-Corrosion Control	F0216211	17	Paint Main Shelby Pedestrian bridge	882.87
3	DIMP-Distribution Integrity	F0221354	17	Davidson Drive @ Charlotte Pike Valve	26.10
4	DIMP-Distribution Integrity	F0222666	17	331006 - Stratford Avenue	88,832.45
5	DIMP-Distribution Integrity	F0222727	17	Brick Church Pike to West Trinity	267,917.33
6	DIMP-Distribution Integrity	F0223608	17	Old Hickory Blvd Replacement	9,680.70
7	DIMP-Distribution Integrity	F0224311	17	Hermitage Pressure Downgrade	529.36
8	DIMP-Distribution Integrity	F0224363	17	Maxon Ave Main Replacement	47,169.84
9	DIMP-Distribution Integrity	F0225698	17	Centennial Blvd Main Replacement	15,389.27
10	DIMP-Distribution Integrity	F0225705	17	Old Harding Pike Insulator	(4,617.72)
11	DIMP-Distribution Integrity	F0227045	17	Highway 76 Valve Replacement	(96.00)
12	DIMP-Distribution Integrity	F0228432	17	21st and Jefferson	419.99
13	DIMP-Distribution Integrity	F0228466	17	Dr. Walter S Davis Valve Removal	12,232.98
14	DIMP-Distribution Integrity	F0229053	17	Culvert Street Creek Bore	5,895.84
15	DIMP-Distribution Integrity	FP1733763	17	Harding Place	393,536.53
16	DIMP-Distribution Integrity	FP1734427	17	Grinstead Place	5,396.44
17	DIMP-Distribution Integrity	FP1734432	17	Visco Dt	115,237.95
18	DIMP-Distribution Integrity	FP1734688	17	Abbott Martin @ Walnut Dr.	25,692.19
19	DIMP-Distribution Integrity	FP1734694	17	Forrest St.	201,934.12
20	DIMP-Distribution Integrity	FP1734726	17	Cowan St HP Distribution Pipeline	3,858.88
21	TIMP-Transmission Integrity	FP1734120	17	Line 431 Replacement	(861,593.75)
22	TIMP-Transmission Integrity	FP1734394	17	Line 431 Ph II Land	79,838.88

Total (unallocated)	**$ 411,649.29**
subtotal: TN Direct (unallocated)	*$ 411,649.29*
subtotal: CO-3 (unallocated)	*$ -*
	$ 411,649.29

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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

Line No.			Jan-19	Feb-19	Mar-19	Apr-19	May-19
1	Beginning Balance	*Prior Month's IMR Report*	$ (1,476,834.13)	$ (2,533,874.91)	$ (4,148,478.90)	$ (5,640,811.30)	$ (6,497,448.12)
2	IMR Revenue Recognition	*Prior Annual IMR Report*	4,456,561.59	4,240,902.01	3,202,192.54	2,069,310.80	1,310,134.87
3	(Collections from IM Adjustment)	*see Separate Schedule*	(5,504,963.90)	(5,841,113.21)	(4,673,440.27)	(2,898,444.09)	(1,395,524.46)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	(2,525,236.44)	(4,134,086.11)	(5,619,726.63)	(6,469,944.59)	(6,582,837.71)
5	Average Balance	*(Line 1 + Line 4) /2*	(2,001,035.29)	(3,333,980.51)	(4,884,102.77)	(6,055,377.95)	(6,540,142.92)
6	Accrued Interest	*Line 5 * Line 9*	(8,638.47)	(14,392.79)	(21,084.67)	(27,503.53)	(29,705.33)
7	Ending Balance After Interest	*Line 4 + Line 6*	$ (2,533,874.91)	$ (4,148,478.90)	$ (5,640,811.30)	$ (6,497,448.12)	$ (6,612,543.04)
8	Applicable Annual Interest Rate	*same as for ACA*	0.051800	0.051800	0.051800	0.054500	0.054500
9	Monthly Interest Rate	*Line 8 / 12*	0.004317	0.004317	0.004317	0.004542	0.004542
10	Actual GL #0253139 EOM Balance	*per GL*	$ (2,963,515.67)	$ (4,988,824.23)	$ (6,793,496.04)	$ (7,854,885.41)	$ (6,612,543.04)
11	Variance	*Line 7 - Line 10*	$ 429,640.76	$ 840,345.33	$ 1,152,684.74	$ 1,357,437.29	$ -

Journal Entry: To Record Revenue					
47136 0253139 GA489 PTOP	4,456,561.59	3,832,932.80	2,894,145.82	1,870,245.82	1,310,134.87
47136 0480000 GA489 PTOP 0526 RESVAL	(2,402,368.59)	(2,286,114.44)	(1,726,184.34)	(1,115,489.42)	(781,416.85)
47136 0481200 GA489 PTOP 0526 COMSTD	(1,256,688.01)	(1,195,875.04)	(902,973.49)	(583,516.70)	(408,762.07)
47136 0481000 GA489 PTOP 0526 INDSLS	(54,335.65)	(51,706.26)	(39,042.03)	(25,229.61)	(17,673.72)
47136 0483011 GA489 PTOP 0526 GASRSL	(1,127.80)	(1,073.22)	(810.36)	(523.67)	(366.84)
47136 0489000 GA489 PTOP 0526 BOTHRV	(313,326.16)	(298,163.84)	(225,135.60)	(145,486.42)	(101,915.39)

Journal Entry: To Record Interest					
47136 0253139 GA626 PTOP	(8,638.47)	(14,392.79)	(21,084.67)	(27,503.53)	(29,705.33)
47136 0431150 GA626 PTOP 0526	8,638.47	14,392.79	21,084.67	27,503.53	29,705.33

1/ Pursuant to the TPUC's May 20, 2019 ruling in Docket No. 18-00126, this schedule reflects the approved monthly amortization of the annual Integrity Management Revenue Requirement from Piedmont's 2018 Annual Integrity Management Rider Report, which was filed by the Company on November 30, 2018.

2/ Pursuant to the TPUC's ruling, Piedmont recorded the approved IM Revenue Requirement to its general ledger for January 2019 thru April 2019. It was recorded as a true-up adjustment in May 2019.

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

Line No.		May 2019				
		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
1	Residential (301)	0.16057		4,180,337		671,236.71
2	Small General Sales (302)	0.14027		2,719,260		381,430.60
3	Medium General Sales (352)	0.14027		842,963		118,242.42
4	Experimental Motor Vehicle Fuel (343/352)	0.14027		3,172		444.94
5	Firm Lg General Sales (303)	0.06230		386,654		24,088.54
6	Experimental Motor Vehicle Fuel (343/303)	0.06230		33,612		2,094.03
7	Firm Lg General Transportation (313)	0.06230		1,301,710		81,096.53
8	Experimental Motor Vehicle Fuel (343/313)	0.06230		148,148		9,229.62
9	Firm Resale (310)	0.06230		553		34.45
10	Interruptible Lg General Sales (304)	0.01557		9,094		141.59
11	Interruptible Lg General Transportation (314)	0.01557		6,903,342		107,485.03
12	**Total**					**$ 1,395,524.46**

Journal Entry: To Record Collections	
47136 0480000 GA489 PTOP 0526 RESVAL	671,236.71
47136 0481200 GA489 PTOP 0526 COMSTD	381,430.60
47136 0481200 GA489 PTOP 0526 COMSTD	118,687.36
47136 0481000 GA489 PTOP 0526 INDSLS	26,182.57
47136 0489000 GA489 PTOP 0526 BOTHRV	90,326.15
47136 0483011 GA489 PTOP 0526 GASRSL	34.45
47136 0481000 GA489 PTOP 0526 INDSLS	141.59
47136 0489000 GA489 PTOP 0526 BOTHRV	107,485.03
47136 0253139 GA489 PTOP	(1,395,524.46)
	-

Schedule 1

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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

Line No.		Current Vintage Year: Vintage Year 7			All Vintage Years
		June 2019 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of June 2019 [3]	Cumulative Capital Expenditure as of June 2019 [6]
	TN Direct				
1	Corrosion Control	$ 6,945.10	$ 443,170.33	$ 450,115.43	$ 7,793,634.41
2	Casing Remediation	$ -	$ (4,789.54)	$ (4,789.54)	$ 877,274.85
3	Distribution Integrity	$ 1,351,989.70	$ 7,822,414.32	$ 9,174,404.02	$ 78,286,748.78
4	Transmission Integrity	$ 1,350,966.37	$ 10,356,524.73	$ 11,707,491.10	$ 202,342,191.70
5	Total	$ 2,709,901.17	$ 18,617,319.84	$ 21,327,221.01	$ 289,299,849.74
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ -	$ -	$ -	$ 133,880,060.70
7	TN % of CO-3 for Current Month [4]	15.80%			
8	Total Allocated to TN	$ -	$ -	$ -	$ 23,535,435.31
9	Total Capital Expenditures [Line 5 + Line 8]	$ 2,709,901.17	$ 18,617,319.84	$ 21,327,221.01	$ 312,835,285.05
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 2,709,901.17**	**$ 18,617,319.84**	**$ 21,327,221.01**	**$ 279,935,285.05**

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 and 6, which captures amounts through 10/31/18, is $258,608,064.04 ($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 5 and $27,564,238.09 for Vintage Year 6).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	June 2019
1	CORR-Corrosion Control	F0228699	17	Nashville Anode Bed	6,056.45
2	CORR-Corrosion Control	F0216211	17	Paint Main Shelby Pedestrian bridge	888.65
3	DIMP-Distribution Integrity	F0216582	17	Rural Hill Isolation Valve Removal	47,066.22
4	DIMP-Distribution Integrity	F0221354	17	Davidson Drive @ Charlotte Pike Valve	26.42
5	DIMP-Distribution Integrity	F0222666	17	331006 - Stratford Avenue	578.47
6	DIMP-Distribution Integrity	F0222727	17	Brick Church Pike to West Trinity	36,797.00
7	DIMP-Distribution Integrity	F0224311	17	Hermitage Pressure Downgrade	85,919.58
8	DIMP-Distribution Integrity	F0224339	17	Greenbrier Main Replacement	92,172.96
9	DIMP-Distribution Integrity	F0224345	17	4934 Whites Creek Pk	7,451.33
10	DIMP-Distribution Integrity	F0224363	17	Maxon Ave Main Replacement	332,599.41
11	DIMP-Distribution Integrity	F0225698	17	Centennial Blvd Main Replacement	16,072.39
12	DIMP-Distribution Integrity	F0225705	17	Old Harding Pike Insulator	7,689.98
13	DIMP-Distribution Integrity	F0226414	17	Line 304 Convert to Dist (Station)	5,774.12
14	DIMP-Distribution Integrity	F0228432	17	21st and Jefferson	2,339.56
15	DIMP-Distribution Integrity	F0228466	17	Dr. Walter S Davis Valve Removal	80.03
16	DIMP-Distribution Integrity	F0229053	17	Culvert Street Creek Bore	3,915.61
17	DIMP-Distribution Integrity	FP1733763	17	Harding Place	301,028.14
18	DIMP-Distribution Integrity	FP1734427	17	Grinstead Place	141,880.86
19	DIMP-Distribution Integrity	FP1734432	17	Visco Dt	11,287.20
20	DIMP-Distribution Integrity	FP1734694	17	Forrest St.	255,420.69
21	DIMP-Distribution Integrity	FP1734726	17	Cowan St HP Distribution Pipeline	3,889.73
22	TIMP-Transmission Integrity	FP1734120	17	Line 431 Replacement	416,624.54
23	TIMP-Transmission Integrity	FP1734119	17	Line 307 Replacement	29,432.30
24	TIMP-Transmission Integrity	FP1734394	17	Line 431 Ph II Land	655,724.98
25	TIMP-Transmission Integrity	F0228443	17	Line 320 ILI Retrofit	247,716.97
26	TIMP-Transmission Integrity	FP1734142	17	Line 308 Replacement	1,467.58

Total (unallocated)	**$ 2,709,901.17**
subtotal: TN Direct (unallocated)	*$ 2,709,901.17*
subtotal: CO-3 (unallocated)	*$ -*
	$ 2,709,901.17

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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

Line No.			Jun-19
1	Beginning Balance	*Prior Month's IMR Report*	$ (6,612,543.04)
2	IMR Revenue Recognition	*Prior Annual IMR Report*	927,722.41
3	(Collections from IM Adjustment)	*see Separate Schedule*	(917,464.94)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	(6,602,285.57)
5	Average Balance	*(Line 1 + Line 4) /2*	(6,607,414.31)
6	Accrued Interest	*Line 5 * Line 9*	(30,010.88)
7	Ending Balance After Interest	*Line 4 + Line 6*	$ (6,632,296.45)
8	Applicable Annual Interest Rate	*same as for ACA*	0.054500
9	Monthly Interest Rate	*Line 8 / 12*	0.004542
10	Actual GL #0253139 EOM Balance	*per GL*	$ (6,632,296.45)
11	Variance	*Line 7 - Line 10*	$ -

Journal Entry: To Record Revenue	
47136 0253139 GA489 PTOP	927,722.41
47136 0480000 GA489 PTOP 0526 RESVAL	(553,330.76)
47136 0481200 GA489 PTOP 0526 COMSTD	(289,449.40)
47136 0481000 GA489 PTOP 0526 INDSLS	(12,514.97)
47136 0483011 GA489 PTOP 0526 GASRSL	(259.76)
47136 0489000 GA489 PTOP 0526 BOTHRV	(72,167.52)

