

Attachment 10
VEPCo Formula Rate for January 1, 2021 to December 31, 2021

Virginia Electric and Power Company
ATTACHMENT H-16A

FERC Form 1 Page # or

2021

Formula Rate -- Appendix A

Notes

Instruction (Note H)

Shaded cells are input cells

(000's)

Allocators

Wages & Salary Allocation Factor				
1	Transmission Wages Expense		p354.21b/ Attachment 5	\$ 57,278
2	Less Generator Step-ups		Attachment 5	8
3	Net Transmission Wage Expenses		(Line 1 - 2)	57,270
4	Total Wages Expense		p354.28b/Attachment 5	672,544
5	Less A&G Wages Expense		p354.27b/Attachment 5	107,613
6	Total		(Line 4 - 5)	\$ 564,931

7	Wages & Salary Allocator	(Note B)	(Line 3 / 6)	10.1376%
----------	-------------------------------------	----------	--------------	-----------------

Plant Allocation Factors				
8	Electric Plant In Service	(Notes A & Q)	p207.104.g/Attachment 5	\$ 47,560,740
9	Common Plant In Service - Electric		(Line 26)	0
10	Total Plant In Service		(Sum Lines 8 & 9)	47,560,740
11	Accumulated Depreciation (Total Electric Plant)	(Notes A & Q)	(Line 15 - 14 - 13 - 12)	18,163,130
12	Accumulated Intangible Amortization	(Notes A & Q)	p200.21c/Attachment 5	162,369
13	Accumulated Common Amortization - Electric	(Notes A & Q)	p356/Attachment 5	0
14	Accumulated Common Plant Depreciation - Electric	(Notes A & Q)	p356/Attachment 5	0
15	Total Accumulated Depreciation		p219.29c/Attachment 5	18,325,499
16	Net Plant		(Line 10 - 15)	29,235,241
17	Transmission Gross Plant		(Line 31 - 30)	10,799,858
18	Gross Plant Allocator	(Note B)	(Line 17 / 10)	22.7075%
19	Transmission Net Plant		(Line 44 - 30)	\$ 8,732,806
20	Net Plant Allocator	(Note B)	(Line 19 / 16)	29.8708%

Plant Calculations

Plant In Service				
21	Transmission Plant In Service	(Notes A & Q)	p207.58.g/Attachment 5	\$ 11,275,427
22	Less: Generator Step-ups	(Notes A & Q)	Attachment 5	418,430
23	Less: Interconnect Facilities Installed After March 15, 2000	(Notes A & Q)	Attachment 5	170,113
24	Total Transmission Plant In Service		(Lines 21 - 22 - 23)	10,886,885
25	General & Intangible	(Notes A & Q)	p205.5.g + p207.99.g/Attachment 5	1,114,402
26	Common Plant (Electric Only)		p356/Attachment 5	0
27	Total General & Common		(Line 25 + 26)	1,114,402
28	Wage & Salary Allocation Factor		(Line 7)	10.1376%
29	General & Common Plant Allocated to Transmission		(Line 27 * 28)	\$ 112,973
30	Plant Held for Future Use (Including Land)	(Notes C & Q)	p214.47.d/Attachment 5	\$ 6,496
31	TOTAL Plant In Service		(Line 24 + 29 + 30)	\$ 10,806,354

Accumulated Depreciation				
32	Transmission Accumulated Depreciation	(Notes A & Q)	p219.25.c/Attachment 5	\$ 2,184,559
33	Less Accumulated Depreciation for Generator Step-ups	(Notes A & Q)	Attachment 5	136,207
34	Less Accumulated Depreciation for Interconnect Facilities Installed After March 15, 2000	(Notes A & Q)	Attachment 5	34,673
35	Total Accumulated Depreciation for Transmission		(Line 32 - 33 - 34)	2,013,679
36	Accumulated General Depreciation	(Notes A & Q)	p219.28.b/Attachment 5	364,112
37	Accumulated Intangible Amortization	(Notes A & Q)	(Line 12)	162,369
38	Accumulated Common Amortization - Electric		(Line 13)	0
39	Common Plant Accumulated Depreciation (Electric Only)		(Line 14)	0
40	Total Accumulated Depreciation		(Sum Lines 36 to 39)	526,481
41	Wage & Salary Allocation Factor		(Line 7)	10.1376%
42	General & Common Allocated to Transmission		(Line 40 * 41)	53,372

43	TOTAL Accumulated Depreciation		(Line 35 + 42)	\$ 2,067,052
-----------	---------------------------------------	--	----------------	---------------------

44	TOTAL Net Property, Plant & Equipment		(Line 31 - 43)	\$ 8,739,302
-----------	--	--	----------------	---------------------

Virginia Electric and Power Company
ATTACHMENT H-16A

FERC Form 1 Page # or

2021

Formula Rate -- Appendix A

Notes

Instruction (Note H)

Adjustment To Rate Base

Accumulated Deferred Income Taxes			
45	Average Balance	(Note U)	Attachment 1
45A	Accumulated Deferred Income Taxes Attributable To Acquisition Adjustments		Attachment 5
46	Accumulated Deferred Income Taxes Allocated To Transmission		(Line 45 + 45A)
			\$ (1,070,592)
			\$ (495)
			\$ (1,071,087)
Transmission O&M Reserves			
47	Total Balance Transmission Related Account 242 Reserves	Enter Negative	Attachment 5
			\$ (28,694)
Unamortized Excess/Deficient Deferred Income Taxes			
47A	Unamortized Exc/Def Deferral		Attachment 5
			\$ (525,121)
Prepayments			
48	Prepayments	(Notes A & R)	Attachment 5
49	Total Prepayments Allocated to Transmission		(Line 48)
			\$ 2,394
			\$ 2,394
Materials and Supplies			
50	Undistributed Stores Exp	(Notes A & R)	Attachment 5
51	Wage & Salary Allocation Factor		(Line 7)
52	Total Transmission Allocated Materials and Supplies		(Line 50 * 51)
53	Transmission Materials & Supplies	(Note A)	Attachment 5
54	Total Materials & Supplies Allocated to Transmission		(Line 52 + 53)
			\$ -
			10,137.6%
			0
			22,542
			\$ 22,542
Cash Working Capital			
55	Transmission Operation & Maintenance Expense		(Line 85)
56	1/8th Rule		x 1/8
57	Total Cash Working Capital Allocated to Transmission		(Line 55 * 56)
			\$ 147,200
			12.5%
			\$ 18,400
Network Credits			
58	Outstanding Network Credits	(Note N)	Attachment 5 / From PJM
59	Less Accumulated Depreciation Associated with Facilities with Outstanding Network Credits	(Note N)	Attachment 5 / From PJM
60	Net Outstanding Credits		(Line 58 - 59)
			0
			0
			0
Electric Plant Acquisition Adjustments Approved by FERC			
60A	Acquisition Adjustments Amount		Attachment 5
60B	Accumulated Provision for Amortization of Line 60A Amount		Attachment 5
60C	Transmission Plant Unamortized Acquisition Adjustments Amount		(Line 60A - 60B)
			\$ 8,804
			802
			\$ 8,002
61	TOTAL Adjustment to Rate Base		(Line 46 + 47 + 47A + 49 + 54 + 57 - 60 + 60C)
			\$ (1,573,563)
62	Rate Base		(Line 44 + 61)
			\$ 7,165,739
O&M			
Transmission O&M			
63	Transmission O&M		p321.112.b/Attachment 5
64	Less GSU Maintenance		Attachment 5
65	Less Account 565 - Transmission by Others		p321.96.b/Attachment 5
66	Plus Schedule 12 Charges billed to Transmission Owner and booked to Account 565	(Note O)	PJM Data
67	Transmission O&M		(Lines 63 - 64 + 65 + 66)
			\$ 88,998
			29
			(23,520)
			\$ -
			\$ 112,489
Allocated General & Common Expenses			
68	Common Plant O&M	(Note A)	p356
69	Total A&G		Attachment 5
70	Less Property Insurance Account 924		p323.185b
71	Less Regulatory Commission Exp Account 928	(Note E)	p323.189b/Attachment 5
72	Less General Advertising Exp Account 930.1		p323.911b/Attachment 5
73	Less EPRI Dues	(Note D)	p352-353/Attachment 5
74	General & Common Expenses		(Lines 68 + 69) - Sum (70 to 73)
75	Wage & Salary Allocation Factor		(Line 7)
76	General & Common Expenses Allocated to Transmission		(Line 74 * 75)
			\$ -
			376,972
			1,784
			35,331
			2,019
			4,864
			\$ 332,974
			10,137.6%
			\$ 33,755
Directly Assigned A&G			
77	Regulatory Commission Exp Account 928	(Note G)	p323.189b/Attachment 5
78	General Advertising Exp Account 930.1	(Note K)	p323.191b
79	Subtotal - Transmission Related		(Line 77 + 78)
			\$ 422
			0
			422
80	Property Insurance Account 924		p323.185b
81	General Advertising Exp Account 930.1	(Note F)	Attachment 5
82	Total		(Line 80 + 81)
83	Net Plant Allocation Factor		(Line 20)
84	A&G Directly Assigned to Transmission		(Line 82 * 83)
			\$ 1,784
			0
			1,784
			29.8708%
			\$ 533
85	Total Transmission O&M		(Line 67 + 76 + 79 + 84)
			\$ 147,200

Virginia Electric and Power Company
ATTACHMENT H-16A

FERC Form 1 Page # or

2021

Formula Rate -- Appendix A

Notes

Instruction (Note H)

Depreciation & Amortization Expense

Depreciation Expense				
86	Transmission Depreciation Expense	(Notes A and S)	p336.7b&c/Attachment 5	\$ 282,946
87	Less: GSU Depreciation		Attachment 5	12,775
88	Less Interconnect Facilities Depreciation		Attachment 5	5,194
89	Extraordinary Property Loss		Attachment 5	0
90	Total Transmission Depreciation		(Line 86 - 87 - 88 + 89)	264,976
90A	Amortization of Acquisition Adjustments		Attachment 5	205
91	General Depreciation	(Note A)	p336.10b&c&d/Attachment 5	32,086
92	Intangible Amortization	(Note A)	p336.1d&e/Attachment 5	34,126
93	Total		(Line 91 + 92)	66,212
94	Wage & Salary Allocation Factor		(Line 7)	10.1376%
95	General and Intangible Depreciation Allocated to Transmission		(Line 93 * 94)	6,712
96	Common Depreciation - Electric Only	(Note A)	p336.11.b	0
97	Common Amortization - Electric Only	(Note A)	p356 or p336.11d	0
98	Total		(Line 96 + 97)	0
99	Wage & Salary Allocation Factor		(Line 7)	10.1376%
100	Common Depreciation - Electric Only Allocated to Transmission		(Line 98 * 99)	0
101	Total Transmission Depreciation & Amortization		(Line 90 + 90A + 95 + 100)	\$ 271,893

Taxes Other than Income

102	Taxes Other than Income		Attachment 2	\$ 76,846
103	Total Taxes Other than Income		(Line 102)	\$ 76,846

Return / Capitalization Calculations

Long Term Interest				
104	Long Term Interest	(Note T)	p117.62c through 67c/Attachment 5	\$ 522,820
105	Less LTD Interest on Securitization Bonds	(Note P)	Attachment 8	0
106	Long Term Interest		(Line 104 - 105)	\$ 522,820
107	Preferred Dividends	(Note T), enter positive	p118.29c	\$ -
Common Stock				
108	Proprietary Capital		p112.16c,d/2	\$ 13,517,390
109	Less Preferred Stock	(Note T), enter negative	(Line 117)	0
110	Less Account 219 - Accumulated Other Comprehensive Income	(Note T), enter negative	p112.15c,d/2	\$ 20,478
111	Common Stock		(Sum Lines 108 to 110)	\$ 13,537,868
Capitalization				
112	Long Term Debt		p112.24c,d/2	\$ 12,077,526
113	Less Loss on Reacquired Debt	(Note T), enter negative	p111.81c,d/2	\$ (492)
114	Plus Gain on Reacquired Debt	(Note T), enter positive	p113.61c,d/2	\$ 3,095
115	Less LTD on Securitization Bonds	(Note P)	Attachment 8	0
116	Total Long Term Debt		(Sum Lines 112 to 115)	12,080,129
117	Preferred Stock	(Note T), enter positive	p112.3c,d/2	0
118	Common Stock		(Line 111)	13,537,868
119	Total Capitalization		(Sum Lines 116 to 118)	\$ 25,617,996
120	Debt %	Total Long Term Debt	(Line 116 / 119)	47.2%
121	Preferred %	Preferred Stock	(Line 117 / 119)	0.0%
122	Common %	Common Stock	(Line 118 / 119)	52.8%
123	Debt Cost	Total Long Term Debt	(Line 106 / 116)	0.0433
124	Preferred Cost	Preferred Stock	(Line 107 / 117)	0.0000
125	Common Cost	Common Stock	(Note J) Fixed	0.1140
126	Weighted Cost of Debt	Total Long Term Debt (WCLTD)	(Line 120 * 123)	0.0204
127	Weighted Cost of Preferred	Preferred Stock	(Line 121 * 124)	0.0000
128	Weighted Cost of Common	Common Stock	(Line 122 * 125)	0.0602
129	Total Return (R)		(Sum Lines 126 to 128)	0.0807
130	Investment Return = Rate Base * Rate of Return		(Line 62 * 129)	577,929

Virginia Electric and Power Company
ATTACHMENT H-16A

FERC Form 1 Page # or

2021

Formula Rate -- Appendix A

Notes

Instruction (Note H)

Composite Income Taxes

Income Tax Rates				
131	FIT=Federal Income Tax Rate	Attachment 5		21.00%
132	SIT=State Income Tax Rate or Composite	(Note I)	Attachment 5	5.85%
133	p	(percent of federal income tax deductible for state purposes)	Per State Tax Code	0.00%
134	T	$T=1 - \{[(1 - SIT) * (1 - FIT)] / (1 - SIT * FIT * p)\} =$		25.62%
135	T/ (1-T)			34.45%
Transmission Related Income Tax Adjustments				
136	Amortized Investment Tax Credit (ITC)	(Note I) enter negative	Attachment 1	\$ (128)
136A	Other Income Tax Adjustments		Attachment 5	\$ (1,463)
137	T/(1-T)		(Line 135)	34.45%
138	Transmission Income Taxes - Income Tax Adjustments		((Line 136 + 136A) * (1 + Line 137))	\$ (2,140)
139	Transmission Income Taxes - Equity Return =	CIT=(T/(1-T) * Investment Return * (1-(WCLTD/R)) =	[Line 135 * 130 * (1-(126 / 129))]	148,722
140	Total Transmission Income Taxes		(Line 138 + 139)	146,582
REVENUE REQUIREMENT				
Summary				
141	Net Property, Plant & Equipment	(Line 44)	\$	8,739,302
142	Adjustment to Rate Base	(Line 61)		(1,573,563)
143	Rate Base	(Line 62)	\$	7,165,739
144	O&M	(Line 85)		147,200
145	Depreciation & Amortization	(Line 101)		271,893
146	Taxes Other than Income	(Line 103)		76,846
147	Investment Return	(Line 130)		577,929
148	Income Taxes	(Line 140)		146,582
149				
150	Revenue Requirement	(Sum Lines 144 to 149)	\$	1,220,450
Acquisition Adjustments Revenue Requirement				
150A	Acquisition Adjustments Return	Line 129 * (60C + 45A)	\$	605
150B	Acquisition Adjustments Income Taxes	[Line 135 * 150A * (1- (126 / 129))]		156
150C	Amortization of Acquisition Adjustments	(Line 90A)		205
150D	Acquisition Adjustments Revenue Requirement	(Line 150A + 150B + 150C)	\$	966
Net Plant Carrying Charge				
151	Revenue Requirement excluding Acquisition Adjustments Revenue Requirement	(Line 150 - 150D)	\$	1,219,484
152	Net Transmission Plant	(Line 24 - 35)		8,673,205
153	Net Plant Carrying Charge without Acquisition Adjustments	(Line 151 / 152)		14.0604%
154	Net Plant Carrying Charge without Acquisition Adjustments and Depreciation	(Line 151 - 86) / 152		10.7981%
155	Net Plant Carrying Charge without Acquisition Adjustments, Depreciation, Return or Income Taxes	(Line 150 - 86 - 90A - 130 - 140) / 152		2.4534%
Net Plant Carrying Charge Calculation with 100 Basis Point increase in ROE				
156	Gross Revenue Requirement Less Return, Income Taxes, and Amortization of Acquisition Adjustments	(Line 150 - 147 - 148 - 90A)	\$	495,734
157	Increased Return and Taxes	Attachment 4		774,610
158	Net Revenue Requirement excluding Acquisition Adjustments Rev. Req. with 100 Basis Point increase in ROE	(Line 156 + 157)		1,270,343
159	Net Transmission Plant	(Line 152)		8,673,205
160	Net Plant Carrying Charge with 100 Basis Point increase in ROE without Acquisition Adjustments	(Line 158 / 159)		14.6468%
161	Net Plant Carrying Charge with 100 Basis Point increase in ROE without Acquisition Adjustments and Depreciation	(Line 158 - 86) / 159		11.3845%
162	Revenue Requirement	(Line 150)	\$	1,220,450
163	True-up Adjustment	Attachment 6		50,319
164	Plus any increased ROE calculated on Attachment 7 other than PJM Schedule 12 projects.	Attachment 7		2,062
165	Facility Credits under Section 30.9 of the PJM OATT.	Attachment 5		3,212
166	Revenue Credits	Attachment 3		(29,772)
167	Interest on Network Credits	PJM data		0
168	Annual Transmission Revenue Requirement (ATRR)	(Line 162 + 163 +164 + 165 + 166 + 167)	\$	1,246,271
Rate for Network Integration Transmission Service				
169	1 CP Peak	(Note L)	PJM Data	20,086.5
170	Rate (\$/MW-Year)		(Line 168 / 169)	62,045.12
171	Rate for Network Integration Transmission Service (\$/MW/Year)		(Line 170)	62,045.12

Virginia Electric and Power Company
ATTACHMENT H-16A

FERC Form 1 Page # or

2021

Formula Rate -- Appendix A

Notes

Instruction (Note H)

Notes

- A Electric portion only - VEPCO does not have Common Plant.
- B Excludes amounts for Generator Step-ups and Interconnection Facilities, when appropriate.
- C Includes Transmission portion only.
- D Excludes all EPRI Annual Membership Dues.
- E Includes all regulatory commission expenses.
- F Includes all safety related advertising included in Account 930.1.
- G Includes all regulatory commission expenses directly related to transmission service, RTO filings, or transmission siting itemized in Form 1 at 351.h.
- H The Form 1 reference indicates only the end-of-year balance used to derive the amount beside the reference. Each plant balance with a Form 1 reference will include the Form 1 balance in an average of the 13 month balances for the year. Each non-plant balance included in rate base with a Form 1 reference will include Form 1 balances in the calculation of the average of the beginning and end of year balances for the year. See notes Q and R below.
- I The currently effective income tax rate, where FIT is the Federal income tax rate; SIT is the State income tax rate, and p = the percentage of federal income tax deductible for state income taxes. If the utility includes taxes in more than one state, it must explain in Attachment 5 the name of each state and how the blended or composite SIT was developed. Furthermore, a utility that elected to use amortization of tax credits against taxable income, rather than book tax credits to Account No. 255 and reduce rate base, must reduce its income tax expense by the amount of the Amortized Investment Tax Credit (Form 1, 266.8.f) multiplied by (1/1-T). A utility must not include tax credits as a reduction to rate base and as an amortization against taxable income.
- J Per FERC order in Docket No. ER08-92, the ROE is 11.4%, which includes a 50 basis point RTO membership adder as authorized by FERC to become effective January 1, 2008. Per FERC order in Docket No. _____, the ROE for each specific project identified in that order will also include either an 150 or 125 basis point transmission incentive adder as authorized by the Commission.
- K Education and outreach expenses relating to transmission, for example siting or billing.
- L As provided for in Section 34.1 of the PJM OATT.
- M Amount of transmission plant excluded from rates per Attachment 5.
- N Outstanding Network Credits is the balance of Network Facilities Upgrades Credits due Transmission Customers who have made lump-sum payments (net of accumulated depreciation) toward the construction of Network Transmission Facilities consistent with Paragraph 657 of Order 2003-A. Interest on the Network Credits as booked each year is added to the revenue requirement on Line 167.
- O Payments made under Schedule 12 of the PJM OATT that are not directly assessed to load in the Zone under Schedule 12 are included in Transmission O&M. If they are booked to Acct 565, they are included on Line 66.
- P Securitization bonds may be included in the capital structure.
- Q Calculated using 13 month average balance. Only beginning and end of year balances are from Form 1.
- R Calculated using average of beginning and end of year balances. Beginning and end of year balances are from Form 1.
- S The depreciation rates are included in Attachment 9.
- T For the initial formula rate calculation, the projected capital structure shall reflect the capital structure from the 2006 FERC Form No. 1 data. For all other formula rate calculations, the projected capital structure and actual capital structure shall reflect the capital structure from the most recent FERC Form No. 1 data available.
- U ADIT amounts included on Line 45A are not to be included on Line 45 or in the underlying attachments in which the Line 45 amount is computed.

Virginia Electric and Power Company
Attachment 1 - Accumulated Deferred Income Tax (ADIT) Worksheet - December 31 of the Current Year
(In Thousands)

Current Year: **2021**

Wage and Salary Allocator from Line 7 of Appendix A for the Current Year
Gross Plant Allocator from Line 18 of Appendix A for the Current Year

10.1376%
22.7075%

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
Line		Account 190	Account 282	Account 283	Total	Transmission		Transmission Total
						Allocation / Assignment Method	Allocation / Assignment %	
ADIT - Liberalized Depreciation (Amounts Including Adjustments)								
1	Liberalized Depreciation - Transmission		\$ (949,902)		(949,902)	Assigned	100.0000%	(949,902)
2	Liberalized Depreciation - General Plant		\$ (39,252)		(39,252)	Wages & Salaries	10.1376%	(3,979)
3	Liberalized Depreciation - Computer Software		\$ (7,798)		(7,798)	Wages & Salaries	10.1376%	(791)
4	Total Liberalized Depreciation Amounts including Adjustments (Sum of Lines 1 - 3)	\$ -	\$ (996,953)		\$ (996,953)			\$ (954,672)
ADIT - Plant Related Other than Liberalized Depreciation								
5	Transmission Plant (net of GSU/GI Proportion)	137	(129,594)	-	(129,456)	Assigned	100.0000%	(129,456)
6	General Plant	35	(11,434)	-	(11,399)	Wages & Salaries	10.1376%	(1,156)
7	Plant - Other	48,433	(33)	(46,162)	2,238	Gross Plant	22.7075%	508
8	Total Plant Related Other than Liberalized Depreciation (Sum of Lines 5 - 7)	\$ 48,606	\$ (141,061)	\$ (46,162)	\$ (138,617)			\$ (130,104)
ADIT - Not Plant Related								
9	Employee Benefits	213,345	-	(75,399)	137,946	Wages & Salaries	10.1376%	13,984
10	Other Operating	8,992	-	(412)	8,581	Wages & Salaries	10.1376%	870
11	Total Not Plant Related (Sum of Lines 9 - 10)	\$ 222,338	\$ -	\$ (75,811)	\$ 146,527			\$ 14,854
12	Total ADIT used for Assignment or Allocation to Transmission (Sum of Lines 4, 8 & 11)	\$ 270,944	\$ (1,138,013)	\$ (121,973)	\$ (989,043)			\$ (1,069,922)
Reconciliation to FERC Form 1 Accounts:								
13	Liberalized Depreciation not Allocated or Assigned to Transmission		(4,122,682)					
14	Total Amount of Excluded ADIT in Line 5 due to Adjustments		(665,231)					
15	Excluded Amounts (see Explanations below)	3,390,151	1,817,043	(1,907,621)				
16	Total ADIT Not Used for Assignment or Allocation to Transmission (Sum of Lines 13-16)	3,390,151	(2,970,869)	(1,907,621)				
17	Total FERC Form 1 Balance (Sum of Lines 12 & 16)	\$ 3,661,095	\$ (4,108,883)	\$ (2,029,594)				

Explanations:

A detailed set of work papers supporting these inputs shall be included with the work papers posted on the PJM website and included in the informational filing with the Commission.
Lines 1-3 inputs are from Attachment 1B if the inputs are for a projected rate calculation or from Attachment 1C if the inputs are for a true-up calculation.
Lines 5-7, 9-10 and 13 inputs are totals for each category by account obtained from work papers maintained by the Tax Department.
Line 14 represents the impact of proration and the removal of ADIT associated with generator step-up transformers as determined on Attachment 1B or 1C, as applicable. It is the mathematical difference between the inputs for Lines 1-3 and the unadjusted amounts provided in the applicable Attachment 1B or 1C.
Line 15 inputs are excluded ADIT items (not otherwise listed in Lines 13 and 14) from the Formula Rate such as ADIT associated with the production and distribution functions, non-operating income and deductions, and other comprehensive income entries or unfunded ADIT balances primarily due to the adoption of SFAS No. 109.

Virginia Electric and Power Company
Attachment 1 -- Continued
(In Thousands)

Line

ADIT Summary and Calculation of Average Balance

<u>Description</u>	<u>Balance Date</u>	<u>Amount</u>
18 Transmission Total ADIT from Attachment 1, Line 12	December 31 of the Current Year	\$ (1,069,922)
19 Transmission Total ADIT from Attachment 1A, Line 12 (Note 1)	December 31 of the Previous Year	\$ (1,071,262)
20 Average Balance for Entry on Line 45 of Appendix A		<u>\$ (1,070,592)</u>

Attachment 1- Accumulated Deferred Income Taxes (ADIT) Worksheet -- Amortization of ITC-255

<u>Item</u>	<u>Amortization</u>
21 Amortization of Transmission Related for Entry on Line 136 of Appendix A	\$ 128
22 Amortization, Other	\$ (59,964)
23 Current Year Amortization (Line 21 + 22)	\$ (59,836)
24 Current Year Amortization from Form 1 (Current Year Items from p266.8f-g)	\$ (59,836)
25 Difference (Line 23 - 24) (Must be Zero)	\$ -

Note (1): For the true-up of 2017 only, the value entered on Line 19 shall be the December 31, 2016 ADIT balance from the 2016 true-up population of the formula rate in effect on December 31, 2016.

Virginia Electric and Power Company
Attachment 1A - Accumulated Deferred Income Tax (ADIT) Worksheet - December 31 of the Previous Year
(In Thousands)

Previous Year: **2020**

For the true-up of 2017, this Attachment 1A shall not be populated. The December 31, 2016 ADIT balance used in Attachment 1 of the 2017 true-up population shall be the December 31, 2016 ADIT balance from the 2016 true-up population of the formula rate in effect on December 31, 2016.

Wage and Salary Allocator from Line 7 of Appendix A for the Previous Year
Gross Plant Allocator from Line 18 of Appendix A for the Previous Year

8.6350%
21.9356%

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
						Transmission		
Line		Account 190	Account 282	Account 283	Total	Allocation / Assignment Method	Allocation / Assignment %	Transmission Total
ADIT - Liberalized Depreciation (Amounts Including Adjustments)								
1	Liberalized Depreciation - Transmission		\$ (949,902)		(949,902)	Assigned	100.0000%	(949,902)
2	Liberalized Depreciation - General Plant		\$ (39,252)		(39,252)	Wages & Salaries	8.6350%	(3,389)
3	Liberalized Depreciation - Computer Software		\$ (7,798)		(7,798)	Wages & Salaries	8.6350%	(673)
4	Total Liberalized Depreciation Amounts including Adjustments (Sum of Lines 1 - 3)	\$ -	\$ (996,953)		\$ (996,953)			\$ (953,965)
ADIT - Plant Related Other than Liberalized Depreciation								
5	Transmission Plant (net of GSU/GI Proportion)	137	(129,594)	-	(129,456)	Assigned	100.0000%	(129,456)
6	General Plant	35	(11,434)	-	(11,399)	Wages & Salaries	8.6350%	(984)
7	Plant - Other	48,433	(33)	(46,162)	2,238	Gross Plant	21.9356%	491
8	Total Plant Related Other than Liberalized Depreciation (Sum of Lines 5 - 7)	\$ 48,606	\$ (141,061)	\$ (46,162)	\$ (138,617)			\$ (129,950)
ADIT - Not Plant Related								
9	Employee Benefits	213,345	-	(75,399)	137,946	Wages & Salaries	8.6350%	11,912
10	Other Operating	8,992	-	(412)	8,581	Wages & Salaries	8.6350%	741
11	Total Not Plant Related (Sum of Lines 9 - 10)	\$ 222,338	\$ -	\$ (75,811)	\$ 146,527			\$ 12,653
12	Total ADIT used for Assignment or Allocation to Transmission (Sum of Lines 4, 8 & 11)	\$ 270,944	\$ (1,138,013)	\$ (121,973)	\$ (989,043)			\$ (1,071,262)
Reconciliation to FERC Form 1 Accounts:								
13	Liberalized Depreciation not Allocated or Assigned to Transmission		(4,122,682)					
14	Total Amount of Excluded ADIT in Line 5 due to Adjustments		(665,231)					
15	Excluded Amounts (see Explanations below)	3,390,151	1,817,043	(1,907,621)				
16	Total ADIT Not Used for Assignment or Allocation to Transmission (Sum of Lines 13-15)	3,390,151	(2,970,869)	(1,907,621)				
17	Total FERC Form 1 Balance (Sum of Lines 12 & 16)	\$ 3,661,095	\$ (4,108,883)	\$ (2,029,594)				

Explanations:

A detailed set of work papers supporting these inputs shall be included with the work papers posted on the PJM website and included in the informational filing with the Commission.

Lines 1-3 inputs are from Attachment 1B if the inputs are for a projected rate calculation or from Attachment 1C if the inputs are for a true-up calculation.

Lines 5-7, 9-10 and 13 inputs are totals for each category by account obtained from work papers maintained by the Tax Department.

Line 14 represents the impact of proration and the removal of ADIT associated with generator step-up transformers as determined on Attachment 1B or 1C, as applicable. It is the mathematical difference between the inputs for Lines 1-3 and the unadjusted amounts provided in the applicable Attachment 1B or 1C.

Line 15 inputs are excluded ADIT items (not otherwise listed in Lines 13 and 14) from the Formula Rate such as ADIT associated with the production and distribution functions, non-operating income and deductions, and other comprehensive income entries or unfunded ADIT balances primarily due to the adoption of SFAS No. 109.

Attachment 1B (Continued)
2021
Sheet 2 of 3

Part 2: Account 282, General Plant

Columns 3, 4, 7, 8, 9, 10, 13, and 14 are in dollars (except line 15).

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Line	Year	Month	Projected General Plant ADIT	Activity	Remaining Days	Ratio	Activity with Proration	ADIT with Proration	Projected Transmission Net (EDIT)/DDIT	Activity	Remaining Days	Ratio	Activity with Proration	Net (EDIT)/DDIT with Proration
1	2020	Dec	(40,897,998)											
2	2021	Jan	(40,601,874)		335						335	0.917808		
3	2021	Feb	(40,305,750)		307						307	0.841096		
4	2021	Mar	(40,009,626)		276						276	0.756164		
5	2021	Apr	(39,713,502)		246						246	0.673973		
6	2021	May	(39,417,378)		215						215	0.589041		
7	2021	Jun	(39,121,254)		185						185	0.506849		
8	2021	Jul	(38,825,130)		154						154	0.421918		
9	2021	Aug	(38,529,006)		123						123	0.336986		
10	2021	Sep	(38,232,882)		93						93	0.254795		
11	2021	Oct	(37,936,758)		62						62	0.169863		
12	2021	Nov	(37,640,633)		32						32	0.087671		
13	2021	Dec	(37,344,509)		1		811				1	0.002740	481	
14	For Column 8, equals Line 13. For Column 14, equals Line 13.													
15												Factor at time of Income Tax Rate Change (Att 5A) 8.07%		
16														Allocated

Explanations:
Col. 3 & 9 Projected Account 282 month-and ADIT and Net EDIT/DDIT (excludes cost of removal).
Col. 4 & 10 Monthly change in ADIT and Net EDIT/DDIT balances.
Col. 5 & 11 Number of days remaining in the year as of and including the last day of the month.
Col. 6 & 12 Col. 5 or Col. 11 divided by the number of days in the year.
Col. 7 & 13 Col. 4 or Col. 10 multiplied by col. 6 or col. 12.
Col. 8 & 14, Line 1 3 Amount from col. 3 or col. 9, line 3.
Col. 8 & 14, Lines 2-13 Col. 8 or Col. 14 of previous month plus col. 7 or col. 13 of current month.
Col. 8, Line 14 Col. 8, Line 13.
Col. 14, Line 15 Allocator used for year EDIT/DDIT were established.
Col. 14, Line 16 Col. 14, Line 15 multiplied by line 16.

Virginia Electric and Power Company
ATTACHMENT H-16A
Attachment 1B – 2020 Projection / 2019 True-Up
Projected Accumulated Deferred Federal Income Taxes Associated with Pro-rata Liberalized Depreciation

Applicable to the Projection of 2020 and True-up of 2019

If the formula rate population is for determining a projected ATRR, enter the year for which the projection is being made on line 1 and populate the remainder of this Attachment 1B with the projected data associated with that year. If the formula rate population is for determining a true-up ATRR for use on Line A of Attachment 6, enter the year for which the true-up is being calculated on line 1 and populate the remainder of this Attachment 1B with the data that was included in Attachment 1B of the projection associated with that year.

Sheet 1 of 3

Line 1 Projection for Year:
Line 2 Number of Days in Year: (Enter 365, or for Leap Year enter 366)

Part 1: Account 282, Transmission Plant In Service

Columns 3, 4, 7, and 8 are in dollars (except line 16).

Line	(1) Year	(2) Month	(3) Projected Transmission Plant in Service ADIT	(4) Activity	(5) Remaining Days	(6) Ratio	(7) Activity with Proration	(8) ADIT with Proration
3	-	Dec						-
4	-	Jan		-	-	-	-	-
5	-	Feb		-	307	-	-	-
6	-	Mar		-	276	-	-	-
7	-	Apr		-	246	-	-	-
8	-	May		-	215	-	-	-
9	-	Jun		-	185	-	-	-
10	-	Jul		-	154	-	-	-
11	-	Aug		-	123	-	-	-
12	-	Sep		-	93	-	-	-
13	-	Oct		-	62	-	-	-
14	-	Nov		-	32	-	-	-
15	-	Dec		-	1	-	-	-
16	Total Transmission Plant In Service Net of GSU and GI Plant as a Percentage of Total Transmission Plant In Service:							94.78%
17	Amount to be Entered (in thousands) in Column D of the Account 282 Section of Attachments 1 and 1A Only When the Formula Rate Population is to Calculate a Projected ATRR:							-

Explanations:

Col. 3 Projected Account 282 month-end ADIT (excludes cost of removal).
Col. 4 Monthly change in ADIT balance.
Col. 5 Number of days remaining in the year as of and including the last day of the month.
Col. 6 Col. 5 divided by the number of days in the year.
Col. 7 Col. 4 multiplied by col. 6.
Col. 8, Line 3 Amount from col. 3, line 3.
Col. 8, Lines 4-15 Col. 8 of previous month plus col. 7 of current month.
Col. 8, Line 16 Appendix A Line 24 ÷ Appendix A, Line 21 (from the projection population of the formula)
Col. 8, Line 17 Col. 8, Line 15 multiplied by line 16.

Attachment 1B - 2020 Projection / 2019 True-Up (Continued)

Sheet 2 of 3

Part 2: Account 282, General Plant

Columns 3, 4, 7, and 8 are in dollars.

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	
Line	Year	Month	Projected General Plant ADIT	Activity	Remaining Days	Ratio	Activity with Proration	ADIT with Proration
1	-	Dec						-
2	-	Jan		-	-	-	-	-
3	-	Feb		-	307	-	-	-
4	-	Mar		-	276	-	-	-
5	-	Apr		-	246	-	-	-
6	-	May		-	215	-	-	-
7	-	Jun		-	185	-	-	-
8	-	Jul		-	154	-	-	-
9	-	Aug		-	123	-	-	-
10	-	Sep		-	93	-	-	-
11	-	Oct		-	62	-	-	-
12	-	Nov		-	32	-	-	-
13	-	Dec		-	1	-	-	-
14	Amount to be Entered (in thousands) in Column D of the Account 282 Section of Attachments and 1 1A Only When the Formula Rate Population is to Calculate a Projected ATRR:							-

Explanations:

Col. 3	Projected Account 282 month-end ADIT (excludes cost of removal).
Col. 4	Current month change in ADIT balance.
Col. 5	Number of days remaining in the year as of and including the last day of the month.
Col. 6	Col. 5 divided by the number of days in the year.
Col. 7	Col. 4 multiplied by Col. 6.
Col. 8, Line 1	Amount from col. 3, line 1.
Col. 8, Lines 2-13	Col. 8 of previous month plus Col. 7 of current month.
Col. 8, Line 14	Col. 8, Line 13.

Sheet 3 of 3

Part 3: Account 282, Computer Software - Book Amortization

Columns 3, 4, 7, and 8 are in dollars.
The column and line explanations are as described for Part 2.

(1)	(2)	(3) Projected Computer Software Book Amount ADIT	(4) Activity	(5) Remaining Days	(6) Ratio	(7) Activity with Proration	(8) ADIT with Proration
1	-	Dec					-
2	-	Jan		-	-	-	-
3	-	Feb		307	-	-	-
4	-	Mar		276	-	-	-
5	-	Apr		246	-	-	-
6	-	May		215	-	-	-
7	-	Jun		185	-	-	-
8	-	Jul		154	-	-	-
9	-	Aug		123	-	-	-
10	-	Sep		93	-	-	-
11	-	Oct		62	-	-	-
12	-	Nov		32	-	-	-
13	-	Dec		1	-	-	-
14	Amount to be Entered (in thousands) in Column D of the Account 282 Section of Attachments 1 and 1A Only When the Formula Rate Population is to Calculate a Projected ATRR:						-

Part 4: Account 282, Computer Software - Tax Amortization

Columns 3, 4, 7, and 8 are in dollars.
The column and line explanations are as described for Part 2.

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Line	Year	Month	Projected Computer Software Tax Amount ADIT	Activity	Remaining Days	Ratio	Activity with Proration ADIT with Proration
1	-	Dec					-
2	-	Jan		-	-	-	-
3	-	Feb		-	307	-	-
4	-	Mar		-	276	-	-
5	-	Apr		-	246	-	-
6	-	May		-	215	-	-
7	-	Jun		-	185	-	-
8	-	Jul		-	154	-	-
9	-	Aug		-	123	-	-
10	-	Sep		-	93	-	-
11	-	Oct		-	62	-	-
12	-	Nov		-	32	-	-
13	-	Dec		-	1	-	-
14	Amount to be Entered (in thousands) in Column D of the Account 282 Section of Attachments 1 and 1A Only When the Formula Rate Population is to Calculate a Projected ATRR:						-

Virginia Electric and Power Company
ATTACHMENT H-16A
Attachment 1C

True-up of Accumulated Deferred Federal Income Taxes and Excess/Deficient Deferred Federal Income Taxes Associated with Pro-rata Liberalized Depreciation

Applicable to the True-ups of 2020 and Later

If the formula rate population is for determining a projected ATRR, do not populate this Attachment 1C. If the formula rate population is for determining a true-up ATRR for use on Line A of Attachment 6, enter the year for which the true-up is being calculated on line 1 and populate the remainder of this Attachment 1C with the actual data associated with that year. Use the amounts from line 17 of Part 1, and line 14 of Parts 2, 3, and 4, in populating Attachment 1 and Attachment 1A as instructed in this Attachment 1C.

Sheet 1 of 3

Line 1 True-up Year: (If Populated, Must Match Attachment 1B, Part 1, Line 1)
Line 2 Number of Days in Year: 365 (From Attachment 1B, Part 1, Line 2)

Part 1: Account 282, Transmission Plant In Service

Lines 3 through 22 are in dollars (except line 16).

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	
Line	Year	Month	Actual Transmission Plant In Service ADIT	Actual Activity	Projected Activity from Column (4) of Attachment 1B	Activity Difference	Reversal of Projected Activity Not Realized	Activity Not in Projection	Reversal of Projected Activity Not Realized With Proration	Projected Activity With Proration from Column (7) of Attachment 1B	ADIT Activity for True-up	ADIT Balances for True-up	Actual Transmission Plant In Service Net (EDIT)/ADIT	Actual Activity	Projected Activity from Column (10) of Attachment 1B	Activity Difference	Reversal of Projected Activity Not Realized	Activity Not in Projection	Reversal of Projected Activity Not Realized With Proration	Projected Activity With Proration from Column (13) of Attachment 1B	Net (EDIT) / DOIT for True-up	Net (EDIT) / DOIT Balances for True-up
3	-	Dec																				
4	-	Jan		-		-	-	-	-		-	-		-		-	-	-	-		-	-
5	-	Feb																				
6	-	Mar																				
7	-	Apr																				
8	-	May																				
9	-	Jun																				
10	-	Jul																				
11	-	Aug																				
12	-	Sep																				
13	-	Oct																				
14	-	Nov																				
15	-	Dec																				
16	Total Transmission Plant In Service Net of GSU and GI Plant as a Percentage of Total Transmission Plant In Service:																					
17	For Column 12, Line 15 x Line 16; and For Column 22, Line 15 x Line 16:																					

Explanations:

Col. 3 & 13 Actual Account 282 month-end ADIT and Net EDIT/DOIT (excludes cost of removal).
Col. 4 & 14 Monthly change in ADIT and Net EDIT/DOIT balances.
Col. 6 = Col. 4 minus col. 5; Col. 16 = Col. 14 minus Col. 15.
Col. 7 & 17 The portion of the amount in col. 6 or col. 16 included in original projection but not realized.
Col. 8 & 18 The portion of the amount in col. 6 or col. 16 not included in original projection.
Col. 9 & 19 The amount in col. 7 or col. 17, multiplied by the ratio from col. 8 or col. 12 of Attachment 1B, Part 1.
Col. 11 & 21 The sum of col. 8 or col. 18 times a factor of 50%, col. 9 or col. 19, and col. 10 or col. 20.
Col. 12 & 22, Line 3 Amount from col. 3 or col. 13, line 3.
Col. 12 & 22, Lines 4 Col. 12 or col. 22 of previous month plus col. 11 or col. 21 of current month.
Col. 12 & 22, Line 16 Appendix A, Line 24 = Appendix A, Line 21 (from the true-up population of the formula).
Col. 12, & 22 Line 17 Col. 12 or Col. 22, Line 15 multiplied by line 16.

Sheet 2 of 3

Part 2: Account 282, General Plant

Lines 3 through 22 are in dollars (except line 14).

[illegible]

Virginia Electric and Power Company

ATTACHMENT H-16A

Attachment 1C - 2019

True-up of Accumulated Deferred Federal Income Taxes Associated with Pro-rata Liberalized Depreciation

Applicable to the True-ups of 2019

If the formula rate population is for determining a projected ATRR, do not populate this Attachment 1C. If the formula rate population is for determining a true-up ATRR for use on Line A of Attachment 6, enter the year for which the true-up is being calculated on line 1 and populate the remainder of this Attachment 1C with the actual data associated with that year. Use the amounts from line 17 of Part 1, and line 14 of Parts 2, 3, and 4, in populating Attachment 1 and Attachment 1A as instructed in this Attachment 1C.

Sheet 1 of 3

Line 1 True-up Year: (If Populated, Must Match Attachment 1B, Part 1, Line 1)
 Line 2 Number of Days in Year: 365 (From Attachment 1B, Part 1, Line 2)

Part 1: Account 282, Transmission Plant In Service

Columns 3 through 12 are in dollars (except line 16).

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
			Actual Transmission Plant In Service ADIT	Actual Activity	Projected Activity from Column (4) of Attachment 1B	Activity Difference	Reversal of Projected Activity Not Realized	Activity Not in Projection	Reversal of Projected Activity Not Realized With Proration	Projected Activity With Proration from Column (7) of Attachment 1B	ADIT Activity for True-up	ADIT Balances for True-up
Line	Year	Month										
3	-	Dec	 									-
4	-	Jan	 	-	 	-	-	-	-	 	-	-
5	-	Feb	 	-	 	-	-	-	-	 	-	-
6	-	Mar	 	-	 	-	-	-	-	 	-	-
7	-	Apr	 	-	 	-	-	-	-	 	-	-
8	-	May	 	-	 	-	-	-	-	 	-	-
9	-	Jun	 	-	 	-	-	-	-	 	-	-
10	-	Jul	 	-	 	-	-	-	-	 	-	-
11	-	Aug	 	-	 	-	-	-	-	 	-	-
12	-	Sep	 	-	 	-	-	-	-	 	-	-
13	-	Oct	 	-	 	-	-	-	-	 	-	-
14	-	Nov	 	-	 	-	-	-	-	 	-	-
15	-	Dec	 	-	 	-	-	-	-	 	-	-

16 Total Transmission Plant In Service Net of GSU and GI Plant as a Percentage of Total Transmission Plant In Service:

17 Amount to be Entered (in thousands) in Column D of the Account 282 Section of Attachments 1 and 1A Only When the Formula Rate Population is to Calculate a True-up ATRR: -

Explanations:

Col. 3 Actual Account 282 month-end ADIT (excludes cost of removal).
 Col. 4 Monthly change in ADIT balance.
 Col. 6 Col. 4 minus col. 5
 Col. 7 The portion of the amount in col. 6 included in original projection but not realized.
 Col. 8 The portion of the amount in col. 6 not included in original projection.
 Col. 9 The amount in col. 7 multiplied by the ratio from col. 6 of Attachment 1B, Part 1.
 Col. 11 The sum of col. 8 times a factor of 50%, col. 9, and col. 10.
 Col. 12, Line 3 Amount from col. 3, line 3.
 Col. 12, Lines 4-15 Col. 12 of previous month plus col. 11 of current month.
 Col. 12, Line 16 Appendix A, Line 24 ÷ Appendix A, Line 21 (from the true-up population of the formula)
 Col. 12, Line 17 Col. 12, Line 15 multiplied by line 16.

Attachment 1C (Continued)**2019**

Sheet 2 of 3

Part 2: Account 282, General Plant

Columns 3 through 12 are in dollars.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
			Actual General Plant ADIT	Actual Activity	Projected Activity from Column (4) of Attachment 1B	Activity Difference	Reversal of Projected Activity Not Realized	Activity Not in Projection	Reversal of Projected Activity Not Realized With Proration	Projected Activity With Proration from Column (7) of Attachment 1B	ADIT Activity for True-up	ADIT Balances for True-up
Line	Year	Month										
1	-	Dec										-
2	-	Jan		-		-	-	-	-		-	-
3	-	Feb		-		-	-	-	-		-	-
4	-	Mar		-		-	-	-	-		-	-
5	-	Apr		-		-	-	-	-		-	-
6	-	May		-		-	-	-	-		-	-
7	-	Jun		-		-	-	-	-		-	-
8	-	Jul		-		-	-	-	-		-	-
9	-	Aug		-		-	-	-	-		-	-
10	-	Sep		-		-	-	-	-		-	-
11	-	Oct		-		-	-	-	-		-	-
12	-	Nov		-		-	-	-	-		-	-
13	-	Dec		-		-	-	-	-		-	-

14 Amount to be Entered (in thousands) in Column D of the Account 282 Section of Attachments 1 and 1A Only When the Formula Rate Population is to Calculate a True-up ATRR:

-

Explanations:

Col. 3	Actual Account 282 month-end ADIT (excludes cost of removal).
Col. 4	Monthly change in ADIT balance.
Col. 6	Col. 4 minus col. 5
Col. 7	The portion of the amount in col. 6 included in original projection but not realized.
Col. 8	The portion of the amount in col. 6 not included in original projection.
Col. 9	The amount in col. 7 multiplied by the ratio from col. 6 of Attachment 1B, Part 2, 3 or 4 (as appropriate).
Col. 11	The sum of col. 8 times a factor of 50%, col. 9, and col. 10.
Col. 12, Line 1	Amount from col. 3, line 1.
Col. 12, Lines 2-13	Col. 12 of previous month plus col. 11 of current month.
Col. 12, Line 14	Amount from col. 12, line 13.

Attachment 1C (Continued)**2019**

Sheet 3 of 3

Part 3: Account 282, Computer Software - Book Amortization

Columns 3 through 12 are in dollars.

The column and line explanations are as described for Part 2.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
			Actual Computer Software Book Amount ADIT	Actual Activity	Projected Activity from Column (4) of Attachment 1B	Activity Difference	Reversal of Projected Activity Not Realized	Activity Not in Projection	Reversal of Projected Activity Not Realized With Proration	Projected Activity With Proration from Column (7) of Attachment 1B	ADIT Activity for True-up	ADIT Balances for True-up
Line	Year	Month										
1	-	Dec										-
2	-	Jan		-		-	-	-	-		-	-
3	-	Feb		-		-	-	-	-		-	-
4	-	Mar		-		-	-	-	-		-	-
5	-	Apr		-		-	-	-	-		-	-
6	-	May		-		-	-	-	-		-	-
7	-	Jun		-		-	-	-	-		-	-
8	-	Jul		-		-	-	-	-		-	-
9	-	Aug		-		-	-	-	-		-	-
10	-	Sep		-		-	-	-	-		-	-
11	-	Oct		-		-	-	-	-		-	-
12	-	Nov		-		-	-	-	-		-	-
13	-	Dec		-		-	-	-	-		-	-

14 Amount to be Entered (in thousands) in Column D of the Account 282 Section of Attachments 1 and 1A Only When the Formula Rate Population is to Calculate a True-up ATRR:

-

Part 4: Account 282, Computer Software - Tax Amortization

Columns 3 through 12 are in dollars.

The column and line explanations are as described for Part 2.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
			Actual Computer Software Tax Amount ADIT	Actual Activity	Projected Activity from Column (4) of Attachment 1B	Activity Difference	Reversal of Projected Activity Not Realized	Activity Not in Projection	Reversal of Projected Activity Not Realized With Proration	Projected Activity With Proration from Column (7) of Attachment 1B	ADIT Activity for True-up	ADIT Balances for True-up
Line	Year	Month										
1	-	Dec										-
2	-	Jan		-		-	-	-	-		-	-
3	-	Feb		-		-	-	-	-		-	-
4	-	Mar		-		-	-	-	-		-	-
5	-	Apr		-		-	-	-	-		-	-
6	-	May		-		-	-	-	-		-	-
7	-	Jun		-		-	-	-	-		-	-
8	-	Jul		-		-	-	-	-		-	-
9	-	Aug		-		-	-	-	-		-	-
10	-	Sep		-		-	-	-	-		-	-
11	-	Oct		-		-	-	-	-		-	-
12	-	Nov		-		-	-	-	-		-	-
13	-	Dec		-		-	-	-	-		-	-

14 Amount to be Entered (in thousands) in Column D of the Account 282 Section of Attachments 1 and 1A Only When the Formula Rate Population is to Calculate a True-up ATRR:

-

Virginia Electric and Power Company
ATTACHMENT H-16A
Attachment 1C - 2018
True-up of Accumulated Deferred Federal Income Taxes Associated with Pro-rata Liberalized Depreciation

Applicable Only to the True-up of 2018

If the formula rate population is for determining the 2018 true-up ATRR for use on Line A of Attachment 6, populate this Attachment 1C - 2018 with the actual data associated with that year. Use the amounts from line 17 of Part 1, and line 14 of Parts 2, 3, and 4, in populating Attachment 1 and Attachment 1A as instructed in this Attachment 1C - 2018.

Sheet 1 of 4

Line 1 True-up Year: 2018
Line 2 Number of Days in Year: 365

Part 1: Account 282, Transmission Plant In Service

Columns 3 through 12 are in dollars (except lines 15b, 15e, and 16).

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
			Actual Transmission Plant In Service ADIT	Actual Activity	Projected Activity from Column (4) of Attachment 1B	Activity Difference	Reversal of Projected Activity Not Realized	Activity Not in Projection	Reversal of Projected Activity Not Realized With Proration	Projected Activity With Proration from Column (7) of Attachment 1B	ADIT Activity for True-up	ADIT Balances for True-up
Line	Year	Month										
3	2017	Dec										-
4	2018	Jan		-		-	-	-	-		-	-
5	2018	Feb		-		-	-	-	-		-	-
6	2018	Mar		-		-	-	-	-		-	-
7	2018	Apr		-		-	-	-	-		-	-
8	2018	May		-		-	-	-	-		-	-
9	2018	Jun		-		-	-	-	-		-	-
10	2018	Jul		-		-	-	-	-		-	-
11	2018	Aug		-		-	-	-	-		-	-
12	2018	Sep		-		-	-	-	-		-	-
13	2018	Oct		-		-	-	-	-		-	-
14	2018	Nov		-		-	-	-	-		-	-
15	2018	Dec		-		-	-	-	-		-	-
15a	Pre-change -- Average of Actual ADIT Balance from Col.12, December 31, 2017 and December 31, 2018											-
15b	177 Days Divided by 365 Days											48.49%
15c	Component of Average ADIT Balance Attributable to January 1 Through June 26 (15a X 15b)											-
15d	Post-change -- ADIT Balance for True-up from Col. 12, December 31, 2018											-
15e	188 Days Divided by 365 Days											51.51%
15f	Component of ADIT Balance Attributable to June 27 Through December 31 (15d X 15e)											-
15g	Pre-change Component plus Post-change Component (15c + 15f)											-
16	Total Transmission Plant In Service Net of GSU and GI Plant as a Percentage of Total Transmission Plant In Service:											94.78%
17	Amount to be Entered (in thousands) in Column D of the Account 282 Section of Attachments 1 and 1A Only When the Formula Rate Population is to Calculate the 2018 True-up ATRR:											-

Explanations:

Col. 3	Actual Account 282 month-end ADIT (excludes cost of removal).	Col. 12, Lines 4-15	Col. 12 of previous month plus col. 11 of current month.
Col. 4	Monthly change in ADIT balance.	Col. 12, Line 15b	Effective date of change is June 27, 2018.
Col. 6	Col. 4 minus col. 5	Col. 12, Line 15d	December 31, 2018 balance minus the sum of the activity in col. 8 times a factor of 50%.
Col. 7	The portion of the amount in col. 6 included in original projection but not realized.	Col. 12, Line 16	Appendix A, Line 24 ÷ Appendix A, Line 21 (from the true-up population of the formula).
Col. 8	The portion of the amount in col. 6 not included in original projection.	Col. 12, Line 17	Col. 12, Line 15g multiplied by line 16.
Col. 9	The amount in col. 7 multiplied by the ratio from col. 6 of Attachment 1B, Part 1.		
Col. 11	The sum of col. 8, col. 9, and col. 10.		
Col. 12, Line 3	Amount from col. 3, line 3.		

Attachment 1C - 2018 (Continued)**2018**

Sheet 2 of 4

Part 2: Account 282, General Plant

Columns 3 through 12 are in dollars (except lines 13b and 13e).

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
			Actual General Plant ADIT		Projected Activity from Column (4) of Attachment 1B	Activity Difference	Reversal of Projected Activity Not Realized	Activity Not in Projection	Reversal of Projected Activity Not Realized With Proration	Projected Activity With Proration from Column (7) of Attachment 1B	ADIT Activity for True-up	ADIT Balances for True-up
Line	Year	Month		Actual Activity								
1	2017	Dec										-
2	2018	Jan		-		-	-	-	-		-	-
3	2018	Feb		-		-	-	-	-		-	-
4	2018	Mar		-		-	-	-	-		-	-
5	2018	Apr		-		-	-	-	-		-	-
6	2018	May		-		-	-	-	-		-	-
7	2018	Jun		-		-	-	-	-		-	-
8	2018	Jul		-		-	-	-	-		-	-
9	2018	Aug		-		-	-	-	-		-	-
10	2018	Sep		-		-	-	-	-		-	-
11	2018	Oct		-		-	-	-	-		-	-
12	2018	Nov		-		-	-	-	-		-	-
13	2018	Dec		-		-	-	-	-		-	-
13a	Pre-change -- Average of Actual ADIT Balance from Col. 12, December 31, 2017 and December 31, 2018											-
13b	177 Days Divided by 365 Days											48.49%
13c	Component of Average ADIT Balance Attributable to January 1 Through June 26 (13a X 13b)											-
13d	Post-change -- ADIT Balance for True-up from Col. 12, December 31, 2018											-
13e	188 Days Divided by 365 Days											51.51%
13f	Component of ADIT Balance Attributable to June 27 Through December 31 (13d X 13e)											-
13g	Pre-change Component plus Post-change Component (13c + 13f)											-
14	Amount to be Entered (in thousands) in Column F of the Account 282 Section of Attachments 1 and 1A Only When the Formula Rate Population is to Calculate the 2018 True-up ATRR:											

Explanations:

Col. 3	Actual Account 282 month-end ADIT (excludes cost of removal).
Col. 4	Monthly change in ADIT balance.
Col. 6	Col. 4 minus col. 5
Col. 7	The portion of the amount in col. 6 included in original projection but not realized.
Col. 8	The portion of the amount in col. 6 not included in original projection.
Col. 9	The amount in col. 7 multiplied by the ratio from col. 6 of Attachment 1B, Part 2, 3 or 4 (as appropriate).
Col. 11	The sum of col. 8, col. 9, and col. 10.
Col. 12, Line 1	Amount from col. 3, line 1.
Col. 12, Lines 2-13	Col. 12 of previous month plus col. 11 of current month.
Col. 12, Line 13d	December 31, 2018 balance minus the sum of the activity in col. 8 times a factor of 50%.
Col. 12, Line 14	Amount from col. 12, line 13g.

Columns 3 through 12 are in dollars (except lines 13b and 13e).
The column and line explanations are as described for Part 2.

[illegible]

Columns 3 through 12 are in dollars (except lines 13b and 13e).
The column and line explanations are as described for Part 2.

[illegible]

Virginia Electric and Power Company
ATTACHMENT H-16A
Attachment 2 - Taxes Other Than Income Worksheet
2020 (000's)

<i>Other Taxes</i>	<i>Page 263 Col (i)</i>	<i>Allocator</i>	<i>Allocated Amount</i>
Plant Related			
		Gross Plant Allocator	
1 Transmission Personal Property Tax (directly assigned to Transmission)	\$ 72,324	100.0000%	\$ 72,324
1a Other Plant Related Taxes	0	22.7075%	-
2			-
3			-
4			-
5			-
Total Plant Related	\$ 72,324		\$ 72,324
Labor Related			
		Wages & Salary Allocator	
6 Federal FICA & Unemployment & State Unemployment	\$ 44,602		
Total Labor Related	\$ 44,602	10.1376%	\$ 4,522
Other Included			
		Gross Plant Allocator	
7 Sales and Use Tax	\$ -		
Total Other Included	\$ -	22.7075%	\$ -
Total Included	\$ 116,926		\$ 76,846
Currently Excluded			
8 Business and Occupation Tax - West Virginia	\$ 21,507		
9 Gross Receipts Tax	0		
10 IFTA Fuel Tax	0		
11 Property Taxes - Other	208,878		
12 Property Taxes - Generator Step-Ups and Interconnects	2,953		
13 Sales and Use Tax - not allocated to Transmission	2,522		
14 Sales and Use Tax - Retail	0		
15 Other	8,694		
16			
17			
18			
19			
20			
21 Total "Other" Taxes (included on p. 263)	\$ 244,554		
22 Total "Taxes Other Than Income Taxes" - acct 408.10 (p. 114.14)	\$ 361,480		
23 Difference	\$ (116,926)		

Criteria for Allocation:

- A Other taxes that are incurred through ownership of plant including transmission plant will be either directly assigned or allocated based on the Gross Plant Allocator. If the taxes are 100% recovered at retail they will not be included.
- B Other taxes that are incurred through ownership of only general or intangible plant will be allocated based on the Wages and Salary Allocator. If the taxes are 100% recovered at retail they will not be included.
- C Other taxes that are assessed based on labor will be allocated based on the Wages and Salary Allocator.
- D Other taxes except as provided for in A, B and C above, that are incurred and (1) are not fully recovered at retail or (2) are directly or indirectly related to transmission service will be allocated based on the Gross Plant Allocator; provided, however, that overheads shall be treated as in footnote B above.

VEPCO
ATTACHMENT H-16A
Attachment 2A - Direct Assignment of Property
Taxes Per Function
2020 (000's)

<u>Directly Assigned Property Taxes</u>	\$ 284,156
--	-------------------

Production Property Tax	100,041
Transmission Property Tax	72,219
GSU/Interconnect Facilities	2,953
Distribution Property tax	107,908
General Property Tax	1,035
Total check	284,156

Allocation of General Property Tax to Transmission

General Property Tax	\$ 1,035
Wages & Salary Allocator	10.1376%
Trans General	105

Total Transmission Property Taxes

Transmission	\$ 72,219
General	105
Total Transmission Property Taxes	\$ 72,324

Virginia Electric and Power Company
ATTACHMENT H-16A
Attachment 3 - Revenue Credit Workpaper
2020 (000's)

		Transmission Related	Production/Other Related	Total
Account 454 - Rent from Electric Property		<u>13,418</u>		<u>13,418</u>
1	Rent from Electric Property - Transmission Related (Note 3)			
2	Total Rent Revenues (Sum Lines 1)	13,418	-	13,418
Account 456 - Other Electric Revenues (Note 1)				
3	Schedule 1A			
4	Net revenues associated with Network Integration Transmission Service (NITS) and for the transmission component of the NCEMPA contract rate for which the load is not included in the divisor. (Note 4)	1,977		1,977
5	Point to Point Service revenues received by Transmission Owner for which the load is not included in the divisor (Note 4)			-
6	PJM Transitional Revenue Neutrality (Note 1)			-
7	PJM Transitional Market Expansion (Note 1)			-
8	Professional Services (Note 3)	3,441		3,441
9	Revenues from Directly Assigned Transmission Facility Charges (Note 2)	20,973		20,973
10	Rent or Attachment Fees associated with Transmission Facilities (Note 3)			-
11	Gross Revenue Credits (Accounts 454 and 456) (Sum Lines 2-10)	39,810	-	39,810
12	Less line 14g	<u>(10,038)</u>	-	<u>(10,038)</u>
13	Total Revenue Credits	29,772	-	29,772
Revenue Adjustment to Determine Revenue Credit				
14a	Revenues included in lines 1-11 which are subject to 50/50 sharing. (Lines 1 + 8 + 10)	16,860	-	16,860
14b	Costs associated with revenues in line 14a	<u>3,216</u>	-	<u>3,216</u>
14c	Net Revenues (14a - 14b)	13,643	-	13,643
14d	50% Share of Net Revenues (14c / 2)	6,822	-	6,822
14e	Cost associated with revenues in line 14b that are included in FERC accounts recovered through the formula times the allocator used to functionalize the amounts in the FERC account to the transmission service at issue	-	-	-
14f	Net Revenue Credit (14d + 14e)	6,822	-	6,822
14g	Line 14f less line 14a	<u>(10,038)</u>	-	<u>(10,038)</u>

Revenue Adjustment to Determine Revenue Credit

Note 1: All revenues related to transmission that are received as a transmission owner (*i.e.*, not received as a LSE), for which the cost of the service is recovered under this formula, except as specifically provided for elsewhere in this Attachment or elsewhere in the formula will be included as a revenue credit or included in the peak on line 169 of Appendix A.

Note 2: If the costs associated with the Directly Assigned Transmission Facility Charges are included in the Rates, the associated revenues are included in the Rates. If the costs associated with the Directly Assigned Transmission Facility Charges are not included in the Rates, the associated revenues are not included in the Rates. Notwithstanding the above, the revenue crediting of the UG Transmission Charge revenues shall be in accordance with section 6 of Attachment 10. Notwithstanding the above, the revenue crediting of the Previous Jointly-Owned Assets shall be in accordance with section 6 of Attachment 11.

Note 3: Ratemaking treatment for the following specified secondary uses of transmission assets: (1) right-of-way leases and leases for space on transmission facilities for telecommunications; (2) transmission tower licenses for wireless antennas; (3) right-of-way property leases for farming, grazing or nurseries; (4) licenses of intellectual property (including a portable oil degasification process and scheduling software); and (5) transmission maintenance and consulting services (including energized circuit maintenance, high-voltage substation maintenance, safety training, transformer oil testing, and circuit breaker testing) to other utilities and large customers (collectively, products). VEPCO will retain 50% of net revenues consistent with *Pacific Gas and Electric Company*, 90 FERC ¶ 61,314. In order to use lines 14a - 14g, the utility must track in separate subaccounts the revenues and costs associated with each secondary use (except for the cost of the associated income taxes).

Note 4: Revenues from Schedule 12 are not included in the total above to the extent they are credited under Schedule 12. In addition, revenues from Schedule 7, Schedule 8 and H-A are not included in the total above to the extent PJM credits VEPCO's share of these revenues monthly to network customers under Attachment H-16.

Virginia Electric and Power Company
ATTACHMENT H-16A
Attachment 4 - Calculation of 100 Basis Point Increase in ROE
2020 (000's)

Return Calculation				
A	Return and Taxes with Basis Point increase in ROE	Basis Point increase in ROE and Income Taxes	(Line 130 + 140)	774,610
B	100 Basis Point increase in ROE	(Note J from Appendix A)	Fixed	1.00%
62	Rate Base excluding Acquisition Adjustments Amount and Associated ADIT	Appendix A	(Line 44 + 61 - 60C - 45A)	7,158,232
104	Long Term Interest	Long Term Interest	p117.62c through 67c	522,820
105		Less LTD Interest on Securitization (Note P)	Attachment 8	0
106		Long Term Interest	(Line 104 - 105)	522,820
107	Preferred Dividends	enter positive	p118.29c	0
108	Common Stock	Proprietary Capital	p112.16c,d/2	13,517,390
109		Less Preferred Stock	(Line 117)	0
110		Less Account 219 - Accumulated Other Comprehensive Income	p112.15c,d/2	20,478
111		Common Stock	(Sum Lines 108 to 110)	13,537,868
112	Capitalization	Long Term Debt	p112.24c,d/2	12,077,526
113		Less Loss on Reacquired Debt	p111.81c,d/2	-492
114		Plus Gain on Reacquired Debt	p113.61c,d/2	3,095
115		Less LTD on Securitization Bonds	enter negative	Attachment 8
116		Total Long Term Debt	(Sum Lines 112 to 115)	12,080,129
117		Preferred Stock	p112.3c,d/2	0
118		Common Stock	(Line 111)	13,537,868
119		Total Capitalization	(Sum Lines 116 to 118)	25,617,996
120		Debt %	Total Long Term Debt	(Line 116 / 119)
121		Preferred %	Preferred Stock	(Line 117 / 119)
122		Common %	Common Stock	(Line 118 / 119)
123		Debt Cost	Total Long Term Debt	(Line 106 / 116)
124		Preferred Cost	Preferred Stock	(Line 107 / 117)
125		Common Cost	Common Stock	Appendix A Line 125 + 100 Basis Points
126		Weighted Cost of Debt	Total Long Term Debt (WCLTD)	(Line 120 * 123)
127		Weighted Cost of Preferred	Preferred Stock	(Line 121 * 124)
128		Weighted Cost of Common	Common Stock	(Line 122 * 125)
129	Total Return (R)		(Sum Lines 126 to 128)	0.0859
130	Investment Return = Rate Base * Rate of Return		(Line 62 * 129)	615,152
Composite Income Taxes				
131	Income Tax Rates	FIT=Federal Income Tax Rate		0.2100
132		SIT=State Income Tax Rate or Composite		0.0585
133		p = percent of federal income tax deductible for state purposes	Per State Tax Code	0.0000
134		T	$T = 1 - \{[(1 - SIT) * (1 - FIT)] / (1 - SIT * FIT * p)\}$	0.2562
135		T / (1-T)		0.3445
136	Transmission Related Income Tax Adjustments			
136A	Amortized Investment Tax Credit (ITC)	(Note I) enter negative	Attachment 1	\$ (128)
137	Other Income Tax Adjustments		Attachment 5	\$ (1,463)
137	T/(1-T)		(Line 135)	34.45%
138	Transmission Income Taxes - Income Tax Adjustments		((Line 136 + 136A) * (1 + Line 137))	\$ (2,140)
139	Transmission Income Taxes - Equity Return =	$CIT = (T/(1-T)) * Investment\ Return * (1 - (WCLTD/R)) =$	[Line 135 * 130 * (1 - (126 / 129))]	161,598
140	Total Transmission Income Taxes		(Line 138 + 139)	159,458

EPRI Dues Cost Support				EPRI Dues			
Line #s	Descriptions	Notes	Page #s & Instructions	Form 1 Amount	EPRI Dues	Details	
Allocated General & Common Expenses							
73	Less EPRI Dues	(Note D)	p352-353Attachment 5	\$4,954	4,954	See Form 1	

Virginia Electric and Power Company
ATTACHMENT to SA
Attachment 5- Cost Support
____ (000%)

Regulatory Expense Related to Transmission Cost Support

Line #s	Descriptions	Notes	Page #s & Instructions	Form 1 Amount	Transmission Related	Non-transmission Related	Details
71	Allocated General & Common Expenses - Less Regulatory Commission Exp Account 928 Directly Assigned A&D	(Note D)	p323.189b/Attachment 5				
				\$	35,321	422	34,899 See FERC Form 1 pages 350-351.
77	Regulatory Commission Exp Account 928	(Note D)	p323.189b/Attachment 5			422	

Safety Related Advertising Cost Support

Line #s	Descriptions	Notes	Page #s & Instructions	Form 1 Amount	Safety Related	Non-safety Related	Details
81	Directly Assigned A&D General Advertising Exp Account 930.1	(Note F)	Attachment 5				
					2,219	-	2,219

Multi-State Workpapers

Line #s	Descriptions	Notes	Page #s & Instructions	State 1	State 2	State 3	State 4	State 5	Details
	Income Tax Rates			VA	NC	WVa			Enter Calculation
132	BTI-State Income Tax Rate or Composite	(Note I)		0.00%	0.11%	0.14%			0.00%

Education and Out Reach Cost Support

Line #s	Descriptions	Notes	Page #s & Instructions	Form 1 Amount	Education & Outreach	Other	Details
79	Directly Assigned A&D General Advertising Exp Account 930.1	(Note K)	p323.193b				
					2,219	2,219	- Informing public about transmission operations including service quality.

Excluded Plant Cost Support

Line #s	Descriptions	Notes	Page #s & Instructions	0	Description of the Facilities
	Adjustment to Remove Revenue Requirements Associated with Excluded Transmission Facilities				
			Includes only the costs of any interconnection facilities constructed for VEPCCO's own Generating Facilities after March 15, 2009 in accordance with Order 8003.	0	General Description of the Facilities
					None
					Add more lines if necessary

Instructions:

1. Remove all investment below 69 kV or generator step up transformers included in transmission plant in service that are not a result of the RTSP Process.

2. If unable to determine the investment below 69kV in a substation with investment of 69 kV and higher as well as below 69 kV, the following formula will be used: **Example:**

A. Total investment in substation 1,000,000

B. Identifiable investment in Transmission (provide workpapers) 600,000

C. Identifiable investment in Distribution (provide workpapers) 400,000

D. Amount to be excluded (A x (C / (B + C))) 444,444

Transmission Related Account 242 Reserves

Line #s	Descriptions	Notes	Page #s & Instructions	Beginning Year Balance	End of Year Balance	Average Balance	Allocation	Transmission Related	Details
47	Transmission Related Account 242 Reserves (include current year environmental site related reserves)			Enter \$	Enter \$			Amount	
	Directly Assignable to Transmission			\$ 20,380	\$ 33,716	\$ 27,602	100%	27,602	
	Labor Related, General plant related or Common Plant related			\$ 2,920	\$ 3,430	\$ 3,175	10.138%	322	
	Plant Related			\$ 6,010	\$ 6,528	\$ 6,769	22.71%	1,310	
	Other			\$ 361,391	\$ 204,433	\$ 282,713	0.00%	-	
	Total Transmission Related Reserves			\$ -	\$ -	\$ -		28,694	To line 47

Prepayments

Line #s	Descriptions	Notes	Page #s & Instructions	Beginning Year Balance	End of Year Balance	Average Balance	Fixed Prepayments Exclusion Amount ¹	Fixed Prepayments Exclusion Amount ¹	To Line 48	Description of the Prepayments
48	Prepayments Wages & Salary Accrual Pension Liabilities, if any, in Account 242			\$ 12	\$ 11	\$ -	\$ 12	10.138%	1	
				\$ -	\$ -	\$ -	\$ -			
	Prepayments Account 165 Prepaid Pensions if not included in Prepayments	p111.5748c		\$ 27,745	\$ 27,418	\$ 27,582	\$ 3,980	23,602	10.138%	2,380
							\$ -	10.138%	-	

¹ The Fixed Prepayments Exclusion Amount may be changed only pursuant to a Section 205 or Section 206 proceeding.

Outstanding Network Credits Cost Support

Line #s	Descriptions	Notes	Page #s & Instructions	Beginning Year Balance	End of Year Balance	Average Balance	Description of the Credits
	Network Credits						General Description of the Credits
58	Outstanding Network Credits	(Note N)	From PJM	\$ -	\$ -	\$ -	None
59	Less Accumulated Depreciation Associated with Facilities with Outstanding Network Credits	(Note N)	From PJM	\$ -	\$ -	\$ -	Add more lines if necessary

Virginia Electric and Power Company
ATTACHMENT 1a-18A
Attachment 1 - Cost Support
____ (00%)

Extraordinary Property Loss

Line #s	Descriptions	Notes	Page #s & Instructions	Amount	# of Years	Amortization	W/ Interest	Amount	Number of years	Amortization
83								\$ -		\$ -

Interest on Outstanding Network Credits Cost Support

Line #s	Descriptions	Notes	Page #s & Instructions	\$	Description of the Interest on the Credits
				\$ 0	General Description of the Credits
				Enter \$	None
					Add more lines if necessary

Facility Credits under Section 30.9 of the PJM GATT

Line #s	Descriptions	Notes	Page #s & Instructions	Amount	Description of the Facility Credits
105	Revenue Requirement Facility Credits under Section 30.9 of the PJM GATT			3,212	COERCINGEM Transmission Charges from PJM Invoices

PJM Load Cost Support

Line #s	Descriptions	Notes	Page #s & Instructions	1 CP Peak	Description & PJM Documentation
109	Network Zonal Service Rate 1 CP Peak	(Note L)	PJM Data	25,086 \$	

AGG Expenses - Other Post Employment Benefits

Line #s	Descriptions	Notes	Page #s & Instructions	Amount
	Total AGG Expenses	p323-197b		385,628
	Less OPFB Current Year			32,258
	Plus: State OPFB	Fund from FEREC accepted (\$ 205 Filing)		62,158
89	Current Year Total AGG Expenses			375,528

Interest on Long-Term Debt

Line #s	Descriptions	Notes	Page #s & Instructions	Amount
	Interest on Long-Term Debt	p117-62b through 67c		528,991
	Less Interest on Short-Term Debt Included in Account 430			(8,179)
104	Total Interest on Long-Term Debt			520,812

Income Tax Adjustments

Line #s	Descriptions	Notes	Page #s & Instructions	Transmission Depreciation Expense Amount	Tax Rate	Amount to Line 136A	Beginning Year Balance	End of Year Balance	Average
	Tax Adj. for the AFUDC Equity Component of Transmission Depr. Expense	(Notes B, C)	Inst. 1, 2, below	\$ 5,181	25.62%	\$ 1,327	\$ (2,821)	\$ (2,498)	\$ (2,659)
	Amortized Excess Deferral Deferral Taxes - Transmission Component	(Note C)	Inst. 1, 3, 4, below / Attachment SA (Enter Negative)			\$ (3,748)	\$ 45,819	\$ 44,881	\$ 45,340
	Amortized Excess Deferral Taxes	(Note C)	Inst. 1, 3, 4, below / Attachment SA (Enter Negative)			\$ 987			
	Amortized Deferral Deferral Taxes	(Note C)	Inst. 1, 3, 4, below / Attachment SA (Enter Positive)			\$ (1,488)			
136A	Total Other Income Tax Adjustments to Line 136A					\$			
	Unamortized Excess Deferral Taxes	(Note C)	Inst. 1, 3, 4, below / Attachment SA (Enter Negative)						
	Unamortized Deferral Deferral Taxes	(Note C)	Inst. 1, 3, 4, below / Attachment SA (Enter Positive)						
	Unamortized Excess Deferral Taxes Subject to Provision Requirements from Attachment 1B for Projection/TC for True-up	(Note C)	Inst. 1, 3, 4, below (Enter Negative)						
	Unamortized Deferral Deferral Taxes Subject to Provision Requirements from Attachment 1B for Projection/TC for True-up	(Note C)	Inst. 1, 3, 4, below (Enter Positive)						
47A	Unamortized Excess Deferral to Line 47A								\$ (525,121)

Inst. 1	The Capital Recovery Rate is the depreciation rate excluding salvage and cost of removal applicable to the included assets.
Inst. 2	Transmission Depreciation Expense Amount is (1) the gross cumulative amount based upon the records of capitalized AFUDC equity embedded in the transmission function multiplied by (2) the Capital Recovery Rate (described in Instruction 1). For 2018, determine the expense amounts for each of September through December and include only the sum of those four monthly amounts. The amount entered will be supported by work papers. Tax Rate is from Appendix A, Line 134.
Inst. 3	Upon enactment of changes in tax law, deferred taxes are re-measured and adjusted in the Company's books of account, resulting in excess or deficient accumulated deferred taxes. Such excess or deficient deferred taxes attributable to the transmission function (separately referred to as "Excess/Deferral") will be based upon the records and calculated in the calendar year in which the excess or deficient amount was measured and recorded for financial reporting purposes. Each Excess/Deferral will be included by any offsetting balance of a previous Excess/Deferral attributable to the same being carried forward before being multiplied by the Capital Recovery Rate in effect at the inception of the Excess/Deferral to determine the annual amortization amount. Amortization in the first and last years will include only the appropriate number of months. For each re-measurement of deferred taxes, the amount entered will be supported by work papers providing the Excess/Deferral, the amount amortized during the applicable year, and the unamortized balance at the end of the applicable year. Do not include amounts amortized prior to September 1, 2018.
Inst. 4	The Beginning Balance is the sum of the Excess/Deferrals less any associated amortization recognized in prior years.