Journal Entry: To Record Interest	
47136 0253139 GA626 PTOP	(30,010.88)
47136 0431150 GA626 PTOP 0526	30,010.88

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		June 2019				
		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
Line No.						
1	Residential (301)	0.14605		2,502,052		365,424.69
2	Small General Sales (302)	0.12759		2,129,356		271,684.53
3	Medium General Sales (352)	0.12759		720,606		91,942.12
4	Experimental Motor Vehicle Fuel (343/352)	0.12759		4,213		537.54
5	Firm Lg General Sales (303)	0.05667		339,531		19,241.22
6	Experimental Motor Vehicle Fuel (343/303)	0.05667		33,996		1,926.55
7	Firm Lg General Transportation (313)	0.05667		1,177,264		66,715.55
8	Experimental Motor Vehicle Fuel (343/313)	0.05667		139,634		7,913.06
9	Firm Resale (310)	0.05667		500		28.34
10	Interruptible Lg General Sales (304)	0.01417		12,359		175.13
11	Interruptible Lg General Transportation (314)	0.01417		6,483,854		91,876.21
12	**Total**					**$ 917,464.94**

Journal Entry: To Record Collections

47136 0480000 GA489 PTOP 0526 RESVAL	365,424.69
47136 0481200 GA489 PTOP 0526 COMSTD	271,684.53
47136 0481200 GA489 PTOP 0526 COMSTD	92,479.66
47136 0481000 GA489 PTOP 0526 INDSLS	21,167.77
47136 0489000 GA489 PTOP 0526 BOTHRV	74,628.61
47136 0483011 GA489 PTOP 0526 GASRSL	28.34
47136 0481000 GA489 PTOP 0526 INDSLS	175.13
47136 0489000 GA489 PTOP 0526 BOTHRV	91,876.21
47136 0253139 GA489 PTOP	(917,464.94)
	-

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

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

Line No.		Current Vintage Year: Vintage Year 7			All Vintage Years
		July 2019 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of July 2019 [3]	Cumulative Capital Expenditure as of July 2019 [6]
	TN Direct				
1	Corrosion Control	$ 20,266.99	$ 450,115.43	$ 470,382.42	$ 7,813,901.40
2	Casing Remediation	$ -	$ (4,789.54)	$ (4,789.54)	$ 877,274.85
3	Distribution Integrity	$ 2,796,608.50	$ 9,174,404.02	$ 11,971,012.52	$ 81,083,357.28
4	Transmission Integrity	$ 1,397,341.12	$ 11,707,491.10	$ 13,104,832.22	$ 203,739,532.82
5	Total	$ 4,214,216.61	$ 21,327,221.01	$ 25,541,437.62	$ 293,514,066.35
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ -	$ -	$ -	$ 133,880,060.70
7	TN % of CO-3 for Current Month [4]	15.80%			
8	Total Allocated to TN	$ -	$ -	$ -	$ 23,535,435.31
9	Total Capital Expenditures [Line 5 + Line 8]	$ 4,214,216.61	$ 21,327,221.01	$ 25,541,437.62	$ 317,049,501.66
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 4,214,216.61**	**$ 21,327,221.01**	**$ 25,541,437.62**	**$ 284,149,501.66**

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 and 6, which captures amounts through 10/31/18, is $258,608,064.04 ($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 5 and $27,564,238.09 for Vintage Year 6).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	July 2019
1	CORR-Corrosion Control	F0228699	17	Nashville Anode Bed	20,266.99
2	DIMP-Distribution Integrity	F0216582	17	Rural Hill Isolation Valve Removal	52,451.22
3	DIMP-Distribution Integrity	F0222727	17	Brick Church Pike to West Trinity	98,829.44
4	DIMP-Distribution Integrity	F0224311	17	Hermitage Pressure Downgrade	652,619.27
5	DIMP-Distribution Integrity	F0224339	17	Greenbrier Main Replacement	44,876.01
6	DIMP-Distribution Integrity	F0224345	17	4934 Whites Creek Pk	49,878.37
7	DIMP-Distribution Integrity	F0224363	17	Maxon Ave Main Replacement	241,366.27
8	DIMP-Distribution Integrity	F0225698	17	Centennial Blvd Main Replacement	8,060.34
9	DIMP-Distribution Integrity	F0225705	17	Old Harding Pike Insulator	(2,627.27)
10	DIMP-Distribution Integrity	F0226414	17	Line 304 Convert to Dist (Station)	60.68
11	DIMP-Distribution Integrity	F0227045	17	Highway 76 Valve Replacement	4,782.34
12	DIMP-Distribution Integrity	F0228466	17	Dr. Walter S Davis Valve Removal	91,319.23
13	DIMP-Distribution Integrity	F0229053	17	Culvert Street Creek Bore	78,473.27
14	DIMP-Distribution Integrity	FP1733763	17	Harding Place	224,695.74
15	DIMP-Distribution Integrity	FP1734401	17	Tallwood Dr. Across Briley Pkwy	623.66
16	DIMP-Distribution Integrity	FP1734427	17	Grinstead Place	116,382.08
17	DIMP-Distribution Integrity	FP1734428	17	Broadmoor Drive	16,411.04
18	DIMP-Distribution Integrity	FP1734432	17	Visco Dt	907,734.91
19	DIMP-Distribution Integrity	FP1734694	17	Forrest St.	207,599.16
20	DIMP-Distribution Integrity	FP1734726	17	Cowan St HP Distribution Pipeline	3,072.74
21	TIMP-Transmission Integrity	FP1734120	17	Line 431 Replacement	873,826.49
22	TIMP-Transmission Integrity	FP1734394	17	Line 431 Ph II Land	489,829.81
23	TIMP-Transmission Integrity	F0228443	17	Line ILI Retrofit	24,860.71
24	TIMP-Transmission Integrity	FP1734142	17	Line 308 Replacement	1,525.05
25	TIMP-Transmission Integrity	F0226414	17	Line 304 Convert to Dist (Station)	945.30
26	TIMP-Transmission Integrity	F0229405	17	Line 203 Anomalies ILI Excavations	6,353.76

Total (unallocated)	**$ 4,214,216.61**
subtotal: TN Direct (unallocated)	*$ 4,214,216.61*
subtotal: CO-3 (unallocated)	*$ -*
	$ 4,214,216.61

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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

Line No.			Jul-19
1	Beginning Balance	*Prior Month's IMR Report*	$ (6,632,296.45)
2	IMR Revenue Recognition	*Prior Annual IMR Report*	863,795.36
3	(Collections from IM Adjustment)	*see Separate Schedule*	(823,291.45)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	(6,591,792.54)
5	Average Balance	*(Line 1 + Line 4) /2*	(6,612,044.50)
6	Accrued Interest	*Line 5 * Line 9*	(30,303.00)
7	Ending Balance After Interest	*Line 4 + Line 6*	$ (6,622,095.54)
8	Applicable Annual Interest Rate	*same as for ACA*	0.055000
9	Monthly Interest Rate	*Line 8 / 12*	0.004583
10	Actual GL #0253139 EOM Balance	*per GL*	$ (6,622,095.54)
11	Variance	*Line 7 - Line 10*	$ -

Journal Entry: To Record Revenue	
47136 0253139 GA489 PTOP	863,795.36
47136 0480000 GA489 PTOP 0526 RESVAL	(515,202.10)
47136 0481200 GA489 PTOP 0526 COMSTD	(269,504.16)
47136 0481000 GA489 PTOP 0526 INDSLS	(11,652.60)
47136 0483011 GA489 PTOP 0526 GASRSL	(241.86)
47136 0489000 GA489 PTOP 0526 BOTHRV	(67,194.64)

Journal Entry: To Record Interest	
47136 0253139 GA626 PTOP	(30,303.00)
47136 0431150 GA626 PTOP 0526	30,303.00

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		July 2019				
		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
Line No.						
1	Residential (301)	0.14605		2,012,046		293,859.32
2	Small General Sales (302)	0.12759		1,982,692		252,971.67
3	Medium General Sales (352)	0.12759		684,020		87,274.11
4	Experimental Motor Vehicle Fuel (343/352)	0.12759		4,804		612.94
5	Firm Lg General Sales (303)	0.05667		337,253		19,112.13
6	Experimental Motor Vehicle Fuel (343/303)	0.05667		38,219		2,165.87
7	Firm Lg General Transportation (313)	0.05667		1,114,796		63,175.49
8	Experimental Motor Vehicle Fuel (343/313)	0.05667		151,495		8,585.22
9	Firm Resale (310)	0.05667		675		38.25
10	Interruptible Lg General Sales (304)	0.01417		9,547		135.28
11	Interruptible Lg General Transportation (314)	0.01417		6,729,793		95,361.17
12	**Total**					**$ 823,291.45**

Journal Entry: To Record Collections

47136 0480000 GA489 PTOP 0526 RESVAL	293,859.32
47136 0481200 GA489 PTOP 0526 COMSTD	252,971.67
47136 0481200 GA489 PTOP 0526 COMSTD	87,887.05
47136 0481000 GA489 PTOP 0526 INDSLS	21,278.00
47136 0489000 GA489 PTOP 0526 BOTHRV	71,760.71
47136 0483011 GA489 PTOP 0526 GASRSL	38.25
47136 0481000 GA489 PTOP 0526 INDSLS	135.28
47136 0489000 GA489 PTOP 0526 BOTHRV	95,361.17
47136 0253139 GA489 PTOP	(823,291.45)
	-

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

Cumulative Integrity Management Investment Amount

Actual Integrity Management Investment, by Integrity Project Type

Line No.		Current Vintage Year: Vintage Year 7			All Vintage Years
		August 2019 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of August 2019 [3]	Cumulative Capital Expenditure as of August 2019 [6]
	TN Direct				
1	Corrosion Control	$ 46,604.42	$ 470,382.42	$ 516,986.84	$ 7,860,505.82
2	Casing Remediation	$ -	$ (4,789.54)	$ (4,789.54)	$ 877,274.85
3	Distribution Integrity	$ 2,109,609.06	$ 11,971,012.52	$ 14,080,621.58	$ 83,192,966.34
4	Transmission Integrity	$ 2,400,931.29	$ 13,104,832.22	$ 15,505,763.51	$ 206,140,464.11
5	Total	$ 4,557,144.77	$ 25,541,437.62	$ 30,098,582.39	$ 298,071,211.12
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ -	$ -	$ -	$ 133,880,060.70
7	TN % of CO-3 for Current Month [4]	15.80%			
8	Total Allocated to TN	$ -	$ -	$ -	$ 23,535,435.31
9	Total Capital Expenditures [Line 5 + Line 8]	$ 4,557,144.77	$ 25,541,437.62	$ 30,098,582.39	$ 321,606,646.43
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 4,557,144.77**	**$ 25,541,437.62**	**$ 30,098,582.39**	**$ 288,706,646.43**

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 and 6, which captures amounts through 10/31/18, is $258,608,064.04 ($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 5 and $27,564,238.09 for Vintage Year 6).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	August 2019
1	CORR-Corrosion Control	F0228699	17	Nashville Anode Bed	46,604.42
2	DIMP-Distribution Integrity	F0216582	17	Rural Hill Isolation Valve Removal	40,035.38
3	DIMP-Distribution Integrity	F0222124	17	Harding Pl & Granny White Pk Valve	5,267.97
4	DIMP-Distribution Integrity	F0222727	17	Brick Church Pike to West Trinity	27,960.29
5	DIMP-Distribution Integrity	F0224311	17	Hermitage Pressure Downgrade	905,835.07
6	DIMP-Distribution Integrity	F0224339	17	Greenbrier Main Replacement	6,595.40
7	DIMP-Distribution Integrity	F0224345	17	4934 Whites Creek Pk	5,503.03
8	DIMP-Distribution Integrity	F0224363	17	Maxon Ave Main Replacement	114,908.10
9	DIMP-Distribution Integrity	F0225698	17	Centennial Blvd Main Replacement	427.93
10	DIMP-Distribution Integrity	F0226414	17	Line 304 Convert to Dist (Station)	17,721.08
11	DIMP-Distribution Integrity	F0228466	17	Dr. Walter S Davis Valve Removal	5,810.10
12	DIMP-Distribution Integrity	F0229053	17	Culvert Street Creek Bore	260,663.52
13	DIMP-Distribution Integrity	F0229092	17	39th Ave North	71.14
14	DIMP-Distribution Integrity	FP1733763	17	Harding Place	86,634.96
15	DIMP-Distribution Integrity	FP1733763	17	Harding Place	243.00
16	DIMP-Distribution Integrity	FP1734401	17	Tallwood Dr. Across Briley Pkwy	270,333.71
17	DIMP-Distribution Integrity	FP1734427	17	Grinstead Place	120,990.77
18	DIMP-Distribution Integrity	FP1734428	17	Broadmoor Drive	130,689.83
19	DIMP-Distribution Integrity	FP1734432	17	Visco Dt	1,272.23
20	DIMP-Distribution Integrity	FP1734694	17	Forrest St.	105,199.15
21	DIMP-Distribution Integrity	FP1734726	17	Cowan St HP Distribution Pipeline	3,446.40
22	TIMP-Transmission Integrity	F0226414	17	Line 304 Convert to Dist (Station)	11,411.98
23	TIMP-Transmission Integrity	F0228443	17	Line 320 ILI Retrofit	115,469.12
24	TIMP-Transmission Integrity	FP1733398	17	South Nashville 20"	44,766.40
25	TIMP-Transmission Integrity	F0229405	17	Line 203 Anomalies ILI Excavations	19,007.41
26	TIMP-Transmission Integrity	FP1734120	17	Line 431 Replacement	1,748,247.83
27	TIMP-Transmission Integrity	FP1734142	17	Line 308 Replacement	4,341.63
28	TIMP-Transmission Integrity	FP1734394	17	Line 431 Ph II Land	457,686.92