Electric Plant Acquisition Adjustments Approved by FEREC

Line #s	Descriptions	Notes	Page #s & Instructions	Form 1 Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Form 1 Dec	Average	Non-electric Portion	Details
60A	Acquisition Adjustments Amount		Inst. 1		8,804	8,804	8,804	8,804	8,804	8,804	8,804	8,804	8,804	8,804	8,804	8,804	8,804	0	
60B	Accumulated Provision for Amortization of Line 60A Amount		Inst. 2	700	717	734	751	768	785	802	819	836	853	870	887	904	802	0	
90A	Amortization of Acquisition Adjustments Amount		Inst. 3														205		
45A	Accumulated Deferred Income Taxes Attributable to Acquisition Adjustments	Note 1	Inst. 4	(495)												(495)	(495)		

Inst. 1	For each month enter the amount included in FEREC Account 114 attributable to the Wheeler Line Acquisition Adjustment for the applicable month.
Inst. 2	For each month enter the amount included in FEREC Account 119 attributable to the Wheeler Line Acquisition Adjustment for the applicable month.
Inst. 3	For each year enter the amount of amortization included in FEREC Account 45B attributable to the Wheeler Line Acquisition Adjustment but exclude the portion of any such amount that is amortized prior to the effective date.
Inst. 4	For each year enter the amount of Accumulated Deferred Income Tax ("ADIT") attributable to the Wheeler Line Acquisition Adjustment for the applicable year.
Note 1	This amount is not to be included in the ADIT allocated to transmission shown on line 45 but is to be included on line 45A only if the associated acquisition adjustment is approved by the FEREC.

Virginia Electric and Power Company
ATTACHMENT H-16A
Attachment 6 - True-up Adjustment for Network Integration Transmission Service

The True-Up Adjustment component of the Formula Rate for each Rate Year beginning with 2010 shall be determined as follows:¹

- (i) Beginning with 2009, no later than June 15 of each year VEPCO shall recalculate an adjusted Annual Transmission Revenue Requirement for the previous calendar year based on its actual costs as reflected in its Form No. 1 and its books and records for that calendar year, consistent with FERC accounting policies.²
- (ii) VEPCO shall determine the difference between the recalculated Annual Transmission Revenue Requirement as determined in paragraph (i) above, and ATRR based on projected costs for the previous calendar year (True-Up Adjustment Before Interest).
- (iii) The True-Up Adjustment shall be determined as follows:

True-Up Adjustment equals the True-Up Adjustment Before Interest multiplied by $(1+i)^{24}$ months

Where: $i =$ Sum of (the monthly rates for the 7 months ending July 31 of the current year and the monthly rates for the 12 months ending December 31 of the preceding year) divided by 19 months.

Each monthly rate used to calculate i shall be calculated pursuant to the Commission's regulations at 18 C.F.R. § 35.19a.

Summary of Formula Rate Process including True-Up Adjustment

Month	Year	Action
Fall	2007	TO populates the formula with Year 2008 estimated data
Sept	2008	TO populates the formula with Year 2009 estimated data
June	2009	TO populates the formula with Year 2008 actual data and calculates the 2008 True-Up Adjustment Before Interest
Sept	2009	TO calculates the Interest to include in the 2008 True-Up Adjustment
Sept	2009	TO populates the formula with Year 2010 estimated data and 2008 True-Up Adjustment
June	2010	TO populates the formula with Year 2009 actual data and calculates the 2009 True-Up Adjustment Before Interest
Sept	2010	TO calculates the Interest to include in the 2009 True-Up Adjustment
Sept	2010	TO populates the formula with Year 2011 estimated data and 2009 True-Up Adjustment
June	(Year)	TO populates the formula with (Year -1) actual data and calculates the (Year-1) True-Up Adjustment Before Interest
Sept	(Year)	TO calculates the Interest to include in the (Year-1) True-Up Adjustment
Sept	(Year)	TO populates the formula with (Year +1) estimated data and (Year-1) True-Up Adjustment

¹ No True-Up Adjustment will be included in the Annual Transmission Revenue Requirement for 2008 or 2009 since the Formula Rate was not in effect for 2006 or 2007.

² To the extent possible each input to the Formula Rate used to calculate the actual Annual Transmission Revenue Requirement included in the True-Up Adjustment either will be taken directly from the FERC Form No. 1 or will be reconcilable to the FERC Form No. 1 by the application of clearly identified and supported information. If the reconciliation is provided through a worksheet included in the filed Formula Rate template, the inputs to the worksheet must meet this transparency standard, and doing so will satisfy this transparency requirement for the amounts that are output from the worksheet and input to the main body of the Formula Rate.

Calendar Year Do for Each Calendar Year beginning in 2009

A	ATRR based on actual costs included for the previous calendar year but excludes the true-up adjustment.	1,058,765.60
B	ATRR based on projected costs included for the previous calendar year but excludes the true-up adjustment.	1,013,330.52
C	Difference (A-B)	45,435
D	Future Value Factor $(1+i)^{24}$	1.10749
E	True-up Adjustment $(C \times D)$	50,319

Where:

i = interest rate as described in (iii) above.

Virginia Electric and Power Company
ATTACHMENT H-16A

Attachment 6A - True-up Adjustment for Annual Revenue Requirements recovered under Schedule 12

The True-Up Adjustment component of the annual revenue requirement for each project included in Attachment 7 for each Rate Year beginning with 2010 shall be determined as follows:¹

- (i) Beginning with 2009, no later than June 15 of each year VEPCO shall recalculate an adjusted Annual Revenue Requirement for the previous calendar year based on its actual costs as reflected in its Form No. 1 and its books and records for that calendar year, consistent with FERC accounting policies.²
- (ii) VEPCO shall determine the difference between the recalculated Annual Revenue Requirement and the Annual Revenue Requirement based on its projections (True-Up Adjustment Before Interest).
- (iii) The True-Up Adjustment for each project shall be determined as follows:

True-Up Adjustment equals the True-Up Adjustment Before Interest multiplied by $(1+i)^{24}$ months

Where $i =$ Sum of (the monthly rates for the 7 months ending July 31 of the current year and the monthly rates for the 12 months ending December 31 of the proceeding year) divided by 19 months.

Each monthly rate used to calculate i shall be calculated pursuant to the Commission's regulations at 18 C.F.R. § 35.19a.

Summary of Formula Rate Process including True-Up Adjustment

Month Year Action

Fall	2007	TO populates the formula with Year 2008 estimated data
Sept	2008	TO populates the formula with Year 2009 estimated data
June	2009	TO populates the formula with Year 2008 actual data and calculates the 2008 True-Up Adjustment Before Interest
Sept	2009	TO calculates the Interest to include in the 2008 True-Up Adjustment
Sept	2009	TO populates the formula with Year 2010 estimated data and 2008 True-Up Adjustment
June	2010	TO populates the formula with Year 2009 actual data and calculates the 2009 True-Up Adjustment Before Interest
Sept	2010	TO calculates the Interest to include in the 2009 True-Up Adjustment
Sept	2010	TO populates the formula with Year 2011 estimated data and 2009 True-Up Adjustment
June	(Year)	TO populates the formula with (Year -1) actual data and calculates the (Year-1) True-Up Adjustment Before Interest
Sept	(Year)	TO calculates the Interest to include in the (Year-1) True-Up Adjustment
Sept	(Year)	TO populates the formula with (Year +1) estimated data and (Year-1) True-Up Adjustment

¹ No True-Up Adjustment will be included in the annual revenue requirements for 2008 or 2009 since the Formula Rate was not in effect for 2006 or 2007. For all true-up calculations, the ATRR will be adjusted to exclude any true-up adjustment.

² To the extent possible, each input to the Formula Rate used to calculate the actual Annual Revenue Requirement included in the True-Up Adjustment either will be taken directly from the FERC Form No. 1 or will be reconcilable to the FERC Form No. 1 by the application of clearly identified and supported information. If the reconciliation is provided through a worksheet included in the filed Formula Rate template, the inputs to the worksheet must meet this transparency standard, and doing so will satisfy this transparency requirement for the amounts that are output from the worksheet and input to the main body of the Formula Rate.

[illegible]

[illegible]

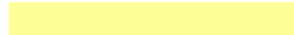
Virginia Electric and Power Company
ATTACHMENT H-16A
Attachment 8 - Securitization Workpaper
(000's)

Line #

Long Term Interest
105 Less LTD Interest on Securitization Bonds



Capitalization
115 Less LTD on Securitization Bonds



Virginia Electric and Power Company
ATTACHMENT H-16A
Attachment 9 - Depreciation Rates¹

Depreciation Rates Applicable Through March 31, 2013

<u>Plant Type</u>	<u>Applied Depreciation Rate</u>
Transmission Plant	
Land	
Land Rights	1.36%
Structures and Improvements	1.41%
Station and Equipment	2.02%
Towers and Fixtures	2.36%
Poles and Fixtures	1.89%
Overhead conductors and Devices	1.90%
Underground Conduit	1.74%
Underground Conductors and Devices	2.50%
Roads and Trails	1.17%
General Plant	
Land Rights	1.70%
Structures and Improvements - Major	1.82%
Structures and Improvements - Other	2.26%
Communication Equipment	3.20%
Communication Equipment - Clearing	6.22%
Communication Equipment - Massed	6.22%
Communication Equipment - 25 Years	3.72%
Office Furniture and Equipment - EDP Hardware	27.38%
Office Furniture and Equipment - EDP Fixed Location	12.21%
Office Furniture and Equipment	1.64%
Laboratory Equipment	4.23%
Miscellaneous Equipment	2.53%
Stores Equipment	5.08%
Power Operated Equipment	8.16%
Tools, Shop and Garage Equipment	4.76%
Electric Vehicle Recharge Equipment	13.23%

¹Depreciation rates may be changed only pursuant to a Section 205 or Section 206 proceeding.

Virginia Electric and Power Company
ATTACHMENT H-16A
Attachment 9 - Depreciation Rates (Continued)¹

Depreciation Rates Applicable On April 1, 2013 And Through December 31, 2016

<u>Plant Type</u>	<u>Applied Depreciation Rate</u>
Transmission Plant	
Land	
Land Rights	1.17%
Structures and Improvements	1.53%
Station Equipment	2.89%
Station Equipment - Power Supply Computer Equipment	10.46%
Towers and Fixtures	2.08%
Poles and Fixtures	2.11%
Overhead conductors and Devices	1.92%
Underground Conduit	1.65%
Underground Conductors and Devices	1.92%
Roads and Trails	1.06%
General Plant	
Land	
Land Rights	1.71%
Structures and Improvements - Major	1.95%
Structures and Improvements - Other	2.82%
Office Furniture and Equipment	2.68%
Office Furniture and Equipment - EDP Hardware	15.26%
Office Furniture and Equipment - EDP Fixed Location	7.26%
Transportation Equipment	3.90%
Stores Equipment	2.52%
Tools, Shop and Garage Equipment	4.32%
Laboratory Equipment	3.69%
Power Operated Equipment	4.75%
Communication Equipment	3.14%
Communication Equipment - Massed	5.97%
Communication Equipment - 25 Years	2.48%
Miscellaneous Equipment	6.67%

¹Depreciation rates may be changed only pursuant to a Section 205 or Section 206 proceeding.

Virginia Electric and Power Company
ATTACHMENT H-16A
Attachment 9 - Depreciation Rates (Continued)¹

Depreciation Rates Applicable On And After January 1, 2017

<u>Plant Type</u>	<u>Applied Depreciation Rate</u>
Transmission Plant	
Land	
Land Rights	1.31%
Structures and Improvements	1.59%
Station Equipment	3.05%
Station Equipment - Power Supply Computer Equipment	7.21%
Towers and Fixtures	2.30%
Poles and Fixtures	2.33%
Overhead conductors and Devices	2.18%
Underground Conduit	2.10%
Underground Conductors and Devices	2.03%
Roads and Trails	1.06%
General Plant	
Land	
Land Rights	1.49%
Structures and Improvements-Major	2.38%
Structures and Improvements-Other	2.24%
Office Furniture and Equipment - 2012 and Prior	8.97%
Office Furniture and Equipment - 2013 and Subsequent	6.67%
Office Furniture and Equipment-EDP Hardware - 2012 and Prior	65.49%
Office Furniture and Equipment-EDP Hardware - 2013 and Subsequent	20.00%
Office Furniture and Equipment-EDP Fixed Location - 2012 and Prior	10.83%
Office Furniture and Equipment-EDP Fixed Location - 2013 and Subsequent	20.00%
Transportation Equipment	5.75%
Stores Equipment - 2012 and Prior	4.25%
Stores Equipment - 2013 and Subsequent	4.00%
Tools, Shop, and Garage Equipment - 2012 and Prior	3.70%
Tools, Shop, and Garage Equipment - 2013 and Subsequent	4.00%
Tools, Shop, and Garage Equipment-Electric Vehicles	0.00%
Laboratory Equipment - 2012 and Prior	4.12%
Laboratory Equipment - 2013 and Subsequent	4.00%
Power Operated Equipment	6.49%
Communication Equipment - 2012 and Prior	3.70%
Communication Equipment - 2013 and Subsequent	4.00%
Communication Equipment-Clearing	0.00%
Communication Equipment-Massed - 2012 and Prior	8.61%
Communication Equipment-Massed - 2013 and Subsequent	6.67%
Communication Equipment-25 Years - 2012 and Prior	2.66%
Communication Equipment-25 Years - 2013 and Subsequent	4.00%
Miscellaneous Equipment - 2012 and Prior	7.15%
Miscellaneous Equipment - 2013 and Subsequent	6.67%

¹Depreciation rates may be changed only pursuant to a Section 205 or Section 206 proceeding.

Attachment 10

Incremental Undergrounding Costs of the Garrisonville, Pleasant View, and NIVO Underground Projects

Section 1 -- Purpose

This Attachment 10 determines the appropriate amount of undergrounding costs to be allocated to each Network Customer for their Virginia loads in the Dominion Zone in accordance with the March 20, 2014 order of the Federal Energy Regulatory Commission in Docket No. EL10-49-005 and in compliance with the Federal Energy Regulatory Commission's October 19, 2017 Order on Initial Decision issued in Opinion No. 555. To provide compensation for these costs, each Network Customer with Virginia loads in the Dominion Zone shall pay a monthly Demand Charge, which shall be known as the "UG Transmission Charge" as determined herein.

Section 2 -- Underground ("UG") Transmission Project Descriptions

The projects are generally described below. The projects may be modified resulting in changes to their costs.

Garrisonville	The Aquia Harbor Terminal Station, the Garrisonville Substation excluding the distribution assets and the 230 kV shunt reactor banks in Garrisonville Substation, two underground transmission lines with associated duct systems running from Aquia Harbor Terminal Station to Garrisonville Substation, and modifications to transmission line protection equipment at Fredericksburg and Possum Point substations to interface with equipment at Aquia Harbor Terminal Station.
Pleasant View	An overhead transmission line running from Pleasant View Substation to Dry Mill South Station, facilities in Pleasant View Substation to facilitate connection of such transmission line, Dry Mill South Station, an underground transmission line with associated duct systems running from Dry Mill South Station to Breezy Knoll Station, Breezy Knoll Station, an overhead transmission line running from Breezy Knoll Station to Hamilton Substation, and Hamilton Substation excluding the distribution assets and the 230 kV shunt reactor bank in Hamilton Substation.
NIVO	Two underground transmission lines with associated duct system running from Beaumeade Substation to NIVO Substation, the NIVO Substation excluding distribution assets in NIVO Substation, and the facilities in Beaumeade Substation to facilitate connection of the two new underground transmission lines.

Attachment 10 (Continued)**Section 3 -- Determination of the Total Incremental Undergrounding Costs Revenue Requirement**

The Total Incremental Undergrounding Costs Revenue Requirement shall be determined as set forth in the formula

Instructions:

1. Calculate this formula using data for Year on line 1.
2. On line 1, enter the year.
3. Lines 2a, 2b and 2c are the applicable UG Project Revenue Requirements consistent with the note below from either Attachment 10A if the applicable year is prior to 2015 or from Attachment 10B if the applicable year is after 2014.

Line	Description			Year
1	Enter the Rate Year			2021
(In Dollars)				
	(1)	(2)	(3)	(4)
	Project Name	Requirement	Adjustment Factors	Undergrounding
2a	Garrisonville	\$13,119,062	92.49%	\$12,133,244
2b	Pleasant View	\$8,784,168	23.37%	\$2,052,502
2c	NIVO	\$1,019,503	22.09%	\$225,224
3	Total Incremental Undergrounding Costs Revenue Requirement			\$14,410,970

NOTE: All column 2 amounts are for the year indicated on line 1 and include true-up adjustments for the calendar year that is two years prior to that year. However in the event that a one-time net refund settlement addresses the charges and credits for a calendar year, the true-up adjustment for that calendar year shall equal zero. The revenue requirements in column (2) and column (4) include depreciation, return on capital investment, income taxes, and accumulated deferred income taxes (ADIT) , and property taxes in accordance with Opinion No. 555 Order on Initial Decision in FERC Docket No. EL10-49-005 . The Adjustment Factors set forth in column (3) are the ratio of the Estimated Incremental Underground Capital Costs divided by the Total Capital Costs shown on page 8 of Opinion No. 555 Order on Initial Decision in FERC Docket No. EL10-49-005 and shall not be changed except pursuant to a filing under the appropriate of Section 205 or 206.

Attachment 10 (Continued)**Section 4 --Annual UG Transmission Rate**

The Annual UG Transmission Rate shall be calculated as follows:

Instructions:

1. On line 6, enter the portion of the amount on line 5 attributable to load located in Virginia as determined by PJM state estimator load bus data at the time of annual peak of the Dominion Zone.

Line	Description	Amounts
4	Total Incremental Undergrounding Costs Revenue Requirement (from Line 3) (dollars per year)	\$14,410,970
5	Dominion Zone NSPL 1 CP Peak from Appendix A, line 169 (in Megawatts)	20,086.5
6	Virginia Portion of the Dominion Zone NSPL (Analysis of PJM load bus data) (in Megawatts)	19,375.6
7	Annual UG Transmission Rate (dollars per MW-year) (line 4 ÷ line 6)	\$743.77

Attachment 10 (Continued)**Section 5 -- Billing**

The UG Transmission Charge shall be billed in accordance with the PJM billing procedure applied to billing the monthly Demand Charge for Zone Network Loads in Section 34.1 of the PJM Tariff, but for purposes of this calculation, the Zone Network Loads (including losses) at the time of the annual peak of the Zone in which the load is located shall include only Virginia loads in the Dominion Zone. If necessary, PJM state estimator load bus MWs at the time of the annual peak of the Dominion Zone shall be used to separate Virginia loads from other loads in the Dominion Zone. VEPCO shall provide to PJM the contribution of each Network Customer's Virginia Portion of the Dominion Zone NSPL. Also, for the purpose of calculating the UG Transmission Charge in accordance with this attachment, the Annual UG Transmission Rate calculated on line 7 above shall be used instead of the rate for Network Integration Transmission Service ("RTZ").

Section 6 -- Revenue Crediting

- A. For calculating the Annual Transmission Revenue Requirement and rate for Network Integration Transmission Service used for billing, the Total UG Project Adjusted Revenue Requirement amount, shown on line 4 of Section 4, shall be included in line 9 of Attachment 3, provided that the Annual Transmission Revenue Requirement is not one of the Annual Transmission Revenue Requirements used to determine refunds to each Network Customer as part of a net refund or charge settlement process that is in addition to the normal formula rate cycle billing process.
- B. For calculating the annual true-up, the UG Transmission Charge revenues received by the Company shall be included in line 9 of Attachment 3, provided that the UG Transmission Charge revenues for the applicable year are not distributed to each Network Customer as part of a net refund or charge settlement process that is in addition to the normal formula rate cycle billing process.

Inst. 1

For each month the amount included in Electric Plant in Service attributable to the UG Project for the applicable month.

Inst. 2

For each month the amount included in the Accumulated Provision for Depreciation of Electric Plant in Service attributable to the UG Project for the applicable month, and for each year enter the applicable depreciation expense.

Inst. 3

For each year enter the amount of Accumulated Deferred Income Tax ("ADIT") attributable to the UG Project for December 31 of each year.

Inst. 4

For each year enter the amount of Property Tax attributable to the UG Project.

Pleasant View UG Project Revenue Requirement

		Previous Year		Current Year													
Line #s	Descriptions	Notes	Page #s & Instructions	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Amount
1	Electric Plant in Service	Note 1	Inst. 1														-
2	Accumulated Depreciation	Note 1	Inst. 2														-
3	Accumulated Deferred Income Taxes	Note 2	Inst. 3														-
4	Applicable Rate Base		Line (1 + 2 + 3)														-
5	Return	Note 3	Line 4 * (Appendix A Line 129 + Incentive)														-
6	Income Taxes associated with Equity Return	Note 3	Line 5 * Appendix A Line 137 * (1/126 / (129 + Incentive))														-
7	Transmission Related Income Tax Adjustments		Line 6 * Appendix A Line (138 / 139)														-
8	Total Income Tax Provision		Line (6 + 7)														-
9	Depreciation-Transmission		Inst. 2														-
10	Property Tax		Inst. 4														-
11	UG Project Revenue Requirement		Line (5 + 8 + 9 + 10)														-
12	Projected UG Project Revenue Requirement for Previous Calendar Year	Note 4															-
13	Actual UG Project Revenue Requirement for Previous Calendar Year	Note 4															-
14	True-Up Adjustment Before Interest for Previous Calendar Year		Line (13 - 12)														0
15	Future Value Factor (1+)(*)24 months		Attachment 6														1,10749
16	True-Up Adjustment		Line (14 * 15)														-
17	UG Project Revenue Requirement including True-up Adjustment, if applicable		Line (11 + 16)														-
																	-
Note 1				The value in the amount column is calculated using 13 month average balance.													
Note 2				The value in the amount column is calculated using average of beginning and end of year balances.													
Note 3				Per FERC order in Docket No. ER08-1207-002, the ROE for each specific project identified in that order will also include either an 150 or 125 basis point transmission incentive adder as authorized by the Commission. The Incentive for Pleasant View + 125 basis points Authorized Incentive. Adder times the Common Equity % from Appendix A Line 122 + 0.006													
Note 4				These amounts do not include any True-Up Adjustments.													

Garrisonville UG Project Revenue Requirement

		Previous Year		Current Year													
Line #s	Descriptions	Notes	Page #s & Instructions	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Amount
1	Electric Plant in Service	Note 1	Inst. 1														-
2	Accumulated Depreciation	Note 1	Inst. 2														-
3	Accumulated Deferred Income Taxes	Note 2	Inst. 3														-
4	Applicable Rate Base		Line (1 + 2 + 3)														-
5	Return	Note 3	Line 4 * (Appendix A Line 129 + Incentive)														-
6	Income Taxes associated with Equity Return	Note 3	Line 5 * Appendix A Line 137 * (1/126 / (129 + Incentive))														-
7	Transmission Related Income Tax Adjustments		Line 6 * Appendix A Line (138 / 139)														-
8	Total Income Tax Provision		Line (6 + 7)														-
9	Depreciation-Transmission		Inst. 2														-
10	Property Tax		Inst. 4														-
11	UG Project Revenue Requirement		Line (5 + 8 + 9 + 10)														-
12	Projected UG Project Revenue Requirement for Previous Calendar Year	Note 4															-
13	Actual UG Project Revenue Requirement for Previous Calendar Year	Note 4															-
14	True-Up Adjustment Before Interest for Previous Calendar Year		Line (13 - 12)														0
15	Future Value Factor (1+)(*)24 months		Attachment 6														1,10749
16	True-Up Adjustment		Line (14 * 15)														-
17	UG Project Revenue Requirement including True-up Adjustment, if applicable		Line (11 + 16)														-
																	-
Note 1				The value in the amount column is calculated using 13 month average balance.													
Note 2				The value in the amount column is calculated using average of beginning and end of year balances.													
Note 3				Per FERC order in Docket No. ER08-1207-002, the ROE for each specific project identified in that order will also include either an 150 or 125 basis point transmission incentive adder as authorized by the Commission. The Incentive for Garrisonville + 125 basis points Authorized Incentive. Adder times the Common Equity % from Appendix A Line 122 + 0.006													
Note 4				These amounts do not include any True-Up Adjustments.													

NVO UG Project Revenue Requirement				Previous Year												Current Year												Amount
Line #	Descriptions	Notes	Page #s & Instructions	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	Electric Plant in Service	Note 1	Inst. 1														-											
2	Accumulated Depreciation	Note 1	Inst. 2														-											
3	Accumulated Deferred Income Taxes	Note 2	Inst. 3														-											
4	Applicable Rate Base		Line (1 + 2 + 3)														-											
5	Return		Line 4 * (Appendix A Line 129)														-											
6	Income Taxes associated with Equity Return		Line 5* Appendix A Line 137 / (1+126 / 129)														-											
7	Transmission Related Income Tax Adjustments		Line 6* Appendix A Line (138 / 139)														-											
8	Total Income Tax Provision		Line (6 + 7)														-											
9	Depreciation-Transmission		Inst. 2														-											
10	Property Tax		Inst. 4														-											
11	UG Project Revenue Requirement		Line (5 + 8 + 9 + 10)														-											
12	Projected UG Project Revenue Requirement for Previous Calendar Year	Note 3															-											
13	Actual UG Project Revenue Requirement for Previous Calendar Year	Note 3															-											
14	True-Up Adjustment Before Interest for Previous Calendar Year		Line (13 - 12)														0											
15	Future Value Factor (1+) ¹² 24 months		Attachment 6														1.10749											
16	True-Up Adjustment		Line (14 * 15)														-											
17	UG Project Revenue Requirement including True-up Adjustment, if applicable		Line (11 + 16)														-											
Note 1	The value in the amount column is calculated using 13 month average balance																											
Note 2	The value in the amount column is calculated using average of beginning and end of year balances																											
Note 3	These amounts do not include any True-Up Adjustments.																											

Inst. 1

For each month enter the amount included in the Accumulated Provision for Depreciation of Electric Plant in Service attributable to the UG Project for the applicable month, and for each year enter the applicable depreciation expense.

Inst. 2

For each year enter the amount of Accumulated Deferred Income Tax ("ADIT") attributable to the UG Project for December 31 of each year.

Inst. 3

For each year enter the amount of Property Tax attributable to the UG Project.

Pleasant View UG Project Revenue Requirement

Line #s	Descriptions	Notes	Page #s & Instructions	Current Year												Amount
				Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
1	Electric Plant in Service	Note 1		86,031.713	86,031.713	86,031.713	86,031.713	86,031.713	86,031.713	86,031.713	86,031.713	86,031.713	86,031.713	86,031.713	86,031.713	86,031.713
2	Accumulated Depreciation	Note 1	4 Inst. 1	(18,178.733)	(18,335.023)	(18,491.314)	(18,647.605)	(18,803.896)	(18,960.187)	(19,116.478)	(19,272.769)	(19,429.060)	(19,585.351)	(19,741.642)	(19,897.933)	(19,116.478)
3	Accumulated Deferred Income Taxes	Note 2	Inst. 2													(3,759.126)
4	Applicable Rate Base	Note 3	Line 1 - (2 + 3)	(3,759.126)												
5	Return	Note 3	Line 4 * [Appendix A Line 129 ÷ Incentive]													5,510.838
6	Income Taxes associated with Equity Return	Note 3	Line 5 * Appendix A Line 137 * (1-(126 / 129) ÷ Incentive)													1,454.505
7	Transmission Related Income Tax Adjustments	Note 3	Line 6 * Appendix A Line 138 / 139													(20.93)
8	Total Income Tax Provision	Note 3	Line 6 - (+)													1,633.572
9	Depreciation-Transmission	Note 1	Inst. 1													1,875.491
10	Property Tax	Note 3	Line 5 + 8 + 9 + 10													163.786
11	UG Project Revenue Requirement															8,963.887
12	Projected UG Project Revenue Requirement for Previous Calendar Year	Note 4														9,881.432
13	Actual UG Project Revenue Requirement for Previous Calendar Year	Note 4														9,421.279
14	True-Up Adjustment Before Interest for Previous Calendar Year		Line (13 - 12)													(180.154)
15	Future Value Factor (1+)(-)/24 months		Attachment 6													1.10749
16	True-Up Adjustment		Line (14 * 15)													(199.519)
17	UG Project Revenue Requirement including True-up Adjustment, if applicable		Line (11 + 16)													8,764.568
Note 1				The value in the amount column is calculated using 13 month average balance.												
Note 2				The value in the amount column is calculated using average of beginning and end of year balances.												
Note 3				Per FERC order in Docket No. ER08-1207-002, the ROE for each specific project identified in that order will also include either an 150 or 125 basis point transmission incentive adder as authorized by the Commission. The incentive for Pleasant View = 125 basis points Authorized Incentive Adder times the Common Equity % from Appendix A Line 122 +												
Note 4				These amounts do not include any True-Up Adjustments.												

Garrisonville UG Project Revenue Requirement

Line #s	Descriptions	Notes	Page #s & Instructions	Current Year												Amount
				Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
1	Electric Plant in Service	Note 1		136,918.173	136,918.173	136,918.173	136,918.173	136,918.173	136,918.173	136,918.173	136,918.173	136,918.173	136,918.173	136,918.173	136,918.173	136,918.173
2	Accumulated Depreciation	Note 1	Inst. 1	(20,323.300)	(20,619.300)	(20,915.301)	(21,211.301)	(21,507.301)	(21,803.302)	(22,099.302)	(22,395.302)	(22,691.303)	(22,987.304)	(23,283.304)	(23,579.305)	(23,875.306)
3	Accumulated Deferred Income Taxes	Note 2	Inst. 2													(25,866.930)
4	Applicable Rate Base	Note 1	Line 1 - (2 + 3)	(25,866.930)												
5	Return	Note 3	Line 4 * [Appendix A Line 129 ÷ Incentive]													6,076.861
6	Income Taxes associated with Equity Return	Note 3	Line 5 * Appendix A Line 137 * (1-(126 / 129) ÷ Incentive)													1,603.530
7	Transmission Related Income Tax Adjustments	Note 3	Line 6 * Appendix A Line 138 / 139													(23.082)
8	Total Income Tax Provision	Note 3	Line 6 - (+)													1,580.748
9	Depreciation-Transmission	Note 1	Inst. 1													4,176.004
10	Property Tax	Note 3	Line 5 + 8 + 9 + 10													888.691
11	UG Project Revenue Requirement															12,720.244
12	Projected UG Project Revenue Requirement for Previous Calendar Year	Note 4														13,507.154
13	Actual UG Project Revenue Requirement for Previous Calendar Year	Note 4														13,967.254
14	True-Up Adjustment Before Interest for Previous Calendar Year		Line (13 - 12)													360.109
15	Future Value Factor (1+)(-)/24 months		Attachment 6													1.10749
16	True-Up Adjustment		Line (14 * 15)													396.818
17	UG Project Revenue Requirement including True-up Adjustment, if applicable		Line (11 + 16)													13,119.082
Note 1				The value in the amount column is calculated using 13 month average balance.												
Note 2				The value in the amount column is calculated using average of beginning and end of year balances.												
Note 3				Per FERC order in Docket No. ER08-1207-002, the ROE for each specific project identified in that order will also include either an 150 or 125 basis point transmission incentive adder as authorized by the Commission. The incentive for Garrisonville = 125 basis points Authorized Incentive Adder times the Common Equity % from Appendix A Line 122 +												
Note 4				These amounts do not include any True-Up Adjustments.												

Attachment 11

Capital Investment Recovery of Previous Jointly-Owned Assets

Section 1 -- Purpose

This Attachment 11 determines the appropriate amount of revenue requirement to be assigned to Allegheny Generating Company, Monongahela Power Company, The Potomac Edison Company, and West Penn Power Company (collectively form "Allegheny Power ") to recover the return, income taxes and depreciation and property taxes attributed to the assets acquired by VEPCO in accordance with Schedule 1 and Exhibit C of the Purchase Sale Agreement dated December 11, 2017 by and between Allegheny Generating Company and Virginia Electric and Power Company. These assets are described in Section 2 and collectively are referred to as the "Previous Jointly-Owned Assets".

Section 2 -- Previous Jointly-Owned Assets Descriptions

The Previous Jointly-Owned Assets are generally described below. Each facility may be modified and its costs shall reflect future retirements and additions. To the extent any segment or part of the facility is not eligible for inclusion in Attachment 7, a capital investment revenue requirement shall be determined for that segment or part as determined by this Attachment 11 and Attachment 11A.

a. Bath Assets

- | | | |
|-------|--|--|
| a.i | 500 kV Bath-Lexington
Transmission Line | Previous undivided ownership interest of Allegheny Generating Company in the following assets related to the Bath County hydroelectric facility in Virginia: the Air Entrance Bushings, associated air bus leads that connect from the generator step up transformers to the Air Entrance Bushings on the Gas Insulated Switchgear (GIS) including associated lightning arresters and Coupling Capacitor Potential Devices (CCPDs), the GIS, the 500kV Bath-Lexington transmission line, the 500kV Bath-Valley transmission line and associated protective relaying, control and communications. |
| a.ii | 500 kV Bath-Valley
Transmission Line | |
| a.iii | Bath Substation
Transmission Assets | |

Section 3 -- Determination of the Total Previous Jointly-Owned Assets Capital Investment Revenue Requirement

The Total Previous Jointly-Owned Assets Capital Investment Revenue Requirement shall be determined as set forth in the formula below.

Instructions:

1. Calculate this formula using data for Year on line 1.
2. On line 1, enter the year.
3. Line 2 is the applicable Previous Jointly-Owned Asset's Capital Investment Revenue Requirement consistent with the note below from Attachment 11A.

Line	Description			Year
1	Enter the Rate Year			2021
	(In Dollars)			
	(1)	(2)	(3)	(4)
	Previous Jointly-Owned Assets Name	Capital Investment Revenue Requirement	Adjustment Factors	Total

2a.i	500 kV Bath-Lexington Transmission Line	\$1,776,168	40.00%	\$710,467
2.a.ii	500 kV Bath-Valley Transmission Line	\$2,760,394	40.00%	\$1,104,157
2.a.iii	Bath Substation Transmission Assets	\$5,130,674	40.00%	\$2,052,270
3	Total Previous Jointly-Owned Assets' Capital Investment Revenue Requirement			\$3,866,894

NOTE: All column 2 amounts are for the year indicated on line 1 and include true-up adjustments for the calendar year that is two years prior to that year. The revenue requirements in column (2) and column (4) include depreciation, return on capital investment, income taxes, and property taxes.

Attachment 11 (Continued)**Section 4 --Previous Jointly-Owned Assets Monthly Charge**

Line	Description	Amounts
4	Total Previous Jointly-Owned Assets' Capital Investment Revenue Requirement (from Line 3) (dollars per year)	\$3,866,894
5	Previous Jointly-Owned Assets' Capital Monthly Charge (dollars per month) (line 4 ÷ 12 months)	\$322,241

Section 5 -- Billing

PJM shall bill the Previous Jointly-Owned Assets' Monthly Charge to the TO Account specified by Allegheny Power in the Allegheny (APS) Transmission Zone.

Section 6 -- Revenue Crediting

- A. For calculating the Annual Transmission Revenue Requirement and rate for Network Integration Transmission Service used for billing, the Total Previous Jointly-Owned Assets' Capital Investment Revenue Requirement amount, shown on line 4 of Section 4, shall be included in line 9 of Attachment 3.