29	**Total (unallocated)**	**$ 4,557,144.77**
	subtotal: TN Direct (unallocated)	*$ 4,557,144.77*
	subtotal: CO-3 (unallocated)	*$ -*
		$ 4,557,144.77

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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

Line No.			**Aug-19**
1	Beginning Balance	*Prior Month's IMR Report*	$ (6,622,095.54)
2	IMR Revenue Recognition	*Prior Annual IMR Report*	870,548.13
3	(Collections from IM Adjustment)	*see Separate Schedule*	(778,554.20)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	(6,530,101.61)
5	Average Balance	*(Line 1 + Line 4) /2*	(6,576,098.58)
6	Accrued Interest	*Line 5 * Line 9*	(30,138.26)
7	Ending Balance After Interest	*Line 4 + Line 6*	$ (6,560,239.87)
8	Applicable Annual Interest Rate	*same as for ACA*	0.055000
9	Monthly Interest Rate	*Line 8 / 12*	0.004583
10	Actual GL #0253139 EOM Balance	*per GL*	$ (6,560,239.87)
11	Variance	*Line 7 - Line 10*	$ -

Journal Entry: To Record Revenue	
47136 0253139 GA489 PTOP	870,548.13
47136 0480000 GA489 PTOP 0526 RESVAL	(519,229.73)
47136 0481200 GA489 PTOP 0526 COMSTD	(271,611.02)
47136 0481000 GA489 PTOP 0526 INDSLS	(11,743.69)
47136 0483011 GA489 PTOP 0526 GASRSL	(243.75)
47136 0489000 GA489 PTOP 0526 BOTHRV	(67,719.94)

Journal Entry: To Record Interest	
47136 0253139 GA626 PTOP	(30,138.26)
47136 0431150 GA626 PTOP 0526	30,138.26

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		Aug-19				
		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
Line No.						
1	Residential (301)	0.14605		1,853,321		270,677.53
2	Small General Sales (302)	0.12759		1,856,635		236,888.06
3	Medium General Sales (352)	0.12759		624,281		79,652.01
4	Experimental Motor Vehicle Fuel (343/352)	0.12759		3,866		493.26
5	Firm Lg General Sales (303)	0.05667		362,265		20,529.56
6	Experimental Motor Vehicle Fuel (343/303)	0.05667		34,372		1,947.86
7	Firm Lg General Transportation (313)	0.05667		1,166,777		66,121.25
8	Experimental Motor Vehicle Fuel (343/313)	0.05667		152,663		8,651.41
9	Firm Resale (310)	0.05667		751		42.56
10	Interruptible Lg General Sales (304)	0.01417		2,845		40.31
11	Interruptible Lg General Transportation (314)	0.01417		6,599,181		93,510.39
12	**Total**					**$ 778,554.20**

Journal Entry: To Record Collections

47136 0480000 GA489 PTOP 0526 RESVAL	270,677.53
47136 0481200 GA489 PTOP 0526 COMSTD	236,888.06
47136 0481200 GA489 PTOP 0526 COMSTD	80,145.27
47136 0481000 GA489 PTOP 0526 INDSLS	22,477.42
47136 0489000 GA489 PTOP 0526 BOTHRV	74,772.66
47136 0483011 GA489 PTOP 0526 GASRSL	42.56
47136 0481000 GA489 PTOP 0526 INDSLS	40.31
47136 0489000 GA489 PTOP 0526 BOTHRV	93,510.39
47136 0253139 GA489 PTOP	(778,554.20)
	-

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 1

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

Line No.		Current Vintage Year: Vintage Year 7			All Vintage Years
		August 2019 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of August 2019 [3]	Cumulative Capital Expenditure as of August 2019 [6]
	TN Direct				
1	Corrosion Control	$ 46,604.42	$ 470,382.42	$ 516,986.84	$ 7,860,505.82
2	Casing Remediation	$ -	$ (4,789.54)	$ (4,789.54)	$ 877,274.85
3	Distribution Integrity	$ 2,109,609.06	$ 11,971,012.52	$ 14,080,621.58	$ 83,192,966.34
4	Transmission Integrity	$ 2,400,931.29	$ 13,104,832.22	$ 15,505,763.51	$ 206,140,464.11
5	Total	$ 4,557,144.77	$ 25,541,437.62	$ 30,098,582.39	$ 298,071,211.12
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ -	$ -	$ -	$ 133,880,060.70
7	TN % of CO-3 for Current Month [4]	15.80%			
8	Total Allocated to TN	$ -	$ -	$ -	$ 23,535,435.31
9	Total Capital Expenditures [Line 5 + Line 8]	$ 4,557,144.77	$ 25,541,437.62	$ 30,098,582.39	$ 321,606,646.43
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 4,557,144.77**	**$ 25,541,437.62**	**$ 30,098,582.39**	**$ 288,706,646.43**

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 and 6, which captures amounts through 10/31/18, is $258,608,064.04 ($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 5 and $27,564,238.09 for Vintage Year 6).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 2

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	August 2019
1	CORR-Corrosion Control	F0228699	17	Nashville Anode Bed	46,604.42
2	DIMP-Distribution Integrity	F0216582	17	Rural Hill Isolation Valve Removal	40,035.38
3	DIMP-Distribution Integrity	F0222124	17	Harding Pl & Granny White Pk Valve	5,267.97
4	DIMP-Distribution Integrity	F0222727	17	Brick Church Pike to West Trinity	27,960.29
5	DIMP-Distribution Integrity	F0224311	17	Hermitage Pressure Downgrade	905,835.07
6	DIMP-Distribution Integrity	F0224339	17	Greenbrier Main Replacement	6,595.40
7	DIMP-Distribution Integrity	F0224345	17	4934 Whites Creek Pk	5,503.03
8	DIMP-Distribution Integrity	F0224363	17	Maxon Ave Main Replacement	114,908.10
9	DIMP-Distribution Integrity	F0225698	17	Centennial Blvd Main Replacement	427.93
10	DIMP-Distribution Integrity	F0226414	17	Line 304 Convert to Dist (Station)	17,721.08
11	DIMP-Distribution Integrity	F0228466	17	Dr. Walter S Davis Valve Removal	5,810.10
12	DIMP-Distribution Integrity	F0229053	17	Culvert Street Creek Bore	260,663.52
13	DIMP-Distribution Integrity	F0229092	17	39th Ave North	71.14
14	DIMP-Distribution Integrity	FP1733763	17	Harding Place	86,634.96
15	DIMP-Distribution Integrity	FP1733763	17	Harding Place	243.00
16	DIMP-Distribution Integrity	FP1734401	17	Tallwood Dr. Across Briley Pkwy	270,333.71
17	DIMP-Distribution Integrity	FP1734427	17	Grinstead Place	120,990.77
18	DIMP-Distribution Integrity	FP1734428	17	Broadmoor Drive	130,689.83
19	DIMP-Distribution Integrity	FP1734432	17	Visco Dt	1,272.23
20	DIMP-Distribution Integrity	FP1734694	17	Forrest St.	105,199.15
21	DIMP-Distribution Integrity	FP1734726	17	Cowan St HP Distribution Pipeline	3,446.40
22	TIMP-Transmission Integrity	F0226414	17	Line 304 Convert to Dist (Station)	11,411.98
23	TIMP-Transmission Integrity	F0228443	17	Line 320 ILI Retrofit	115,469.12
24	TIMP-Transmission Integrity	FP1733398	17	South Nashville 20"	44,766.40
25	TIMP-Transmission Integrity	F0229405	17	Line 203 Anomalies ILI Excavations	19,007.41
26	TIMP-Transmission Integrity	FP1734120	17	Line 431 Replacement	1,748,247.83
27	TIMP-Transmission Integrity	FP1734142	17	Line 308 Replacement	4,341.63
28	TIMP-Transmission Integrity	FP1734394	17	Line 431 Ph II Land	457,686.92

29	**Total (unallocated)**	**$ 4,557,144.77**
	subtotal: TN Direct (unallocated)	*$ 4,557,144.77*
	subtotal: CO-3 (unallocated)	*$ -*
		$ 4,557,144.77

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

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

Line No.			Aug-19
1	Beginning Balance	*Prior Month's IMR Report*	$ (6,622,095.54)
2	IMR Revenue Recognition	*Prior Annual IMR Report*	870,548.13
3	(Collections from IM Adjustment)	*see Separate Schedule*	(778,554.20)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	(6,530,101.61)
5	Average Balance	*(Line 1 + Line 4) /2*	(6,576,098.58)
6	Accrued Interest	*Line 5 * Line 9*	(30,138.26)
7	Ending Balance After Interest	*Line 4 + Line 6*	$ (6,560,239.87)
8	Applicable Annual Interest Rate	*same as for ACA*	0.055000
9	Monthly Interest Rate	*Line 8 / 12*	0.004583
10	Actual GL #0253139 EOM Balance	*per GL*	$ (6,560,239.87)
11	Variance	*Line 7 - Line 10*	$ -

Journal Entry: To Record Revenue	
47136 0253139 GA489 PTOP	870,548.13
47136 0480000 GA489 PTOP 0526 RESVAL	(519,229.73)
47136 0481200 GA489 PTOP 0526 COMSTD	(271,611.02)
47136 0481000 GA489 PTOP 0526 INDSLS	(11,743.69)
47136 0483011 GA489 PTOP 0526 GASRSL	(243.75)
47136 0489000 GA489 PTOP 0526 BOTHRV	(67,719.94)

Journal Entry: To Record Interest	
47136 0253139 GA626 PTOP	(30,138.26)
47136 0431150 GA626 PTOP 0526	30,138.26

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Schedule 4

General Ledger Support

Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		Aug-19				
		IM Adjustment ($ per therm)	x	Usage (therms)	=	Collections ($)
Line No.						
1	Residential (301)	0.14605		1,853,321		270,677.53
2	Small General Sales (302)	0.12759		1,856,635		236,888.06
3	Medium General Sales (352)	0.12759		624,281		79,652.01
4	Experimental Motor Vehicle Fuel (343/352)	0.12759		3,866		493.26
5	Firm Lg General Sales (303)	0.05667		362,265		20,529.56
6	Experimental Motor Vehicle Fuel (343/303)	0.05667		34,372		1,947.86
7	Firm Lg General Transportation (313)	0.05667		1,166,777		66,121.25
8	Experimental Motor Vehicle Fuel (343/313)	0.05667		152,663		8,651.41
9	Firm Resale (310)	0.05667		751		42.56
10	Interruptible Lg General Sales (304)	0.01417		2,845		40.31
11	Interruptible Lg General Transportation (314)	0.01417		6,599,181		93,510.39
12	**Total**					**$ 778,554.20**

Journal Entry: To Record Collections

47136 0480000 GA489 PTOP 0526 RESVAL	270,677.53
47136 0481200 GA489 PTOP 0526 COMSTD	236,888.06
47136 0481200 GA489 PTOP 0526 COMSTD	80,145.27
47136 0481000 GA489 PTOP 0526 INDSLS	22,477.42
47136 0489000 GA489 PTOP 0526 BOTHRV	74,772.66
47136 0483011 GA489 PTOP 0526 GASRSL	42.56
47136 0481000 GA489 PTOP 0526 INDSLS	40.31
47136 0489000 GA489 PTOP 0526 BOTHRV	93,510.39
47136 0253139 GA489 PTOP	(778,554.20)
	-

TPUC Docket No. 19-00107
Integrity Management Rider
Revised October 2019 Monthly Report

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 19-00107

Revised IMR Monthly Report for Oct 2019
Schedule 1

Cumulative Integrity Management Investment Amount

Actual Integrity Management Investment, by Integrity Project Type

Line No.		Current Vintage Year: Vintage Year 7 October 2019 Capital Expenditure [1]	Prior Cumulative Capital Expenditure [2]	Cumulative Capital Expenditure as of October 2019 [3]	All Vintage Years Cumulative Capital Expenditure as of October 2019 [6]
	TN Direct				
1	Corrosion Control	$ 5,123.34	$ 593,081.11	$ 598,204.45	$ 7,941,723.43
2	Casing Remediation	$ -	$ (4,789.54)	$ (4,789.54)	$ 877,274.85
3	Distribution Integrity	$ 1,581,397.50	$ 15,221,572.42	$ 16,802,969.92	$ 85,915,314.68
4	Transmission Integrity	$ 4,208,653.27	$ 16,427,885.49	$ 20,636,538.76	$ 211,271,239.36
5	Total	$ 5,795,174.11	$ 32,237,749.48	$ 38,032,923.59	$ 306,005,552.32
	Joint Property: CO3-State				
6	OASIS Project (Work & Asset Management System)	$ -	$ -	$ -	$ 133,880,060.70
7	TN % of CO-3 for Current Month [4]	15.80%			
8	Total Allocated to TN	$ -	$ -	$ -	$ 23,535,435.31
9	Total Capital Expenditures [Line 5 + Line 8]	$ 5,795,174.11	$ 32,237,749.48	$ 38,032,923.59	$ 329,540,987.63
10	Less: Amount Included in the Attrition Period [5]	$ -	$ -	$ -	$ 32,900,000.00
11	**Total Integrity Management Investment**	**$ 5,795,174.11**	**$ 32,237,749.48**	**$ 38,032,923.59**	**$ 296,640,987.63**

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 and 6, which captures amounts through 10/31/18, is $258,608,064.04 ($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 5 and $27,564,238.09 for Vintage Year 6).