Virginia Electric and Power Company

Attachment 11A - Previous Jointly-Owned Assets' Capital Investment Revenue Requirement

Year = 2021

- Inst. 1 For each month enter the amount included in Electric Plant in Service attributable to the Previous Jointly-Owned Assets for the applicable month.
 Inst. 2 For each month enter the amount included in the Accumulated Provision for Depreciation of Electric Plant in Service attributable to the Previous Jointly-Owned Assets for the applicable month, and for each year enter the applicable depreciation expense.
 Inst. 3 For each year enter the amount of Accumulated Deferred Income Tax ("ADIT") attributable to the Previous Jointly-Owned Assets for December 31 of each year.
 Inst. 4 For each year enter the amount of Property Tax attributable to the Previous Jointly-Owned Assets.

a.i. Previous Jointly-Owned Assets (500 KV Bath-Lexington transmission line) Capital Investment Revenue Requirement

A.1. Previous Jointly-Owned Assets (500 kv Bath-Lexington transmission line) Capital Investment Revenue Requirement				Previous Year												Current Year												Amount		
Line #s	Descriptions	Notes	Page #s & Instructions	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct		Nov	Dec
1	Electric Plant in Service	Note 1	Inst. 1																											23,847,364
2	Accumulated Depreciation	Note 1	Inst. 2	23,847,364	23,847,364	23,847,364	23,847,364	23,847,364	23,847,364	23,847,364	23,847,364	23,847,364	23,847,364	23,847,364	23,847,364	23,847,364	23,847,364	23,847,364	23,847,364	23,847,364	23,847,364	23,847,364	23,847,364	23,847,364	23,847,364	23,847,364	23,847,364	23,847,364	23,847,364	(14,690,577)
3	Accumulated Deferred Income Taxes	Note 1	Inst. 3	(14,437,485)	(14,474,607)	(14,517,849)	(14,561,031)	(14,604,213)	(14,647,395)	(14,690,577)	(14,733,759)	(14,776,941)	(14,820,123)	(14,863,305)	(14,906,487)	(14,949,669)														(372,661)
4	Applicable Rate Base		Line (1 + 2 + 3)																											8,844,126
5	Return		Line 4 * (Appendix A Line 129)																											713,294
6	Income Taxes associated with Equity Return		Line 5 * Appendix A Line 135 * (1-(126 / 129))																											163,556
7	Transmission Related Income Tax Adjustments		Line 6 * Appendix A Line (138 / 139)																											(2,642)
8	Total Income Tax Provision		Line (6 + 7)																											160,915
9	Depreciation-Transmission		Inst. 2																											516,186
10	Property Tax		Inst. 4																											93,005
11	Previous Jointly-Owned Assets' Capital Investment Revenue Requirement		Line (5 + 8 + 9 + 10)																											1,505,398
12	Projected Assets' Capital Investment Revenue Requirement for Previous Calendar Year	Note 2																												
13	Actual Assets' Capital Investment Revenue Requirement for Previous Calendar Year	Note 2																												244,489
14	True-Up Adjustment Before Interest for Previous Calendar Year		Line (13 - 12)																											244,489
15	Future Value Factor (1+1/24 months)		Attachment 6																											1,10749
16	True-Up Adjustment		Line (14 * 15)																											273,779
17	Previous Jointly-Owned Assets' Capital Investment Revenue Requirement including True-Up Adjustment, if applicable		Line (11 + 16)																											1,779,168

a.ii. Previous Jointly-Owned Assets (500 KV Bath-Valley transmission line) Capital Investment Revenue Requirement

A.3. Previous Jointly-Owned Assets (500 kv Bath-Vally transmission line) Capital Investment Revenue Requirement				Previous Year												Current Year												Amount		
Line #s	Descriptions	Notes	Page #s & Instructions	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct		Nov	Dec
1	Electric Plant in Service	Note 1	Inst. 1																											36,641,738
2	Accumulated Depreciation	Note 1	Inst. 2	36,641,738	36,641,738	36,641,738	36,641,738	36,641,738	36,641,738	36,641,738	36,641,738	36,641,738	36,641,738	36,641,738	36,641,738	36,641,738	36,641,738	36,641,738	36,641,738	36,641,738	36,641,738	36,641,738	36,641,738	36,641,738	36,641,738	36,641,738	36,641,738	36,641,738	36,641,738	36,641,738
3	Accumulated Deferred Income Taxes	Note 1	Inst. 3	(21,775,412)	(21,844,894)	(21,913,377)	(21,975,859)	(22,041,342)	(22,106,824)	(22,172,307)	(22,237,789)	(22,303,272)	(22,368,754)	(22,434,237)	(22,499,719)	(22,565,202)														(22,172,307)
4	Applicable Rate Base		Line (1 + 2 + 3)																											(508,607)
5	Return		Line 4 * (Appendix A Line 129)																											13,960,824
6	Income Taxes associated with Equity Return		Line 5 * Appendix A Line 135 * (1-(126 / 129))																											1,520,965
7	Transmission Related Income Tax Adjustments		Line 6 * Appendix A Line (138 / 139)																											(4,170)
8	Total Income Tax Provision		Line (6 + 7)																											262,581
9	Depreciation-Transmission		Inst. 2																											785,790
10	Property Tax		Inst. 4																											142,963
11	Previous Jointly-Owned Assets' Capital Investment Revenue Requirement		Line (5 + 8 + 9 + 10)																											2,340,229
12	Projected Assets' Capital Investment Revenue Requirement for Previous Calendar Year	Note 2																												379,375
13	Actual Assets' Capital Investment Revenue Requirement for Previous Calendar Year	Note 2																												379,375
14	True-Up Adjustment Before Interest for Previous Calendar Year		Line (13 - 12)																											1,10746
15	Future Value Factor (1+1/24 months)		Attachment 6																											420,155
16	True-Up Adjustment		Line (14 * 15)																											2,760,364
17	Previous Jointly-Owned Assets' Capital Investment Revenue Requirement including True-Up Adjustment, if applicable		Line (11 + 16)																											2,760,364

a.iii. Previous Jointly-Owned Assets (Bath Substation Transmission Assets) Capital Investment Revenue Requirement

A.11. Previous Jointly-Owned Assets (Bath Substation Transmission Assets) Capital Investment Revenue Requirement				Previous Year												Current Year												Amount		
Line #s	Descriptions	Notes	Page #s & Instructions	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct		Nov	Dec
1	Electric Plant in Service	Note 1	Inst. 1																											45,894,050
2	Accumulated Depreciation	Note 1	Inst. 2	45,894,050	45,894,050	45,894,050	45,894,050	45,894,050	45,894,050	45,894,050	45,894,050	45,894,050	45,894,050	45,894,050	45,894,050	45,894,050	45,894,050	45,894,050	45,894,050	45,894,050	45,894,050	45,894,050	45,894,050	45,894,050	45,894,050	45,894,050	45,894,050	45,894,050	45,894,050	45,894,050
3	Accumulated Deferred Income Taxes		Inst. 3	(16,337,144)	(16,449,290)	(16,561,435)	(16,673,581)	(16,785,727)	(16,897,873)	(17,010,019)	(17,122,165)	(17,234,311)	(17,346,457)	(17,458,603)	(17,570,749)	(17,682,894)														(17,010,019)
4	Applicable Rate Base		Line (1 + 2 + 3)																											(1,113,412)
5	Return		Line 4 * (Appendix A Line 129)																											27,776,619
6	Income Taxes associated with Equity Return		Line 5 * Appendix A Line 135 * (1-(126 / 129))																											2,239,749
7	Transmission Related Income Tax Adjustments		Line 6 * Appendix A Line 138 / 139																											576,368
8	Total Income Tax Provision		Line (6 + 7)																											(8,299)
9	Depreciation-Transmission		Inst. 2																											1,345,791
10	Property Tax		Inst. 4																											166,638
11	Previous Jointly-Owned Assets' Capital Investment Revenue Requirement		Line (5 + 8 + 9 + 10)																											4,353,212
12	Projected Assets' Capital Investment Revenue Requirement for Previous Calendar Year	Note 2																												-
13	Actual Assets' Capital Investment Revenue Requirement for Previous Calendar Year	Note 2																												702,002
14	True-Up Adjustment Before Interest for Previous Calendar Year		Line (13 - 12)																											702,002
15	Future Value Factor (1+1/24 months)		Attachment 6																											1,10749
16	True-Up Adjustment		Line (14 * 15)																											777,462
17	Previous Jointly-Owned Assets' Capital Investment Revenue Requirement including True-Up Adjustment, if applicable		Line (11 + 16)																											5,136,674

Note 1 The value in the amount column is calculated using 13 month average balance.

Note 2 These amounts do not include any True-Up Adjustments.

Attachment 11

PATH Formula Rate for January 1, 2021 to December 31, 2021

September 1, 2020

To: Parties to FERC Docket No. ER08-386-000**Re: Potomac-Appalachian Transmission Highline, LLC
PJM Open Access Transmission Tariff, Attachment H-19
Projected Transmission Revenue Requirement for Rate Year 2021**

Pursuant to section IV of the Formula Rate Implementation Protocols (“Protocols”) set forth in Attachment H-19B of the PJM Open Access Transmission Tariff (“PJM OATT”),¹ Potomac-Appalachian Transmission Highline, LLC (“PATH”), on behalf of its operating companies PATH West Virginia Transmission Company, LLC and PATH Allegheny Transmission Company, LLC, is submitting a Projected Transmission Revenue Requirement for Rate Year 2021 (“2021 PTRR”) to PJM for posting.

The 2021 PTRR was developed pursuant to the PATH formula rate as set forth in Attachment H-19 of the PJM OATT. PATH has asked PJM to post a copy of the 2021 PTRR to the transmission service formula rates section of its internet site, located at:

<http://www.pjm.com/markets-and-operations/billing-settlements-and-credit/formula-rates.aspx>

A copy of the 2021 PTRR is attached. Pursuant to section IV.C of the Protocols, within two business days of this submission to PJM, PATH will provide notice on PJM’s website of the time, date and location of an open meeting among Interested Parties.

¹ PJM Interconnection, L.L.C., FERC Electric Tariff, Sixth Revised Volume No. 1.

For the 12 months ended 12/31/2021

SUMMARY

	PATH West Virginia Transmission Company, LLC (PATH-WV) (1)		PATH Allegheny Transmission Company, LLC (PATH- Allegheny) (2)		Potomac-Appalachian Transmission Highline, LLC (3) = (1) + (2)
1 NET REVENUE REQUIREMENT	\$362,265	(A)	\$127,402	(B)	\$489,668
2 PJM Project No.					
3 b0490 & b0491	\$362,265	(C)			\$362,265
4 b0492 & b0560			\$127,402	(D)	\$127,402
5 Order 554-A True-up	\$9,260,929	(E)	\$3,945,777	(E)	\$13,206,706
6 Total (Sum lines 3 to 5)	\$9,623,194		\$4,073,179		\$13,696,374

- Sources:
- (A)

Rate Formula Template, page 2, line 5, col. (3)
- (B)

Rate Formula Template, page 7, line 5, col. (3)
- (C)

Rate Formula Template - Attachment 5, page 30 col., (7)
- (D)

Rate Formula Template - Attachment 5, page 31 col., (6)
- (E)

Order 554-A refund related to January 24, 2020 FERC Order

Formula Rate - Non-Levelized

Attachment A
Rate Formula Template
Utilizing FERC Form 1 Data

For the 12 months ended 12/31/2021

PATH West Virginia Transmission Company, LLC

		(1)	(2)	(3)
Line No.				Allocated Amount
1	GROSS REVENUE REQUIREMENT (line 86)		12 months	\$ 556,139
REVENUE CREDITS				
2	Total Revenue Credits Attachment 1, line 12	Total0	TP 1.00000	\$ -
3	True-up Adjustment with Interest Protocols	-193,873	DA 1.00000	\$ (193,873)
4a	Accelerated True-up Adjustment with Interest	0	DA 1.00000	\$ -
4b	Interest on Gains or Recoveries in Account 254 Company Records	0	DA 1.00000	-
5	NET REVENUE REQUIREMENT (Lines 1 minus line 2 plus line 3 plus line 4a and 4b)			\$ 362,265

Formula Rate - Non-Levelized		Attachment A Rate Formula Template Utilizing FERC Form 1 Data				
PATH West Virginia Transmission Company, LLC						
(1)	(2)	(3)	(4)	(5)		
	Form No. 1			Transmission		
	Page, Line, Col.	Company Total	Allocator	(Col 3 times Col 4)		
RATE BASE:						
GROSS PLANT IN SERVICE						
Production	(Attachment 4)	-	NA	0.00000	-	
Transmission	(Attachment 4)	-	TP	1.00000	-	
Distribution	(Attachment 4)	-	NA	0.00000	-	
General & Intangible	(Attachment 4)	-	W/S	1.00000	-	
Common	(Attachment 4)	-	CE	1.00000	-	
TOTAL GROSS PLANT (sum lines 6-10)	(GP=1 if plant =0)	-	GP=	1.00000	-	
ACCUMULATED DEPRECIATION						
Production	(Attachment 4)	-	NA	0.00000	-	
Transmission	(Attachment 4)	-	TP	1.00000	-	
Distribution	(Attachment 4)	-	NA	0.00000	-	
General & Intangible	(Attachment 4)	-	W/S	1.00000	-	
Common	(Attachment 4)	-	CE	1.00000	-	
TOTAL ACCUM. DEPRECIATION (sum lines 13-17)		-			-	
NET PLANT IN SERVICE						
Production	(line 6- line 13)	-			-	
Transmission	(line 7- line 14)	-			-	
Distribution	(line 8- line 15)	-			-	
General & Intangible	(line 9- line 16)	-			-	
Common	(line 10- line 17)	-			-	
TOTAL NET PLANT (sum lines 20-24)	(NP=1 if plant =0)	-	NP=	1.0000	-	
ADJUSTMENTS TO RATE BASE (Note A)						
Account No. 281 (enter negative)	(Attachment 4)	-	NA	0.00000	-	
Account No. 282 (enter negative)	(Attachment 4)	-	NP	1.00000	-	
Account No. 283 (enter negative)	(Attachment 4)	542,979	NP	1.00000	542,979	
Account No. 190	(Attachment 4)	3,105,084	NP	1.00000	3,105,084	
Account No. 255 (enter negative)	(Attachment 4)	-	NP	1.00000	-	
CWIP	(Attachment 4)	-	DA	1.00000	-	
Unamortized Regulatory Asset	(Attachment 4)	-	DA	1.00000	-	
Unamortized Abandoned Plant	(Attachment 4)	-	DA	1.00000	-	
TOTAL ADJUSTMENTS (sum lines 27-34)		3,648,063			3,648,063	
LAND HELD FOR FUTURE USE	(Attachment 4)	-	TP	1.00000	-	
WORKING CAPITAL (Note C)						
CWC	calculated	33,440			33,440	
Materials & Supplies (Note B)	(Attachment 4)	-	TE	1.00000	-	
Prepayments (Account 165 - Note C)	(Attachment 4)	-	GP	1.00000	-	
TOTAL WORKING CAPITAL (sum lines 38-40)		33,440			33,440	
RATE BASE (sum lines 25, 35, 36, & 41)		3,681,502	3,681,502			

Formula Rate - Non-Levelized		Attachment A Rate Formula Template Utilizing FERC Form 1 Data				
PATH West Virginia Transmission Company, LLC						
(1)	(2)	(3)	(4)		(5)	
	Form No. 1 Page, Line, Col.	Company Total	Allocator		Transmission (Col 3 times Col 4)	
O&M						
Transmission	321.112.b	-	TE	1.00000	-	
Less Account 565	321.96.b	-	TE	1.00000	-	
Less Account 566 (Misc Trans Expense)	Line 56	-	DA	1.00000	-	
A&G	323.197.b	264,335	W/S	1.00000	264,335	
Less EPRI & Reg. Comm. Exp. & Other Ad.	(Note D & Attach 4)	-	DA	1.00000	-	
Plus Transmission Related Reg. Comm. Exp.	(Note D & Attach 4)	-	TE	1.00000	-	
PBOP Expense adjustment	(Attachment 4)	3,183			3,183	
Common	(Attachment 4)	-	CE	1.00000	-	
Transmission Lease Payments	200.4.c	-	DA	1.00000	-	
Account 566						
Amortization of Regulatory Asset	Attachment 4	-	DA	1.00000	-	
Miscellaneous Transmission Expense	Attachment 4	-	DA	1.00000	-	
Total Account 566		-			-	
TOTAL O&M (sum lines 44, 47, 49, 50, 51, 52, 56 less lines 45, 46 & 48)		267,518			267,518	
DEPRECIATION EXPENSE						
Transmission	336.7.b & c	-	TP	1.00000	-	
General and Intangible	336.1.d&e + 336.10.b&c	-	W/S	1.00000	-	
Common	336.11.b&c	-	CE	1.00000	-	
Amortization of Abandoned Plant	(Attachment 4)	-	DA	1.00000	-	
TOTAL DEPRECIATION (Sum lines 59-62)		-			-	
TAXES OTHER THAN INCOME TAXES (Note E)						
LABOR RELATED						
Payroll	263i	-	W/S	1.00000	-	
Highway and vehicle	263i	-	W/S	1.00000	-	
PLANT RELATED						
Property	263i	-	GP	1.00000	-	
Gross Receipts	263i	-	NA	0.00000	-	
Other	263i	-	GP	1.00000	-	
Payments in lieu of taxes		-	GP	1.00000	-	
TOTAL OTHER TAXES (sum lines 66-72)		-			-	
INCOME TAXES (Note F)						
T=1 - {[(1 - SIT) * (1 - FIT)] / (1 - SIT * FIT * p)} =		26.14%				
CIT=(T/1-T) * (1-(WCLTD/R)) =		22.40%				
where WCLTD=(line 118) and R= (line 121)						
and FIT, SIT & p are as given in footnote F.						
1 / (1 - T) = (T from line 75)		1.3538				
Amortized Investment Tax Credit (266.8f) (enter negative)		0				
Income Tax Calculation = line 76 * line 85		52,820	NA		52,820	
ITC adjustment (line 79 * line 80)		0	NP	1.00000	-	
Total Income Taxes (line 81 plus line 82)		52,820			52,820	
RETURN						
[Rate Base (line 42) * Rate of Return (line 121)]		235,800	NA		235,800	
REV. REQUIREMENT (sum lines 57, 63, 73, 83, 85)		556,139			556,139	

Formula Rate - Non-Levelized

Attachment A
Rate Formula Template
Utilizing FERC Form 1 Data

PATH West Virginia Transmission Company, LLC
SUPPORTING CALCULATIONS AND NOTES

87	TRANSMISSION PLANT INCLUDED IN ISO RATES									
88	Total transmission plant (line 7, column 3)								0	
89	Less transmission plant excluded from ISO rates (Note H)								0	
90	Less transmission plant included in OATT Ancillary Services (Note H)								0	
91	Transmission plant included in ISO rates (line 88 less lines 89 & 90)								0	
92	Percentage of transmission plant included in ISO Rates (line 91 divided by line 88) [If line 88 equal zero, enter 1)					TP=			1.0000	
93	TRANSMISSION EXPENSES									
94										
95	Total transmission expenses (line 44, column 3)								0	
96	Less transmission expenses included in OATT Ancillary Services (Note G)								0	
97	Included transmission expenses (line 95 less line 96)								0	
98	Percentage of transmission expenses after adjustment (line 97 divided by line 95) [If line 95 equal zero, enter 1)								1.00000	
99	Percentage of transmission plant included in ISO Rates (line 92)					TP			1.00000	
100	Percentage of transmission expenses included in ISO Rates (line 98 times line 99)					TE=			1.00000	
101	WAGES & SALARY ALLOCATOR (W&S)									
102		Form 1 Reference	\$	TP		Allocation				
103	Production	354.20.b	0							
104	Transmission	354.21.b	0	1.00		0				
105	Distribution	354.23.b	0							
106	Other	354.24,25,26.b	0							
107	Total (sum lines 103-106) [TP equals 1 if there are no wages & salaries]		0			0	=		1.00000	= WS
108	COMMON PLANT ALLOCATOR (CE) (Note I)									
109			\$			% Electric			W&S Allocator	
110	Electric	200.3.c	0			(line 110 / line 113)			(line 107)	
111	Gas	201.3.d	0			1.00000	x		1.00000	= CE 1.00000
112	Water	201.3.e	0							
113	Total (sum lines 110 - 112)		0							
114	RETURN (R)								\$	
115										
116										
117			\$	%		Cost			Weighted	
118	Long Term Debt (Note K)	(Attachment 4)	0	50%		4.70%			0.0235	=WCLTD
119	Preferred Stock	(Attachment 4)	0	0%		0.00%			0.0000	
120	Common Stock (Note J)	(Attachment 4)	0	50%		8.11%			0.0406	
121	Total (sum lines 118-120)		0						0.0641	=R

SUPPORTING CALCULATIONS AND NOTES

Formula Rate - Non-Levelized

Attachment A
Rate Formula Template
Utilizing FERC Form 1 Data

PATH West Virginia Transmission Company, LLC

General Note: References to pages in this formulary rate are indicated as: (page#, line#, col.#)
References to data from FERC Form 1 are indicated as: #.y.x (page, line, column)

Note
Letter

- A The balances in Accounts 190, 281, 282 and 283, as adjusted by any amounts in contra accounts identified as regulatory assets or liabilities related to FASB 106 or 109. Balance of Account 255 is reduced by prior flow throughs and excluded if the utility chose to utilize amortization of tax credits against taxable income as discussed in Note F. Account 281 is not allocated.
- B Identified in Form 1 as being only transmission related.
- C Cash Working Capital assigned to transmission is one-eighth of O&M allocated to transmission
Prepayments are the electric related prepayments booked to Account No. 165 and reported on Pages 110-111 line 57 in the Form 1.
- D EPRI Annual Membership Dues listed in Form 1 at 353.f, all Regulatory Commission Expenses itemized at 351.h, except safety, education and out-reach related advertising included in Account 930.1. Regulatory Commission Expenses directly related to transmission service, ISO filings, or transmission siting itemized at 351.h.
- E Includes only FICA, unemployment, highway, property, gross receipts, and other assessments charged in the current year.
Taxes related to income are excluded. Gross receipts taxes are not included in transmission revenue requirement in the Rate Formula Template, since they are recovered elsewhere.
- F The currently effective income tax rate, where FIT is the Federal income tax rate; SIT is the State income tax rate, and p = "the percentage of federal income tax deductible for state income taxes". If the utility is taxed in more than one state it must attach a work paper showing the name of each state and how the blended or composite SIT was developed. Furthermore, a utility that elected to utilize amortization of tax credits against taxable income, rather than book tax credits to Account No. 255 and reduce rate base, must reduce its income tax expense by the amount of the Amortized Investment Tax Credit (Form 1, 266.8.f) multiplied by (1/1-T) (page 4, line 79).
- | | | |
|------------------|-------|---|
| Inputs Required: | FIT = | 21.00% |
| | SIT= | 6.50% (State Income Tax Rate or Composite SIT from Attachment 4) |
| | p = | 0.00% (percent of federal income tax deductible for state purposes) |
- G Removes dollar amount of transmission expenses included in the OATT ancillary services rates, if any.
- H Removes dollar amount of transmission plant included in the development of OATT ancillary services rates and generation step-up facilities, which are deemed to included in OATT ancillary services. For these purposes, generation step-up facilities are those facilities at a generator substation on which there is no through-flow when the generator is shut down.
- I Enter dollar amounts
- J Effective Janaury 19, 2017, the ROE will be 8.11%. The true up for Rate Year 2017 will be computed using an ROE that is a time-weighted average of the pre-January 19, 2017 ROE and the post-January 19, 2017 ROE. Examaple Calculation: For the first 18 days of 2017, the authorized ROE will be 10.4%, and for the remaining 347 days of 2017, the authorized ROE will be 8.11%. Therefore, the weighted ROE = (18 days* 10.40% + 347 days*8.11%)/365 days=8.22%.
- K The percentage shown for Long Term Debt is subject to the Annual Update and Attachment 9. Pursuant to the Stipulation Agreement entered into on April 6, 2015 in FERC Docket Nos. ER09-1256-002 and ER12-2708-003, the Long Term Debt rate is 4.70% effective December 1, 2012.

Formula Rate - Non-Levelized

Attachment A
Rate Formula Template
Utilizing FERC Form 1 Data

For the 12 months ended 12/31/2021

PATH Allegheny Transmission Company, LLC

		(1)	(2)	(3)
Line No.				Allocated Amount
1	GROSS REVENUE REQUIREMENT (line 86)		12 months	\$ 123,085
REVENUE CREDITS				
2	Total Revenue Credits	Attachment 1, line 12	Total	
3	True-up Adjustment with Interest	Protocols	0	
4a	Accelerated True-up Adjustment with Interest		4,317	
4b	Interest on Gains or Recoveries in Account 254	Company Records	0	
5	NET REVENUE REQUIREMENT (Lines 1 minus line 2 plus line 3 plus line 4a and 4b)			\$ 127,402

Formula Rate - Non-Levelized

Attachment A
Rate Formula Template
Utilizing FERC Form 1 Data

For the 12 months ended 12/31/2021

PATH Allegheny Transmission Company, LLC						
	(1)	(2)	(3)	(4)	(5)	
		Form No. 1				Transmission
Line No.	RATE BASE:	Page, Line, Col.	Company Total	Allocator		(Col 3 times Col 4)
	GROSS PLANT IN SERVICE					
6	Production	(Attachment 4)	-	NA	0.00000	-
7	Transmission	(Attachment 4)	-	TP	1.00000	-
8	Distribution	(Attachment 4)	-	NA	0.00000	-
9	General & Intangible	(Attachment 4)	-	W/S	1.00000	-
10	Common	(Attachment 4)	-	CE	1.00000	-
11	TOTAL GROSS PLANT (sum lines 6-10)	(GP=1 if plant =0)	-	GP=	1.00000	-
	ACCUMULATED DEPRECIATION					
12	Production	(Attachment 4)	-	NA	0.00000	-
13	Transmission	(Attachment 4)	-	TP	1.00000	-
14	Distribution	(Attachment 4)	-	NA	0.00000	-
15	General & Intangible	(Attachment 4)	-	W/S	1.00000	-
16	Common	(Attachment 4)	-	CE	1.00000	-
17	TOTAL ACCUM. DEPRECIATION (sum lines 13-17)		-			-
	NET PLANT IN SERVICE					
18	Production	(line 6- line 13)	-			-
19	Transmission	(line 7- line 14)	-			-
20	Distribution	(line 8- line 15)	-			-
21	General & Intangible	(line 9- line 16)	-			-
22	Common	(line 10- line 17)	-			-
23	TOTAL NET PLANT (sum lines 20-24)	(NP=1 if plant =0)	-	NP=	1.0000	-
	ADJUSTMENTS TO RATE BASE (Note A)					
24	Account No. 281 (enter negative)	(Attachment 4)	-	NA	0.00000	-
25	Account No. 282 (enter negative)	(Attachment 4)	-	NP	1.00000	-
26	Account No. 283 (enter negative)	(Attachment 4)	-	NP	1.00000	-
27	Account No. 190	(Attachment 4)	211,913	NP	1.00000	211,913
28	Account No. 255 (enter negative)	(Attachment 4)	-	NP	1.00000	-
29	CWIP	(Attachment 4)	-	DA	1.00000	-
30	Unamortized Regulatory Asset	(Attachment 4)	-	DA	1.00000	-
31	Unamortized Abandoned Plant	(Attachment 4)	-	DA	1.00000	-
32	TOTAL ADJUSTMENTS (sum lines 27-34)		211,913			211,913
33	LAND HELD FOR FUTURE USE	(Attachment 4)	-	TP	1.00000	-
	WORKING CAPITAL (Note C)					
34	CWC	calculated	13,239			13,239
35	Materials & Supplies (Note B)	(Attachment 4)	-	TE	1.00000	-
36	Prepayments (Account 165 - Note C)	(Attachment 4)	-	GP	1.00000	-
37	TOTAL WORKING CAPITAL (sum lines 38-40)		13,239			13,239
38	RATE BASE (sum lines 25, 35, 36, & 41)		225,151	225,151		

Formula Rate - Non-Levelized		Attachment A Rate Formula Template Utilizing FERC Form 1 Data				For the 12 months ended 12/31/2021
(1)		(2)	(3)	(4)	(5)	
		Form No. 1 Page, Line, Col.	Company Total	Allocator	Transmission (Col 3 times Col 4)	
43	O&M					
44	Transmission	321.112.b	11,934	TE	1.00000	11,934
45	Less Account 565	321.96.b	-	TE	1.00000	-
46	Less Account 566	Line 56	11,934	DA	1.00000	11,934
47	A&G	323.197.b	93,975	W/S	1.00000	93,975
48	Less EPRI & Reg. Comm. Exp. & Other Ad.	(Note D & Attach 4)	-	DA	1.00000	-
49	Plus Transmission Related Reg. Comm. Exp.	(Note D & Attach 4)	-	TE	1.00000	-
50	PBOP Expense adjustment	(Attachment 4)	-			-
51	Common	(Attachment 4)	-	CE	1.00000	-
52	Transmission Lease Payments	200.4.c	-	DA	1.00000	-
53	Account 566					
54	Amortization of Regulatory Asset	Attachment 4	-	DA	1.00000	-
55	Miscellaneous Transmission Expense	Attachment 4	11,934	DA	1.00000	11,934
56	Total Account 566		11,934			11,934
57	TOTAL O&M (sum lines 44, 47, 49, 50, 51, 52, 56 less lines 45,46, 48)		105,909			105,909
58	DEPRECIATION EXPENSE					
59	Transmission	336.7.b & c	-	TP	1.00000	-
60	General and Intangible	336.1.d&e + 336.10.b.c.d&e	-	W/S	1.00000	-
61	Common	336.11.b & c	-	CE	1.00000	-
62	Amortization of Abandoned Plant	(Attachment 4)	-	DA	1.00000	-
63	TOTAL DEPRECIATION (Sum lines 59-62)		-			-
64	TAXES OTHER THAN INCOME TAXES (Note E)					
65	LABOR RELATED					
66	Payroll	263i	-	W/S	1.00000	-
67	Highway and vehicle	263i	-	W/S	1.00000	-
68	PLANT RELATED					
69	Property	263i	-	GP	1.00000	-
70	Gross Receipts	263i	-	NA	0.00000	-
71	Other	263i	-	GP	1.00000	-
72	Payments in lieu of taxes		-	GP	1.00000	-
73	TOTAL OTHER TAXES (sum lines 66-72)		-			-
74	INCOME TAXES	(Note F)				
75	$T=1 - \{[(1 - SIT) * (1 - FIT)] / (1 - SIT * FIT * p)\} =$		23.18%			
76	$CIT=(T/1-T) * (1-(WCLTD/R)) =$		19.11%			
77	where WCLTD=(line 118) and R= (line 121)					
78	and FIT, SIT & p are as given in footnote F.					
79	$1 / (1 - T) = (T \text{ from line 75})$		1.3018			
80	Amortized Investment Tax Credit (266.8f) (enter negative)		0			
81	Income Tax Calculation = line 76 * line 85		2,755	NA		2,755
82	ITC adjustment (line 79 * line 80)		0	NP	1.00000	-
83	Total Income Taxes (line 81 plus line 82)		2,755			2,755
84	RETURN					
85	[Rate Base (line 42) * Rate of Return (line 121)]		14,421	NA		14,421
86	REV. REQUIREMENT (sum lines 57, 63, 73, 83, 85)		123,085			123,085

Formula Rate - Non-Levelized

Attachment A
Rate Formula Template
Utilizing FERC Form 1 Data

For the 12 months ended 12/31/2021

PATH Allegheny Transmission Company, LLC
SUPPORTING CALCULATIONS AND NOTES

87	TRANSMISSION PLANT INCLUDED IN ISO RATES									
88	Total transmission plant (line 7, column 3)									0
89	Less transmission plant excluded from ISO rates (Note H)									0
90	Less transmission plant included in OATT Ancillary Services (Note H)									0
91	Transmission plant included in ISO rates (line 88 less lines 89 & 90)									0
92	Percentage of transmission plant included in ISO Rates (line 91 divided by line 88) [If line 88 equal zero, enter 1]					TP=				1.0000
93	TRANSMISSION EXPENSES									
94										
95	Total transmission expenses (line 44, column 3)									11,934
96	Less transmission expenses included in OATT Ancillary Services (Note G)									0
97	Included transmission expenses (line 95 less line 96)									11,934
98	Percentage of transmission expenses after adjustment (line 97 divided by line 95) [If line 95 equal zero, enter 1]									1.00000
99	Percentage of transmission plant included in ISO Rates (line 92)					TP				1.00000
100	Percentage of transmission expenses included in ISO Rates (line 98 times line 99)					TE=				1.00000
101	WAGES & SALARY ALLOCATOR (W&S)									
102		Form 1 Reference		\$	TP		Allocation			
103	Production	354.20.b		0						
104	Transmission	354.21.b		0	1.00		0			
105	Distribution	354.23.b		0					W&S Allocator	
106	Other	354.24,25,26.b		0	1.00		0		(\$ / Allocation)	
107	Total (sum lines 103-106) [TP equals 1 if there are no wages & salaries]			0			0	=	1.00000	= WS
108	COMMON PLANT ALLOCATOR (CE) (Note I)									
109				\$			% Electric		W&S Allocator	
110	Electric	200.3.c		0			(line 110 / line 113)		(line 107)	CE
111	Gas	201.3.d		0			1.00000 x		1.00000	= 1.00000
112	Water	201.3.e		0						
113	Total (sum lines 110 - 112)			0						
114	RETURN (R)									
115									\$	
116										
117				\$	%		Cost		Weighted	
118	Long Term Debt (Note K)	(Attachment 4)		0	50%		4.70%		0.0235	=WCLTD
119	Preferred Stock	(Attachment 4)		0	0%		0.00%		0.0000	
120	Common Stock (Note J)	(Attachment 4)		0	50%		8.11%		0.0406	
121	Total (sum lines 118-120)			0					0.0641	=R

SUPPORTING CALCULATIONS AND NOTES

Formula Rate - Non-Levelized

Attachment A
Rate Formula Template
Utilizing FERC Form 1 Data

For the 12 months ended 12/31/2021

PATH Allegheny Transmission Company, LLC

General Note: References to pages in this formulary rate are indicated as: (page#, line#, col.)
References to data from FERC Form 1 are indicated as: #.y.x (page, line, column)

Note
Letter

- A The balances in Accounts 190, 281, 282 and 283, as adjusted by any amounts in contra accounts identified as regulatory assets or liabilities related to FASB 106 or 109. Balance of Account 255 is reduced by prior flow throughs and excluded if the utility chose to utilize amortization of tax credits against taxable income as discussed in Note F. Account 281 is not allocated.
- B Identified in Form 1 as being only transmission related.
- C Cash Working Capital assigned to transmission is one-eighth of O&M allocated to transmission
Prepayments are the electric related prepayments booked to Account No. 165 and reported on Pages 110-111 line 57 in the Form 1.
- D EPRI Annual Membership Dues listed in Form 1 at 353.f, all Regulatory Commission Expenses itemized at 351.h, except safety, education, siting and out-reach related advertising included in Account 930.1. Regulatory Commission Expenses directly related to transmission service, ISO filings, or transmission siting itemized at 351.h.
- E Includes only FICA, unemployment, highway, property, gross receipts, and other assessments charged in the current year.
Taxes related to income are excluded. Gross receipts taxes are not included in transmission revenue requirement in the Rate Formula Template, since they are recovered elsewhere.
- F The currently effective income tax rate, where FIT is the Federal income tax rate; SIT is the State income tax rate, and p = "the percentage of federal income tax deductible for state income taxes". If the utility is taxed in more than one state it must attach a work paper showing the name of each state and how the blended or composite SIT was developed. Furthermore, a utility that elected to utilize amortization of tax credits against taxable income, rather than book tax credits to Account No. 255 and reduce rate base, must reduce its income tax expense by the amount of the Amortized Investment Tax Credit (Form 1, 266.8.f) multiplied by (1/1-T) (page 9, line 79).
- | | | | |
|------------------|-------|--------|---|
| Inputs Required: | FIT = | 21.00% | |
| | SIT= | 2.76% | (State Income Tax Rate or Composite SIT from Attachment 4) |
| | p = | 0.00% | (percent of federal income tax deductible for state purposes) |
- G Removes dollar amount of transmission expenses included in the OATT ancillary services rates, if any.
- H Removes dollar amount of transmission plant included in the development of OATT ancillary services rates and generation step-up facilities, which are deemed to included in OATT ancillary services. For these purposes, generation step-up facilities are those facilities at a generator substation on which there is no through-flow when the generator is shut down.
- I Enter dollar amounts
- J Effective Janaury 19, 2017, the ROE will be 8.11%. The true up for Rate Year 2017 will be computed using an ROE that is a time-weighted average of the pre-January 19, 2017 ROE and the post-January 19, 2017 ROE. Examaple Calculation: For the first 18 days of 2017, the authorized ROE will be 10.4%, and for the remaining 347 days of 2017, the authorized ROE will be 8.11%. Therefore, the weighted ROE = (18 days* 10.40% + 347 days*8.11%)/365 days=8.22%.
- K The percentage shown for Long Term Debt is subject to the Annual Update and Attachment 9. Pursuant to the Stipulation Agreement entered into on April 6, 2015 in FERC Docket Nos. ER09-1256-002 and ER12-2708-003, the Long Term Debt rate is 4.70% effective December 1, 2012.

Attachment 1 - Revenue Credit Workpaper
PATH West Virginia Transmission Company, LLC

Account 454 - Rent from Electric Property

1 Rent from FERC Form No. 1 - Note 6		-
2 Other Electric Revenues	See	-
3 Schedule 1A		-
4 PTP Serv revs for which the load is not included in the divisor received by TO		-
5 PJM Transitional Revenue Neutrality (Note 1)		-
6 PJM Transitional Market Expansion (Note 1)		-
7 Professional Services (Note 3)		-
8 Revenues from Directly Assigned Transmission Facility Charges (Note 2)		-
9 Rent or Attachment Fees associated with Transmission Facilities (Note 3)		-
10 Gross Revenue Credits	Sum lines 2-9 + line 1	-
11 Less line 20	less line 18	-
12 Total Revenue Credits	line 10 + line 11	-
13 Revenues associated with lines 13 thru 18 are to be included in lines 1-9 and total of those revenues entered here		-
14 Income Taxes associated with revenues in line 15		-
15 One half margin (line 13 - line 14)/2		-
16 All expenses (other than income taxes) associated with revenues in line 13 that are included in FERC accounts recovered through the formula times the allocator used to functionalize the amounts in the FERC account to the transmission service at issue.		-
17 Line 15 plus line 16		-
18 Line 13 less line 17		-

- Note 1All revenues related to transmission that are received as a transmission owner (i.e., not received as a LSE), for which the cost of the service is recovered under this formula, except as specifically provided for elsewhere in this attachment or elsewhere in the formula will be included as a revenue credit or included in the peak on page 2, line 2 of Rate Formula Template.
- Note 2If the costs associated with the Directly Assigned Transmission Facility Charges are included in the Rates, the associated revenues are included in the Rates. If the costs associated with the Directly Assigned Transmission Facility Charges are not included in the Rates, the associated revenues are not included in the Rates.
- Note 3Ratemaking treatment for the following specified secondary uses of transmission assets: (1) right-of-way leases and leases for space on transmission facilities for telecommunications; (2) transmission tower licenses for wireless antennas; (3) right-of-way property leases for farming, grazing or nurseries; (4) licenses of intellectual property (including a portable oil degasification process and scheduling software); and (5) transmission maintenance and consulting services (including energized circuit maintenance, high-voltage substation maintenance, safety training, transformer oil testing, and circuit breaker testing) to other utilities and large customers (collectively, products). DLC will retain 50% of net revenues consistent with Pacific Gas and Electric Company, 90 FERC ¶ 61,314. Note: in order to use lines 15 - 20, the utility must track in separate subaccounts the revenues and costs associated with each secondary use (except for the cost of the associated income taxes).
- Note 4If the facilities associated with the revenues are not included in the formula, the revenue is shown here, but not included in the total above and explained in the Cost Support. For example revenues associated with distribution facilities. In addition Revenues from Schedule 12 are not included in the total above to the extent they are credited under Schedule 12.