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
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Revised IMR Monthly Report for Oct 2019
Schedule 2

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 2019
1	TIMP-Transmission Integrity	FP1734120	17	Line 431 Replacement	2,392,530.02
2	TIMP-Transmission Integrity	FP1734394	17	Line 431 Ph II Land	1,319,518.27
3	TIMP-Transmission Integrity	F0228443	17	Line ILI Retrofit	15,437.60
4	TIMP-Transmission Integrity	FP1734142	17	Line 308 Replacement	17,205.43
5	TIMP-Transmission Integrity	F0229405	17	Line 203 Anomalies ILI Excavations	456,361.41
6	TIMP-Transmission Integrity	F0231014	17	ILI anomaly excavations on Line 307	1,035.14
7	TIMP-Transmission Integrity	F0231279	17	Level 1 dig repair on Line 308 imme	5,026.40
8	TIMP-Transmission Integrity	FP1733398	17	South Nashville 20"	1,539.00
9	DIMP-Distribution Integrity	F0222727	17	Brick Church Pike to West Trinity	7,435.96
10	DIMP-Distribution Integrity	F0225698	17	Centennial Blvd Main Replacement	1,084.93
11	DIMP-Distribution Integrity	FP1733763	17	Harding Place	49,618.52
12	DIMP-Distribution Integrity	FP1734694	17	Forrest St.	502,860.61
13	DIMP-Distribution Integrity	FP1734726	17	Cowan St HP Distribution Pipeline	4,625.72
14	DIMP-Distribution Integrity	F0224311	17	Hermitage Pressure Downgrade	324,687.50
15	DIMP-Distribution Integrity	F0224363	17	Maxon Ave Main Replacement	72,004.29
16	DIMP-Distribution Integrity	F0224339	17	Greenbrier Main Replacement	135,205.10
17	DIMP-Distribution Integrity	FP1734427	17	Grinstead Place	8,460.77
18	DIMP-Distribution Integrity	F0229053	17	Culvert Street Creek Bore	250.42
19	DIMP-Distribution Integrity	F0228466	17	Dr. Walter S Davis Valve Removal	48.19
20	DIMP-Distribution Integrity	F0226414	17	Line 304 Convert to Dist (Station)	197,877.78
21	DIMP-Distribution Integrity	F0216582	17	Rural Hill Isolation Valve Removal	227.60
22	DIMP-Distribution Integrity	F0224345	17	4934 Whites Creek Pk	435.62
23	DIMP-Distribution Integrity	FP1734401	17	Tallwood Dr. Across Briley Pkwy	156,007.53
24	DIMP-Distribution Integrity	FP1734428	17	Broadmoor Drive	103,679.44
25	DIMP-Distribution Integrity	F0229092	17	39th Ave North	20,500.24
26	DIMP-Distribution Integrity	FP1734695	17	Spence Lane	867.57
27	DIMP-Distribution Integrity	F0225786	17	Woodcrest Leak Repair	34,266.40
28	DIMP-Distribution Integrity	FP1734688	17	Abbott Martin @ Walnut Dr.	(13,870.91)
29	DIMP-Distribution Integrity	F0222670	17	Donelso Plaza Regulator Removal	(4,383.48)
30	DIMP-Distribution Integrity	F0223608	17	Old Hickory Blvd Replacement	(4,471.06)
31	DIMP-Distribution Integrity	F0224357	17	Patton Ave	7,075.78
32	DIMP-Distribution Integrity	FP1733612	17	Hobbs Rd	(2,022.66)
33	DIMP-Distribution Integrity	FP1734040	17	Metro Water building valve replace	(5,763.38)
34	DIMP-Distribution Integrity	FP1734418	17	Turner St. from 14th to 20th	(5,103.66)
35	DIMP-Distribution Integrity	FP1734614	17	Loretta Drive Replacement	(5,103.66)
36	DIMP-Distribution Integrity	FP1734647	17	Grassmere Park Road	(5,103.66)
37	CORR-Corrosion Control	F0228699	17	Nashville Anode Bed	3,408.10
38	CORR-Corrosion Control	F0228798	17	Hillsboro Rd. Rectifier&Ground Bed	1,715.24

39	**Total (unallocated)**	**$ 5,795,174.11**
	subtotal: TN Direct (unallocated)	*$ 5,795,174.11*
	subtotal: CO-3 (unallocated)	*$ -*
		$ 5,795,174.11

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 19-00107

Revised IMR Monthly Report for Oct 2019
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

Line No.			Oct-19
1	Beginning Balance	*Prior Month's IMR Report*	$ (6,515,604.90)
2	IMR Revenue Recognition	*Prior Annual IMR Report*	1,239,927.01
3	(Collections from IM Adjustment)	*see Separate Schedule*	(943,638.65)
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	(6,219,316.54)
5	Average Balance	*(Line 1 + Line 4) /2*	(6,367,460.72)
6	Accrued Interest	*Line 5 * Line 9*	(28,761.82)
7	Ending Balance After Interest	*Line 4 + Line 6*	$ (6,248,078.36)
8	Applicable Annual Interest Rate	*same as for ACA*	0.054200
9	Monthly Interest Rate	*Line 8 / 12*	0.004517
10	Actual GL #0253139 EOM Balance	*per GL*	$ (6,248,078.36)
11	Variance	*Line 7 - Line 10*	$ -

Journal Entry: To Record Revenue	
47136 0253139 GA489 PTOP	1,239,927.01
47136 0480000 GA489 PTOP 0526 RESVAL	(739,542.07)
47136 0481200 GA489 PTOP 0526 COMSTD	(386,857.23)
47136 0481000 GA489 PTOP 0526 INDSLS	(16,726.61)
47136 0483011 GA489 PTOP 0526 GASRSL	(347.18)
47136 0489000 GA489 PTOP 0526 BOTHRV	(96,453.92)

Journal Entry: To Record Interest	
47136 0253139 GA626 PTOP	(28,761.82)
47136 0431150 GA626 PTOP 0526	28,761.82

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 19-00107

Revised IMR Monthly Report for Oct 2019
Schedule 4

General Ledger Support
Integrity Management Deferred Account Adjustment Recorded for the Month

Calculation of the IM Adjustment Collections:

		Oct-19				
		IM Adjustment		Usage		Collections
Line No.		($ per therm)	x	(therms)	=	($)
1	Residential (301)	0.14605		2,335,813		341,145.49
2	Small General Sales (302)	0.12759		2,141,128		273,186.52
3	Medium General Sales (352)	0.12759		770,946		98,365.00
4	Experimental Motor Vehicle Fuel (343/352)	0.12759		2,354		300.35
5	Firm Lg General Sales (303)	0.05667		511,653		28,995.38
6	Experimental Motor Vehicle Fuel (343/303)	0.05667		33,951		1,924.00
7	Firm Lg General Transportation (313)	0.05667		1,493,317		84,626.27
8	Experimental Motor Vehicle Fuel (343/313)	0.05667		152,336		8,632.88
9	Firm Resale (310)	0.05667		1,449		82.11
10	Interruptible Lg General Sales (304)	0.01417		31,419		445.21
11	Interruptible Lg General Transportation (314)	0.01417		7,476,037		105,935.44
12	**Total**					**$ 943,638.65**

Journal Entry: To Record Collections

47136 0480000 GA489 PTOP 0526 RESVAL	341,145.49
47136 0481200 GA489 PTOP 0526 COMSTD	273,186.52
47136 0481200 GA489 PTOP 0526 COMSTD	98,665.35
47136 0481000 GA489 PTOP 0526 INDSLS	30,919.38
47136 0489000 GA489 PTOP 0526 BOTHRV	93,259.15
47136 0483011 GA489 PTOP 0526 GASRSL	82.11
47136 0481000 GA489 PTOP 0526 INDSLS	445.21
47136 0489000 GA489 PTOP 0526 BOTHRV	105,935.44
47136 0253139 GA489 PTOP	(943,638.65)

TPUC Docket No. 19-00107
Integrity Management Rider
Revised Proposed Billing Rates for January 2020

PIEDMONT NATURAL GAS COMPANY, INC.
Tennessee Service Territory
Billing Rates Effective: January 1, 2020

Rate Schedule	Description	Tariff Rate Approved In Docket Nos. 11-00144 18-00040 <1>	Cumulative PGA Demand <2>	Cumulative PGA Commodity <3>	Current ACA Demand <4a>	Current ACA Commodity <4b>	Current IPA <5>	Current IM Adjustment <6>	Temporary Decrements Approved in Docket No.18-00040 Deferred Base Revenue Refund <7>	Temporary Decrements Approved in Docket No.18-00040 Unprotected Excess ADIT Refund <8>	Total Adj. Factor (Sum Col.2 thru Col.8) <9>	Proposed Billing Rate (Col.1+Col.9) <10>
	Monthly Charge-Nov.-Mar.	$17.45										$17.45
Residential	Monthly Charge-Apr.-Oct.	$13.45										$13.45
301	Nov.- Mar. per TH	0.29009	0.07577	0.30997	(0.01596)	0.01920	0.00822	0.11730	(0.01958)	(0.04211)	0.45281	0.74290
301	Apr.- Oct. per TH	0.24009	0.07577	0.30997	(0.01596)	0.01920	0.00822	0.11730	(0.01958)	(0.04211)	0.45281	0.69290
Small General	Monthly Charge	$44.00										$44.00
302	Nov.- Mar. per TH	0.32787	0.07577	0.30997	(0.01596)	0.01920	0.00822	0.10247	(0.01710)	(0.03678)	0.44579	0.77366
302	Apr.- Oct. per TH	0.27387	0.07577	0.30997	(0.01596)	0.01920	0.00822	0.10247	(0.01710)	(0.03678)	0.44579	0.71966
Medium General	Monthly Charge	$225.00										$225.00
352	Nov.- Mar. per TH	0.32787	0.07577	0.30997	(0.01596)	0.01920	0.00822	0.10247	(0.01710)	(0.03678)	0.44579	0.77366
352	Apr.- Oct. per TH	0.27387	0.07577	0.30997	(0.01596)	0.01920	0.00822	0.10247	(0.01710)	(0.03678)	0.44579	0.71966
Experimental Motor Vehicle Fuel	Monthly Charge											
343	Nov.- Mar. per TH											
343	Apr.- Oct. per TH											
303	Monthly Charge	$800.00										$800.00
Firm	Demand Charge per TH	0.80000	0.82829		(0.25217)						0.57612	1.37612
General Sales	First 15,000 TH/TH	0.09195		0.30997		0.01920	0.00822	0.04551	(0.00319)	(0.00685)	0.37286	0.46481
	Next 25,000 TH/TH	0.08466		0.30997		0.01920	0.00822	0.04551	(0.00319)	(0.00685)	0.37286	0.45752
	Next 50,000 TH/TH	0.05963		0.30997		0.01920	0.00822	0.04551	(0.00319)	(0.00685)	0.37286	0.43249
	Over 90,000 TH/TH	0.02277		0.30997		0.01920	0.00822	0.04551	(0.00319)	(0.00685)	0.37286	0.39563
304	Monthly Charge	$800.00										$800.00
Interruptible	First 15,000 TH/TH	0.09195		0.30997		0.01920	0.00822	0.01138	(0.00319)	(0.00685)	0.33873	0.43068
General Sales	Next 25,000 TH/TH	0.08466		0.30997		0.01920	0.00822	0.01138	(0.00319)	(0.00685)	0.33873	0.42339
	Next 50,000 TH/TH	0.05963		0.30997		0.01920	0.00822	0.01138	(0.00319)	(0.00685)	0.33873	0.39836
	Over 90,000 TH/TH	0.02277		0.30997		0.01920	0.00822	0.01138	(0.00319)	(0.00685)	0.33873	0.36150
313	Monthly Charge	$800.00										$800.00
Firm	Demand Charge per TH	0.80000	0.82829		(0.25217)						0.57612	1.37612
Transportation	First 15,000 TH/TH	0.09195						0.04551	(0.00319)	(0.00685)	0.03547	0.12742
	Next 25,000 TH/TH	0.08466						0.04551	(0.00319)	(0.00685)	0.03547	0.12013
	Next 50,000 TH/TH	0.05963						0.04551	(0.00319)	(0.00685)	0.03547	0.09510
	Over 90,000 TH/TH	0.02277						0.04551	(0.00319)	(0.00685)	0.03547	0.05824
314	Monthly Charge	$800.00										$800.00
Interruptible	First 15,000 TH/TH	0.09195						0.01138	(0.00319)	(0.00685)	0.00134	0.09329
Transportation	Next 25,000 TH/TH	0.08466						0.01138	(0.00319)	(0.00685)	0.00134	0.08600
	Next 50,000 TH/TH	0.05963						0.01138	(0.00319)	(0.00685)	0.00134	0.06097
	Over 90,000 TH/TH	0.02277						0.01138	(0.00319)	(0.00685)	0.00134	0.02411
310	Demand Charge per TH	0.80000	0.82829		(0.25217)						0.57612	1.37612
Resale Service	Commodity Charge	0.07518		0.30997		0.01920	0.00822	0.04551	(0.00970)	(0.02086)	0.35234	0.42752

NOTES:

1/ In accordance with the Tennessee Public Service Commission order in Docket U-7074 customers metered inside Davidson County are required to pay an additional 6.02% for collection of the Metro Franchise Fee. Customers served by the Ashland City, Fairview, Greenbrier, Hartsville, Mt. Juliet and White House systems are required to pay 5.0%. Customers served by the Franklin and Nolensville systems are required to pay 3%.

TPUC Docket No. 19-00107
Integrity Management Rider
Revised 2019 Annual Report

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee

Revised 2019 IMR Annual Report
Schedule 1

<u>Schedule of Journal Entries Related to the Integrity Management Rider for the Previous Twelve Months (November 2018 thru October 2019)</u>
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-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	
1	Beginning Balance	*Prior Month's IMR Report*	$ 1,375,025.85	$ 440,480.62	$ (1,476,834.13)	$ (2,533,874.91)	$ (4,148,478.90)	$ (5,640,811.30)	$ (6,497,448.12)	$ (6,612,543.04)	$ (6,632,296.45)	$ (6,622,095.54)	$ (6,560,239.87)	$ (6,515,604.90)	
2	IMR Revenue Recognition	*Prior Annual IMR Report*	2,031,731.19	3,234,491.64	4,456,561.59	4,240,902.01	3,202,192.54	2,069,310.80	1,310,134.87	927,722.41	863,795.36	870,548.13	871,459.90	1,239,927.01	1/
3	(Collections from IM Adjustment)	*see Separate Schedule*	(2,970,020.43)	(5,149,669.18)	(5,504,963.90)	(5,841,113.21)	(4,673,440.27)	(2,898,444.09)	(1,395,524.46)	(917,464.94)	(823,291.45)	(778,554.20)	(796,930.14)	(943,638.65)	
4	Ending Balance Before Interest	*sum Lines 1 thru 3*	436,736.61	(1,474,696.92)	(2,525,236.44)	(4,134,086.11)	(5,619,726.63)	(6,469,944.59)	(6,582,837.71)	(6,602,285.57)	(6,591,792.54)	(6,530,101.61)	(6,485,710.11)	(6,219,316.54)	
5	Average Balance	*(Line 1 + Line 4) /2*	905,881.23	(517,108.15)	(2,001,035.29)	(3,333,980.51)	(4,884,102.77)	(6,055,377.95)	(6,540,142.92)	(6,607,414.31)	(6,612,044.50)	(6,576,098.58)	(6,522,974.99)	(6,367,460.72)	
6	Accrued Interest	*Line 5 * Line 9*	3,744.01	(2,137.21)	(8,638.47)	(14,392.79)	(21,084.67)	(27,503.53)	(29,705.33)	(30,010.88)	(30,303.00)	(30,138.26)	(29,894.79)	(28,761.82)	
7	Ending Balance After Interest	*Line 4 + Line 6*	$ 440,480.62	$ (1,476,834.13)	$ (2,533,874.91)	$ (4,148,478.90)	$ (5,640,811.30)	$ (6,497,448.12)	$ (6,612,543.04)	$ (6,632,296.45)	$ (6,622,095.54)	$ (6,560,239.87)	$ (6,515,604.90)	$ (6,248,078.36)	
8	Applicable Annual Interest Rate	*same as for ACA*	0.049600	0.049600	0.051800	0.051800	0.051800	0.054500	0.054500	0.054500	0.055000	0.055000	0.055000	0.054200	
9	Monthly Interest Rate	*Line 8 / 12*	0.004133	0.004133	0.004317	0.004317	0.004317	0.004542	0.004542	0.004542	0.004583	0.004583	0.004583	0.004517	
10	Actual GL #0253139 EOM Balance	*per GL*	$ 440,480.62	$ (1,476,834.13)	$ (2,963,515.67)	$ (4,988,824.23)	$ (6,793,496.04)	$ (7,854,885.41)	$ (6,612,543.04)	$ (6,632,296.45)	$ (6,622,095.54)	$ (6,560,239.87)	$ (6,515,604.90)	$ (6,248,078.36)	
11	Variance	*Line 7 - Line 10*	$ -	$ -	$ 429,640.76	$ 840,345.33	$ 1,152,684.74	$ 1,357,437.29	$ -	$ -	$ -	$ -	$ -	$ -	2/

Journal Entry: To Record Revenue	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19
47136 0253139 GA489 PTOP	2,031,731.19	3,234,491.64	4,456,561.59	3,832,932.80	2,894,145.82	1,870,245.82	1,310,134.87	927,722.41	863,795.36	870,548.13	871,459.90	1,239,927.01
47136 0480000 GA489 PTOP 0526 RESVAL	(1,211,805.75)	(1,929,180.19)	(2,402,368.59)	(2,286,114.44)	(1,726,184.34)	(1,115,489.42)	(781,416.85)	(553,330.76)	(515,202.10)	(519,229.73)	(519,773.54)	(739,542.07)
47136 0481200 GA489 PTOP 0526 COMSTD	(633,900.13)	(1,009,161.39)	(1,256,688.01)	(1,195,875.04)	(902,973.49)	(583,516.70)	(408,762.07)	(289,449.40)	(269,504.16)	(271,611.02)	(271,895.49)	(386,857.23)
47136 0481000 GA489 PTOP 0526 INDSLS	(27,408.06)	(43,633.29)	(54,335.65)	(51,706.26)	(39,042.03)	(25,229.61)	(17,673.72)	(12,514.97)	(11,652.60)	(11,743.69)	(11,755.99)	(16,726.61)
47136 0483011 GA489 PTOP 0526 GASRSL	(568.88)	(905.66)	(1,127.80)	(1,073.22)	(810.36)	(523.67)	(366.84)	(259.76)	(241.86)	(243.75)	(244.01)	(347.18)
47136 0489000 GA489 PTOP 0526 BOTHRV	(158,048.37)	(251,611.11)	(313,326.16)	(298,163.84)	(225,135.60)	(145,486.42)	(101,915.39)	(72,167.52)	(67,194.64)	(67,719.94)	(67,790.87)	(96,453.92)

Journal Entry: To Record Interest	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19
47136 0253139 GA626 PTOP	3,744.01	(2,137.21)	(8,638.47)	(14,392.79)	(21,084.67)	(27,503.53)	(29,705.33)	(30,010.88)	(30,303.00)	(30,138.26)	(29,894.79)	(28,761.82)
47136 0431150 GA626 PTOP 0526	(3,744.01)	2,137.21	8,638.47	14,392.79	21,084.67	27,503.53	29,705.33	30,010.88	30,303.00	30,138.26	29,894.79	28,761.82

1/ Pursuant to the TPUC's May 20, 2019 ruling in Docket No. 18-00126, this schedule reflects the approved monthly amortization of the annual Integrity Management Revenue Requirement from Piedmont's 2018 Annual Integrity Management Rider Report, which was filed by the Company on November 30, 2018.

2/ Pursuant to the TPUC's ruling, Piedmont recorded the approved IM Revenue Requirement to its general ledger for January 2019 thru April 2019. It was recorded as a true-up adjustment in May 2019.

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 19-00107

Revised 2019 IMR Annual Report
Schedule 3

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 2020 -Dec 31 2020						
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]	$ 16,782,133	$ 8,778,978	$ 1,391,761	$ 1,184,334	**$ 28,137,207**
3	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)**
4	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**
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]	$1.17300	$1.02470	$0.45510	$0.11380	
7	**Proposed Integrity Management Rate per therm**	[= Line 6 / 10]	**$0.11730**	**$0.10247**	**$0.04551**	**$0.01138**	
	As previously approved:						
	Jan 1 2019 -Dec 31 2019						
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]	$ 15,435,431	$ 8,074,499	$ 1,280,077	$ 1,089,296	$ 25,879,303
10	Deferred Account Adjustment Due From (To) Customers	Actual Deferred Account Balance at Oct 31, 2018	$ 820,119	$ 429,016	$ 68,013	$ 57,877	$ 1,375,026
11	Total Amount for Recovery in this Rider	[= Line 2 + Line 3]	$ 16,255,550	$ 8,503,515	$ 1,348,091	$ 1,147,173	$ 27,254,329
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]	$1.46050	$1.27590	$0.56670	$0.14170	
14	Proposed Integrity Management Rate per therm	[= Line 6 / 10]	$0.14605	$0.12759	$0.05667	$0.01417	

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 19-00107

Revised 2019 IMR Annual Report
Schedule 4

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)	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Total**
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. 19-00107

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2020 - December 31, 2020

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

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
Plant	100,306,283	100,306,283	100,306,283	100,306,283	100,306,283	100,306,283	100,306,283
Accumulated depreciation	(974,476)	(2,428,917)	(3,883,358)	(5,337,799)	(6,792,240)	(8,246,681)	(9,701,122)
Net plant	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
ADIT	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
NOL benefit				[illegible]	[illegible]	[illegible]	[illegible]
Net investment	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Pre-tax ROR%	11.446%	11.446%	11.446%	11.446%	9.878%	9.878%	9.878%
Pre-tax rate of return	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Depreciation expense	1,454,441	1,454,441	1,454,441	1,454,441	1,454,441	1,454,441	1,454,441
Property tax expense	732,236	732,236	732,236	732,236	732,236	732,236	732,236
Total, excluding uncollectibles	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Uncollectibles gross up factor	1.000508	1.000508	1.000508	1.000508	1.000508	1.000508	1.000508
Total revenue requirement	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Assumptions and calculations:
Rider computed each year
Normal depreciation and AFUDC practices apply: AFUDC ends and depreciation begins when plant goes into service

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
Net of tax rate of return	6.96%	6.96%	6.96%	6.96%	7.32%	7.32%	7.32%

		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
Plant amount	100,306,283							
Book depreciation rate	1.45%							
Property Tax Rate	0.73%							
Tax depreciation	MACRS 15 Years 1 - 5							
Tax depreciation	50%+15 50% Years 4 - 6							
Plant in service date for this Vintage	31-Oct-13							
Original Rider effective date for this Vintage	[illegible]							
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%
FIT rate		35.00%	35.00%	35.00%	35.00%	21.00%	21.00%	21.00%
Composite income tax rate		39.23%	39.23%	39.23%	39.23%	26.14%	26.14%	26.14%
Uncollectibles rate		0.0508%	0.0508%	0.0508%	0.0508%	0.0508%	0.0508%	0.0508%
Revenue requirement gross up factor		1.000508	1.000508	1.000508	1.000508	1.000508	1.000508	1.000508
Capital structure assumptions (rate case):								
LTD	45.43%							
STD	5.97%							
Common equity	47.71%							
Capital cost rate assumptions (rate case):								
LTD	6.05%							
STD	1.19%							
Common equity	10.20%							
Overall and pre-tax ROR %:								
	Overall	Pre-tax ROR %						
LTD	2.506%	2.506%	2.506%	2.506%	2.506%	2.506%	2.506%	2.506%
STD	0.093%	0.093%	0.093%	0.093%	0.093%	0.093%	0.093%	0.093%
Common equity	5.376%	8.846%	8.846%	8.846%	8.846%	7.279%	7.279%	7.279%
Total	7.975%	11.446%	11.446%	11.446%	11.446%	9.878%	9.878%	9.878%

Tax depreciation schedule	Rate	MACRS 15 Yearly	MACRS 15 Cumulative	BONUS 50% Yearly	BONUS 50% 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	69,050,846
Tax year 6	6.23%	6,249,082	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	61,808,731	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	

		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
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
Depreciation expense		1,454,441	1,454,441	1,454,441	1,454,441	1,454,441	1,454,441	1,454,441
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
Average accumulated depreciation		974,476	2,428,917	3,883,358	5,337,799	6,792,240	8,246,681	9,701,122

MACRS 15

Tax depreciation reserve		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
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	16,502,363	24,433,607	32,025,890	38,857,751	45,050,561	50,968,632
Tax period A tax depreciation		7,909,150	7,118,255	6,410,575	5,769,517	5,186,738	4,911,999	4,911,999
Tax period B tax depreciation		1,957,952	1,812,989	1,181,708	1,062,344	1,006,072	1,006,072	1,007,777
Rider year EOY amount		16,502,363	24,433,607	32,025,890	38,857,751	45,050,561	50,968,632	56,888,407
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

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

Accumulated deferred taxes	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
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
Average book depreciation reserve	974,476	2,428,917	3,883,358	5,337,799	6,792,240	8,246,681	9,701,122
Difference	10,344,336	17,789,069	24,346,391	30,104,022	35,161,916	39,762,915	44,227,397
Tax difference balance	10,344,336	17,789,069	24,346,391	30,104,022	35,161,916	35,161,916	35,161,916
Composite tax rate w/ 35% FIT rate	39.23%	39.23%	39.23%	39.23%	39.23%	39.23%	39.23%
Incremental tax difference beginning Year 6						4,600,999	9,065,481
Composite tax rate w/ 21% FIT rate	0.00%	0.00%	0.00%	0.00%	0.00%	26.14%	26.14%
Average ADIT	4,057,566	6,977,767	9,549,872	11,808,321	13,792,762	14,994,731	16,161,525