Attachment 1 - Revenue Credit Workpaper
PATH West Virginia Transmission Company, LLC

Note 5 Other electric Revenues - includes revenues for various related electricity products/premium services such as surge protectors and appliance guards

Note 6 All Account 454 and 456 Revenues must be itemized below

Account 454	Include	\$
Joint pole attachments - telephone	Include	-
Joint pole attachments - cable	Include	-
Underground rentals	Include	-
Transmission tower wireless rentals	Include	-
Other rentals	Include	-
Corporate headquarters sublease	Include	-
Misc non-transmission rentals	Include	-
Customer commitment services	Include	-
xxxx		
xxxx		
Total		-
Account 456	Include	-
Other electric revenues	Include	-
Transmission Revenue - Firm	Include	-
Transmission Revenue - Non-Firm	Include	-
xxxx		-
xxxx		-
xxxx		-
xxxx		-
xxxx		-
xxxx		-
xxxx		-
Total		-
Total Account 454 and 456 included		-
Payments by PJM of the revenue requirement calculated on Rate Formula Template	Exclude	-
Total Account 454 and 456 included and excluded		-

Attachment 1 - Revenue Credit Workpaper
PATH Allegheny Transmission Company, LLC

Account 454 - Rent from Electric Property

1 Rent from FERC Form No. 1 - Note 6		-
2 Other Electric Revenues	See Note 5	-
3 Schedule 1A		-
4 PTP Serv revs for which the load is not included in the divisor received by TO		-
5 PJM Transitional Revenue Neutrality (Note 1)		-
6 PJM Transitional Market Expansion (Note 1)		-
7 Professional Services (Note 3)		-
8 Revenues from Directly Assigned Transmission Facility Charges (Note 2)		-
9 Rent or Attachment Fees associated with Transmission Facilities (Note 3)		-
10 Gross Revenue Credits	Sum lines 2-9 + line 1	-
11 Less line 20	less line 18	-
12 Total Revenue Credits	line 10 + line 11	-
13 Revenues associated with lines 13 thru 18 are to be included in lines 1-9 and total of those revenues entered here		-
14 Income Taxes associated with revenues in line 15		-
15 One half margin (line 13 - line 14)/2		-
16 All expenses (other than income taxes) associated with revenues in line 13 that are included in FERC accounts recovered through the formula times the allocator used to functionalize the amounts in the FERC account to the transmission service at issue.		-
17 Line 15 plus line 16		-
18 Line 13 less line 17		-

- Note 1

All revenues related to transmission that are received as a transmission owner (i.e., not received as a LSE), for which the cost of the service is recovered under this formula, except as specifically provided for elsewhere in this attachment or elsewhere in the formula will be included as a revenue credit or included in the peak on page 7, line 2 of Rate Formula Template.
- Note 2

If the costs associated with the Directly Assigned Transmission Facility Charges are included in the Rates, the associated revenues are included in the Rates. If the costs associated with the Directly Assigned Transmission Facility Charges are not included in the Rates, the associated revenues are not included in the Rates.
- Note 3

Ratemaking treatment for the following specified secondary uses of transmission assets: (1) right-of-way leases and leases for space on transmission facilities for telecommunications; (2) transmission tower licenses for wireless antennas; (3) right-of-way property leases for farming, grazing or nurseries; (4) licenses of intellectual property (including a portable oil degasification process and scheduling software); and (5) transmission maintenance and consulting services (including energized circuit maintenance, high-voltage substation maintenance, safety training, transformer oil testing, and circuit breaker testing) to other utilities and large customers (collectively, products). DLC will retain 50% of net revenues consistent with *Pacific Gas and Electric Company*, 90 FERC ¶ 61,314. Note: in order to use lines 15 - 20, the utility must track in separate subaccounts the revenues and costs associated with each secondary use (except for the cost of the associated income taxes).
- Note 4

If the facilities associated with the revenues are not included in the formula, the revenue is shown here, but not included in the total above and explained in the Cost Support. For example revenues associated with distribution facilities. In addition Revenues from Schedule 12 are not included in the total above to the extent they are credited under Schedule 12.
- Note 5

Other electric Revenues - includes revenues for various related electricity products/premium services such as surge protectors and appliance guards

Attachment 1 - Revenue Credit Workpaper
PATH Allegheny Transmission Company, LLC

Note 6	All Account 454 and 456 Revenues must be itemized below		
	Account 454	Include	\$
	Joint pole attachments - telephone	Include	-
	Joint pole attachments - cable	Include	-
	Underground rentals	Include	-
	Transmission tower wireless rentals	Include	-
	Other rentals	Include	-
	Corporate headquarters sublease	Include	-
	Misc non-transmission rentals	Include	-
	Customer commitment services	Include	-
	xxxx		
	xxxx		
	Total		-
	Account 456	Include	-
	Other electric revenues	Include	-
	Transmission Revenue - Firm	Include	-
	Transmission Revenue - Non-Firm	Include	-
	xxxx		-
	xxxx		-
	xxxx		-
	xxxx		-
	xxxx		-
	xxxx		-
	xxxx		-
	Total		-
	Total Account 454 and 456 included		-
	Payments by PJM of the revenue requirement calculated on Rate Formula Template	Exclude	-
	Total Account 454 and 456 included and excluded		-

Attachment 2 has been removed and intentionally left blank.

Attachment 2 has been removed and intentionally left blank.

Attachment 3 - Calculation of Carrying Charges

PATH West Virginia Transmission Company, LLC

1 Calculation of Composite Depreciation Rate

2	Transmission Plant @ Beginning of Period	(Attachment 4)	-
3	Transmission Plant @ End of Period	(Attachment 4)	-
4	Sum	(sum lines 2 & 3)	-
5	Average Balance of Transmission Investment	(line 4/2)	-
6	Depreciation Expense	Rate Formula Template	-
7	Composite Depreciation Rate	(line 6/ line 5)	0.00%
8	Depreciable Life for Composite Depreciation Rate	(1/line 7)	-
9	Round line 8 to nearest whole year		-

Attachment 3 - Calculation of Carrying Charges

PATH Allegheny Transmission Company, LLC

1 Calculation of Composite Depreciation Rate

2	Transmission Plant @ Beginning of Period	(Attachment 4)	-
3	Transmission Plant @ End of Period	(Attachment 4)	-
4	Sum	(sum lines 2 & 3)	-
5	Average Balance of Transmission Investment	(line 4/2)	-
6	Depreciation Expense	Rate Formula Template	-
7	Composite Depreciation Rate	(line 6/ line 5)	0.00%
8	Depreciable Life for Composite Depreciation Rate	(1/line 7)	-
9	Round line 8 to nearest whole year		-

Attachment 4 - Cost Support
PATH West Virginia Transmission Company, LLC

Plant in Service Worksheet

Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions				
1	Calculation of Transmission Plant In Service	Source	Year	Balance
2	December	p206.58.b	2020	-
3	January	company records	2021	-
4	February	company records	2021	-
5	March	company records	2021	-
6	April	company records	2021	-
7	May	company records	2021	-
8	June	company records	2021	-
9	July	company records	2021	-
10	August	company records	2021	-
11	September	company records	2021	-
12	October	company records	2021	-
13	November	company records	2021	-
14	December	p207.58.g	2021	-
15	Transmission Plant In Service	(sum lines 2-14) /13		-
16	Calculation of Distribution Plant In Service	Source		
17	December	p206.75.b	2020	-
18	January	company records	2021	-
19	February	company records	2021	-
20	March	company records	2021	-
21	April	company records	2021	-
22	May	company records	2021	-
23	June	company records	2021	-
24	July	company records	2021	-
25	August	company records	2021	-
26	September	company records	2021	-
27	October	company records	2021	-
28	November	company records	2021	-
29	December	p207.75.g	2021	-
30	Distribution Plant In Service	(sum lines 17-29) /13		-
31	Calculation of Intangible Plant In Service	Source		
32	December	p204.5.b	2020	-
33	December	p205.5.g	2021	-
34	Intangible Plant In Service	(sum lines 32 & 33) /2		-
35	Calculation of General Plant In Service	Source		
36	December	p206.99.b	2020	-
37	December	p207.99.g	2021	-
38	General Plant In Service	(sum lines 36 & 37) /2		-
39	Calculation of Production Plant In Service	Source		
40	December	p204.46b	2020	-
41	January	company records	2021	-
42	February	company records	2021	-
43	March	company records	2021	-
44	April	company records	2021	-
45	May	company records	2021	-
46	March	Attachment 6	2021	-
47	April	company records	2021	-
48	August	company records	2021	-
49	September	company records	2021	-
50	October	company records	2021	-
51	November	company records	2021	-
52	December	p205.46.g	2021	-
53	Production Plant In Service	(sum lines 40-52) /13		-

Attachment 4 - Cost Support
PATH West Virginia Transmission Company, LLC

54	Calculation of Common Plant In Service	Source	Year	Balance
55	December (Electric Portion)	p356	2020	-
56	December (Electric Portion)	p356	2021	-
57	Common Plant In Service	(sum lines 55 & 56) /2		-
58	Total Plant In Service	(sum lines 15, 30, 34, 38, 53, & 57)		-

Accumulated Depreciation Worksheet

Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions

Details

59	Calculation of Transmission Accumulated Depreciation	Source	Year	Balance
60	December	Prior year p219.25	2020	-
61	January	company records	2021	-
62	February	company records	2021	-
63	March	company records	2021	-
64	April	company records	2021	-
65	May	company records	2021	-
66	June	company records	2021	-
67	July	company records	2021	-
68	August	company records	2021	-
69	September	company records	2021	-
70	October	company records	2021	-
71	November	company records	2021	-
72	December	p219.25	2021	-
73	Transmission Accumulated Depreciation	(sum lines 60-72) /13		-
74	Calculation of Distribution Accumulated Depreciation	Source		
75	December	Prior year p219.26	2020	-
76	January	company records	2021	-
77	February	company records	2021	-
78	March	company records	2021	-
79	April	company records	2021	-
80	May	company records	2021	-
81	June	company records	2021	-
82	July	company records	2021	-
83	August	company records	2021	-
84	September	company records	2021	-
85	October	company records	2021	-
86	November	company records	2021	-
87	December	p219.26	2021	-
88	Distribution Accumulated Depreciation	(sum lines 75-87) /13		-
89	Calculation of Intangible Accumulated Depreciation	Source		
90	December	Prior year p200.21.c	2020	-
91	December	p200.21c	2021	-
92	Accumulated Intangible Depreciation	(sum lines 90 & 91) /2		-
93	Calculation of General Accumulated Depreciation	Source		
94	December	Prior year p219.28	2020	-
95	December	p219.28	2021	-
96	Accumulated General Depreciation	(sum lines 94 & 95) /2		-

138

Prepayments (Account 165)

111.57.c

-

-

-

page 23 of 44

Attachment 4 - Cost Support
PATH West Virginia Transmission Company, LLC

		Source			Amos Substation Upgrade	Amos to Welton Spring Line	Welton Spring Substation and SVC	Welton Spring to Interconnection with PATH Allegheny	Total
139	Calculation of Transmission CWIP								
140	December	216.b	2020	\$	-	-	-	-	-
141	January	company records	2021	-	-	-	-	-	-
142	February	company records	2021	-	-	-	-	-	-
143	March	company records	2021	-	-	-	-	-	-
144	April	company records	2021	-	-	-	-	-	-
145	May	company records	2021	-	-	-	-	-	-
146	June	company records	2021	-	-	-	-	-	-
147	July	company records	2021	-	-	-	-	-	-
148	August	company records	2021	-	-	-	-	-	-
149	September	company records	2021	-	-	-	-	-	-
150	October	company records	2021	-	-	-	-	-	-
151	November	company records	2021	-	-	-	-	-	-
152	December	216.b	2021	-	-	-	-	-	-
153	Transmission CWIP	(sum lines 140-152) /13		-	-	-	-	-	-

LAND HELD FOR FUTURE USE

Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions				Beg of year	End of Year	Average	Details
154	LAND HELD FOR FUTURE USE	p214	Total	-	-	-	
			Non-transmission Related	-	-	-	
			Transmission Related	-	-	-	

EPRI Dues Cost Support

Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions				Details	
Allocated General & Common Expenses					
		EPRI Dues	Common Expenses	EPRI Dues	Common Expenses
155	EPRI Dues & Common Expenses	p352-353	p356	-	-

Regulatory Expense Related to Transmission Cost Support

Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions				Form 1 Amount	Transmission Related	Non-transmission Related	Details
Directly Assigned A&G							
156	Regulatory Commission Exp Account 928		p323.189.b	-	-	-	

Attachment 4 - Cost Support
PATH West Virginia Transmission Company, LLC

Safety Related Advertising, Education and Out Reach Cost Support

Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions				Form 1 Amount	Safety, Education, Siting & Outreach Related	Other	Details
157	Directly Assigned A&G General Advertising Exp Account 930.1	p323.191.b		-	-	-	None

Multi-state Workpaper

Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions				State 1	State 2	State 3	State 4	State 5	Weighed Average
158	Income Tax Rates SIT=State Income Tax Rate or Composite				WV 6.500%				6.50%

Excluded Plant Cost Support

Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions				Excluded Transmission Facilities	Description of the Facilities
159	Adjustment to Remove Revenue Requirements Associated with Excluded Transmission Facilities Excluded Transmission Facilities			-	General Description of the Facilities
	Instructions:			Enter \$	None
1	Remove all investment below 69 kV facilities, including the investment allocated to distribution of a dual function substation, generator, interconnection and local and direct assigned facilities for which separate costs are charged and step-up generation substation included in transmission plant in service.			-	
2	If unable to determine the investment below 69kV in a substation with investment of 69 kV and higher as well as below 69 kV, the following formula will be used: Example			Or Enter \$	
A	Total investment in substation	1,000,000		-	
B	Identifiable investment in Transmission (provide workpapers)	500,000		-	
C	Identifiable investment in Distribution (provide workpapers)	400,000		-	
D	Amount to be excluded (A x (C / (B + C)))	444,444		-	
Add more lines if necessary					

Materials & Supplies

Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions				Beg of year	End of Year	Average
160	Assigned to O&M	p227.6		-	-	-
161	Stores Expense Undistributed	p227.16		-	-	-
162	Undistributed Stores Exp			-	-	-
163	Transmission Materials & Supplies	p227.8		-	-	-

Regulatory Asset

Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions				
164	Beginning Balance of Regulatory Asset	p111.72.d (and notes)	-	Reference FERC Form 1 page 232 for details.
165	Months Remaining in Amortization Period		-	Uncapitalized costs as of date the rates become effective
166	Monthly Amortization	(line 164 - line 168) / 167	-	As approved by FERC
167	Months in Year to be amortized		-	
168	Ending Balance of Regulatory Asset	p111.72.c	-	Number of months rates are in effect during the calendar year
169	Average Balance of Regulatory Asset	(line 164 + line 168)/2	-	

Attachment 4 - Cost Support
PATH West Virginia Transmission Company, LLC

Capital Structure**Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions**

170	Monthly Balances for Capital Structure				
171		Year		Debt	Preferred Stock Common Stock
172	January	2021		0	- - 0
173	February	2021		-	- -
174	March	2021		-	- -
175	April	2021		-	- -
176	May	2021		-	- -
177	June	2021		-	- -
178	July	2021		-	- -
179	August	2021		-	- -
180	September	2021		-	- -
181	October	2021		-	- -
182	November	2021		-	- -
183	December	2021		-	- -
184	Average			0	- - 0

Note: the amount outstanding for debt retired during the year is the outstanding amount as of the last month it was outstanding; the equity is less Account 216.1, Preferred Stock, and Account 219; and the capital structure is fixed at 50/50 until the first two lines are placed in service

Detail of Account 566 Miscellaneous Transmission Expenses**Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions**

			Total
185	Amortization Expense on Regulatory Asset		-
186	Miscellaneous Transmission Expense		-
		Footnote Data: Schedule	
		Page 320 b. 97	
187	Total Account 566		-

PBOPs**Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions****Details**

188	Calculation of PBOP Expenses		
189	<u>PATH-WV - AEP Employees</u>		
190	Total PBOP expenses		\$117,254,159
191	Amount relating to retired personnel		\$0
192	Amount allocated on Labor		\$117,254,159
193	Labor dollars		1,151,954,661
194	Cost per labor dollar		\$0.102
195	PATH WV labor (labor not capitalized) current year		23,788
196	PATH WV PBOP Expense for current year		\$2,421
197	PATH WV PBOP Expense in Account 926 for current year		-\$762
198	PBOP Adjustment for Appendix A, Line 50		\$3,183
199	Lines 190-194 cannot change absent approval or acceptance by FERC in a separate proceeding.		
199	<u>PATH-WV - Allegheny Employees</u>		
200	Total PBOP expenses		\$22,856,433
201	Amount relating to retired personnel		\$8,786,372
202	Amount allocated on FTEs		\$14,070,061
203	Number of FTEs		4,474
204	Cost per FTE		\$3,145
205	PATH WV FTEs (labor not capitalized) current year		-
206	PATH WV PBOP Expense for current year		\$0
207	PATH WV PBOP Expense in Account 926 for current year		\$0
208	PBOP Adjustment for Appendix A, Line 50		\$0
209	Lines 200-204 cannot change absent approval or acceptance by FERC in a separate proceeding.		
210	PBOP Expense adjustment	(sum lines 198 & 208)	\$3,183

Attachment 4 - Cost Support
PATH Allegheny Transmission Company, LLC

Plant in Service Worksheet

Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions				
1	Calculation of Transmission Plant In Service	Source	Year	Balance
2	December	p206.58.b	2020	-
3	January	company records	2021	-
4	February	company records	2021	-
5	March	company records	2021	-
6	April	company records	2021	-
7	May	company records	2021	-
8	June	company records	2021	-
9	July	company records	2021	-
10	August	company records	2021	-
11	September	company records	2021	-
12	October	company records	2021	-
13	November	company records	2021	-
14	December	p207.58.g	2021	-
15	Transmission Plant In Service	(sum lines 2-14) /13		-
16	Calculation of Distribution Plant In Service	Source		
17	December	p206.75.b	2020	-
18	January	company records	2021	-
19	February	company records	2021	-
20	March	company records	2021	-
21	April	company records	2021	-
22	May	company records	2021	-
23	June	company records	2021	-
24	July	company records	2021	-
25	August	company records	2021	-
26	September	company records	2021	-
27	October	company records	2021	-
28	November	company records	2021	-
29	December	p207.75.g	2021	-
30	Distribution Plant In Service	(sum lines 17-29) /13		-
31	Calculation of Intangible Plant In Service	Source		
32	December	p204.5b	2020	-
33	December	p205.5.g	2021	-
34	Intangible Plant In Service	(sum lines 32 & 33) /2		-
35	Calculation of General Plant In Service	Source		
36	December	p206.99.b	2020	-
37	December	p207.99.g	2021	-
38	General Plant In Service	(sum lines 36 & 37) /2		-
39	Calculation of Production Plant In Service	Source		
40	December	p204.46b	2020	-
41	January	company records	2021	-
42	February	company records	2021	-
43	March	company records	2021	-
44	April	company records	2021	-
45	May	company records	2021	-
46	March	Attachment 6	2021	-
47	April	company records	2021	-
48	August	company records	2021	-
49	September	company records	2021	-
50	October	company records	2021	-
51	November	company records	2021	-
52	December	p205.46.g	2021	-
53	Production Plant In Service	(sum lines 40-52) /13		-

Attachment 4 - Cost Support
PATH Allegheny Transmission Company, LLC

54	<u>Calculation of Common Plant In Service</u>	Source	Year	Balance
55	December (Electric Portion)	p356	2020	-
56	December (Electric Portion)	p356	2021	-
57	Common Plant In Service	(sum lines 55 & 56) /2		-
58	<u>Total Plant In Service</u>	(sum lines 15, 30, 34, 38, 53, & 57)		-

Accumulated Depreciation Worksheet

Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions				Details
59	<u>Calculation of Transmission Accumulated Depreciation</u>	Source	Year	Balance
60	December	Prior year p219.25	2020	-
61	January	company records	2021	-
62	February	company records	2021	-
63	March	company records	2021	-
64	April	company records	2021	-
65	May	company records	2021	-
66	June	company records	2021	-
67	July	company records	2021	-
68	August	company records	2021	-
69	September	company records	2021	-
70	October	company records	2021	-
71	November	company records	2021	-
72	December	p219.25	2021	-
73	Transmission Accumulated Depreciation	(sum lines 60-72) /13		-
74	<u>Calculation of Distribution Accumulated Depreciation</u>	Source		
75	December	Prior year p219.26	2020	-
76	January	company records	2021	-
77	February	company records	2021	-
78	March	company records	2021	-
79	April	company records	2021	-
80	May	company records	2021	-
81	June	company records	2021	-
82	July	company records	2021	-
83	August	company records	2021	-
84	September	company records	2021	-
85	October	company records	2021	-
86	November	company records	2021	-
87	December	p219.26	2021	-
88	Distribution Accumulated Depreciation	(sum lines 75-87) /13		-
89	<u>Calculation of Intangible Accumulated Depreciation</u>	Source		
90	December	Prior year p200.21.c	2020	-
91	December	p200.21c	2021	-
92	Accumulated Intangible Depreciation	(sum lines 90 & 91) /2		-
93	<u>Calculation of General Accumulated Depreciation</u>	Source		
94	December	Prior year p219.28	2020	-
95	December	p219.28	2021	-
96	Accumulated General Depreciation	(sum lines 94 & 95) /2		-

Attachment 4 - Cost Support
PATH Allegheny Transmission Company, LLC

97	<u>Calculation of Production Accumulated Depreciation</u>	Source	Year	Balance
98	December	Prior year p219	2020	-
99	January	company records	2021	-
100	February	company records	2021	-
101	March	company records	2021	-
102	April	company records	2021	-
103	May	company records	2021	-
104	June	company records	2021	-
105	July	company records	2021	-
106	August	company records	2021	-
107	September	company records	2021	-
108	October	company records	2021	-
109	November	company records	2021	-
110	December	p219.20 thru 219.24	2021	-
111	<u>Production Accumulated Depreciation</u>	(sum lines 98-110) /13		-
112	<u>Calculation of Common Accumulated Depreciation</u>	Source		
113	December (Electric Portion)	p356	2020	-
114	December (Electric Portion)	p356	2021	-
115	<u>Common Plant Accumulated Depreciation (Electric Only)</u>	(sum lines 113 & 114) /2		-
116	<u>Total Accumulated Depreciation</u>	(sum lines 73, 88, 92, 96, 111, & 115)		-

ADJUSTMENTS TO RATE BASE (Note A)

Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions					Details		
			Beginning of Year	End of Year	Average Balance		
117	Account No. 281 (enter negative)	273.8.k	-	-	-		
118	Account No. 282 (enter negative)	275.2.k	-	-	-		
119	Account No. 283 (enter negative)	277.9.k	-	-	-		
120	Account No. 190	234.8.c	(120,290)	544,116	211,913		
121	Account No. 255 (enter negative)	267.8.h	-	-	-		
122	<u>Unamortized Abandoned Plant</u>	Per FERC Order					
123	<u>Monthly Balance</u>	Source	Months Remaining In Amortization Period	Beginning Balance	Amortization Expense (p114.10.c)	Additions (Deductions)	Ending Balance
124	December	p111.71.d (and Notes)	0	-	-	-	-
125	January	company records	-	-	-	-	-
126	February	company records	-	-	-	-	-
127	March	company records	-	-	-	-	-
128	April	company records	-	-	-	-	-
129	May	company records	-	-	-	-	-
130	June	company records	-	-	-	-	-
131	July	company records	-	-	-	-	-
132	August	company records	-	-	-	-	-
133	September	company records	-	-	-	-	-
134	October	company records	-	-	-	-	-
135	November	company records	-	-	-	-	-
136	December	p111.71.c (and Notes) Detail on p230b	-	-	-	-	-
137	<u>Ending Balance is a 13-Month Average</u>	(sum lines 124-136) /13			\$0.00	-	\$0.00
Note: Deductions resulting from gains or recoveries that exceed the unamortized balance are recorded in FERC Account 254, Other Regulatory Liabilities.					Appendix A Line 62		Appendix A Line 34
138	Prepayments (Account 165)	111.57.c	-	-	-		

Attachment 4 - Cost Support
PATH Allegheny Transmission Company, LLC

				Kempton Substation	Kempton to Interconnection with PATH West Virginia	Welton Spring Substation and SVC	Total
139	<u>Calculation of Transmission CWIP</u>	Source					
140	December	216.b	2020				
141	January	company records	2021				
142	February	company records	2021				
143	March	company records	2021				
144	April	company records	2021				
145	May	company records	2021				
146	June	company records	2021				
147	July	company records	2021				
148	August	company records	2021				
149	September	company records	2021				
150	October	company records	2021				
151	November	company records	2021				
152	December	216.b	2021				
153	Transmission CWIP	(sum lines 140-152) /13	-	-	-	-	-

LAND HELD FOR FUTURE USE

Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions				Beg of year	End of Year	Average	Details
154	LAND HELD FOR FUTURE USE	p214	Total	-	-	-	
			Non-transmission Related	-	-	-	
			Transmission Related	-	-	-	

EPRI Dues Cost Support

Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions				Details			
Allocated General & Common Expenses				EPRI Dues	Common Expenses		
155	EPRI Dues & Common Expenses	p352-353	p356	-	-		

Regulatory Expense Related to Transmission Cost Support

Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions				Form 1 Amount	Transmission Related	Non-transmission Related	Details
156	Directly Assigned A&G Regulatory Commission Exp Account 928		p323.189.b	-	-	-	

Attachment 4 - Cost Support
PATH Allegheny Transmission Company, LLC

Safety Related Advertising, Education and Out Reach Cost Support

Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions			Form 1 Amount	Safety, Education, Siting & Outreach Related	Other	Details
157	Directly Assigned A&G General Advertising Exp Account 930.1	p323.191.b	-	-	-	None

Multi-state Workpaper

Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions			State 1	State 2	State 3	State 4	State 5	Weighed Average
Income Tax Rates			MD	WV	VA			
158	SIT=State Income Tax Rate or Composite		8.250%	6.500%	6.000%			2.764%

Excluded Plant Cost Support

Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions			Excluded Transmission Facilities	Description of the Facilities
159	Adjustment to Remove Revenue Requirements Associated with Excluded Transmission Facilities Excluded Transmission Facilities		-	General Description of the Facilities
Instructions:			Enter \$	None
1 Remove all investment below 69 kV facilities, including the investment allocated to distribution of a dual function substation, generator, interconnection and local and direct assigned facilities for which separate costs are charged and step-up generation substation included in transmission plant in service.				
			-	
2 If unable to determine the investment below 69kV in a substation with investment of 69 kV and higher as well as below 69 kV, the following formula will be used:			Or	
Example			Enter \$	
A Total investment in substation			-	
B Identifiable investment in Transmission (provide workpapers)			-	
C Identifiable investment in Distribution (provide workpapers)			-	
D Amount to be excluded (A x (C / (B + C)))			-	
				Add more lines if necessary

Materials & Supplies

Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions			Beg of year	End of Year	Average
160	Assigned to O&M	p227.6	-	-	-
161	Stores Expense Undistributed	p227.16	-	-	-
162	Undistributed Stores Exp		-	-	-
163	Transmission Materials & Supplies	p227.8	-	-	-

Regulatory Asset

Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions			
164	Beginning Balance of Regulatory Asset	p111.72.d (and notes)	-
165	Months Remaining in Amortization Period		-
166	Monthly Amortization	(line 164 - line 168) / 167	-
167	Months in Year to be Amortized		-
168	Ending Balance of Regulatory Asset	p111.72.c	-
169	Average Balance of Regulatory Asset	(line 164 + line 168)/2	-
			Reference FERC Form 1 page 232 for details. Uncapitalized costs as of date the rates become effective As approved by FERC Number of months rates are in effect during the calendar year

Attachment 4 - Cost Support
Ba

Capital Structure

Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions					
170	Monthly Balances for Capital Structure				
171		Year	Debt	Preferred Stock	Common Stock
172	January	2021	0	-	0
173	February	2021	-	-	-
174	March	2021	-	-	-
175	April	2021	-	-	-
176	May	2021	-	-	-
177	June	2021	-	-	-
178	July	2021	-	-	-
179	August	2021	-	-	-
180	September	2021	-	-	-
181	October	2021	-	-	-
182	November	2021	-	-	-
183	December	2021	-	-	-
184	Average		0	-	0

Note: the amount outstanding for debt retired during the year is the outstanding amount as of the last month it was outstanding; the equity is less Account 216.1, Preferred Stock, and Account 219; and the capital structure is fixed at 50/50 until the first two lines are placed in service

Detail of Account 566 Miscellaneous Transmission Expenses

Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions			Total
185	Amortization Expense on Regulatory Asset		-
186	Miscellaneous Transmission Expense		11,934
		Footnote Data: Schedule	
187	Total Account 566	Page 320 b. 97	11,934

PBOPs

Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions			Details
188	Calculation of PBOP Expenses		
189	<u>PATH - Allegheny - Allegheny Employees</u>		
190	Total PBOP expenses	\$22,856,433	
191	Amount relating to retired personnel	\$8,786,372	
192	Amount allocated on FTEs	\$14,070,061	
193	Number of FTEs	4,475	
194	Cost per FTE	\$3,144	
195	PATH Allegheny FTEs (labor not capitalized) current year	-	
196	PATH Allegheny PBOP Expense for current year	\$0	
197	PATH Allegheny PBOP Expense in Account 926 for current year	\$0	
198	PBOP Adjustment for Appendix A, Line 50	-	
199	Lines 190-194 cannot change absent approval or acceptance by FERC in a separate proceeding.		

Attachment 5 - Transmission Enhancement Charge Worksheet
PATH West Virginia Transmission Company, LLC

New Plant Carrying Charge

Formula Line	Item	
5	NET REVENUE REQUIREMENT	362,265
21	NET TRANSMISSION PLANT IN SERVICE	-
32	CWIP	-
34	Unamortized Abandoned Plant	-
	Carrying charge (line 3/sum of lines 4, 5 and 6)	-

(1) (2) (3) (4) (5) (6) (7)

The FCR resulting from Formula in a given year is used for that year only.
Therefore actual revenues collected in a year do not change based on cost data for subsequent years

		PJM Upgrade ID: b0490 & b0491						
Details Schedule 12 FCR for This Project Investment Revenue Requirement	(Yes or No)	Amos Substation Upgrade - CWIP	Amos to Midpoint Line - CWIP	Midpoint Substation and SVC - CWIP	Midpoint to Interconnection with PATH Allegheny - CWIP	Transmission Plant In Service	Unamortized Abandoned Plant	Totals
		Yes	Yes	Yes		Yes	Yes	
		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
		0	-	-	-	-	-	-
		-	-	-	-	-	-	362,265

Attachment 5 - Transmission Enhancement Charge Worksheet
PATH Allegheny Transmission Company, LLC

New Plant Carrying Charge

Formula Line	Item	
5	NET REVENUE REQUIREMENT	127,402
21	NET TRANSMISSION PLANT IN SERVICE	-
32	CWIP	-
34	Unamortized Abandoned Plant	-
Carrying charge (line 3/sum of lines 4, 5and 6)		-

(1) (2) (3) (4) (5) (6)

The FCR resulting from Formula in a given year is used for that year only.
Therefore actual revenues collected in a year do not change based on cost data for subsequent years

PJM Upgrade ID: b0492 & b0560						
Details	Kemptown Substation - CWIP	Kemptown to Interconnection with PATH West Virginia - CWIP	Welton Spring Substation and SVC - CWIP	Transmission Plant In Service	Unamortized Abandoned Plant	Totals
"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Yes	Yes	Yes	Yes	Yes	
Schedule 12 (Yes or No)	0.0%	0.0%	0.0%	0.0%	0.0%	
FCR for This Project						
forecast – Forecast of average 13 month current year net transmission plant plus 13-mo CWIP balances. Reconciliation – Average of 13 month prior year net transmission plant balances plus prior year 13-mo CWIP balances.						
Investment Revenue Requirement	-	-	-	-	-	-
	-	-	-	-	-	127,402

Attachment 6 has been removed and intentionally left blank.

Attachment 6 has been removed and intentionally left blank.

Potomac-Appalachian Transmission Highline, LLC		Attachment 7 PATH West Virginia Transmission Company, LLC					
CALCULATION OF COST OF DEBT AFTER CONSTRUCTION PHASE		(HYPOTHETICAL EXAMPLE)					
YEAR ENDED	12/31/2014						
	Amount Outstanding	Unamortized Debt Issue Expense	Unamortized Debt Premium/ (Discount)	Unamortized Losses on Reacquired Debt	Net Amount Outstanding	Effective Cost Rate ¹	Annualized Cost
<u>Debt:</u>							
<u>First Mortgage Bonds:</u>							
	\$ 300,000,000	\$2,900,000	(\$2,320,000)	\$0	\$294,780,000	#N/A	#N/A
<u>Other Long Term Debt:</u>							
6.600% Series Medium Term Notes Due 2021	\$ 200,000,000	\$1,800,000		-	\$198,200,000	#N/A	#N/A
					-		
Total Debt	<u>\$ 500,000,000</u>	<u>\$ 4,700,000</u>	<u>\$ (2,320,000)</u>	<u>\$ -</u>	<u>\$ 492,980,000</u>	<u>#N/A</u>	<u>#N/A</u>
Check with FERC Form 1 B/S pgs 110-113	\$ 185,750,000	\$ (1,131,082)	\$ (1,595,909)	\$ 17,075,452			

Development of Effective Cost Rates:												
		Issue Date	Maturity Date	Amount Issued	(Discount) Premium at Issuance	Issuance Expense	Loss on Reacquired Debt	Net Proceeds	Net Proceeds Ratio	Coupon Rate	Effective Cost Rate	Annual Interest
<u>First Mortgage Bonds</u>												
7.090% Series Due	2041	1/1/2014	6/30/2044	\$ 300,000,000	\$ (2,400,000)	\$ 3,000,000	-	\$ 294,600,000	98.2000	0.07090	#N/A	\$ 21,270,000
<u>Other Long Term Debt:</u>												
6.600% Series Medium Term Notes Due 2021		01/01/2014	06/30/2024	200,000,000		2,000,000		\$ 198,000,000	99.0000	0.06600	#N/A	13,200,000
				\$ 500,000,000	(2,400,000)	\$ 5,000,000	-	\$ 492,600,000				\$ 34,470,000

¹ The Effective Cost Rate is the Debt Cost shown on Page 5, Line 118 of Rate Formula Template.

Potomac-Appalachian Transmission Highline, LLC		Attachment 7 PATH Allegheny Transmission Company, LLC									
CALCULATION OF COST OF DEBT AFTER CONSTRUCTION PHASE		(HYPOTHETICAL EXAMPLE)									
YEAR ENDED	12/31/2014										
	Amount Outstanding	Unamortized Debt Issue Expense	Unamortized Debt Premium/ (Discount)	Unamortized Losses on Reacquired Debt	Net Amount Outstanding	Effective Cost Rate ¹	Annualized Cost				
<u>Debt:</u>											
<u>First Mortgage Bonds:</u>											
	\$ 300,000,000	\$2,900,000	(\$2,320,000)	\$0	\$294,780,000	#N/A	#N/A				
<u>Other Long Term Debt:</u>											
6.600% Series Medium Term Notes Due 2021	\$ 200,000,000	\$1,800,000		-	\$198,200,000	#N/A	#N/A				
					-						
Total Debt	<u>\$ 500,000,000</u>	<u>\$ 4,700,000</u>	<u>\$ (2,320,000)</u>	<u>\$ -</u>	<u>\$ 492,980,000</u>	<u>#N/A</u>	<u>#N/A</u>				
Check with FERC Form 1 B/S pgs 110-113	\$ 185,750,000	\$ (1,131,082)	\$ (1,595,909)	\$ 17,075,452							
Development of Effective Cost Rates:											
	Issue Date	Maturity Date	Amount Issued	(Discount) Premium at Issuance	Issuance Expense	Loss on Reacquired Debt	Net Proceeds	Net Proceeds Ratio	Coupon Rate	Effective Cost Rate	Annual Interest
<u>First Mortgage Bonds</u>											
7.090% Series Due	2041	1/1/2014	6/30/2044	\$ 300,000,000	\$ (2,400,000)	\$ 3,000,000	-	\$ 294,600,000	98.2000	0.07090	#N/A \$ 21,270,000
											-
<u>Other Long Term Debt:</u>											
6.600% Series Medium Term Notes Due 2021	01/01/2014	06/30/2024	200,000,000		2,000,000		\$ 198,000,000	99.0000	0.06600	#N/A	13,200,000
			<u>\$ 500,000,000</u>	<u>(2,400,000)</u>	<u>\$ 5,000,000</u>	<u>-</u>	<u>\$ 492,600,000</u>				<u>\$ 34,470,000</u>

¹ The Effective Cost Rate is the Debt Cost shown on Page 10, Line 118 of Rate Formula Template.