Note: composite tax rate ignores excess deferred tax flow back

BONUS 50%

Tax depreciation reserve		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
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
Tax period A tax depreciation		3,954,575	3,559,128	3,205,287	2,884,759	2,593,369	2,455,999	2,455,999
Tax period B tax depreciation		728,976	656,555	590,854	531,172	503,036	503,036	503,889
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
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

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

Accumulated deferred taxes	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
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
Average book depreciation reserve	974,476	2,428,917	3,883,358	5,337,799	6,792,240	8,246,681	9,701,122
Difference	54,838,072	57,833,217	60,384,658	62,536,253	64,337,980	65,911,259	67,416,279
Tax difference balance	54,838,072	57,833,217	60,384,658	62,536,253	64,337,980	64,337,980	64,337,980
Composite tax rate w/ 35% FIT rate	39.23%	39.23%	39.23%	39.23%	39.23%	39.23%	39.23%
Incremental tax difference beginning Year 6						1,573,279	3,078,300
Composite tax rate w/ 21% FIT rate	0.00%	0.00%	0.00%	0.00%	0.00%	26.14%	26.14%
Average ADIT	21,510,236	22,685,080	23,685,882	24,529,847	25,236,572	25,647,749	26,041,085

Piedmont Natural Gas Company, Inc
Integrity Management Rider
State of Tennessee
TPUC Docket No. 19-00107

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2020 - December 31, 2020

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

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Plant	$53,974,676	$53,974,676	$53,974,676	$53,974,676	$53,974,676	$53,974,676
Accumulated depreciation	(524,364)	(1,306,997)	(2,089,630)	(2,872,262)	(3,654,895)	(4,437,528)
Net plant	53,450,312	52,667,679	51,885,047	51,102,414	50,319,781	49,537,148
ADIT	(2,183,371)	(3,754,724)	(12,745,341)	(13,199,477)	(13,452,857)	(13,674,111)
NOL benefit			1,075,610	-	-	-
Net investment	51,266,941	48,912,955	40,215,316	37,902,937	36,866,924	35,863,037
Pre-tax ROR%	11.446%	11.446%	11.446%	9.878%	9.878%	9.878%
Pre-tax rate of return	5,867,948	5,598,429	4,602,915	3,744,035	3,641,698	3,542,534
Depreciation expense	782,633	782,633	782,633	782,633	782,633	782,633
Property tax expense	394,015	394,015	394,015	394,015	394,015	394,015
Total, excluding uncollectibles	7,044,596	6,775,077	5,779,563	4,920,683	4,818,346	4,719,182
Uncollectibles gross-up factor	1.000308	1.000308	1.000308	1.000308	1.000308	1.000308
Total revenue requirement	7,046,767	6,777,164	5,781,343	4,922,199	4,819,830	4,720,636

Assumptions and calculations:
Rider computed each year
Normal depreciation and AFUDC practices apply. AFUDC ends and depreciation begins when plant goes into service

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Net of tax rate of return	6.96%	6.96%	6.96%	7.30%	7.30%	7.30%

			Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
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%
FIT rate			35.00%	35.00%	35.00%	21.00%	21.00%	21.00%
Composite income tax rate			39.23%	39.23%	39.23%	26.14%	26.14%	26.14%
Uncollectibles rate			0.0308%	0.0308%	0.0308%	0.0308%	0.0308%	0.0308%
Revenue requirement gross-up factor			1.000308	1.000308	1.000308	1.000308	1.000308	1.000308
Capital structure assumptions (rate base):								
LTD	41.42%							
STD	5.87%							
Common equity	52.71%							
Capital cost rate assumptions (rate base):								
LTD	6.05%							
STD	1.59%							
Common equity	10.20%							
Overall and pre-tax RORs								
	Overall		Pre-tax RORs					
LTD	2.506%		2.506%	2.506%	2.506%	2.506%	2.506%	2.506%
STD	0.093%		0.093%	0.093%	0.093%	0.093%	0.093%	0.093%
Common equity	5.376%		8.846%	8.846%	8.846%	7.279%	7.279%	7.279%
Total	7.975%		11.446%	11.446%	11.446%	9.878%	9.878%	9.878%

Tax depreciation schedule

		MACRS 15		BONUS 50%	
	Rate	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	33,207,919
Tax year 4	7.70%	4,156,052	16,597,215	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	39,633,604	1,594,952	46,804,140
Tax year 12	5.90%	3,184,506	42,818,110	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	

		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	133,048						
Rider year BOY amount		133,048	915,680	1,698,313	2,480,946	3,263,579	4,046,212
Depreciation expense		782,633	782,633	782,633	782,633	782,633	782,633
Rider year EOY amount		915,680	1,698,313	2,480,946	3,263,579	4,046,212	4,828,844
Average accumulated depreciation		524,364	1,306,997	2,089,630	2,872,262	3,654,895	4,437,528

MACRS 15

		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Tax depreciation reserve							
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	13,147,692	17,233,089	20,909,304	24,241,646
Tax period A tax depreciation		4,255,903	3,830,313	3,449,523	3,104,569	2,790,977	2,643,140
Tax period B tax depreciation		784,522	706,529	635,876	571,646	541,366	541,366
Rider year EOY amount		8,610,850	13,147,692	17,233,089	20,909,304	24,241,646	27,426,152
Average tax depreciation reserve		6,090,637	10,879,271	15,190,390	19,071,196	22,575,475	25,833,899

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

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Accumulated deferred taxes						
Average tax depreciation reserve	6,090,637	10,879,271	15,190,390	19,071,196	22,575,475	25,833,899
Average book depreciation reserve	524,364	1,306,997	2,089,630	2,872,262	3,654,895	4,437,528
Difference	5,566,273	9,572,274	13,100,760	16,198,934	18,920,580	21,396,371
Tax difference balance	5,566,273	9,572,274	13,100,760	16,198,934	16,198,934	16,198,934
Composite tax rate w 35% FIT rate	39.23%	39.23%	39.23%	39.23%	39.23%	39.23%
Incremental tax difference beginning Year 5					2,721,646.06	5,197,437.47
Composite tax rate w 21% FIT rate	0.00%	0.00%	0.00%	0.00%	26.14%	26.14%
Average ADIT	2,183,371	3,754,724	5,138,773	6,354,632	7,065,556	7,712,582

Note - composite tax rate ignores excess deferred tax flow back

BONUS 50%

		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Tax depreciation reserve							
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	35,603,883	37,441,990	39,108,161
Tax period A tax depreciation		2,127,952	1,915,156	1,724,761	1,552,285	1,395,488	1,321,570
Tax period B tax depreciation		392,261	353,264	317,938	285,823	270,683	270,683
Rider year EOY amount		31,292,763	33,561,184	35,603,883	37,441,990	39,108,161	40,700,414
Average tax depreciation reserve		30,032,657	32,426,973	34,582,533	36,522,936	38,275,076	39,904,288

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

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Accumulated deferred taxes						
Average tax depreciation reserve	30,032,657	32,426,973	34,582,533	36,522,936	38,275,076	39,904,288
Average book depreciation reserve	524,364	1,306,997	2,089,630	2,872,262	3,654,895	4,437,528
Difference	29,508,293	31,119,977	32,492,903	33,650,674	34,620,182	35,466,760
Tax difference balance	29,508,293	31,119,977	32,492,903	33,650,674	33,650,674	33,650,674
Composite tax rate w 35% FIT rate	39.23%	39.23%	39.23%	39.23%	39.23%	39.23%
Incremental tax difference beginning Year 5					969,507	1,816,085
Composite tax rate w 21% FIT rate	0.00%	0.00%	0.00%	0.00%	26.14%	26.14%
Average ADIT	11,574,628	12,206,431	12,745,341	13,199,477	13,452,857	13,674,111

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 19-00157

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2020 - December 31, 2020

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

	Year 1	Year 2	Year 3	Year 4	Year 5
Plant	18,441,896	18,441,896	18,441,896	18,441,896	18,441,896
Accumulated depreciation	(179,163)	(446,571)	(713,978)	(981,386)	(1,248,793)
Net plant	18,262,733	17,995,326	17,727,918	17,460,510	17,193,103
ADIT	(746,307)	(4,170,386)	(4,354,788)	(4,458,171)	(4,544,748)
NOL benefit					
Net investment	17,516,426	13,824,541	13,373,130	13,002,337	12,648,355
Pre-tax ROR%	11.446%	11.446%	9.878%	9.878%	9.878%
Pre-tax rate of return	2,004,908	1,582,322	1,320,992	1,284,365	1,249,399
Depreciation expense	267,407	267,407	267,407	267,407	267,407
Property tax expense	134,676	134,676	134,676	134,676	134,676
Total, excluding uncollectibles	2,406,991	1,984,346	1,721,075	1,686,448	1,651,482
Uncollectibles gross-up factor	1.000508	1.000508	1.000508	1.000508	1.000508
Total revenue requirement	2,407,613	1,984,952	1,721,555	1,686,916	1,651,943

Assumptions and calculations:
Rider computed each year
Normal depreciation and AFUDC practices apply, AFUDC ends and depreciation begins when plant goes into service

	Year 1	Year 2	Year 3	Year 4	Year 5
Net of tax rate of return	6.96%	6.96%	7.30%	7.30%	7.30%

		Year 1	Year 2	Year 3	Year 4	Year 5
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%
FIT rate		35.00%	35.00%	21.00%	21.00%	21.00%
Composite income tax rate		39.23%	39.23%	26.14%	26.14%	26.14%
Uncollectibles rate		0.0508%	0.0508%	0.0508%	0.0508%	0.0508%
Revenue requirement gross-up factor		1.000508	1.000508	1.000508	1.000508	1.000508
Capital structure assumptions (rate case):						
LTD	45.47%					
STD	5.47%					
Common equity	49.06%					
Capital cost rate assumptions (rate case):						
LTD	5.05%					
STD	1.59%					
Common equity	10.20%					
Overall and pre-tax ROR%:						
	Overall	Pre-tax ROR%				
LTD	2.506%	2.506%	2.506%	2.506%	2.506%	2.506%
STD	0.093%	0.093%	0.093%	0.093%	0.093%	0.093%
Common equity	5.378%	8.846%	8.846%	7.279%	7.279%	7.279%
Total	7.976%	11.446%	11.446%	9.878%	9.878%	9.878%

Tax depreciation schedule

	Rate	MACRS 15 Yearly	MACRS 15 Cumulative	BONUS 50% Yearly	BONUS 50% Cumulative
Tax year 1	5.00%	922,095		9,681,995	
Tax year 2	9.50%	1,751,980	2,674,075	875,990	10,557,985
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	639,011	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
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
Depreciation expense		267,407	267,407	267,407	267,407	267,407
Rider year EOY amount		312,867	580,274	847,682	1,115,089	1,382,497
Average accumulated depreciation		179,163	446,571	713,978	981,386	1,248,793

MACRS 15

Tax depreciation reserve		Year 1	Year 2	Year 3	Year 4	Year 5
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
Tax period A tax depreciation		1,454,364	1,308,429	1,178,622	1,060,759	953,612
Tax period B tax depreciation		268,033	241,404	217,264	195,318	184,977
Rider year EOY amount		2,942,128	4,492,261	5,888,147	7,144,221	8,282,809
Average tax depreciation reserve		2,081,030	3,717,195	5,190,204	6,516,186	7,713,517

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

Accumulated deferred taxes	Year 1	Year 2	Year 3	Year 4	Year 5
Average tax depreciation reserve	2,081,030	3,717,195	5,190,204	6,516,186	7,713,517
Average book depreciation reserve	179,163	446,571	713,978	981,386	1,248,793
Difference	1,901,867	3,270,624	4,476,226	5,534,800	6,464,724
Tax difference balance	1,901,867	3,270,624	4,476,226	4,476,226	4,476,226
Composite tax rate w 35% FIT rate	39.23%	39.23%	39.23%	39.23%	39.23%
Incremental tax difference beginning Year 4				1,058,574.00	1,988,497.45
Composite tax rate w 21% FIT rate	0.00%	0.00%	0.00%	26.14%	26.14%
Average ADIT	746,007	1,282,922	1,755,800	2,032,456	2,275,394

Note: composite tax rate ignores excess deferred tax flowback

BONUS 50%

Tax depreciation reserve		Year 1	Year 2	Year 3	Year 4	Year 5
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
Tax period A tax depreciation		727,072	654,355	589,311	530,380	475,806
Tax period B tax depreciation		134,026	120,712	108,632	97,659	91,486
Rider year EOY amount		10,692,012	11,467,079	12,165,022	12,793,060	13,360,352
Average tax depreciation reserve		10,261,463	11,079,545	11,816,050	12,479,041	13,077,706