Attachment 8
Potomac-Appalachian Transmission Highline, LLC
Interest Rates and Interest Calculations
PATH West Virginia Transmission Company, LLC

Reconciliation Revenue Requirement For Year 2019 Available June 1, 2020		2019 Revenue Requirement Forecast by Sept 4, 2018		True-up Adjustment - Over (Under) Recovery
\$631,169	-	\$806,046	=	\$174,877

Interest Rate on Amount of Refunds or Surcharges from 35.19a	Over (Under) Recovery Plus Interest	Average Monthly Interest Rate	Months	Calculated Interest	Amortization	Surcharge (Refund) Owed
		0.4195%				

An over or under collection will be recovered prorata over 2019, held for 2020 and returned prorata over 2021

<u>Calculation of Interest</u>					Monthly	
January	Year 2019	14,573	0.4195%	12	(734)	(15,307)
February	Year 2019	14,573	0.4195%	11	(672)	(15,246)
March	Year 2019	14,573	0.4195%	10	(611)	(15,184)
April	Year 2019	14,573	0.4195%	9	(550)	(15,123)
May	Year 2019	14,573	0.4195%	8	(489)	(15,062)
June	Year 2019	14,573	0.4195%	7	(428)	(15,001)
July	Year 2019	14,573	0.4195%	6	(367)	(14,940)
August	Year 2019	14,573	0.4195%	5	(306)	(14,879)
September	Year 2019	14,573	0.4195%	4	(245)	(14,818)
October	Year 2019	14,573	0.4195%	3	(183)	(14,756)
November	Year 2019	14,573	0.4195%	2	(122)	(14,695)
December	Year 2019	14,573	0.4195%	1	(61)	(14,634)
					(4,768)	(179,645)
					Annual	
January through December	Year 2020	(179,645)	0.4195%	12	(9,043)	(188,689)
<u>Over (Under) Recovery Plus Interest Amortized and Recovered Over 12 Months</u>					Monthly	
January	Year 2021	188,689	0.4195%		(792)	16,156
February	Year 2021	173,324	0.4195%		(727)	16,156
March	Year 2021	157,895	0.4195%		(662)	16,156
April	Year 2021	142,401	0.4195%		(597)	16,156
May	Year 2021	126,843	0.4195%		(532)	16,156
June	Year 2021	111,219	0.4195%		(467)	16,156
July	Year 2021	95,529	0.4195%		(401)	16,156
August	Year 2021	79,774	0.4195%		(335)	16,156
September	Year 2021	63,952	0.4195%		(268)	16,156
October	Year 2021	48,065	0.4195%		(202)	16,156
November	Year 2021	32,110	0.4195%		(135)	16,156
December	Year 2021	16,089	0.4195%		(67)	16,156
					(5,185)	
True-Up Adjustment with Interest						(193,873)
Less Over (Under) Recovery						174,877
Total Interest						(18,996)

Attachment 8
Potomac-Appalachian Transmission Highline, LLC
Example of Interest Rates and Interest Calculations
PATH Allegheny Transmission Company, LLC

Reconciliation Revenue Requirement For Year 2019 Available June 1, 2020 \$226,068	-	2019 Revenue Requirement Forecast by Sept 4, 2018 \$222,174	=	True-up Adjustment - Over (Under) Recovery (\$3,894)
--	---	---	---	--

Interest Rate on Amount of Refunds or Surcharges from 35.19a	Over (Under) Recovery Plus Interest	Average Monthly Interest Rate	Months	Calculated Interest	Amortization	Surcharge (Refund) Owed
		0.4195%				

An over or under collection will be recovered prorata over 2019, held for 2020 and returned prorata over 2021

<u>Calculation of Interest</u>					<u>Monthly</u>	
January	Year 2019	(325)	0.4195%	12	16	341
February	Year 2019	(325)	0.4195%	11	15	339
March	Year 2019	(325)	0.4195%	10	14	338
April	Year 2019	(325)	0.4195%	9	12	337
May	Year 2019	(325)	0.4195%	8	11	335
June	Year 2019	(325)	0.4195%	7	10	334
July	Year 2019	(325)	0.4195%	6	8	333
August	Year 2019	(325)	0.4195%	5	7	331
September	Year 2019	(325)	0.4195%	4	5	330
October	Year 2019	(325)	0.4195%	3	4	329
November	Year 2019	(325)	0.4195%	2	3	327
December	Year 2019	(325)	0.4195%	1	1	326
					106	4,000
					<u>Annual</u>	
January through December	Year 2020	4,000	0.4195%	12	201	4,202
<u>Over (Under) Recovery Plus Interest Amortized and Recovered Over 12 Months</u>					<u>Monthly</u>	
January	Year 2021	(4,202)	0.4195%		18	(360)
February	Year 2021	(3,859)	0.4195%		16	(360)
March	Year 2021	(3,516)	0.4195%		15	(360)
April	Year 2021	(3,171)	0.4195%		13	(360)
May	Year 2021	(2,824)	0.4195%		12	(360)
June	Year 2021	(2,477)	0.4195%		10	(360)
July	Year 2021	(2,127)	0.4195%		9	(360)
August	Year 2021	(1,776)	0.4195%		7	(360)
September	Year 2021	(1,424)	0.4195%		6	(360)
October	Year 2021	(1,070)	0.4195%		4	(360)
November	Year 2021	(715)	0.4195%		3	(360)
December	Year 2021	(358)	0.4195%		2	(360)
					115	
True-Up Adjustment with Interest					\$	4,317
Less Over (Under) Recovery					\$	(3,894)
Total Interest					\$	423

Potomac-Appalachian Transmission Highline, LLC
Attachment 9 - Hypothetical Example of Final True-Up of Interest Rates and Interest Calculations for the Construction Loan

Applicable to both PATH West Virginia Transmission Company, LLC & PATH Allegheny Transmission Company, LLC

To be Prepared on 8/15/2013 (hypothetical date)

SUMMARY							
YEAR	Estimated Effective cost of debt used in forecast/true up	Final Effective cost of debt for the construction loan:	Hypothetical Revenue Requirement			Hypothetical Monthly Interest Rate applicable over the ATRR period	Total Amount of Construction Loan Related True-Up included in rates effective Jan 2014 (Refund)/Owed
			Based on Estimated Effective cost of debt	Based on Actual Effective cost of debt	Over (Under) Recovery		
2008	7.18%	7.00%	\$ 2,500,000.00	\$ 2,400,000.00	\$ 100,000.00	0.550%	\$ (148,288.33)
2009	6.8%	7.00%	\$5,000,000.00	\$5,150,000.00	\$ (150,000.00)	0.560%	\$ 209,670.43
2010	7.2%	7.00%	\$8,300,000.00	\$8,200,000.00	\$ 100,000.00	0.540%	\$ (131,109.09)
2011	7.3%	7.00%	\$12,300,000.00	\$12,000,000.00	\$ 300,000.00	0.580%	\$ (368,656.73)
2012*	7.1%	6.83%	\$18,000,000.00	\$17,900,000.00	\$ 100,000.00	0.570%	\$ (114,946.28)
2013**	6.50%	6.50%	\$25,000,000.00	\$25,000,000.00	\$ -		
2014**	6.50%	6.50%					\$ (553,329.99)

* Assumes that the construction loan is retired on Sept 1, 2012

** Assumes permanent debt structure is put in place on Sept 1, 2012 with effective rate of 6.5%

Note: True-Up period is 2008 - 2012, with the true-up amount included in 2014 forecasted ATRR. Final effective cost of debt for 2012 is computed as follows: $((7\% \times 243 \text{ days}) + (6.5\% \times 122 \text{ days})) / 365 \text{ days}$

Calculation of Applicable Interest Expense for each ATRR period

Interest Rate on Amount of Refunds or Surcharges from 35.19a	Over (Under) Recovery Plus Interest	Hypothetical Monthly Interest Rate	Months	Calculated Interest	Amortization	Surcharge (Refund) Owed
--	-------------------------------------	------------------------------------	--------	---------------------	--------------	-------------------------

Calculation of Interest for 2008 True-Up Period

An over or under collection will be recovered prorata over 2008, held for 2009, 2010, 2011, 2012, 2013 and returned prorata over 2014

					Monthly	
January	Year 2008	-	0.5500%	12.00	-	-
February	Year 2008	-	0.5500%	11.00	-	-
March	Year 2008	10,000	0.5500%	10.00	(550)	(10,550)
April	Year 2008	10,000	0.5500%	9.00	(495)	(10,495)
May	Year 2008	10,000	0.5500%	8.00	(440)	(10,440)
June	Year 2008	10,000	0.5500%	7.00	(385)	(10,385)
July	Year 2008	10,000	0.5500%	6.00	(330)	(10,330)
August	Year 2008	10,000	0.5500%	5.00	(275)	(10,275)
September	Year 2008	10,000	0.5500%	4.00	(220)	(10,220)
October	Year 2008	10,000	0.5500%	3.00	(165)	(10,165)
November	Year 2008	10,000	0.5500%	2.00	(110)	(10,110)
December	Year 2008	10,000	0.5500%	1.00	(55)	(10,055)
					(3,025)	(103,025)
					Annual	
January through December	Year 2009	(103,025)	0.5600%	12.00	(6,923)	(109,948)
January through December	Year 2010	(109,948)	0.5400%	12.00	(7,125)	(117,073)
January through December	Year 2011	(117,073)	0.5800%	12.00	(8,148)	(125,221)
January through December	Year 2012	(125,221)	0.5700%	12.00	(8,565)	(133,786)
January through December	Year 2013	(133,786)	0.5700%	12.00	(9,151)	(142,937)
Over (Under) Recovery Plus Interest Amortized and Recovered Over 12 Months					Monthly	
January	Year 2014	142,937	0.5700%		(815)	(131,395)
February	Year 2014	131,395	0.5700%		(749)	(119,786)
March	Year 2014	119,786	0.5700%		(683)	(108,112)
April	Year 2014	108,112	0.5700%		(616)	(96,371)
May	Year 2014	96,371	0.5700%		(549)	(84,563)
June	Year 2014	84,563	0.5700%		(482)	(72,687)
July	Year 2014	72,687	0.5700%		(414)	(60,744)
August	Year 2014	60,744	0.5700%		(346)	(48,733)
September	Year 2014	48,733	0.5700%		(278)	(36,653)
October	Year 2014	36,653	0.5700%		(209)	(24,505)
November	Year 2014	24,505	0.5700%		(140)	(12,287)
December	Year 2014	12,287	0.5700%		(70)	0
					(5,351)	
Total Amount of True-Up Adjustment for 2008 ATRR					\$	(148,288)
Less Over (Under) Recovery					\$	100,000
Total Interest					\$	(48,288)

Potomac-Appalachian Transmission Highline, LLC
Attachment 9 - Hypothetical Example of Final True-Up of Interest Rates and Interest Calculations for the Construction Loan

Applicable to both PATH West Virginia Transmission Company, LLC & PATH Allegheny Transmission Company, LLC

Calculation of Interest for 2009 True-Up Period						
An over or under collection will be recovered prorata over 2009, held for 2010, 2011, 2012, 2013 and returned prorata over 2014						
					Monthly	
January	Year 2009	(12,500)	0.5600%	12.00	840	13,340
February	Year 2009	(12,500)	0.5600%	11.00	770	13,270
March	Year 2009	(12,500)	0.5600%	10.00	700	13,200
April	Year 2009	(12,500)	0.5600%	9.00	630	13,130
May	Year 2009	(12,500)	0.5600%	8.00	560	13,060
June	Year 2009	(12,500)	0.5600%	7.00	490	12,990
July	Year 2009	(12,500)	0.5600%	6.00	420	12,920
August	Year 2009	(12,500)	0.5600%	5.00	350	12,850
September	Year 2009	(12,500)	0.5600%	4.00	280	12,780
October	Year 2009	(12,500)	0.5600%	3.00	210	12,710
November	Year 2009	(12,500)	0.5600%	2.00	140	12,640
December	Year 2009	(12,500)	0.5600%	1.00	70	12,570
					5,460	155,460
					Annual	
January through December	Year 2010	155,460	0.5400%	12.00	10,074	165,534
January through December	Year 2011	165,534	0.5800%	12.00	11,521	177,055
January through December	Year 2012	177,055	0.5700%	12.00	12,111	189,166
January through December	Year 2013	189,166	0.5700%	12.00	12,939	202,104
Over (Under) Recovery Plus Interest Amortized and Recovered Over 12 Months					Monthly	
January	Year 2014	(202,104)	0.5700%		1,152	185,784
February	Year 2014	(185,784)	0.5700%		1,059	169,370
March	Year 2014	(169,370)	0.5700%		965	152,863
April	Year 2014	(152,863)	0.5700%		871	136,262
May	Year 2014	(136,262)	0.5700%		777	119,566
June	Year 2014	(119,566)	0.5700%		682	102,775
July	Year 2014	(102,775)	0.5700%		586	85,888
August	Year 2014	(85,888)	0.5700%		490	68,905
September	Year 2014	(68,905)	0.5700%		393	51,826
October	Year 2014	(51,826)	0.5700%		295	34,649
November	Year 2014	(34,649)	0.5700%		197	17,374
December	Year 2014	(17,374)	0.5700%		99	(0)
					7,566	
Total Amount of True-Up Adjustment for 2009 ATRR					\$	209,670
Less Over (Under) Recovery					\$	(150,000)
Total Interest					\$	59,670

Calculation of Interest for 2010 True-Up Period						
An over or under collection will be recovered prorata over 2010, held for 2011, 2012, 2013 and returned prorata over 2014						
					Monthly	
January	Year 2010	8,333	0.5400%	12.00	(540)	(8,873)
February	Year 2010	8,333	0.5400%	11.00	(495)	(8,828)
March	Year 2010	8,333	0.5400%	10.00	(450)	(8,783)
April	Year 2010	8,333	0.5400%	9.00	(405)	(8,738)
May	Year 2010	8,333	0.5400%	8.00	(360)	(8,693)
June	Year 2010	8,333	0.5400%	7.00	(315)	(8,648)
July	Year 2010	8,333	0.5400%	6.00	(270)	(8,603)
August	Year 2010	8,333	0.5400%	5.00	(225)	(8,558)
September	Year 2010	8,333	0.5400%	4.00	(180)	(8,513)
October	Year 2010	8,333	0.5400%	3.00	(135)	(8,468)
November	Year 2010	8,333	0.5400%	2.00	(90)	(8,423)
December	Year 2010	8,333	0.5400%	1.00	(45)	(8,378)
					(3,510)	(103,510)
					Annual	
January through December	Year 2011	(103,510)	0.5800%	12.00	(7,204)	(110,714)
January through December	Year 2012	(110,714)	0.5700%	12.00	(7,573)	(118,287)
January through December	Year 2013	(118,287)	0.5700%	12.00	(8,091)	(126,378)
Over (Under) Recovery Plus Interest Amortized and Recovered Over 12 Months					Monthly	
January	Year 2014	126,378	0.5700%		(720)	(116,173)
February	Year 2014	116,173	0.5700%		(662)	(105,909)
March	Year 2014	105,909	0.5700%		(604)	(95,587)
April	Year 2014	95,587	0.5700%		(545)	(85,206)
May	Year 2014	85,206	0.5700%		(486)	(74,766)
June	Year 2014	74,766	0.5700%		(426)	(64,266)
July	Year 2014	64,266	0.5700%		(366)	(53,707)
August	Year 2014	53,707	0.5700%		(306)	(43,087)
September	Year 2014	43,087	0.5700%		(246)	(32,407)
October	Year 2014	32,407	0.5700%		(185)	(21,666)
November	Year 2014	21,666	0.5700%		(123)	(10,864)
December	Year 2014	10,864	0.5700%		(62)	0
					(4,731)	
Total Amount of True-Up Adjustment for 2010 ATRR					\$	(131,109)
Less Over (Under) Recovery					\$	100,000
Total Interest					\$	(31,109)

Potomac-Appalachian Transmission Highline, LLC
Attachment 9 - Hypothetical Example of Final True-Up of Interest Rates and Interest Calculations for the Construction Loan

Applicable to both PATH West Virginia Transmission Company, LLC & PATH Allegheny Transmission Company, LLC

Calculation of Interest for 2011 True-Up Period							
An over or under collection will be recovered prorata over 2011, held for 2012, 2013 and returned prorata over 2014							
Monthly							
January	Year 2011	25,000	0.5800%	12.00	(1,740)		(26,740)
February	Year 2011	25,000	0.5800%	11.00	(1,595)		(26,595)
March	Year 2011	25,000	0.5800%	10.00	(1,450)		(26,450)
April	Year 2011	25,000	0.5800%	9.00	(1,305)		(26,305)
May	Year 2011	25,000	0.5800%	8.00	(1,160)		(26,160)
June	Year 2011	25,000	0.5800%	7.00	(1,015)		(26,015)
July	Year 2011	25,000	0.5800%	6.00	(870)		(25,870)
August	Year 2011	25,000	0.5800%	5.00	(725)		(25,725)
September	Year 2011	25,000	0.5800%	4.00	(580)		(25,580)
October	Year 2011	25,000	0.5800%	3.00	(435)		(25,435)
November	Year 2011	25,000	0.5800%	2.00	(290)		(25,290)
December	Year 2011	25,000	0.5800%	1.00	(145)		(25,145)
					(11,310)		(311,310)
Annual							
January through December	Year 2012	(311,310)	0.5700%	12.00	(21,294)		(332,604)
January through December	Year 2013	(332,604)	0.5700%	12.00	(22,750)		(355,354)
Over (Under) Recovery Plus Interest Amortized and Recovered Over 12 Months							
Monthly							
January	Year 2014	355,354	0.5700%		(2,026)	(30,721)	(326,658)
February	Year 2014	326,658	0.5700%		(1,862)	(30,721)	(297,798)
March	Year 2014	297,798	0.5700%		(1,697)	(30,721)	(268,774)
April	Year 2014	268,774	0.5700%		(1,532)	(30,721)	(239,585)
May	Year 2014	239,585	0.5700%		(1,366)	(30,721)	(210,229)
June	Year 2014	210,229	0.5700%		(1,198)	(30,721)	(180,706)
July	Year 2014	180,706	0.5700%		(1,030)	(30,721)	(151,015)
August	Year 2014	151,015	0.5700%		(861)	(30,721)	(121,154)
September	Year 2014	121,154	0.5700%		(691)	(30,721)	(91,123)
October	Year 2014	91,123	0.5700%		(519)	(30,721)	(60,921)
November	Year 2014	60,921	0.5700%		(347)	(30,721)	(30,547)
December	Year 2014	30,547	0.5700%		(174)	(30,721)	0
					(13,303)		
Total Amount of True-Up Adjustment for 2011 ATRR					\$	(368,657)	
Less Over (Under) Recovery					\$	300,000	
Total Interest					\$	(68,657)	

Calculation of Interest for 2012 True-Up Period							
An over or under collection will be recovered prorata over 2012, held for 2013 and returned prorata over 2014							
Monthly							
January	Year 2012	8,333	0.5700%	12.00	(570)		(8,903)
February	Year 2012	8,333	0.5700%	11.00	(523)		(8,856)
March	Year 2012	8,333	0.5700%	10.00	(475)		(8,808)
April	Year 2012	8,333	0.5700%	9.00	(428)		(8,761)
May	Year 2012	8,333	0.5700%	8.00	(380)		(8,713)
June	Year 2012	8,333	0.5700%	7.00	(333)		(8,666)
July	Year 2012	8,333	0.5700%	6.00	(285)		(8,618)
August	Year 2012	8,333	0.5700%	5.00	(238)		(8,571)
September	Year 2012	8,333	0.5700%	4.00	(190)		(8,523)
October	Year 2012	8,333	0.5700%	3.00	(143)		(8,476)
November	Year 2012	8,333	0.5700%	2.00	(95)		(8,428)
December	Year 2012	8,333	0.5700%	1.00	(48)		(8,381)
					(3,705)		(103,705)
Annual							
January through December	Year 2013	(103,705)	0.5700%	12.00	(7,093)		(110,798)
Over (Under) Recovery Plus Interest Amortized and Recovered Over 12 Months							
Monthly							
January	Year 2014	110,798	0.5700%		(632)	(9,579)	(101,851)
February	Year 2014	101,851	0.5700%		(581)	(9,579)	(92,853)
March	Year 2014	92,853	0.5700%		(529)	(9,579)	(83,803)
April	Year 2014	83,803	0.5700%		(478)	(9,579)	(74,702)
May	Year 2014	74,702	0.5700%		(426)	(9,579)	(65,549)
June	Year 2014	65,549	0.5700%		(374)	(9,579)	(56,344)
July	Year 2014	56,344	0.5700%		(321)	(9,579)	(47,086)
August	Year 2014	47,086	0.5700%		(268)	(9,579)	(37,776)
September	Year 2014	37,776	0.5700%		(215)	(9,579)	(28,412)
October	Year 2014	28,412	0.5700%		(162)	(9,579)	(18,995)
November	Year 2014	18,995	0.5700%		(108)	(9,579)	(9,525)
December	Year 2014	9,525	0.5700%		(54)	(9,579)	0
					(4,148)		
Total Amount of True-Up Adjustment for 2012 ATRR					\$	(114,946)	
Less Over (Under) Recovery					\$	100,000	
Total Interest					\$	(14,946)	

Potomac-Appalachian Transmission Highline, LLC
Attachment 10 - Depreciation Accrual Rates
Applicable to PATH West Virginia Transmission Company, LLC

TRANSMISSION PLANT

350.2	Land & Land Rights - Easements
352	Structures & Improvements
353	Station Equipment
	Other
	SVC Dynamic Control Equipment
354	Towers & Fixtures
355	Poles & Fixtures
356	Overhead Conductors & Devices

Accrual Rate
(Annual)
Percent

Annual
Depreciation
Expense

1.43	-
1.82	-
2.43	-
4.09	-
1.26	-
3.11	-
1.13	-

Total Transmission Plant Depreciation

Total Transmission Depreciation Expense (must tie to p336.7.b & c) -

GENERAL PLANT

390	Structures & Improvements
391	Office Furniture & Equipment
	Information Systems
	Data Handling
392	Transportation Equipment
	Other
	Autos
	Light Trucks
	Medium Trucks
	Trailers
	ATV
393	Stores Equipment
394	Tools, Shop & Garage Equipment
395	Laboratory Equipment
396	Power Operated Equipment
397	Communication Equipment
398	Miscellaneous Equipment

Accrual Rate
(Annual)
Percent

Annual
Depreciation
Expense

2.00	-
5.00	-
10.00	-
10.00	-
5.33	-
11.43	-
6.96	-
6.96	-
4.44	-
5.33	-
5.00	-
5.00	-
5.00	-
4.17	-
6.67	-
6.67	-

Total General Plant

Total General Plant Depreciation Expense (must tie to p336.10.b & c) -

INTANGIBLE PLANT

303	Miscellaneous Intangible Plant
------------	--------------------------------

Accrual Rate
(Annual) Percent

Annual
Depreciation
Expense

20.00	-
-------	---

Total Intangible Plant

Total Intangible Plant Amortization (must tie to p336.1 d & e) -

These depreciation rates will not change absent the appropriate filing at FERC.

Potomac-Appalachian Transmission Highline, LLC
Attachment 10 - Depreciation Accrual Rates
Applicable to PATH Allegheny Transmission Company, LLC

TRANSMISSION PLANT

		Accrual Rate (Annual) Percent	Annual Depreciation Expense
350.2	Land & Land Rights - Easements	1.43	-
352	Structures & Improvements	1.82	-
353	Station Equipment		
	Other	2.43	-
	SVC Dynamic Control Equipment	4.09	-
354	Towers & Fixtures	1.26	-
355	Poles & Fixtures	3.11	-
356	Overhead Conductors & Devices	1.13	-
Total Transmission Plant Depreciation			-
Total Transmission Depreciation Expense (must tie to p336.7.b & c)			-

GENERAL PLANT

		Accrual Rate (Annual) Percent	Annual Depreciation Expense
390	Structures & Improvements	2.00	-
391	Office Furniture & Equipment	5.00	-
	Information Systems	10.00	-
	Data Handling	10.00	-
392	Transportation Equipment		
	Other	5.33	-
	Autos	11.43	-
	Light Trucks	6.96	-
	Medium Trucks	6.96	-
	Trailers	4.44	-
	ATV	5.33	-
393	Stores Equipment	5.00	-
394	Tools, Shop & Garage Equipment	5.00	-
395	Laboratory Equipment	5.00	-
396	Power Operated Equipment	4.17	-
397	Communication Equipment	6.67	-
398	Miscellaneous Equipment	6.67	-
Total General Plant			-
Total General Plant Depreciation Expense (must tie to p336.10.b.c.d&e)			-

INTANGIBLE PLANT

		Accrual Rate (Annual) Percent	Annual Depreciation Expense
303	Miscellaneous Intangible Plant	20.00	-
Total Intangible Plant			-
Total Intangible Plant Amortization (must tie to p336.1 d & e)			-

These depreciation rates will not change absent the appropriate filing at FERC.

Attachment 12

MAIT Formula Rate for January 1, 2021 to December 31, 2021

October 5, 2020

To: Parties to FERC Docket No. ER17-211

**Re: Mid-Atlantic Interstate Transmission, LLC
PJM Open Access Transmission Tariff, Attachment H-28
Projected Transmission Revenue Requirement for Rate Year 2021**

Pursuant to section II.D of the Formula Rate Implementation Protocols (“Protocols”) set forth in Attachment H-28B of the PJM Open Access Transmission Tariff (“PJM OATT”),¹ Mid-Atlantic Interstate Transmission, LLC (“MAIT”) is submitting its Projected Transmission Revenue Requirement (“PTRR”) for Rate Year 2021 to PJM for posting.

The 2021 PTRR was developed pursuant to the MAIT formula rate as set forth in Attachment H-28 of the PJM OATT. MAIT has asked PJM to post a copy of the 2021 PTRR to the formula rates section of its internet site, located at:

<http://www.pjm.com/markets-and-operations/billing-settlements-and-credit/formula-rates.aspx>

A copy of the 2021 PTRR is attached. Pursuant to section II.I of the Protocols, MAIT shall hold an open meeting among Interested Parties (“Annual Projected Rate Meeting”) no earlier than ten (10) business days following this posting and no later than November 30. No fewer than seven (7) days prior to such Annual Projected Rate Meeting, MAIT shall provide notice on PJM’s website of the time, date, and webcast registration information of the Annual Projected Rate Meeting.

Formula Rate - Non-Levelized

Rate Formula Template
Utilizing FERC Form 1 Data

For the 12 months ended 12/31/2021

Mid-Atlantic Interstate Transmission, LLC
(3)

(4)

(5)

Line
No.

(1)

(2)

Allocated
Amount

1 GROSS REVENUE REQUIREMENT [page 3, line 43, col 5]

\$ 298,419,600

REVENUE CREDITS

(Note T)

Total

Allocator

2 Account No. 451 (page 4, line 29)

-

TP 1.00000

-

3 Account No. 454 (page 4, line 30)

3,761,088

TP 1.00000

3,761,088

4 Account No. 456 (page 4, line 31)

1,988,973

TP 1.00000

1,988,973

5 Revenues from Grandfathered Interzonal Transactions

-

TP 1.00000

-

6 Revenues from service provided by the ISO at a discount

-

TP 1.00000

-

7 TEC Revenue Attachment 11, Page 2, Line 3, Col. 12

15,875,070

TP 1.00000

15,875,070

8 TOTAL REVENUE CREDITS (sum lines 2-7)

21,625,131

21,625,131

9 True-up Adjustment with Interest Attachment 13, Line 28

18,340,647

10 NET REVENUE REQUIREMENT (Line 1 - Line 8 + Line 9)

\$ 295,135,116

DIVISOR

Total

11 1 Coincident Peak (CP) (MW)

(Note A)

5,887.6

12 Average 12 CPs (MW)

(Note CC)

5,021.7

13 Annual Rate (\$/MW/Yr) (line 10 / line 11)

Total

50,128.46

Peak Rate

Off-Peak Rate

Total

Total

14 Point-to-Point Rate (\$/MW/Year) (line 10 / line 12)

58,771.90

58,771.90

15 Point-to-Point Rate (\$/MW/Month) (line 14/12)

4,897.66

4,897.66

16 Point-to-Point Rate (\$/MW/Week) (line 14/52)

1,130.23

1,130.23

17 Point-to-Point Rate (\$/MW/Day) (line 16/5; line 16/7)

226.05

161.46

18 Point-to-Point Rate (\$/MWh) (line 14/4,160; line 14/8,760)

14.13

6.71

Formula Rate - Non-Levelized

Rate Formula Template
Utilizing FERC Form 1 Data

For the 12 months ended 12/31/2021

		(1)	(2)	Mid-Atlantic Interstate Transmission, LLC		(3)	(4)	(5)
Line No.			Source	Company Total	Allocator			Transmission (Col 3 times Col 4)
RATE BASE:								
GROSS PLANT IN SERVICE								
1	Production		Attachment 3, Line 14, Col. 1 (Notes U & X)	-	NA			
2	Transmission		Attachment 3, Line 14, Col. 2 (Notes U & X)	2,183,933,069	TP	1.00000		2,183,933,069
3	Distribution		Attachment 3, Line 14, Col. 3 (Notes U & X)	-	NA			
4	General & Intangible		Attachment 3, Line 14, Col. 4 & 5 (Notes U & X)	123,797,765	W/S	1.00000		123,797,765
5	Common		Attachment 3, Line 14, Col. 6 (Notes U & X)	-	CE	1.00000		-
6	TOTAL GROSS PLANT (sum lines 1-5)			2,307,730,834	GP=	100.000%		2,307,730,834
ACCUMULATED DEPRECIATION								
7	Production		Attachment 4, Line 14, Col. 1 (Notes U & X)	-	NA			
8	Transmission		Attachment 4, Line 14, Col. 2 (Notes U & X)	339,210,222	TP	1.00000		339,210,222
9	Distribution		Attachment 4, Line 14, Col. 3 (Notes U & X)	-	NA			
10	General & Intangible		Attachment 4, Line 14, Col. 4 & 5 (Notes U & X)	19,229,622	W/S	1.00000		19,229,622
11	Common		Attachment 4, Line 14, Col. 6 (Notes U & X)	-	CE	1.00000		-
12	TOTAL ACCUM. DEPRECIATION (sum lines 7-11)			358,439,843				358,439,843
NET PLANT IN SERVICE								
13	Production	(line 1- line 7)		-				
14	Transmission	(line 2- line 8)		1,844,722,848				1,844,722,848
15	Distribution	(line 3 - line 9)		-				
16	General & Intangible	(line 4 - line 10)		104,568,143				104,568,143
17	Common	(line 5 - line 11)		-				-
18	TOTAL NET PLANT (sum lines 13-17)			1,949,290,991	NP=	100.000%		1,949,290,991
ADJUSTMENTS TO RATE BASE								
19	Account No. 281 (enter negative)		Attachment 5, Line 3, Col. 1 (Notes F & Y & DD)	-	NA			
20	Account No. 282 (enter negative)		Attachment 5, Line 3, Col. 2 (Notes F & Y & DD)	(349,264,588)	NP	1.00000		(349,264,588)
21	Account No. 283 (enter negative)		Attachment 5, Line 3, Col. 3 (Notes F & Y & DD)	(6,537,754)	NP	1.00000		(6,537,754)
22	Account No. 190		Attachment 5, Line 3, Col. 4 (Notes F & Y & DD)	11,551,830	NP	1.00000		11,551,830
23	Account No. 255 (enter negative)		Attachment 5, Line 3, Col. 5 (Notes F & Y & DD)	-	NP	1.00000		-
24	Unfunded Reserve Plant-related (enter negative)		Attachment 14, Line 9, Col. G (Note Y)	-	DA	1.00000		-
25	Unfunded Reserve Labor-related (enter negative)		Attachment 14, Line 10, Col. G (Note Y)	-	DA	1.00000		-
26	CWIP	216.b (Notes X & Z)		-	DA	1.00000		-
27	Unamortized Regulatory Asset		Attachment 16a, 16b, 16c, line 15, Col. 7 (Notes X)	2,090,365	DA	1.00000		2,090,365
28	Unamortized Abandoned Plant		Attachment 17, Line 15, Col. 7 (Notes X & BB)	-	DA	1.00000		-
29	TOTAL ADJUSTMENTS (sum lines 19-28)			(342,160,147)				(342,160,147)
30	LAND HELD FOR FUTURE USE	214.x.d (Attachment 14, Line 1, Col. D) (Notes G & Y)		-	TP	1.00000		-
31	WORKING CAPITAL (Note H)							
32	CWC	1/8*(Page 3, Line 15 minus Page 3, Lines 11 & 12)		9,926,298				9,652,507
33	Materials & Supplies (Note G)	227.8.c & .16.c (Attachment 14, Line 2, Col. D) (Note Y)		-	TE	0.97293		-
34	Prepayments (Account 165)	111.57.c (Attachment 14, Line 3, Col. D) (Notes B & Y)		814,129	GP	1.00000		814,129
35	TOTAL WORKING CAPITAL (sum lines 32 - 34)			10,740,427				10,466,636
36	RATE BASE (sum lines 18, 29, 30, & 35)			1,617,871,271				1,617,597,480

Formula Rate - Non-Levelized

Rate Formula Template
Utilizing FERC Form 1 Data

For the 12 months ended 12/31/2021

Mid-Atlantic Interstate Transmission, LLC						
	(1)	(2)	(3)	(4)	(5)	
Line No.		Source	Company Total	Allocator	Transmission (Col 3 times Col 4)	
O&M						
1	Transmission	321.112.b (Attachment 20, page 1, line 112)	80,911,750	TE	0.97293	78,721,421
2	Less LSE Expenses Included in Transmission O&M Accounts (Note W)		-	DA	1.00000	-
3	Less Account 565	321.96.b	-	DA	1.00000	-
4	Less Account 566	321.97.b	9,466,866	DA	1.00000	9,466,866
5	A&G	323.197.b (Attachment 20, page 2, line 197)	(694,692)	W/S	1.00000	(694,692)
6	Less FERC Annual Fees		-	W/S	1.00000	-
7	Less EPRI & Reg. Comm. Exp. & Non-safety Ad. (Note I)		170,000	W/S	1.00000	170,000
8	Plus Transmission Related Reg. Comm. Exp. (Note I)		-	TE	0.97293	-
9	PBOP Expense Adjustment in Year	Attachment 6, Line 9	(636,671)	DA	1.00000	(636,671)
10	Common	356.1	-	CE	1.00000	-
11	Account 407.3 Amortization of Regulatory Assets	Attachment 16a, 16b, 16c, Line 15, Col. 5	597,247	DA	1.00000	597,247
12	Account 566 Amortization of Regulatory Assets	321.97.b (notes)	-	DA	1.00000	-
13	Acct. 566 Miscellaneous Transmission Expense (less amortization of regulatory asset)	321.97.b - line 12	9,466,866	DA	1.00000	9,466,866
14	Total Account 566 (sum lines 12 & 13, ties to 321.97.b)		9,466,866			9,466,866
15	TOTAL O&M (sum lines 1, 5, 8, 9, 10, 11, 14 less 2, 3, 4, 6, 7)		80,007,634			77,817,305
DEPRECIATION AND AMORTIZATION EXPENSE						
16	Transmission	336.7.b (Note U)	48,511,855	TP	1.00000	48,511,855
17	General & Intangible	336.1.f & 336.10.f (Note U)	6,730,846	W/S	1.00000	6,730,846
18	Common	336.11.b (Note U)	-	CE	1.00000	-
19	Amortization of Abandoned Plant	Attachment 17, Line 15, Col. 5 (Note BB)	-	DA	1.00000	-
20	TOTAL DEPRECIATION (sum lines 16 - 19)		55,242,701			55,242,701
TAXES OTHER THAN INCOME TAXES (Note J)						
LABOR RELATED						
21	Payroll	263.i (Attachment 7, line 1z)	497,061	W/S	1.00000	497,061
22	Highway and vehicle	263.i (Attachment 7, line 2z)	-	W/S	1.00000	-
PLANT RELATED						
24	Property	263.i (Attachment 7, line 3z)	108,828	GP	1.00000	108,828
25	Gross Receipts	263.i (Attachment 7, line 4z)	-	NA		-
26	Other	263.i (Attachment 7, line 5z)	-	GP	1.00000	-
27	Payments in lieu of taxes	Attachment 7, line 6z	-	GP	1.00000	-
28	TOTAL OTHER TAXES (sum lines 21 - 27)		605,889			605,889
INCOME TAXES (Note K)						
29	$T = 1 - \{[(1 - \text{SIT}) * (1 - \text{FIT})] / (1 - \text{SIT} * \text{FIT} * p)\} =$		28.89%			
30	$\text{CIT} = (T / (1 - T)) * (1 - (\text{WCLTD} / \text{R})) =$		32.32%			
	where WCLTD = (page 4, line 22) and R = (page 4, line 25)					
	and FIT, SIT & p are as given in footnote K.					
31	$1 / (1 - T) =$ (from line 29)		1.4063			
32	Amortized Investment Tax Credit (266.8.f) (enter negative)		(99,685)			
33	Tax Effect of Permanent Differences and AFUDC Equity (Attachment 15, Line 1, Col. 3) [Notes D & Y]		386,605			
34	(Excess)/Deficient Deferred Income Taxes (Attachment 15, Lines 2 & 3, Col. 3) [Notes E & Y]		(1,100,219)			
35	Income Tax Calculation = line 30 * line 40		40,527,186	NA		40,520,328
36	ITC adjustment (line 31 * line 32)		(140,188)	NP	1.00000	(140,188)
37	Permanent Differences and AFUDC Equity Tax Adjustment (line 31 * line 33)		543,688	DA	1.00000	543,688
38	(Excess)/Deficient Deferred Income Tax Adjustment (line 31 * line 34)		(1,547,253)	DA	1.00000	(1,547,253)
39	Total Income Taxes	sum lines 35 through 38	39,383,433			39,376,574
40	RETURN	[Rate Base (page 2, line 36) * Rate of Return (page 4, line 25)]	125,398,351.21	NA		125,377,130
GROSS REV. REQUIREMENT (WITHOUT INCENTIVE)						
41	INCENTIVE)	(sum lines 15, 20, 28, 39, 40)	300,638,008			298,419,600
42	ADDITIONAL INCENTIVE REVENUE	Attachment 11, page 2, line 4, col 11 (Note AA)	0			0
43	GROSS REV. REQUIREMENT	(line 41 + line 42)	300,638,008			298,419,600

Formula Rate - Non-Levelized

Rate Formula Template
Utilizing FERC Form 1 Data

For the 12 months ended 12/31/2021

Mid-Atlantic Interstate Transmission, LLC

SUPPORTING CALCULATIONS AND NOTES									
Line No.	(1)		(2)	(3)	(4)	(5)	(6)		
TRANSMISSION PLANT INCLUDED IN ISO RATES									
1	Total transmission plant (page 2, line 2, column 3)						2,183,933,069		
2	Less transmission plant excluded from ISO rates (Note M)						-		
3	Less transmission plant included in OATT Ancillary Services (Note N)						-		
4	Transmission plant included in ISO rates (line 1 less lines 2 & 3)						2,183,933,069		
5	Percentage of transmission plant included in ISO Rates (line 4 divided by line 1)					TP=	1.00000		
TRANSMISSION EXPENSES									
6	Total transmission expenses (page 3, line 1, column 3)						80,911,750		
7	Less transmission expenses included in OATT Ancillary Services (Note L)						2,190,328		
8	Included transmission expenses (line 6 less line 7)						78,721,421		
9	Percentage of transmission expenses after adjustment (line 8 divided by line 6)						0.97293		
10	Percentage of transmission plant included in ISO Rates (line 5)					TP	1.00000		
11	Percentage of transmission expenses included in ISO Rates (line 9 times line 10)					TE=	0.97293		
WAGES & SALARY ALLOCATOR (W&S)									
		Form 1 Reference	\$		TP		Allocation		
12	Production	354.20.b	-	0.00			-		
13	Transmission	354.21.b	-	1.00			-		
14	Distribution	354.23.b	-	0.00			-	W&S Allocator	
15	Other	354.24,25,26.b	-	0.00			-	(\$ / Allocation)	
16	Total (sum lines 12-15)		-				-	=	1.00000 = WS
COMMON PLANT ALLOCATOR (CE) (Note O)									
			\$				% Electric	W&S Allocator	
17	Electric	200.3.c	-				(line 17 / line 20)	(line 16)	CE
18	Gas	201.3.d	-				1.00000 *	1.00000	=
19	Water	201.3.e	-						1.00000
20	Total (sum lines 17 - 19)		-						
RETURN (R)									
							\$		
21	Preferred Dividends (118.29c) (positive number)						-		
			\$	(Note C)		Cost	Weighted		
				%		(Note P)			
22	Long Term Debt (112.24.c) (Attachment 8, Line 14, Col. 7) (Note X)		769,153,561	40%		0.0395	0.0159	=WCLTD	
23	Preferred Stock (112.3d) (Attachment 8, Line 14, Col. 2) (Note X)		-	0%		0.0000	0.0000		
24	Common Stock (Attachment 8, Line 14, Col. 6) (Note X)		1,146,808,573	60%		0.1030	0.0617		
25	Total (sum lines 22-24)		1,915,962,135				0.0775	=R	
REVENUE CREDITS									
ACCOUNT 447 (SALES FOR RESALE)									
26	a. Bundled Non-RQ Sales for Resale (311.x.h)	(310-311)	(Note Q)				-		
27	b. Bundled Sales for Resale included in Divisor on page 1						-		
28	Total of (a)-(b)						-		
29	ACCOUNT 451 (MISCELLANEOUS SERVICE REVENUE) (Note S)				(300.17.b) (Attachment 21, line 1z)		-		
30	ACCOUNT 454 (RENT FROM ELECTRIC PROPERTY) (Note R)				(300.19.b) (Attachment 21, line 2z)		3,761,088		
31	ACCOUNT 456 (OTHER ELECTRIC REVENUE) (Note V)				(330.x.n) (Attachment 21, line 3z)		1,988,973		

Formula Rate - Non-Levelized

Rate Formula Template
Utilizing FERC Form 1 Data

For the 12 months ended 12/31/2021

Mid-Atlantic Interstate Transmission, LLC

General Note: References to pages in this formulary rate are indicated as: (page#, line#, col.)

References to data from FERC Form 1 are indicated as: #.y.x (page, line, column)

Note

Letter

- A As provided by PJM and in effect at the time of the annual rate calculations pursuant to Section 34.1 of the PJM OATT. Includes combined CPs for Met-Ed and Penelec zones.
- B Prepayments shall exclude prepayments of income taxes.
- C In its order approving the transfer of Penelec's and Met-Ed's transmission assets to MAIT, the Commission approved MAIT's commitment to apply a 50 percent equity/50 percent debt capital structure for ratemaking purposes for a two-year transition period. Pennsylvania Electric, 154 FERC ¶ 61,109 at P 51. Consequently, for the first two years (i.e., calendar years 2017 and 2018) the hypothetical capital structure will be used instead of the actual calculation. Per the Settlement Agreement in docket number ER17-211-000, beginning in calendar year 2019, the equity component of MAIT's capital structure to be used in calculating charges under the formula rate shall be the lower of (i) MAIT's actual equity component as calculated in accordance with Attachment 8 or (ii) 60%.
- D Includes the annual income tax cost or benefits due to permanent differences or differences between the amounts of expenses or revenues recognized in one period for ratemaking purposes and the amounts recognized for income tax purposes which do not reverse in one or more other periods, including the cost of income taxes on the Allowance for Other Funds Used During Construction.
- E Upon enactment of changes in tax law, income tax rates (including changes in apportionment) and other actions taken by a taxing authority, deferred taxes are re-measured and adjusted in the Company's books of account, resulting in excess or deficient accumulated deferred taxes. Such excess or deficient deferred taxes attributed to the transmission function will be based upon tax records and calculated in the calendar year in which the excess or deficient amount was measured and recorded for financial reporting purposes. Amounts to be included will be January 1, 2017 and thereafter.
- F The balances in Accounts 190, 281, 282 and 283, should exclude all FASB 106 or 109 related amounts. For example, any and all amounts in contra accounts identified as regulatory assets or liabilities related to FASB 106 or 109 should be excluded. The balance of Account 255 is reduced by prior flow throughs and excluded if the utility chose to utilize amortization of tax credits against taxable income as discussed in Note K. Account 281 is not allocated.
- G Identified in Form 1 as being only transmission related.
- H Cash Working Capital assigned to transmission is one-eighth of O&M allocated to transmission at page 3, line 15, column 5 minus amortization of regulatory assets (page 3, lines 11 & 12, col. 5). Prepayments are the electric related prepayments booked to Account No. 165 and reported on Page 111, line 57 in the Form 1.
- I Line 7 - EPRI Annual Membership Dues listed in Form 1 at 353.f, all Regulatory Commission Expenses itemized at 351.h, and non-safety related advertising included in Account 930.1. Line 8 - Regulatory Commission Expenses directly related to transmission service, ISO filings, or transmission siting itemized at 351.h.
- J Includes only FICA, unemployment, highway, property, gross receipts, and other assessments charged in the current year. Taxes related to income are excluded. Gross receipts taxes are not included in transmission revenue requirement in the Rate Formula Template, since they are recovered elsewhere.
- K The currently effective income tax rate, where FIT is the Federal income tax rate; SIT is the State income tax rate, and p = "the percentage of federal income tax deductible for state income taxes". If the utility is taxed in more than one state it must attach a work paper showing the name of each state and how the blended or composite SIT was developed. Furthermore, a utility that elected to utilize amortization of tax credits against taxable income, rather than book tax credits to Account No. 255 and reduce rate base, must reduce its income tax expense by the amount of the Amortized Investment Tax Credit (Form 1, 266.8.f) multiplied by (1/1-T) (page 3, line 31).
- | | | |
|--------|-------|---|
| Inputs | FIT = | 21.00% |
| | SIT = | 9.99% (State Income Tax Rate or Composite SIT) |
| | p = | (percent of federal income tax deductible for state purposes) |
- L Removes dollar amount of transmission expenses included in the OATT ancillary services rates, including Account Nos. 561.1 - 561.3, and 561.BA., and related to generation step-up facilities, which are deemed included in OATT ancillary services. For these purposes, generation step-up facilities are those facilities at a generator substation on which there is no through-flow when the generator is shut down.
- M Removes transmission plant determined by Commission order to be state-jurisdictional according to the seven-factor test (until Form 1 balances are adjusted to reflect application of seven-factor test).
- N Removes dollar amount of transmission plant included in the development of OATT ancillary services rates and generation step-up facilities, which are deemed included in OATT ancillary services. For these purposes, generation step-up facilities are those facilities at a generator substation on which there is no through-flow when the generator is shut down.
- O Enter dollar amounts
- P Debt cost rate will be set at 4.5% until such time as debt is issued by MAIT. Once debt is issued, the long-term debt cost rate will be the weighted average of the rates for all outstanding debt instruments, calculated within Attachment 10, col. j. Consistent with Note C, there will be no preferred stock cost, consistent with MAIT's commitment to use a hypothetical 50%/50% capital structure until calendar year 2019. Thereafter, Preferred cost rate = preferred dividends (line 21) / preferred outstanding (line 23). No change in ROE may be made absent a filing with FERC under Section 205 or Section 206 of the Federal Power Act. Per the Settlement Agreement in Docket No. ER17-211-000, MAIT's stated ROE is set to 10.30% (9.8% base ROE plus 50 basis point adder for RTO participation).
- Q Line 28 must equal zero since all short-term power sales must be unbundled and the transmission component reflected in Account No. 456.1 and all other uses are to be included in the divisor.
- R Includes income related only to transmission facilities, such as pole attachments, rentals and special use.
- S Excludes revenues unrelated to transmission services.
- T The revenues credited on page 1, lines 2-6 shall include only the amounts received directly (in the case of grandfathered agreements) or from the ISO (for service under this tariff) reflecting the Transmission Owner's integrated transmission facilities. They do not include revenues associated with FERC annual charges, gross receipts taxes, ancillary services, or facilities not included in this template (e.g., direct assignment facilities and GSUs) which are not recovered under this Rate Formula Template. The revenue on line 7 is supported by its own reference.
- U Plant in Service, Accumulated Depreciation, and Depreciation Expense amounts exclude Asset Retirement Obligation amounts unless authorized by FERC.
- V On Page 4, Line 31, enter revenues from RTO settlements that are associated with NITS and firm Point-to-Point Service for which the load is not included in the divisor to derive Met-Ed's and Penelec's zonal rates. Exclude non-firm Point-to-Point revenues and revenues related to RTEP projects.
- W Account Nos. 561.4, 561.8, and 575.7 consist of RTO expenses billed to load-serving entities and are not included in Transmission Owner revenue requirements.
- X Calculate using a 13 month average balance.
- Y Calculate using average of beginning and end of year balance.
- Z Includes only CWIP authorized by the Commission for inclusion in rate base.
- AA Any actual ROE incentive must be approved by the Commission; therefore, line will remain zero until a project(s) is granted an ROE incentive adder.
- BB Unamortized Abandoned Plant and Amortization of Abandoned Plant will be zero until the Commission accepts or approves recovery of the cost of abandoned plant. Utility must submit a Section 205 filing to recover the cost of abandoned plant.
- CC Peak as would be reported on page 401, column d of Form 1 at the time of Met-Ed's and Penelec's zonal peak for the twelve month period ending October 31 of the calendar year used to calculate rates. The projection year will utilize the most recent preceding 12-month period at the time of the filing.
- DD Includes transmission-related balance only.

Schedule 1A Rate Calculation

1	\$	2,190,328	Attachment H-28A, Page 4, Line 7
2		121,975	Revenue Credits for Sched 1A - Note A
3	\$	2,068,353	Net Schedule 1A Expenses (Line 1 - Line 2)
4		32,345,240	Annual MWh in Met-Ed and Penelec Zones - Note B
5	\$	0.0639	Schedule 1A rate \$/MWh (Line 3/ Line 4)

Note:

- A Revenues received pursuant to PJM Schedule 1A revenue allocation procedures for transmission service outside of Met-Ed's and Penelec's zones during the year used to calculate rates under Attachment H-28A.
- B Load expressed in MWh consistent with load used for billing under Schedule 1A for the Met-Ed and Penelec zones. Data from RTO settlement systems for the calendar year prior to the rate year.

Incentive ROE Calculation

Return Calculation

		Source Reference	
1	Rate Base	Attachment H-28A, page 2, Line 36, Col. 5	1,617,597,480
2	Preferred Dividends	enter positive	0
	Common Stock		
3	Proprietary Capital	Attachment 8, Line 14, Col. 1	1,370,400,543
4	Less Preferred Stock	Attachment 8, Line 14, Col. 2	0
5	Less Accumulated Other Comprehensive Income Account 219	Attachment 8, Line 14, Col. 4	0
6	Less Account 216.1 & Goodwill	Attachment 8, Line 14, Col. 3 & 5	223,591,970
7	Common Stock	Attachment 8, Line 14, Col. 6	1,146,808,573
	Capitalization		
8	Long Term Debt	Attachment H-28A, page 4, Line 22, Col. 3	769,153,561
9	Preferred Stock	Attachment H-28A, page 4, Line 23, Col. 3	0
10	Common Stock	Attachment H-28A, page 4, Line 24, Col. 3	1,146,808,573
11	Total Capitalization	Attachment H-28A, page 4, Line 25, Col. 3	1,915,962,135
12	Debt %	Total Long Term Debt	40.1445%
13	Preferred %	Preferred Stock	0.0000%
14	Common %	Common Stock	59.8555%
15	Debt Cost	Total Long Term Debt	0.0395
16	Preferred Cost	Preferred Stock	0.0000
17	Common Cost	Common Stock	10.30% 0.1030
18	Weighted Cost of Debt	Total Long Term Debt (WCLTD)	(Line 12 * Line 15) 0.0159
19	Weighted Cost of Preferred	Preferred Stock	(Line 13 * Line 16) 0.0000
20	Weighted Cost of Common	Common Stock	(Line 14 * Line 17) 0.0617
21	Rate of Return on Rate Base (ROR)	(Sum Lines 18 to 20)	0.0775
22	Investment Return = Rate Base * Rate of Return	(Line 1 * Line 21)	125,377,130

Income Taxes

	Income Tax Rates		
23	$T = 1 - \{[(1 - \text{SIT}) * (1 - \text{FIT})] / (1 - \text{SIT} * \text{FIT} * p)\}$	Attachment H-28A, page 3, Line 29, Col. 3	28.89%
24	$\text{CIT} = (T / 1 - T) * (1 - \text{WCLTD} / \text{R})$	Calculated	32.32%
25	$1 / (1 - T) =$ (from line 23)	Attachment H-28A, page 3, Line 31, Col.3	1.4063
26	Amortized Investment Tax Credit (266.8.f) (enter negative)	Attachment H-28A, page 3, Line 32, Col. 3	(99,685.00)
27	Tax Effect of Permanent Differences and AFUDC Equity	Attachment H-28A, page 3, Line 33, Col. 3	386,605.35
28	(Excess)/Deficient Deferred Income Taxes	Attachment H-28A, page 3, Line 34, Col. 3	(1,100,219.47)
29	Income Tax Calculation	(line 22 * line 24)	40,520,327.98
30	ITC adjustment	(line 25 * line 26)	(140,188.36)
31	Permanent Differences and AFUDC Equity Tax Adjustment	Attachment H-28A, page 3, Line 37, Col. 3	543,688.32
32	(Excess)/Deficient Deferred Income Tax Adjustment	Attachment H-28A, page 3, Line 38, Col. 3	(1,547,253.50)
33	Total Income Taxes	Sum lines 29 to 32	39,376,574.45

Increased Return and Taxes

34	Return and Income taxes with increase in ROE	(Line 22 + Line 33)	164,753,704.60
35	Return without incentive adder	Attachment H-28A, Page 3, Line 40, Col. 5	125,377,130.15
36	Income Tax without incentive adder	Attachment H-28A, Page 3, Line 39, Col. 5	39,376,574.45
37	Return and Income taxes <u>without</u> increase in ROE	Line 35 + Line 36	164,753,704.60
38	Return and Income taxes with increase in ROE	Line 34	164,753,704.60
39	Incremental Return and incomes taxes for increase in ROE	Line 38 - Line 37	-
40	Rate Base	Line 1	1,617,597,480.21
41	Incremental Return and incomes taxes for increase in ROE divided by rate base	Line 39 / Line 40	-

Notes:
Line 17 to include an incentive ROE that is used only to determine the increase in return and incomes taxes associated with a specific increase in ROE. Any actual ROE incentive must be approved by the Commission. Until an ROE incentive is approved, line 17 will reflect the current ROE.

Gross Plant Calculation

For the 12 months ended 12/31/2021

		[1]	[2]	[3]	[4]	[5]	[6]	[7]	
		Production	Transmission	Distribution	Intangible	General	Common	Total	
1	December	2020	-	2,062,205,506	-	46,570,986	67,982,676	-	2,176,759,168
2	January	2021	-	2,068,647,681	-	46,804,550	67,998,804	-	2,183,451,035
3	February	2021	-	2,071,758,532	-	47,051,707	67,999,379	-	2,186,809,617
4	March	2021	-	2,080,875,601	-	47,345,132	67,999,426	-	2,196,220,158
5	April	2021	-	2,087,694,697	-	48,031,412	67,999,424	-	2,203,725,533
6	May	2021	-	2,134,978,979	-	48,261,966	67,999,421	-	2,251,240,365
7	June	2021	-	2,181,819,727	-	49,338,357	67,999,417	-	2,299,157,501
8	July	2021	-	2,220,371,283	-	50,434,010	68,008,037	-	2,338,813,329
9	August	2021	-	2,226,493,431	-	51,327,755	77,552,043	-	2,355,373,229
10	September	2021	-	2,249,551,677	-	51,800,349	77,552,131	-	2,378,904,157
11	October	2021	-	2,274,095,183	-	56,834,343	77,876,068	-	2,408,805,595
12	November	2021	-	2,297,530,820	-	60,865,819	77,878,066	-	2,436,274,705
13	December	2021	-	2,435,106,784	-	69,113,394	80,746,273	-	2,584,966,451
14	13-month Average	[A] [C]	-	2,183,933,069	-	51,829,214	71,968,551	-	2,307,730,834
		Production	Transmission	Distribution	Intangible	General	Common	Total	
	[B]	205.46.g	207.58.g	207.75.g	205.5.g	207.99.g	356.1		
15	December	2020	2,062,217,160		46,570,986	67,982,676		2,176,770,822	
16	January	2021	2,068,659,335		46,804,550	67,998,804		2,183,462,689	
17	February	2021	2,071,770,186		47,051,707	67,999,379		2,186,821,271	
18	March	2021	2,080,887,255		47,345,132	67,999,426		2,196,231,813	
19	April	2021	2,087,706,352		48,031,412	67,999,424		2,203,737,188	
20	May	2021	2,134,990,633		48,261,966	67,999,421		2,251,252,019	
21	June	2021	2,181,831,381		49,338,357	67,999,417		2,299,169,155	
22	July	2021	2,220,382,937		50,434,010	68,008,037		2,338,824,984	
23	August	2021	2,226,505,086		51,327,755	77,552,043		2,355,384,884	
24	September	2021	2,249,563,331		51,800,349	77,552,131		2,378,915,812	
25	October	2021	2,274,106,838		56,834,343	77,876,068		2,408,817,250	
26	November	2021	2,297,542,474		60,865,819	77,878,066		2,436,286,360	
27	December	2021	2,435,118,438		69,113,394	80,746,273		2,584,978,105	
28	13-month Average	-	2,183,944,724	-	51,829,214	71,968,551	-	2,307,742,489	

Asset Retirement Costs								
			Production	Transmission	Distribution	Intangible	General	Common
	[B]		205.44.g	207.57.g	207.74.g	company records	207.98.g	company records
29	December	2020		11,654				
30	January	2021		11,654				
31	February	2021		11,654				
32	March	2021		11,654				
33	April	2021		11,654				
34	May	2021		11,654				
35	June	2021		11,654				
36	July	2021		11,654				
37	August	2021		11,654				
38	September	2021		11,654				
39	October	2021		11,654				
40	November	2021		11,654				
41	December	2021		11,654				
42	13-month Average			11,654	-	-	-	-

Notes:

[A] Included on Attachment H-28A, page 2, lines 1-6, Col. 3

[B] Reference for December balances as would be reported in FERC Form 1.

[C] Balance excludes Asset Retirements Costs

[D] Met-Ed retained 34.5kV lines

Accumulated Depreciation Calculation

			[1] Production	[2] Transmission	[3] Distribution	[4] Intangible	[5] General	[6] Common	[7] Total
1	December	2020	-	339,904,096	-	6,121,117	10,563,257	-	356,588,470
2	January	2021	-	341,211,443	-	6,457,333	10,713,012	-	358,381,788
3	February	2021	-	342,009,058	-	6,790,571	10,863,866	-	359,663,495
4	March	2021	-	341,484,513	-	7,122,390	11,014,756	-	359,621,660
5	April	2021	-	340,968,070	-	7,429,220	11,165,650	-	359,562,940
6	May	2021	-	338,605,143	-	7,763,426	11,316,543	-	357,685,112
7	June	2021	-	337,222,920	-	8,044,081	11,467,437	-	356,734,438
8	July	2021	-	336,987,627	-	8,325,595	11,617,848	-	356,931,070
9	August	2021	-	338,974,845	-	8,619,174	11,234,506	-	358,828,525
10	September	2021	-	339,580,606	-	8,939,283	11,535,171	-	360,055,060
11	October	2021	-	339,631,898	-	8,967,994	11,815,410	-	360,415,301
12	November	2021	-	340,162,765	-	9,060,942	12,116,456	-	361,340,163
13	December	2021	-	332,989,895	-	8,664,549	12,255,497	-	353,909,941
14	13-month Average	[A] [C]	-	339,210,222	-	7,869,667	11,359,954	-	358,439,843.29
			Production	Transmission	Distribution	Intangible	General	Common	Total
		[B]	219.20-24.c	219.25.c	219.26.c	200.21.c	219.28.c	356.1	
15	December	2020		339,912,538		6,121,117	10,563,257		356,596,911
16	January	2021		341,219,903		6,457,333	10,713,012		358,390,249
17	February	2021		342,017,538		6,790,571	10,863,866		359,671,975
18	March	2021		341,493,012		7,122,390	11,014,756		359,630,158
19	April	2021		340,976,588		7,429,220	11,165,650		359,571,458
20	May	2021		338,613,679		7,763,426	11,316,543		357,693,649
21	June	2021		337,231,476		8,044,081	11,467,437		356,742,993
22	July	2021		336,996,202		8,325,595	11,617,848		356,939,645
23	August	2021		338,983,439		8,619,174	11,234,506		358,837,119
24	September	2021		339,589,218		8,939,283	11,535,171		360,063,672
25	October	2021		339,640,529		8,967,994	11,815,410		360,423,932
26	November	2021		340,171,416		9,060,942	12,116,456		361,348,814
27	December	2021		332,998,565		8,664,549	12,255,497		353,918,610
28	13-month Average		-	339,218,777	-	7,869,667	11,359,954	-	358,448,399

Reserve for Depreciation of Asset Retirement Costs			Production	Transmission	Distribution	Intangible	General	Common
		[B]	Company Records					
29	December	2020		8,442				
30	January	2021		8,461				
31	February	2021		8,480				
32	March	2021		8,499				
33	April	2021		8,518				
34	May	2021		8,537				
35	June	2021		8,556				
36	July	2021		8,575				
37	August	2021		8,594				
38	September	2021		8,613				
39	October	2021		8,632				
40	November	2021		8,650				
41	December	2021		8,669				
42	13-month Average			8,556	-	-	-	-

Notes:

- [A] Included on Attachment H-28A, page 2, lines 7-11, Col. 3
[B] Reference for December balances as would be reported in FER Form 1.
[C] Balance excludes reserve for depreciation of asset retirement costs

ADIT Calculation

For the 12 months ended 12/31/2021

		[1]	[2]	[3]	[4]	[5]	[6]
ADIT Transmission Total (including Plant & Labor Related Transmission ADITs and applicable transmission adjustments from notes below)							
		Acct. No. 281 (enter negative)	Acct. No. 282 (enter negative)	Acct. No. 283 (enter negative)	Acct. No. 190	Acct. No. 255 (enter negative)	Total
			[C]	[D]	[E]	[F]	
1	December 31	2020	-	(343,148,681)	11,146,826	-	(339,645,584)
2	December 31	2021	-	(355,380,494)	11,956,834	-	(348,855,439)
3	Begin/End Average	[A]	-	(349,264,588)	11,551,830	-	(344,250,512)

		Acct. No. 281	Acct. No. 282	Acct. No. 283	Acct. No. 190	Acct. No. 255	Total
ADIT Total Transmission-related only, including Plant & Labor Related Transmission ADITs (prior to adjustments from notes below)							
		[B]	273.8.k	275.2.k	277.9.k	234.8.c	267.h
4	December 31	2020		278,769,426	(14,568,767)	17,073,746	2,130,100
5	December 31	2021		315,204,823	(18,666,223)	18,981,038	2,030,415
6	Begin/End Average		-	296,987,125	(16,617,495)	18,027,392	2,080,257
							300,477,279

Notes:

[A] Beginning/Ending Average with adjustments for FAS143, FAS106, FAS109, CIACs and normalization to populate Appendix H-28A, page 2, lines 19-23, col. 3 for accounts 281, 282, 283, 190, and 255, respectively

[B] Reference for December balances as would be reported in FERC Form 1.

[C] FERC Account No. 282 is adjusted for the following items.

	FAS 143 - ARO	FAS 106	FAS 109	CIAC	Other: [H]	Other: [H]	Normalization [G]
2020	-	(7,426,962)	(56,952,294)	-	-	-	-
2021	-	(7,255,461)	(52,538,123)	-	-	-	19,617,913

[D] FERC Account No. 283 is adjusted for the following items.

	FAS 143 - ARO	FAS 106	FAS 109	CIAC	Other: [H]	Other: [H]	Normalization [G]
2020	-	-	(22,212,496)	-	-	-	-
2021	-	-	(20,550,382)	-	-	-	(3,547,620)

[E] FERC Account No. 190 is adjusted for the following items:

	FAS 143 - ARO	FAS 106	FAS 109	CIAC	Other: [H]	Other: [H]	Normalization [G]
2020	-	-	(1,418,437)	7,345,357	-	-	-
2021	-	-	(1,135,488)	6,860,564	-	-	1,299,127

[F] See Attachment H-28A, page 5, note K; A utility that elected to utilize amortization of tax credits against taxable income, rather than book tax credits to Account No. 255 and reduce rate base, must reduce its income tax expense by the amount of the Amortized Investment Tax Credit (Form 1, 266.8.f).

[G] Taken from Attachment 5a, page 2, col. 4.

[H] Include any additional adjustments to ADIT items as may be recognized in the future to be proper for PTRR/ATRR calculation purposes.

ADIT Normalization Calculation

[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]
	2021 Quarterly Activity and Balances							
Beginning 190 (including adjustments)	Q1 Activity	Ending Q1	Q2 Activity	Ending Q2	Q3 Activity	Ending Q3	Q4 Activity	Ending Q4
11,146,826	523,332	11,670,158	560,650	12,230,807	505,089	12,735,896	520,065	13,255,961
Beginning 190 (including adjustments) 11,146,826	Pro-rated Q1 395,725		Pro-rated Q2 284,165		Pro-rated Q3 128,694		Pro-rated Q4 1,425	
Beginning 282 (including adjustments)	Q1 Activity	Ending Q1	Q2 Activity	Ending Q2	Q3 Activity	Ending Q3	Q4 Activity	Ending Q4
343,148,681	7,902,755	351,051,436	8,466,281	359,517,717	7,627,267	367,144,985	7,853,422	374,998,407
Beginning 282 (including adjustments) 343,148,681	Pro-rated Q1 5,975,782		Pro-rated Q2 4,291,129		Pro-rated Q3 1,943,386		Pro-rated Q4 21,516	
Beginning 283 (including adjustments)	Q1 Activity	Ending Q1	Q2 Activity	Ending Q2	Q3 Activity	Ending Q3	Q4 Activity	Ending Q4
7,643,729	(1,429,101)	6,214,628	(1,531,006)	4,683,622	(1,379,283)	3,304,339	(1,420,180)	1,884,160
Beginning 283 (including adjustments) 7,643,729	Pro-rated Q1 (1,080,635)		Pro-rated Q2 (775,990)		Pro-rated Q3 (351,434)		Pro-rated Q4 (3,891)	

ADIT Normalization Calculation

		[1]	[2]	[3]	[4]	[5]
		FERC Form 1 - Year- End (sourced from Attachment 5, page 1, line 5)	Prorated year- end less FERC Form 1 Year- end	Sum of FAS143, FAS106, FAS109, CIAC and Other from Attachment 5, page 1, notes	Total Normalization to Attachment 5 (col. 2 - col. 3)	Ending Balance for formula rate (col. 1 - col. 3. - col. 4)
	2021 Activity					
<hr/>						
<hr/>						
Pro-rated Total	Pro-rated Ending 190					
810,009	11,956,834	18,981,038	7,024,203	5,725,077	1,299,127	11,956,834
<hr/>						
<hr/>						
Pro-rated Total	Pro-rated Ending 282					
12,231,813	355,380,494	315,204,823	(40,175,671)	(59,793,584)	19,617,913	355,380,494
<hr/>						
<hr/>						
Pro-rated Total	Pro-rated Ending 283					
(2,211,949)	5,431,780	(18,666,223)	(24,098,002)	(20,550,382)	(3,547,620)	5,431,780

ADIT Detail

For the 12 months ended 12/31/2021

<u>COLUMN A</u>	<u>COLUMN B</u>	<u>COLUMN C</u>	<u>COLUMN D</u>
	BALANCE AS <u>OF 12-31-20</u>	BALANCE AS <u>OF 12-31-21</u>	AVERAGE BALANCE
ACCOUNT 255:			
Investment Tax Credit	2,130,100	2,030,415	2,080,257
1 TOTAL ACCOUNT 255	<u>2,130,100</u>	<u>2,030,415</u>	
ACCOUNT 282:			
263A Capitalized Overheads	21,350,731	20,661,052	21,005,891
Accelarated Depreciation	256,236,838	281,214,630	268,725,734
AFUDC	4,544,959	5,571,968	5,058,464
AFUDC Equity	10,781,427	14,655,780	12,718,603
Capitalized Benefits	5,209,325	5,099,404	5,154,364
Capitalized Tree Trimming	6,962,212	7,106,092	7,034,152
Casualty Loss	177,792	(483,394)	(152,801)
OPEBs	(7,426,962)	(7,255,461)	(7,341,211)
Other	(3,790,848)	(3,892,797)	(3,841,822)
Repairs	52,457,672	59,721,452	56,089,562
FAS109 Related to Property	(67,733,720)	(67,193,903)	(67,463,812)
2 TOTAL ACCOUNT 282	<u>278,769,426</u>	<u>315,204,823</u>	

ADIT Detail

For the 12 months ended 12/31/2021

COLUMN ACOLUMN BCOLUMN CCOLUMN DBALANCE AS
OF 12-31-20BALANCE AS
OF 12-31-21AVERAGE
BALANCE

ACCOUNT 283:

AFUDC Equity Flow Thru (Gross up)	4,380,639	5,954,841	5,167,740
Property FAS109	(26,593,136)	(26,505,224)	(26,549,180)
PJM Receivable	5,607,869	0	2,803,935
Vegetation Management - FERC Adjustment	690,229	517,672	603,950
State Income Tax Deductible	1,296,960	1,296,960	1,296,960
Deferred Charge-EIB	48,670	69,528	59,099

3 TOTAL ACCOUNT 283

(14,568,767)	(18,666,223)
--------------	--------------

ADIT Detail

For the 12 months ended 12/31/2021

<u>COLUMN A</u>	<u>COLUMN B</u>	<u>COLUMN C</u>	<u>COLUMN D</u>
	BALANCE AS <u>OF 12-31-20</u>	BALANCE AS <u>OF 12-31-21</u>	AVERAGE BALANCE
ACCOUNT 190:			
Capitalized Interest	5,066,187	7,346,001	6,206,094
Contribution in Aid of Construction	7,345,357	6,860,564	7,102,961
Federal Long Term	309,218	309,218	309,218
Investment Tax Credit	865,488	824,985	845,237
PJM Payable	5,591,844	5,591,844	5,591,844
Charitable Contribution Carryforward	4,793	4,793	4,793
Lease ROU Asset & Liability	(2,247,271)	(2,172,128)	(2,209,700)
NOL Deferred Tax Asset - LT PA	2,418,881	2,173,060	2,295,970
Pension EDCP-SERP Payments	3,173	3,173	3,173
FAS109 Related to Property	(2,283,926)	(1,960,473)	(2,122,199)
4 TOTAL ACCOUNT 190	17,073,746	18,981,038	18,027,392

1 **Calculation of PBOP Expenses**

2	<u>MAIT</u>	<u>Amount</u>	<u>Source</u>
3	Total FirstEnergy PBOP expenses	(108,686,300)	FirstEnergy 2015 Actuarial Study
4	Labor dollars (FirstEnergy)	2,024,261,894	FirstEnergy 2015 Actual: Company Records
5	cost per labor dollar (line 3 / line 4)	-\$0.0537	
6	labor (labor not capitalized) current year	22,721,464	MAIT Labor: Company Records
7	PBOP Expense for current year (line 5 * line 6)	-\$1,219,957	
8	PBOP expense in Account 926 for current year	(583,286)	MAIT Account 926: Company Records
9	PBOP Adjustment for Attachment H-28A, page 3, line 9 (line 7 - line 8)	(636,671)	

10 Lines 3-4 cannot change absent a Section 205 or 206 filing approved or accepted by FERC in a separate proceeding

For the 12 months ended 12/31/2021

Taxes Other than Income Calculation

		[A]	Dec 31, 2021
1	Payroll Taxes		
1a	FICA	263.i	497,061
1b		263.i	-
1c		263.i	-
1z	Payroll Taxes Total		497,061
2	Highway and Vehicle Taxes		
2a		263.i	-
2z	Highway and Vehicle Taxes		-
3	Property Taxes		
3a	Property Tax	263.i	108,828
3b			-
3c			-
3z	Property Taxes		108,828
4	Gross Receipts Tax		
4a		263.i	-
4z	Gross Receipts Tax		-
5	Other Taxes		
5a		263.i	-
5b		263.i	-
5c			-
5z	Other Taxes		-
6z	Payments in lieu of taxes		
7	Total other than income taxes (sum lines 1z, 2z, 3z, 4z, 5z, 6z) [tie to 114.14c]		\$605,889

Notes:

[A] Reference for December balances as would be reported in FERC Form 1.

Capital Structure Calculation

For the 12 months ended 12/31/2021

		[1]	[2]	[3]	[4]	[5]	[6]	[7]	
		Proprietary	Preferred Stock	Account 216.1	Account 219	Goodwill	Common Stock	Long Term Debt	
		Capital							
		[A]	112.16.c	112.3.d	112.12.c	112.15.c	233.5.f	(1) - (2) - (3) - (4) - (5)	112.24.c
1	December	2020	1,188,006,499				223,591,970	964,414,529	699,917,176
2	January	2021	1,196,674,115				223,591,970	973,082,145	699,918,112
3	February	2021	1,205,455,999				223,591,970	981,864,029	699,919,048
4	March	2021	1,214,489,154				223,591,970	990,897,184	699,919,984
5	April	2021	1,223,676,922				223,591,970	1,000,084,952	699,920,920
6	May	2021	1,233,814,546				223,591,970	1,010,222,576	699,921,856
7	June	2021	1,494,189,709				223,591,970	1,270,597,739	699,922,792
8	July	2021	1,504,334,869				223,591,970	1,280,742,899	849,923,728
9	August	2021	1,514,099,983				223,591,970	1,290,508,013	849,924,664
10	September	2021	1,524,098,815				223,591,970	1,300,506,845	849,925,600
11	October	2021	1,534,176,229				223,591,970	1,310,584,259	849,926,536
12	November	2021	1,544,187,876				223,591,970	1,320,595,906	849,927,472
13	December	2021	1,438,002,349				223,591,970	1,214,410,379	849,928,407
14	13-month Average		1,370,400,543	-	-	-	223,591,970	1,146,808,573	769,153,561

Notes:

[A] Reference for December balances as would be reported in FERC Form 1.

Stated Value Inputs

**Formula Rate Protocols
Section VIII.A**

1. Rate of Return on Common Equity ("ROE")

MAIT's stated ROE is set to: 10.3%

2. Postretirement Benefits Other Than Pension ("PBOP")

**sometimes referred to as Other Post Employment Benefits, or "OPEB"*

Total FirstEnergy PBOP expenses	(108,686,300)
Labor dollars (FirstEnergy)	2,024,261,894

3. Depreciation Rates

FERC Account	<u>Depr %</u>
352	1.28%
353	2.05%
354	1.39%
355	2.32%
356	2.68%
356.1	1.27%
358	2.52%
359	0.87%
390.1	2.90%
390.2	1.24%
391.1	0.63%
391.2	18.82%
392	4.84%
393	0.01%
394	4.62%
395	0.00%
396	0.47%
397	1.80%
398	0.32%
303	14.29%

4. Net Plant Allocator

If the Net Plant (NP) allocator becomes anything other than 1.000 (or 100%), MAIT must make a Section 205 filing to seek approval of any new depreciation or amortization rates applicable to production and/or distribution plant accounts.

5. Land Rights

If Land Rights (Account 350) are acquired by MAIT, it must make a Section 205 filing to establish the appropriate depreciation rate.

Debt Cost Calculation

YEAR ENDED		12/31/2021													
		(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)				
				ORIGINAL ISSUANCE (table 2, col. cc)	Net Proceeds At Issuance (table 2, col. nn)	Net Amount Outstanding at t=N	Months Outstanding at t=N	Average Net Outstanding in Year* z ² (col. e + col. f)/12	Weighted Outstanding Ratio (col. g/col. g total)	Effective Cost Rate (Table 2, Col. ii)	Weighted Debt Cost at t = N (h) * (i)				
Lono Term Debt Cost at Year Er 12/31/2021		t=N	Issue Date	Maturity Date											
First Mortgage Bonds:															
(1)	4.10%, Senior Unsecured Note	5/10/2018	5/15/2028	\$ 450,000,000	\$ 445,906,699	\$ 447,563,736	12	\$ 447,563,736	58.09%	4.27%					2.45%
(2)	3.60%, Senior Unsecured Note	3/1/2020	3/1/2030	\$ 125,000,000	\$ 124,182,500	\$ 124,301,719	12	\$ 124,301,719	16.13%	3.67%					0.59%
(3)	3.70%, Senior Unsecured Note	4/1/2035	4/1/2035	\$ 125,000,000	\$ 124,182,500	\$ 124,277,875	12	\$ 124,277,875	16.13%	3.76%					0.61%
(4)	3.00%, Senior Unsecured Note - Planned	7/1/2021	7/1/2031	\$ 150,000,000	\$ 148,500,000	\$ 148,575,000	6	\$ 74,287,500	9.64%	3.12%					0.30%
Total					\$ 850,000,000	\$ 844,718,330		\$ 770,430,830	100.00%						3.95%

YEAR ENDED		12/31/2021											
	(aa)	(bb)	(cc)	(dd)	(ee)	(ff)	(gg)	(hh)	(ii)	(jj)	(kk)	(ll)	
Long Term Debt Issuances	Affiliate	Issue Date	Maturity Date	Amount Issued	(Discount) Premium at Issuance	Insurance Expense	Loss/Gain on Recaptured Debt	Less Related ADIT	Net Proceeds Ratio + col. ee + col. ff)	Net Proceeds Ratio (col. cc / col. hh)*100)	Coupon Rate	Annual Interest (col. cc * col. jj)	Effective Cost Rate (Yield to Maturity at Issuance, 1 = 0)
(1) 4.10%, Senior Unsecured Note		5/10/2018	5/15/2028	\$ 450,000,000	\$ (112,500)	\$ 3,980,801	-	xxx	\$ 445,906,699	99.0904	0.04100	\$ 18,450,000	4.21%
(2) 3.60%, Senior Unsecured Note		3/31/2020	4/1/2032	\$ 125,000,000	\$ -	\$ 817,500	-	xxx	\$ 124,182,500	99.3460	0.03600	\$ 4,500,000	3.67%
(3) 3.70%, Senior Unsecured Note		3/31/2020	4/1/2035	\$ 125,000,000	\$ -	\$ 817,500	-	xxx	\$ 124,182,500	99.3460	0.03700	\$ 4,625,000	3.76%
(4) 3.60%, Senior Unsecured Note - Planned		7/1/2021	7/1/2031	\$ 150,000,000	\$ -	\$ 1,500,000	-	-	\$ 148,500,000	99.0000	0.03600	\$ 4,500,000	3.12%
TOTALS				\$ 850,000,000	(112,500)	\$ 7,115,801	-	xxx	\$ 842,771,599			\$ 32,075,000	
* YTM at issuance calculated from an acceptable bond table or from YTM = Internal Rate of Return (IRR) calculation Effective Cost Rate of Individual Debt (YTM at Issuance) = (ll) is Cashflow C ₀ equals Net Proceeds column (gg). Semi-annual (or other) interest cashflows (C ₁ , C ₂ , etc.).													