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

Accumulated deferred taxes	Year 1	Year 2	Year 3	Year 4	Year 5
Average tax depreciation reserve	10,261,463	11,079,545	11,816,050	12,479,041	13,077,706
Average book depreciation reserve	179,163	446,571	713,978	981,386	1,248,793
Difference	10,082,300	10,632,975	11,102,072	11,497,655	11,828,913
Tax difference balance	10,082,300	10,632,975	11,102,072	11,102,072	11,102,072
Composite tax rate w 35% FIT rate	39.23%	39.23%	39.23%	39.23%	39.23%
Incremental tax difference beginning Year 4				395,583.24	726,841.25
Composite tax rate w 21% FIT rate	0.00%	0.00%	0.00%	26.14%	26.14%
Average ADIT	3,954,782	4,172,784	4,354,788	4,458,175	4,544,748

Piedmont Natural Gas Company, Inc
Integrity Management Rider
State of Tennessee
TPUC Docket No. 19-00107

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2020 - December 31, 2020

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

	Year 1	Year 2	Year 3	Year 4
Plant	20,076,718	20,076,718	20,076,718	20,076,718
Accumulated depreciation	(195,045)	(486,158)	(777,270)	(1,068,383)
Net plant	19,881,673	19,590,560	19,299,448	19,008,335
ADIT	(4,305,362)	(4,540,513)	(4,673,979)	(4,786,530)
NOL benefit	-	-	-	-
Net investment	15,576,310	15,050,048	14,625,469	14,221,806
Pre-tax ROR%	11.446%	9.878%	9.878%	9.878%
Pre-tax rate of return	1,782,814	1,486,637	1,444,697	1,404,823
Depreciation expense	291,112	291,112	291,112	291,112
Property Tax expense	146,560	146,560	146,560	146,560
Total, excluding uncollectibles	2,220,487	1,924,309	1,882,370	1,842,496
Uncollectibles gross-up factor	1.000308	1.000308	1.000308	1.000308
Total revenue requirement	2,221,171	1,924,902	1,882,949	1,843,064

Assumptions and calculations:
Rider computed each year
Normal depreciation and AFUDC practices apply. AFUDC ends and depreciation begins when plant goes into service

	Year 1	Year 2	Year 3	Year 4
Net of tax rate of return	6.96%	7.30%	7.30%	7.30%

		Year 1	Year 2	Year 3	Year 4
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%
FIT rate		35.00%	21.00%	21.00%	21.00%
Composite income tax rate		39.23%	26.14%	26.14%	26.14%
Uncollectibles rate		0.0308%	0.0308%	0.0308%	0.0308%
Revenue requirement gross-up factor		1.000308	1.000308	1.000308	1.000308
Capital structure assumptions (rate case):					
LTD	41.42%				
STD	5.87%				
Common equity	52.71%				
Capital cost rate assumptions (rate case):					
LTD	6.05%				
STD	1.59%				
Common equity	10.20%				
Overall and pre-tax RORs					
	Overall	Pre-tax RORs			
LTD	2.506%	2.506%	2.506%	2.506%	2.506%
STD	0.093%	0.093%	0.093%	0.093%	0.093%
Common equity	5.376%	8.846%	7.279%	7.279%	7.279%
Total	7.976%	11.446%	9.878%	9.878%	9.878%

MACRS 15 tax depreciation schedule

		MACRS 15		BONUS 50%	
	Rate	Yearly	Cumulative	Yearly	Cumulative
Tax year 1	5.00%	1,003,836		10,540,277	
Tax year 2	9.50%	1,907,288	2,911,124	953,644	11,493,921
Tax year 3	8.55%	1,716,559	4,627,683	858,280	12,352,201
Tax year 4	7.70%	1,545,907	6,173,590	772,954	13,125,154
Tax year 5	6.93%	1,391,317	7,564,907	695,658	13,820,813
Tax year 6	6.23%	1,250,780	8,815,687	625,390	14,446,202
Tax year 7	5.90%	1,184,526	10,000,213	592,263	15,038,466
Tax year 8	5.90%	1,184,526	11,184,740	592,263	15,630,729
Tax year 9	5.91%	1,186,534	12,371,274	593,267	16,223,996
Tax year 10	5.90%	1,184,526	13,555,800	592,263	16,816,259
Tax year 11	5.91%	1,186,534	14,742,334	593,267	17,409,526
Tax year 12	5.90%	1,184,526	15,926,860	592,263	18,001,789
Tax year 13	5.91%	1,186,534	17,113,394	593,267	18,595,056
Tax year 14	5.90%	1,184,526	18,297,921	592,263	19,187,319
Tax year 15	5.91%	1,186,534	19,484,455	593,267	19,780,586
Tax year 16	2.95%	592,263	20,076,718	296,132	20,076,718
Total	100.00%	20,076,718		20,076,718	

		Year 1	Year 2	Year 3	Year 4
Accumulated depreciation					
Portion of year in service before rider	17%				
Pre-rider amount of depreciation	49,489				
Rider year BOY amount		49,489	340,602	631,714	922,826
Depreciation expense		291,112	291,112	291,112	291,112
Rider year EOY amount		340,602	631,714	922,826	1,213,939
Average accumulated depreciation		195,045	486,158	777,270	1,068,383

BONUS 50%		Year 1	Year 2	Year 3	Year 4
Tax depreciation reserve					
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
Tax period A tax depreciation		791,525	712,372	641,552	577,396
Tax period B tax depreciation		145,908	131,402	118,262	106,316
Rider year EOY amount		11,639,829	12,483,603	13,243,416	13,927,129
Average tax depreciation reserve		11,171,113	12,061,716	12,863,510	13,585,273

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

	Year 1	Year 2	Year 3	Year 4
Accumulated deferred taxes				
Average tax depreciation reserve	11,171,113	12,061,716	12,863,510	13,585,273
Average book depreciation reserve	195,045	486,158	777,270	1,068,383
Difference	10,976,067	11,575,558	12,086,239	12,516,890
Tax difference balance	10,976,067	11,575,558	11,575,558	11,575,558
Composite tax rate w 35% FIT rate	39.23%	39.23%	39.23%	39.23%
Incremental tax difference beginning Year 3	-	-	510,681	941,332
Composite tax rate w 21% FIT rate	0.00%	0.00%	26.14%	26.14%
Average ADIT	4,305,362	4,540,513	4,673,979	4,786,530

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 19-00107

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2020 - December 31, 2020

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

	Year 1	Year 2	Year 3
Plant	38,244,253	38,244,253	38,244,253
Accumulated depreciation	(371,543)	(926,085)	(1,480,626)
Net plant	37,872,710	37,318,168	36,763,627
ADIT	(8,201,309)	(8,649,248)	(9,030,829)
NOL benefit	-	-	-
Net investment	29,671,401	28,668,920	27,732,798
Pre-tax ROR%	9.878%	9.878%	9.878%
Pre-tax rate of return	2,930,927	2,831,903	2,739,433
Depreciation expense	554,542	554,542	554,542
Property Tax expense	279,183	279,183	279,183
Total, excluding uncollectibles	3,764,652	3,665,628	3,573,158
Uncollectibles gross-up factor	1.000308	1.000308	1.000308
Total revenue requirement	3,765,812	3,666,757	3,574,259

Assumptions and calculations:
Rider computed each year
Normal depreciation and AFUDC practices apply, AFUDC ends and depreciation begins when plant goes into service

	Year 1	Year 2	Year 3
Net of tax rate of return	7.30%	7.30%	7.30%

		Year 1	Year 2	Year 3
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%
FIT rate		21.00%	21.00%	21.00%
Composite income tax rate		26.14%	26.14%	26.14%
Uncollectibles rate		0.0308%	0.0308%	0.0308%
Revenue requirement gross-up factor		1.000308	1.000308	1.000308
Capital structure assumptions (rate case):				
LTD	41.42%			
STD	5.87%			
Common equity	52.71%			
Capital cost rate assumptions (rate case):				
LTD	6.05%			
STD	1.59%			
Common equity	10.20%			
Overall and pre-tax RORs				
	Overall	Pre-tax RORs		
LTD	2.506%	2.506%	2.506%	2.506%
STD	0.093%	0.093%	0.093%	0.093%
Common equity	5.376%	7.279%	7.279%	7.279%
Total	7.976%	9.878%	9.878%	9.878%

MACRS 15 tax depreciation schedule

		MACRS 15		BONUS 50%	
	Rate	Yearly	Cumulative	Yearly	Cumulative
Tax year 1	5.00%	1,912,213		20,078,233	
Tax year 2	9.50%	3,633,204	5,545,417	1,816,602	21,894,835
Tax year 3	8.55%	3,269,884	8,815,300	1,634,942	23,529,777
Tax year 4	7.70%	2,944,807	11,760,108	1,472,404	25,002,180
Tax year 5	6.93%	2,650,327	14,410,435	1,325,163	26,327,344
Tax year 6	6.23%	2,382,617	16,793,051	1,191,308	27,518,652
Tax year 7	5.90%	2,256,411	19,049,462	1,128,205	28,646,858
Tax year 8	5.90%	2,256,411	21,305,873	1,128,205	29,775,063
Tax year 9	5.91%	2,260,235	23,566,107	1,130,118	30,905,181
Tax year 10	5.90%	2,256,411	25,822,520	1,128,205	32,033,386
Tax year 11	5.91%	2,260,235	28,082,755	1,130,118	33,163,504
Tax year 12	5.90%	2,256,411	30,339,166	1,128,205	34,291,709
Tax year 13	5.91%	2,260,235	32,599,401	1,130,118	35,421,827
Tax year 14	5.90%	2,256,411	34,855,812	1,128,205	36,550,033
Tax year 15	5.91%	2,260,235	37,116,048	1,130,118	37,680,150
Tax year 16	2.95%	1,128,205	38,244,253	564,103	38,244,253
Total	100.00%	38,244,253		38,244,253	

		Year 1	Year 2	Year 3
Accumulated depreciation				
Portion of year in service before rider	17%			
Pre-rider amount of depreciation	94,272			
Rider year BOY amount		94,272	648,814	1,203,355
Depreciation expense		554,542	554,542	554,542
Rider year EOY amount		648,814	1,203,355	1,757,897
Average accumulated depreciation		371,543	926,085	1,480,626

BONUS 50%		Year 1	Year 2	Year 3
Tax depreciation reserve				
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	23,780,065
Tax period A tax depreciation		1,507,780	1,357,002	1,222,095
Tax period B tax depreciation		277,940	250,309	225,278
Rider year EOY amount		22,172,775	23,780,065	25,227,438
Average tax depreciation reserve		21,279,915	22,976,420	24,503,752

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

Accumulated deferred taxes	Year 1	Year 2	Year 3
Average tax depreciation reserve	21,279,915	22,976,420	24,503,752
Average book depreciation reserve	371,543	926,085	1,480,626
Difference	20,908,372	22,050,346	23,023,145
Tax difference balance	20,908,372	20,908,372	20,908,372
Composite tax rate w 35% FIT rate	39.23%	39.23%	39.23%
Incremental tax difference beginning Year 2	-	1,141,973.39	2,114,773.34
Composite tax rate w 21% FIT rate	0.00%	26.14%	26.14%
Average ADIT	8,201,309	8,649,248	9,030,829

Piedmont Natural Gas Company, Inc
Integrity Management Rider
State of Tennessee
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Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2020 - December 31, 2020

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

	Year 1	Year 2
Plant	27,564,238	27,564,238
Accumulated depreciation	(267,787)	(667,468)
Net plant	27,296,452	26,896,770
ADIT	(742,922)	(1,277,596)
NOL benefit	-	-
Net investment	26,553,530	25,619,174
Pre-tax ROR%	9.875%	9.875%
Pre-tax rate of return	2,622,946	2,530,653
Depreciation expense	399,681	399,681
Property Tax expense	201,219	201,219
Total, excluding uncollectibles	3,223,846	3,131,551
Uncollectibles gross-up factor	1.000308	1.000308
Total revenue requirement	3,224,839	3,132,515

Assumptions and calculations
Rider computed each year
Normal depreciation and AFUDC practices apply, AFUDC ends and depreciation begins when plant goes into service

	Year 1	Year 2
Net of tax rate of return	7.30%	7.30%

		Year 1	Year 2
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%
FIT rate		21.00%	21.00%
Composite income tax rate		26.14%	26.14%
Uncollectibles rate		0.0308%	0.0308%
Revenue requirement gross-up factor		1.000308	1.000308
Capital structure assumptions (rate case):			
LTD	41.42%		
STD	5.87%		
Common equity	52.71%		
Capital cost rate assumptions (rate case):			
LTD	6.05%		
STD	1.59%		
Common equity	10.20%		
Overall and pre-tax RORs			
	Overall	Pre-tax RORs	
LTD	2.506%	2.506%	2.506%
STD	0.093%	0.093%	0.093%
Common equity	5.376%	7.279%	7.279%
Total	7.975%	9.875%	9.875%

MACRS 15 tax depreciation schedule

		MACRS 15	
	Rate	Yearly	Cumulative
Tax year 1	5.00%	1,378,212	
Tax year 2	9.50%	2,618,603	3,996,815
Tax year 3	8.55%	2,356,742	6,353,557
Tax year 4	7.70%	2,122,446	8,476,003
Tax year 5	6.93%	1,910,202	10,386,205
Tax year 6	6.23%	1,717,252	12,103,457
Tax year 7	5.90%	1,626,290	13,729,747
Tax year 8	5.90%	1,626,290	15,356,037
Tax year 9	5.91%	1,629,046	16,985,084
Tax year 10	5.90%	1,626,290	18,611,374
Tax year 11	5.91%	1,629,046	20,240,420
Tax year 12	5.90%	1,626,290	21,866,710
Tax year 13	5.91%	1,629,046	23,495,757
Tax year 14	5.90%	1,626,290	25,122,047
Tax year 15	5.91%	1,629,046	26,751,093
Tax year 16	2.95%	813,145	27,564,238
Total	100.00%	27,564,238	

		Year 1	Year 2
Accumulated depreciation			
Portion of year in service before rider	17%		
Pre-rider amount of depreciation	67,946		
Rider year BOY amount		67,946	467,627
Depreciation expense		399,681	399,681
Rider year EOY amount		467,627	867,309
Average accumulated depreciation		267,787	667,468

MACRS 15

		Year 1	Year 2
Tax depreciation reserve			
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
Tax period A tax depreciation		2,173,440	1,956,096
Tax period B tax depreciation		400,646	360,816
Rider year EOY amount		4,397,461	6,714,373
Average tax depreciation reserve		3,110,418	5,555,917

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

	Year 1	Year 2
Accumulated deferred taxes		
Average tax depreciation reserve	3,110,418	5,555,917
Average book depreciation reserve	267,787	667,468
Difference	2,842,631	4,888,449
Composite tax rate	26.14%	26.14%
Average ADIT	742,922	1,277,596

Note - composite tax rate ignores excess deferred tax flowback

Piedmont Natural Gas Company, Inc
Integrity Management Rider
State of Tennessee
TPUC Docket No. 19-00107

Annual Revenue Requirement Computation
Rider Rate Period: January 1, 2020 - December 31, 2020

Vintage Year 2 - November 1, 2018 thru October 31, 2019

	Year 1
Plant	38,032,924
Accumulated depreciation	(369,490)
Net plant	37,663,434
ADIT	(1,025,078)
NOL benefit	-
Net investment	36,638,356
Pre-tax ROR%	9.878%
Pre-tax rate of return	3,619,130
Depreciation expense	551,477
Property Tax expense	277,640
Total, excluding uncollectibles	4,448,238
Uncollectibles gross up factor	1.000306
Total revenue requirement	4,449,608

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 7.30%

		Year 1
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%
FIT rate		21.00%
Composite income tax rate		26.14%
Uncollectibles rate		0.0306%
Revenue requirement gross-up factor		1.000306
Capital structure assumptions (rate case):		
LTD	41.42%	
STD	5.87%	
Common equity	52.71%	
Capital cost rate assumptions (rate case):		
LTD	6.05%	
STD	1.59%	
Common equity	10.20%	
Overall and pre-tax RORs		
	Overall	Pre-tax RORs
LTD	2.506%	2.506%
STD	0.093%	0.093%
Common equity	5.376%	7.279%
Total	7.976%	9.878%

MACRS 15 tax depreciation schedule

		MACRS 15	
	Rate	Yearly	Cumulative
Tax year 1	5.00%	1,901,646	
Tax year 2	9.50%	3,613,128	5,514,774
Tax year 3	8.55%	3,251,815	8,766,589
Tax year 4	7.70%	2,928,535	11,695,124
Tax year 5	6.93%	2,635,682	14,330,806
Tax year 6	6.23%	2,369,451	16,700,257
Tax year 7	5.90%	2,243,942	18,944,199
Tax year 8	5.90%	2,243,942	21,188,142
Tax year 9	5.91%	2,247,746	23,435,888
Tax year 10	5.90%	2,243,942	25,679,830
Tax year 11	5.91%	2,247,746	27,927,576
Tax year 12	5.90%	2,243,942	30,171,518
Tax year 13	5.91%	2,247,746	32,419,264
Tax year 14	5.90%	2,243,942	34,663,207
Tax year 15	5.91%	2,247,746	36,910,952
Tax year 16	2.95%	1,121,971	38,032,924
Total	100.00%	38,032,924	

		Year 1
Accumulated depreciation		
Portion of year in service before rider	17%	
Pre-rider amount of depreciation	93,751	
Rider year BOY amount		93,751
Depreciation expense		551,477
Rider year EOY amount		645,229
Average accumulated depreciation		369,490

MACRS 15

		Year 1
Tax depreciation reserve		
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
Tax period A tax depreciation		2,998,896
Tax period B tax depreciation		552,809
Rider year EOY amount		6,067,582
Average tax depreciation reserve		4,291,730

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

	Year 1
Accumulated deferred taxes	
Average tax depreciation reserve	4,291,730
Average book depreciation reserve	369,490
Difference	3,922,240
Composite tax rate	26.14%
Average ADIT	1,025,078

Note - composite tax rate ignores excess deferred tax flowback

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
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Revised 2019 IMR Annual Report
Schedule 13

Tennessee Allocated NOL Carryforward As of November 30, 2019

Line No.				Line Computation
1	2013	Taxable Income	(20,072,959)	
2		Allocated NOL	-	
3	2014	Taxable Income	(70,327,409)	
4		Allocated NOL	-	
5	2015	Taxable Income	35,741,137	
6		Allocated NOL	-	
7	2016	Taxable Income	(7,598,842)	
8		Allocated NOL	(5,732,766)	
9	TN Allocated NOL Carryforward		(5,732,766)	Line 9 = Lines 2 + 4 + 6 + 8
10	Federal Tax Rate for NOL Carryforward		0.35	
11	TN Tax Benefit of NOL Carryforward		(2,006,468)	Line 11 = Line 9 x Line 10
12	Deferred Taxes - @21%		(1,203,881)	
13	Excesss Deferred Taxes - @14%		(802,587)	
14	TN Tax Benefit of NOL Carryforward - @35%		(2,006,468)	

Schedule of Prior Period Adjustments

None

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.

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
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Revised 2019 IMR Annual Report
Schedule 16

See attached CONFIDENTIAL Duke Energy Regulated Electric & Gas Capitalization Guidelines dated 1/1/2019.

Piedmont Natural Gas Company, Inc.
Integrity Management Rider
State of Tennessee
TPUC Docket No. 19-00107

Revised 2019 IMR Annual Report
Schedule 17

Pipeline Safety Metrics - Tennessee Service Territory

Response Time to Emergency Calls on Natural Gas Leaks / Odor
Average emergency response time for the period 11/1/2018 thru 10/31/2019 = 34 minutes

Age of Natural Gas Leaks
Average age of leaks for the period 11/1/2018 thru 10/31/2019 = 110.72 days

Number of Natural Gas Leaks by Grade
Number of leaks for the period 11/1/2018 thru 10/31/2019 by PHMSA category: Grade 1 = 400; Grade 2 = 379; Grade 3 = 2169

Projected Integrity Management Rider Investment by Category

Capital Project Cost Information as reported to the Tennessee Public Utility Commission, Chief of Utilities Division by letter dated March 29, 2019

IMR Project Categories	Projected FY2019
Transmission Integrity	$ 26,200,896
Distribution Integrity	9,046,807
Casing and Remediation	1,401,539
Corrosion Control	1,245,622
Total	**$ 37,894,863**

Piedmont Natural Gas Company, Inc
Integrity Management Rider
State of Tennessee
TPUC Docket No. 19-00107

Projected Integrity Management Rider Investment by Project
Capital Project Cost information as reported to the Tennessee Public Utility Commission, Chief of Utilities Division by letter dated March 29, 2019

Project Category	Funding Project Number	Project Name	Projected FY2019	Description	Driver of Work/Necessity	Location (Area of Nashville)
Individual IMR Projects Over $100,000						
Transmission Integrity	FP1734394	Line 431 Ph II & Rels Dist Line 310	13,554,307	Installation of approximately 4.5 miles of 20" transmission pipe adjacent to existing line 310 from Holts holder going south	Integrity Management Identified Risk	Bordeaux
Transmission Integrity	FP1734120	Line 311 Replacement (431)	10,694,972	Construct and install approximately 2.5 - 3 miles of 16" high pressure, large diameter distribution pipeline from County Hospital Station to near the Bordeaux Station to replace line 311. Construct a new regulator station at the new terminus of line 311	Integrity Management Identified Risk	Bordeaux
Transmission Integrity	FP1734142	Line 308 Replacement	1,658,264	Install ~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	Nashville
Distribution Integrity	FP1734695	Spence Lane	1,456,412	Install 5000' of 12" due to Operational history	Integrity Management Identified Risk	Downtown
Distribution Integrity	FP1734694	Forrest St	1,261,977	Renewing 4" steel main on Forrest St. with 6" steel due to corrosion issues. Approximately 5000 ft from S. Main St. to Veterans Dr	Integrity Management Identified Risk	Ashland City, TN
Distribution Integrity	F0224311	Hermitage Pressure Reduction	1,043,871	Install 6500 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/remov regulator stations. Reduce pressure of separated distribution main	Integrity Management Identified Risk	Hermitage
Distribution Integrity	F0222865	Post Place Retirement and Pressure	901,146	Cut and cap 4" HPS on Sloan Road from 8". Cut and cap 4" HPS just north of Wilsona 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 seperates pressure	Integrity Management Identified Risk	West Nashville
Corrosion Control	F0224380	2019 Nashville Bridge New Coating	740,678	Install new hangers and rollers, and apply new coating systems on 17 bridges.	Integrity Management Identified Risk	Nashville
Distribution Integrity	FP1734726	Cowan St HP Distribution Pipeline	693,283	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 D-MP replacement of 12", 175# Distribution Main. This will be the first phase of the development	Integrity Management Identified Risk	Downtown
Distribution Integrity	F0224345	4934 Whites Creek Pt	586,894	Install 1150 linear feet of 10" steel main (75 psig MAOP) under the Earthman Fork of Whites Creek. Install in a new easement adjacent to the existing to ensure adequate distance is maintained from transmission lines during HDD. Retire replaced 10" crossing	Integrity Management Identified Risk	Whites Creek, TN
Distribution Integrity	F0222727	Brick Church Pk to West Trinity Ln	534,079	Install 1050' of 2" steel on Brick Church Pike and also retire 1050' of 2" 1950 era pipe. Install 500' of 2" steel on Artic and retire 500' of 2" 1950 era pipe. Retire post regulator at Pages Branch that comes of 12" 175# line. Retire post regulator on Bapist World Center. Install 1250' of 2" steel on Brick Church Pk and also retire 1250' of 2" 1950 era pipe. Install 1300' of 2" steel on Fern ave and retire 1300' of 2" steel. Install 200' of steel on Weakley and tie in on low side of regulator Bapist World Center and 12" easement	Integrity Management Identified Risk	Downtown
Distribution Integrity	FP1734707	Brick Church Pk West Trinity Lane	476,643	Install 1800' of 12" due to Operational history	Integrity Management Identified Risk	Bellshire
Distribution Integrity	F0224337	Van Buren Main Replacement	457,420	Install 2700 linear feet of 2" plastic main (75 psig MAOP) Taylor St, 5th Ave N, and Van Buren St in accordance with PNG design standards. Retire replaced 4" steel section accordance with PNG abandonment procedures. Disconnect the 14" 175 psig system from the 60 psig system at the existing valve location.	Integrity Management Identified Risk	Downtown
Corrosion Control	FP1734718	Nashville Galvanic Anode	436,645	Install galvanic anode beds in new locations where old ones have depleted	Integrity Management Identified Risk	Nashville
Distribution Integrity	F0224351	39th Ave N. Main Replacement	314,026	Replace 1,700 feet 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	Downtown
Transmission Integrity	F0226414	Line 304 Convert Distribution	293,353	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	Nashville
Distribution Integrity	F0224339	Greenbrier Main Replacement	230,176	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	FP1734427	Grinstead Place	201,285	Install 2400' 2" MDPE to replace 19 farm taps and 1 district regulator station along Grinstead Place and Joyce Lane	Integrity Management Identified Risk	East Nashville
Casing and Remediation	FP1734397	Casing #2760 Trinity Lane Station	197,511	Trinity Lane Station @ South Side Fence	Integrity Management Identified Risk	Nashville
Casing and Remediation	FP1734396	Casing #2757 Nesbitt Lane @ 33 Xin	197,511	Nesbitt Lane @ 33 Xing West of Gallatin Rd	Integrity Management Identified Risk	Madison
Distribution Integrity	F0224365	Mason Ave & Deal Ave Main Repl	177,669	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
Casing and Remediation	FP1734401	Casing #2778 Tallwood Dr. Across B	169,356	109' Casing Tallwood Dr. across Briley Parkway	Integrity Management Identified Risk	Nashville
Distribution Integrity	F0225698	Centennial Blvd Main Replacement	155,899	Install 800 feet of 8" MDPE to replace 800 feet of 6" High Pressure Distribution (175 psig MAOP) main from 44th Avenue N to Stauffer Regulator Station. Remove 6" valve in vault that has corrosion problems. Install new valve at 44th Avenue N. Retire Stauffer Regulator Station. Build new regulator station at proposed location	Integrity Management Identified Risk	Downtown
Distribution Integrity	F0224357	Patton Ave	154,453	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	FP1734428	Broadmoor Drive	129,547	Lay 3200' 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	FP1734426	James Ave Station at 63rd Ave N	109,797	Relocate existing James Ave Regulator station out of flood area.	Integrity Management Identified Risk	West Nashville

Sub-total of Individual IMR Projects Over $100,000	***36,827,172***
Remaining IMR expenditures by category:	
Casing and Remediation	837,160
Distribution Integrity	162,232
Corrosion Control	68,298
Grand Total	**$ 37,894,863**