Transmission Enhancement Charge (TEC) Worksheet
To be completed in conjunction with Attachment H-28A

(1)	(2)	(3)	(4)
Line No.	Reference	Transmission	Allocator
1	Gross Transmission Plant - Total	Attach. H-28A, p. 2, line 2, col. 5 (Note A)	\$ 2,183,933,069
2	Net Transmission Plant - Total	Attach. H-28A, p. 2, line 14, col. 5 (Note B)	\$ 1,844,722,848
3	OSM EXPENSE		
4	Total O&M Allocated to Transmission	Attach. H-28A, p. 3, line 15, col. 5	\$ 77,817,305
	Annual Allocation Factor for O&M	(line 3 divided by line 1, col. 3)	3.563173%
5	GENERAL, INTANGIBLE, AND COMMON (G, I, & C) DEPRECIATION EXPENSE		
6	Total G, I, & C depreciation expense	Attach. H-28A, p. 3, lines 17 & 18, col. 5	\$ 6,730,846
	Annual allocation factor for G, I, & C depreciation expense	(line 5 divided by line 1, col. 3)	0.308198%
7	TAXES OTHER THAN INCOME TAXES		
8	Total Other Taxes	Attach. H-28A, p. 3, line 28, col. 5	\$ 605,889
	Annual Allocation Factor for Other Taxes	(line 7 divided by line 1, col. 3)	0.027743%
9	Annual Allocation Factor for Expense	Sum of line 4, 6, & 8	3.899114%
10	INCOME TAXES		
11	Total Income Taxes	Attach. H-28A, p. 3, line 39, col. 5	\$ 39,376,574
	Annual Allocation Factor for Income Taxes	(line 10 divided by line 2, col. 3)	2.134552%
12	RETURN		
13	Return on Rate Base	Attach. H-28A, p. 3, line 40, col. 5	\$ 125,377,130
	Annual Allocation Factor for Return on Rate Base	(line 12 divided by line 2, col. 3)	6.796529%
14	Annual Allocation Factor for Return	Sum of line 11 and 13	8.931082%

Columns 5-9 (page 1) only applies with incentive ROE project(s) (Note F)				
(5)	(6)	(7)	(8)	(9)
Line No.	Reference	Transmission	Allocator	
10b	INCOME TAXES			
11b	Total Income Taxes	Attachment 2, line 33	\$ 39,376,574	
	Annual Allocation Factor for Income Taxes	(line 10b divided by line 2, col. 3)	2.134552%	2.134552%
12b	RETURN			
13b	Return on Rate Base	Attachment 2, line 22	\$ 125,377,130	
	Annual Allocation Factor for Return on Rate Base	(line 12b divided by line 2, col. 3)	6.796529%	6.796529%
14b	Annual Allocation Factor for Return	Sum of line 11b and 13b		8.931082%
15	Additional Annual Allocation Factor for Return	Line 14 b, col. 9 less line 14, col. 4		0.00009%

Transmission Enhancement Charge (TEC) Worksheet
To be completed in conjunction with Attachment H-28A

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Line No.	Project Name	RTEP Project Number	Project Gross Plant	Annual Allocation Factor for Expense	Annual Expense Charge	Project Net Plant	Annual Allocation Factor for Return	Annual Return Charge	Project Depreciation Expense	Annual Revenue Requirement	Additional Incentive Annual Allocation Factor for Return (Note F)	Total Annual Revenue Requirement	True-up Adjustment	Net Revenue Requirement with True-up
			(Note C & H)	(Page 1, line 9)	(Col. 3 * Col. 4)	(Note D & H)	Page 1, line 14	(Col. 6 * Col. 7)	(Note E)	(Sum Col. 5, 8, & 9)	(Col. 6 * Page 1, line 15, Col. 9)	(Sum Col. 10 & 11)	(Note G)	(Sum Col. 12 & 13)
	Install 230Kv series reactor and 2- 100MVAR PLC switched capacitors at Hunterstown	b0215	\$ 12,637,431	3.899114%	\$492,748	\$ 9,839,662	8.931082%	\$878,788	\$ 193,353	\$1,264,889	-	\$1,264,889	170,779	\$1,735,668
2a	Install 220 MVAR capacitor at Keystone 500 kV	b0549	\$ 3,207,134	3.899114%	\$125,050	\$ 2,744,738	8.931082%	\$245,140	\$ 44,258	\$414,448	-	\$414,448	40,967	\$455,415
2c	Install 25 MVAR capacitor at Saxton 115 kV substation	b0551	\$ 1,380,393	3.899114%	\$53,823	\$ 1,075,855	8.931082%	\$98,086	\$ 18,940	\$168,849	-	\$168,849	17,007	\$185,856
2c	Install 50 MVAR capacitor at Albions 230 kV substation	b0552	\$ 1,038,325	3.899114%	\$40,496	\$ 915,080	8.931082%	\$81,720	\$ 14,329	\$136,540	-	\$136,540	11,496	\$148,035
2e	Install 50 MVAR capacitor at Raystown 230 kV substation	b0553	\$ 927,947	3.899114%	\$36,192	\$ 783,653	8.931082%	\$70,896	\$ 12,806	\$119,885	-	\$119,885	11,553	\$131,438
2f	Install 75 MVAR capacitor at East Towards 230 kV substation	b0557	\$ 2,177,814	3.899114%	\$84,915	\$ 1,863,783	8.931082%	\$166,458	\$ 29,867	\$281,239	-	\$281,239	27,862	\$308,900
2o	Relocate the Elm South 345 kV line terminal Convert Lewis Run/Farmers Valley to 230 kV using 1033.5 ACSR conductor. Project to be completed in conjunction with new Farmers Valley 345/230 kV transformation	b1993	\$ 10,675,225	3.899114%	\$416,239	\$ 9,730,166	8.931082%	\$889,009	\$ 147,089	\$1,432,337	-	\$1,432,337	125,613	\$1,557,950
2h	Portneuf-Kittling 230kv Terminal Upgrade	b1994	\$ 63,487,236	3.899114%	\$2,475,830	\$ 60,718,573	8.931082%	\$5,422,825	\$ 913,500	\$8,812,155	-	\$8,812,155	324,371	\$9,136,526
2i	South Lebanon 230/69 kv Bank 1 - Upgrade 69 kv Terminal Facilities	b0152.3	\$ 130,895	3.899114%	\$5,108	\$ 125,688	8.931082%	\$9,466	\$ 2,885	\$17,259	-	\$17,259	21,358	\$38,615
2i	Middleton Sub - 69 kv Capacitor Bank	b1364	\$ 87,275	3.899114%	\$3,403	\$ 71,850	8.931082%	\$6,417	\$ 1,789	\$11,609	-	\$11,609	14,345	\$25,954
2k	Germantown - 69 kv Capacitor Bank	b1362	\$ 47,992	3.899114%	\$1,871	\$ 41,522	8.931082%	\$3,708	\$ 614	\$6,194	-	\$6,194	8,112	\$14,306
2i	Germantown - 138kv Reactor Removal	b1816.4	\$ -	3.899114%	\$0	\$ -	8.931082%	\$0	\$ -	\$0	-	\$0	6,239	\$6,239
2m	Germantown p 138 115kV #1 Bk Xthr + Upgrade 138kv 99% & 115kv 99% components RTEP b2688, b2688.1, b2688.2	b2688.1 & b2688.2	\$ 5,926,586	3.899114%	\$231,100	\$ 5,535,056	8.931082%	\$494,340	\$ 121,503	\$846,944	-	\$846,944	1,043,516	\$1,890,460
2n	Loop the 2026 (TM - Hosensack 500 kV) line in to the Laushtown substation and upgrade relay at TMR 500 kV	b2006.1.1_DFAX_All ocaion	\$ 2,215,749	3.899114%	\$86,395	\$ 1,992,195	8.931082%	\$177,925	\$ 54,507	\$318,827	-	\$318,827	27,276	\$346,103
2o	Loop the 2026 (TM - Hosensack 500 kV) line in to the Laushtown substation and upgrade relay at TMR 500 kV	b2006.1.1_Load_Rat o Share Allocation	\$ 2,215,749	3.899114%	\$86,395	\$ 1,992,195	8.931082%	\$177,925	\$ 54,507	\$318,827	-	\$318,827	27,276	\$346,103
2o	Install 2nd Hunterstown 230/115 kV transformer	b2452	\$ 6,023,189	3.899114%	\$234,850	\$ 5,487,381	8.931082%	\$480,082	\$ 132,510	\$657,442	-	\$657,442	44,513	\$901,899
2i	Reconductor Hunterstown - Oxford 115 kV line Replace wave trap and upgrade a bus section at Keystone 500 kV - on the Keystone - Alrvdale 500 kV	b2452.1	\$ 2,721,723	3.899114%	\$106,123	\$ 2,477,571	8.931082%	\$221,274	\$ 58,878	\$387,275	-	\$387,275	56,342	\$443,617
2r	Alrvdale 500 kV	b0284.3	\$ -	3.899114%	\$0	\$ -	8.931082%	\$0	\$ -	\$0	-	\$0	6,724	\$6,724
2s	Install 100 MVAR Dynamic Reactive Device at Alrvdale 500 kV substation	b0389	\$ -	3.899114%	\$0	\$ -	8.931082%	\$0	\$ -	\$0	-	\$0	329,494	\$329,494
2t	Tie in new Rice substation to Cornesmauch-Hunterstown 500 kV	b2743.2	\$ 1,036,720	3.899114%	\$42,840	\$ 1,097,744	8.931082%	\$98,040	\$ 12,676	\$153,557	-	\$153,557	-	\$153,557
2u	Upgrade terminal equipment at Cornesmauch 500 kV on the Cornesmauch - Hunterstown 500 kV	b2743.3	\$ 142,164	3.899114%	\$5,543	\$ 141,314	8.931082%	\$12,821	\$ 2,352	\$21,086	-	\$21,086	-	\$21,086
2v	Upgrade terminal equipment at Hunterstown 500 kV on the Cornesmauch - Hunterstown 500 kV	b2743.4	\$ 40,908	3.899114%	\$1,595	\$ 40,873	8.931082%	\$3,650	\$ 454	\$5,700	-	\$5,700	-	\$5,700
3	Transmission Enhancement Credit taken to Attachment H-28A Page 1, Line 7											15,875,069.53		
4	Additional Incentive Revenue taken to Attachment H-28A Page 3, Line 42										\$0.00			

Notes

A Gross Transmission Plant is that identified on page 2 line 2 of Attachment H-28A.

B Net Transmission Plant is that identified on page 2 line 14 of Attachment H-28A.

C Project Gross Plant is the total capital investment for the project calculated in the same method as the gross plant value in line 1 above. This value includes subsequent capital investments required to maintain the project in-service.

D Project Net Plant is the Project Gross Plant identified in Column 3 less the associated Accumulated Depreciation.

E Project Depreciation Expense is the actual value booked for the project and included in the Depreciation Expense in Attachment H-28A, page 3, line 16.

F Any actual ROE incentive must be approved by the Commission

G True-up adjustment is calculated on the project true-up schedule, attachment 12, column i

H Based on a 12-month average

TEC Worksheet Support
Net Plant Detail

Attachment H-28A, Attachment 11a
page 1 of 2
For the 12 months ended 12/31/2021

Line No.	Project Name	RTEP Project Number	Project Gross Plant (Note A)	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21
2a	Install 230kV series reactor and 2- 100MVAR PLC switched capacitors at Hunterstown	b0215	\$ 12,637,431	\$ 12,637,431	\$ 12,637,431	\$ 12,637,431	\$ 12,637,431	\$ 12,637,431	\$ 12,637,431	\$ 12,637,431	\$ 12,637,431	\$ 12,637,431	\$ 12,637,431	\$ 12,637,431	\$ 12,637,431	\$ 12,637,431
2b	Install 250 MVAR capacitor at Keystone 500 kV	b0549	\$ 3,207,134	\$ 3,207,134	\$ 3,207,134	\$ 3,207,134	\$ 3,207,134	\$ 3,207,134	\$ 3,207,134	\$ 3,207,134	\$ 3,207,134	\$ 3,207,134	\$ 3,207,134	\$ 3,207,134	\$ 3,207,134	\$ 3,207,134
2c	Install 25 MVAR capacitor at Saxton 115 kV substation	b0551	\$ 1,380,393	\$ 1,380,393	\$ 1,380,393	\$ 1,380,393	\$ 1,380,393	\$ 1,380,393	\$ 1,380,393	\$ 1,380,393	\$ 1,380,393	\$ 1,380,393	\$ 1,380,393	\$ 1,380,393	\$ 1,380,393	\$ 1,380,393
2d	Install 50 MVAR capacitor at Altoona 230 kV substation	b0552	\$ 1,038,335	\$ 1,038,335	\$ 1,038,335	\$ 1,038,335	\$ 1,038,335	\$ 1,038,335	\$ 1,038,335	\$ 1,038,335	\$ 1,038,335	\$ 1,038,335	\$ 1,038,335	\$ 1,038,335	\$ 1,038,335	\$ 1,038,335
2e	Install 50 MVAR capacitor at Raystown 230 kV substation	b0553	\$ 927,947	\$ 927,947	\$ 927,947	\$ 927,947	\$ 927,947	\$ 927,947	\$ 927,947	\$ 927,947	\$ 927,947	\$ 927,947	\$ 927,947	\$ 927,947	\$ 927,947	\$ 927,947
2f	Install 75 MVAR capacitor at East Towanda 230 kV substation	b0557	\$ 2,177,814	\$ 2,177,814	\$ 2,177,814	\$ 2,177,814	\$ 2,177,814	\$ 2,177,814	\$ 2,177,814	\$ 2,177,814	\$ 2,177,814	\$ 2,177,814	\$ 2,177,814	\$ 2,177,814	\$ 2,177,814	\$ 2,177,814
2g	Relocate the Erie South 345 kV line terminal	b1993	\$ 10,675,225	\$ 10,675,225	\$ 10,675,225	\$ 10,675,225	\$ 10,675,225	\$ 10,675,225	\$ 10,675,225	\$ 10,675,225	\$ 10,675,225	\$ 10,675,225	\$ 10,675,225	\$ 10,675,225	\$ 10,675,225	\$ 10,675,225
	Convert Lewis Run-Farmers Valley to 230 kV using 1033.5 ACSR conductor. Project to be completed in conjunction with new Farmers Valley 345/230 kV transformation	b1994	\$ 63,497,236	\$ 63,497,236	\$ 63,497,236	\$ 63,497,236	\$ 63,497,236	\$ 63,497,236	\$ 63,497,236	\$ 63,497,236	\$ 63,497,236	\$ 63,497,236	\$ 63,497,236	\$ 63,497,236	\$ 63,497,236	\$ 63,497,236
2h	Portland-Kittatinny 230kV Terminal Upgrade	b0132.3	\$ 130,995	\$ 130,995	\$ 130,995	\$ 130,995	\$ 130,995	\$ 130,995	\$ 130,995	\$ 130,995	\$ 130,995	\$ 130,995	\$ 130,995	\$ 130,995	\$ 130,995	\$ 130,995
2j	South Lebanon 230/69 kv Bank 1 - Upgrade 69 kv Terminal	b1364	\$ 87,275	\$ 87,275	\$ 87,275	\$ 87,275	\$ 87,275	\$ 87,275	\$ 87,275	\$ 87,275	\$ 87,275	\$ 87,275	\$ 87,275	\$ 87,275	\$ 87,275	\$ 87,275
2k	Facilities	b1362	\$ 47,992	\$ 47,992	\$ 47,992	\$ 47,992	\$ 47,992	\$ 47,992	\$ 47,992	\$ 47,992	\$ 47,992	\$ 47,992	\$ 47,992	\$ 47,992	\$ 47,992	\$ 47,992
2l	Middletown Sub - 69 kv Capacitor Bank	b1816.4	\$ -	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
	Germantown - 138kV Reactor Removal	b1816.4	\$ -	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
2m	Germantown r p 138 115kV #1 Bk Xfmr + Upgrade 138kV 999L & 115kV 998L components RTEP b2688, b2688.1, b2688.2	b2688.1 & b2688.2	\$ 5,926,986	\$ 5,926,986	\$ 5,926,986	\$ 5,926,986	\$ 5,926,986	\$ 5,926,986	\$ 5,926,986	\$ 5,926,986	\$ 5,926,986	\$ 5,926,986	\$ 5,926,986	\$ 5,926,986	\$ 5,926,986	\$ 5,926,986
2n	Loop the 2026 (TMI - Hosensack 500 kV) line in to the Lauschtown substation and upgrade relay at TMI 500 kV	b2006.1.1_DFAX_Allocati	\$ 2,215,749	\$ 2,215,749	\$ 2,215,749	\$ 2,215,749	\$ 2,215,749	\$ 2,215,749	\$ 2,215,749	\$ 2,215,749	\$ 2,215,749	\$ 2,215,749	\$ 2,215,749	\$ 2,215,749	\$ 2,215,749	\$ 2,215,749
2o	Loop the 2026 (TMI - Hosensack 500 kV) line in to the Lauschtown substation and upgrade relay at TMI 500 kV	b2006.1.1_Load_Ratio_Sh	\$ 2,215,749	\$ 2,215,749	\$ 2,215,749	\$ 2,215,749	\$ 2,215,749	\$ 2,215,749	\$ 2,215,749	\$ 2,215,749	\$ 2,215,749	\$ 2,215,749	\$ 2,215,749	\$ 2,215,749	\$ 2,215,749	\$ 2,215,749
2p	Install 2nd Hunterstown 230/115 kV transformer	b2452	\$ 6,023,169	\$ 6,023,169	\$ 6,023,169	\$ 6,023,169	\$ 6,023,169	\$ 6,023,169	\$ 6,023,169	\$ 6,023,169	\$ 6,023,169	\$ 6,023,169	\$ 6,023,169	\$ 6,023,169	\$ 6,023,169	\$ 6,023,169
2q	Reconductor Hunterstown - Oxford 115 kV line	b2452.1	\$ 2,721,723	\$ 2,721,723	\$ 2,721,723	\$ 2,721,723	\$ 2,721,723	\$ 2,721,723	\$ 2,721,723	\$ 2,721,723	\$ 2,721,723	\$ 2,721,723	\$ 2,721,723	\$ 2,721,723	\$ 2,721,723	\$ 2,721,723
2r	Replace wave trap and upgrade a bus section at Keystone 500 kV - on the Keystone - Airydale 500 kV	b0284.3	\$ -	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
2s	Install 100 MVAR Dynamic Reactive Device at Airydale 500 kV substation	b0369	\$ -	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
2t	Tie in new Rice substation to Conemaugh-Hunterstown 500 kV	b2743.2	\$ 1,098,720	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 14,283,355
2u	Upgrade terminal equipment at Conemaugh 500 kV: on the Conemaugh - Hunterstown 500 kV circuit	b2743.3	\$ 142,164	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 264,018	\$ 264,018	\$ 264,018	\$ 264,018	\$ 264,018	\$ 264,018	\$ 264,018
2v	Upgrade terminal equipment at Hunterstown 500 kV: on the Conemaugh - Hunterstown 500 kV circuit	b2743.4	\$ 40,908	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 531,800

NOTE
[A] Project Gross Plant is the total capital investment for the project, including subsequent capital investments required to maintain the project in-service. Utilizing a 13-month average.

TEC Worksheet Support
Net Plant Detail

Attachment H-28A, Attachment 11a
page 2 of 2
For the 12 months ended 12/31/2021

Accumulated Depreciation	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Project Net Plant
(Note B)	(Note D)	(Note D)	(Note D)	(Note D)	(Note D)	(Note D)	(Note D)	(Note D)	(Note D)	(Note D)	(Note D)	(Note D)	(Note D)	(Note B & C)
\$2,797,769	\$2,701,093	\$2,717,205	\$2,733,318	\$2,749,431	\$2,765,544	\$2,781,656	\$2,797,769	\$2,813,882	\$2,829,994	\$2,846,107	\$2,862,220	\$2,878,333	\$2,894,445	\$9,839,662
\$462,336	\$440,207	\$443,895	\$447,583	\$451,271	\$454,960	\$458,648	\$462,336	\$466,024	\$469,712	\$473,401	\$477,089	\$480,777	\$484,465	\$2,744,798
\$304,538	\$295,068	\$296,646	\$298,225	\$299,803	\$301,381	\$302,960	\$304,538	\$306,116	\$307,695	\$309,273	\$310,851	\$312,430	\$314,008	\$1,075,855
\$123,275	\$116,110	\$117,304	\$118,498	\$119,692	\$120,886	\$122,081	\$123,275	\$124,469	\$125,663	\$126,857	\$128,051	\$129,245	\$130,439	\$915,060
\$134,114	\$127,711	\$128,778	\$129,845	\$130,913	\$131,980	\$133,047	\$134,114	\$135,181	\$136,248	\$137,315	\$138,383	\$139,450	\$140,517	\$793,833
\$314,031	\$299,098	\$301,587	\$304,076	\$306,565	\$309,054	\$311,542	\$314,031	\$316,520	\$319,009	\$321,498	\$323,987	\$326,476	\$328,965	\$1,863,783
\$945,059	\$871,515	\$883,772	\$896,030	\$908,287	\$920,545	\$932,802	\$945,059	\$957,317	\$969,574	\$981,832	\$994,089	\$1,006,347	\$1,018,604	\$9,730,166
\$2,778,663	\$2,321,913	\$2,398,038	\$2,474,163	\$2,550,288	\$2,626,413	\$2,702,538	\$2,778,663	\$2,854,788	\$2,930,913	\$3,007,038	\$3,083,163	\$3,159,288	\$3,235,412	\$60,718,573
\$25,007	\$23,664	\$23,888	\$24,112	\$24,336	\$24,560	\$24,783	\$25,007	\$25,231	\$25,455	\$25,678	\$25,902	\$26,126	\$26,350	\$105,988
\$15,425	\$14,530	\$14,679	\$14,828	\$14,977	\$15,127	\$15,276	\$15,425	\$15,574	\$15,723	\$15,872	\$16,021	\$16,170	\$16,319	\$71,850
\$6,470	\$6,163	\$6,214	\$6,265	\$6,316	\$6,367	\$6,419	\$6,470	\$6,521	\$6,572	\$6,623	\$6,675	\$6,726	\$6,777	\$41,522
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$391,930	\$331,179	\$341,304	\$351,429	\$361,555	\$371,680	\$381,805	\$391,930	\$402,056	\$412,181	\$422,306	\$432,431	\$442,557	\$452,682	\$5,535,056
\$223,554	\$196,300	\$200,842	\$205,384	\$209,927	\$214,469	\$219,011	\$223,554	\$228,096	\$232,638	\$237,180	\$241,723	\$246,265	\$250,807	\$1,992,195
\$223,554	\$196,300	\$200,842	\$205,384	\$209,927	\$214,469	\$219,011	\$223,554	\$228,096	\$232,638	\$237,180	\$241,723	\$246,265	\$250,807	\$1,992,195
\$535,788	\$469,534	\$480,576	\$491,618	\$502,661	\$513,703	\$524,746	\$535,788	\$546,831	\$557,873	\$568,916	\$579,958	\$591,001	\$602,043	\$5,487,381
\$244,152	\$214,213	\$219,203	\$224,193	\$229,183	\$234,172	\$239,162	\$244,152	\$249,142	\$254,132	\$259,122	\$264,111	\$269,101	\$274,091	\$2,477,571
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$975	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$12,676	\$1,097,744
\$850	\$0	\$0	\$0	\$0	\$0	\$0	\$226	\$677	\$1,128	\$1,579	\$2,030	\$2,481	\$2,932	\$141,314
\$35	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$454	\$40,873

NOTE

[B] Utilizing a 13-month average.

[C] Taken to Attachment 11, Page 2, Col. 6

[D] Company records

TEC - True-up

To be completed after Attachment 11 for the True-up Year is updated using actual data

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
Line No.	Project Name	RTEP Project Number	Actual Revenues for Appendix D	Projected Annual Revenue Requirement	% of Total Revenue Requirement	Revenue Received	Actual Annual Revenue Requirement	True-up Adjustment Principal Over/(Under)	Applicable Interest Rate on Over/(Under)	Total True-up Adjustment with Interest Over/(Under)
				Projected Attachment 11 p 2 of 2, col. 14	Col d, line 2 / Col. d, line 3	Col c, line 1 * Col e	Actual Attachment 11 p 2 of 2, col. 14	Col. f - Col. G	Col. H line 2 x / Col. H line 3 * Col. J line 4	Col. h + Col. i
1	[A] Actual RTEP Credit Revenues for true-up year		14,922,371							
2a	Install 230Kv series reactor and 2- 100MVAR PLC	b0215		\$1,521,328	0.11	1,594,471.84	\$1,748,517	(154,046)	(16,734)	(170,779)
2b	Install 250 MVAR capacitor at Keystone 500 kv	b0549		\$402,934	0.03	422,306.81	\$459,259	(36,952)	(4,014)	(40,967)
2c	Install 25 MVAR capacitor at Saxton 115 kv subs	b0551		\$165,244	0.01	173,188.70	\$188,529	(15,341)	(1,666)	(17,007)
2d	Install 50 MVAR capacitor at Altoona 230 kv subs	b0552		\$134,126	0.01	140,575.05	\$150,944	(10,369)	(1,126)	(11,496)
2e	Install 50 MVAR capacitor at Raystown 230 kv sub	b0553		\$116,815	0.01	122,431.73	\$132,852	(10,421)	(1,132)	(11,553)
2f	Install 75 MVAR capacitor at East Towanda 230 kv	b0557		\$273,534	0.02	286,684.99	\$311,636	(24,951)	(2,710)	(27,662)
2g	Relocate the Erie South 345 kv line terminal	b1993		\$1,396,767	0.10	1,463,922.13	\$1,577,227	(113,305)	(12,308)	(125,613)
2h	Convert Lewis Run-Farmers Valley to 230 kv usir	b1994		\$8,661,798	0.61	9,078,246.13	\$9,370,834	(292,588)	(31,783)	(324,371)
2i	Portland-Kittatinny 230kv Terminal Upgrade	b0132.3		-	-	-	\$19,264	(19,264)	(2,093)	(21,356)
2j	South Lebanon 230/69 kv Bank 1 - Upgrade 69 kv	b1364		-	-	-	\$12,940	(12,940)	(1,406)	(14,345)
2k	Middletown Sub - 69 kv Capacitor Bank	b1362		-	-	-	\$7,317	(7,317)	(795)	(8,112)
2l	Germantown - 138kv Reactor Removal	b1816.4		-	-	-	\$5,628	(5,628)	(611)	(6,239)
2m	Germantown r p 138 115kv #1 Bk Xfmr + Upgrac	b2688.1 & b2688.2		-	-	-	\$941,269	(941,269)	(102,247)	(1,043,516)
2n	Loop the 2026 (TMI - Hosensack 500 kv) line in t	b1.1_DFAX_Allocation		\$313,679	0.02	328,760.67	\$353,364	(24,604)	(2,673)	(27,276)
2o	Loop the 2026 (TMI - Hosensack 500 kv) line in t	b1.1_Ratio_Share_Allocation		\$313,679	0.02	328,760.67	\$353,364	(24,604)	(2,673)	(27,276)
2p	Install 2nd Hunterstown 230/115 kv transformer	b2452		\$866,904	0.06	908,583.25	\$948,735	(40,152)	(4,362)	(44,513)
2q	Reconductor Hunterstown - Oxford 115 kv line	b2452.1		\$360,387	0.03	377,713.99	\$428,535	(50,821)	(5,521)	(56,342)
2r	Replace wave trap and upgrade a bus section at	b0284.3		-\$5,787	(0.00)	(6,065.50)	\$0	(6,066)	(659)	(6,724)
2s	Install 100 MVAR Dynamic Reactive Device at Ai	b0369		-\$283,576	(0.02)	(297,209.45)	\$0	(297,209)	(32,285)	(329,494)
				-	-	-	-	-	-	-
				-	-	-	-	-	-	-
				-	-	-	-	-	-	-
				-	-	-	-	-	-	-
				-	-	-	-	-	-	-
3	Subtotal			14,237,835			17,010,217	(2,087,846)		(2,314,642)
4	Total Interest (Sourced from Attachment 13a, line 30)									(226,796)

NOTE

[A] Amount included in revenues reported on pages 328-330 of FERC Form 1.

Net Revenue Requirement True-up with Interest

	Reconciliation Revenue Requirement For Year 2019 Available June 1, 2020		2019 Revenue Requirement Collected by PJM Based on Forecast filed on Oct 31, 2018		True-up Adjustment - Over (Under) Recovery
1	\$204,660,220	-	\$188,116,652	=	(\$16,543,568)

	Over (Under) Recovery Plus Interest	Average Monthly Interest Rate	Months	Calculated Interest	Amortization	Surcharge (Refund) Owed
2	Interest Rate on Amount of Refunds or Surcharges ^[A]	0.420%				

An over or under collection will be recovered prorata over 2018, held for 2019 and returned prorata over 2020

Calculation of Interest

					Monthly	
3	January	Year 2019	(1,378,631)	0.4195%	12	69,400
4	February	Year 2019	(1,378,631)	0.4195%	11	63,617
5	March	Year 2019	(1,378,631)	0.4195%	10	57,834
6	April	Year 2019	(1,378,631)	0.4195%	9	52,050
7	May	Year 2019	(1,378,631)	0.4195%	8	46,267
8	June	Year 2019	(1,378,631)	0.4195%	7	40,483
9	July	Year 2019	(1,378,631)	0.4195%	6	34,700
10	August	Year 2019	(1,378,631)	0.4195%	5	28,917
11	September	Year 2019	(1,378,631)	0.4195%	4	23,133
12	October	Year 2019	(1,378,631)	0.4195%	3	17,350
13	November	Year 2019	(1,378,631)	0.4195%	2	11,567
14	December	Year 2019	(1,378,631)	0.4195%	1	5,783
					451,102	16,994,670
					Annual	
15	January through December	Year 2020	16,994,670	0.4195%	12	855,512
						17,850,182

Over (Under) Recovery Plus Interest Amortized and Recovered Over 12 Months

					Monthly	
16	January	Year 2021	(17,850,182)	0.4195%	74,882	(1,528,387)
17	February	Year 2021	(16,396,676)	0.4195%	68,784	(1,528,387)
18	March	Year 2021	(14,937,073)	0.4195%	62,661	(1,528,387)
19	April	Year 2021	(13,471,347)	0.4195%	56,512	(1,528,387)
20	May	Year 2021	(11,999,472)	0.4195%	50,338	(1,528,387)
21	June	Year 2021	(10,521,422)	0.4195%	44,137	(1,528,387)
22	July	Year 2021	(9,037,172)	0.4195%	37,911	(1,528,387)
23	August	Year 2021	(7,546,696)	0.4195%	31,658	(1,528,387)
24	September	Year 2021	(6,049,967)	0.4195%	25,380	(1,528,387)
25	October	Year 2021	(4,546,960)	0.4195%	19,074	(1,528,387)
26	November	Year 2021	(3,037,647)	0.4195%	12,743	(1,528,387)
27	December	Year 2021	(1,522,002)	0.4195%	6,385	(1,528,387)
					490,465	0

28	True-Up with Interest	\$	(18,340,647)
29	Less Over (Under) Recovery	\$	(16,543,568)
30	Total Interest	\$	(1,797,079)

[A] Interest rate equal to: (i) MAIT's actual short-term debt costs capped at the interest rate determined by 18 C.F.R. 35.19a; or (ii) the interest rate determined by 18 C.F.R. 35.19, if MAIT does not have short term debt

TEC Revenue Requirement True-up with Interest

	TEC Reconciliation Revenue Requirement For Year 2019 Available June 1, 2020		TEC 2019 Revenue Requirement Collected by PJM Based on Forecast filed on Oct 31, 2018		True-up Adjustment - Over (Under) Recovery
1	\$17,010,217	-	\$14,922,371	=	(\$2,087,846)

	Over (Under) Recovery Plus Interest	Average Monthly Interest Rate	Months	Calculated Interest	Amortization	Surcharge (Refund) Owed
2	Interest Rate on Amount of Refunds or Surcharges ^[A]	0.420%				

An over or under collection will be recovered prorata over 2018, held for 2019 and returned prorata over 2020

Calculation of Interest

					Monthly	
3	January	Year 2019	(173,987)	0.4195%	12	8,759
4	February	Year 2019	(173,987)	0.4195%	11	8,029
5	March	Year 2019	(173,987)	0.4195%	10	7,299
6	April	Year 2019	(173,987)	0.4195%	9	6,569
7	May	Year 2019	(173,987)	0.4195%	8	5,839
8	June	Year 2019	(173,987)	0.4195%	7	5,109
9	July	Year 2019	(173,987)	0.4195%	6	4,379
10	August	Year 2019	(173,987)	0.4195%	5	3,649
11	September	Year 2019	(173,987)	0.4195%	4	2,920
12	October	Year 2019	(173,987)	0.4195%	3	2,190
13	November	Year 2019	(173,987)	0.4195%	2	1,460
14	December	Year 2019	(173,987)	0.4195%	1	730
					56,930	2,144,776

					Annual	
15	January through December	Year 2020	2,144,776	0.4195%	12	107,968
						2,252,744

Over (Under) Recovery Plus Interest Amortized and Recovered Over 12 Months

					Monthly	
16	January	Year 2021	(2,252,744)	0.4195%	9,450	(192,887)
17	February	Year 2021	(2,069,307)	0.4195%	8,681	(192,887)
18	March	Year 2021	(1,885,101)	0.4195%	7,908	(192,887)
19	April	Year 2021	(1,700,122)	0.4195%	7,132	(192,887)
20	May	Year 2021	(1,514,368)	0.4195%	6,353	(192,887)
21	June	Year 2021	(1,327,834)	0.4195%	5,570	(192,887)
22	July	Year 2021	(1,140,517)	0.4195%	4,784	(192,887)
23	August	Year 2021	(952,415)	0.4195%	3,995	(192,887)
24	September	Year 2021	(763,523)	0.4195%	3,203	(192,887)
25	October	Year 2021	(573,839)	0.4195%	2,407	(192,887)
26	November	Year 2021	(383,360)	0.4195%	1,608	(192,887)
27	December	Year 2021	(192,081)	0.4195%	806	(192,887)
					61,898	(0)

28	True-Up with Interest	\$	(2,314,642)
29	Less Over (Under) Recovery	\$	(2,087,846)
30	Total Interest	\$	(226,796)

[A] Interest rate equal to: (i) MAIT's actual short-term debt costs capped at the interest rate determined by 18 C.F.R. 35.19a; or (ii) the interest rate determined by 18 C.F.R. 35.19, if MAIT does not have short term debt

Other Rate Base Items

Line No.	DESCRIPTION	COLUMN A	COLUMN B	COLUMN C	COLUMN D	COLUMN E	COLUMN F	COLUMN G
			BALANCE AS OF 12-31-20	BALANCE AS OF 12-31-21	AVERAGE BALANCE			
1	Land Held for Future Use (214.x.d)		0	0	-			
2	Materials & Supplies (227.8.c & .16.c)		0	0	-			
3	Prepayments: Account 165 (111.57.c) - Note [A]		814,129	814,129	814,129			

Unfunded Reserves

Line No.	DESCRIPTION	COLUMN A	COLUMN B	COLUMN C	COLUMN D	COLUMN E	COLUMN F	COLUMN G	TRANSMISSION TOTAL (Col D times Col F)
			BALANCE AS OF 12-31-20	BALANCE AS OF 12-31-21	AVERAGE BALANCE	ALLOCATION FACTOR			
Account 228.1									
4a	Property Insurance (Self insurance not covered by property insurance)		0	0	0 GP	1.00			0
4b	[Insert Item Included in Account 228.1 that are not allocated to transmission]		0	0	0 Other	0			0
4c	[Insert Item Included in Account 228.1 that are not allocated to transmission]		0	0	0 Other	0			0
4z	Total Account 228.1 (112.27.c)		0	0					0
Account 228.2									
5a	Workman's Compensation		0	0	0 W/S	1.00			0
5b	Probable liabilities not covered by insurance for death or injuries to employees and others		0	0	0 W/S	1.00			0
5c	Probable liabilities not covered by insurance for damages to property neither owned nor held under lease by the utility		0	0	0 GP	1.00			0
5d	[Insert Item Included in Account 228.2 that are not allocated to transmission]		0	0	0 Other	0			0
5e	[Insert Item Included in Account 228.2 that are not allocated to transmission]		0	0	0 Other	0			0
5z	Total Account 228.2 (112.28.c)		0	0					0
Account 228.3									
6a	Year-End Vacation Pay Accrual		0	0	0 W/S	1.00			0
6b	Year-End Deferred Compensation Accrual		0	0	0 W/S	1.00			0
6c	Year-End Sick Pay Accrual		0	0	0 W/S	1.00			0
6d	Year-End Incentive Compensation Accrual		0	0	0 W/S	1.00			0
6e	Year-End Severance Pay Accrual		0	0	0 W/S	1.00			0
6f	Year-End PBOP/OPEB Accrual not included in established trusts		0	0	0 W/S	1.00			0
6g	[Insert Item Included in Account 228.3 that are not allocated to transmission]		0	0	0 Other	0			0
6h	[Insert Item Included in Account 228.3 that are not allocated to transmission]		0	0	0 Other	0			0
6z	Total Account 228.3 (112.29.c)		0	0					0
Account 228.4									
7a	Year-End Vacation Pay Accrual		0	0	0 W/S	1.00			0
7b	Year-End Deferred Compensation Accrual		0	0	0 W/S	1.00			0
7c	Year-End Sick Pay Accrual		0	0	0 W/S	1.00			0
7d	Year-End Incentive Compensation Accrual		0	0	0 W/S	1.00			0
7e	Year-End Severance Pay Accrual		0	0	0 W/S	1.00			0
7f	Year-End PBOP/OPEB Accrual not included in established trusts		0	0	0 W/S	1.00			0
7g	[Insert Item Included in Account 228.4 that are not allocated to transmission]		0	0	0 Other	0			0
7h	[Insert Item Included in Account 228.4 that are not allocated to transmission]		0	0	0 Other	0			0
7z	Total Account 228.4 (112.30.c)		0	0					0
Account 242									
8a	Year-End Vacation Pay Accrual		0	0	- W/S	1.00			-
8b	Year-End Deferred Compensation Accrual		0	0	0 W/S	1.00			-
8c	Year-End Sick Pay Accrual		0	0	0 W/S	1.00			-
8d	Year-End Incentive Compensation Accrual		0	0	0 W/S	1.00			-
8e	Year-End Severance Pay Accrual		0	0	0 W/S	1.00			-
8f	Year-End PBOP/OPEB Accrual not included in established trusts		0	0	0 W/S	1.00			-
8g	[Insert Item Included in Account 242 that are not allocated to transmission]		0	-	- Other	0			-
8h	[Insert Item Included in Account 242 that are not allocated to transmission]		0	0	0 Other	0			-
8z	Total Account 242 (113.48.c)		0	-					-
9	Total Unfunded Reserves Plant-related (items with GP allocator) - Note [B]		0	0	0 GP	1.00			-
10	Total Unfunded Reserves Labor-related (items with W/S allocator) - Note [C]		0	-	- W/S	1.00			-

Notes:

- [A] Prepayments shall exclude prepayments of income taxes.
[B] Column G balance taken to Attachment H-28A, page 2, line 24, col. 3
[C] Column G balance taken to Attachment H-28A, page 2, line 25, col. 3

Income Tax Adjustments					
[1]	[2]	[3]	[4]	[5]	[6]
			Dec 31,	Dec 31,	
		<u>Beg/End Average [C]</u>	<u>2021</u>	<u>2021</u>	<u>Reference</u>
1 Tax adjustment for Permanent Differences & AFUDC Equity	[A]	\$386,605	\$386,605	\$386,605	MAIT Company Records
2 Amortized Excess Deferred Taxes (enter negative)	[B]	(1,100,219)	-\$1,100,219	-\$1,100,219	MAIT Company Records
3 Amortized Deficient Deferred Taxes	[B]	-	-	\$0	MAIT Company Records

Notes:

[A] AFUDC equity component is the gross cumulative annual amount based upon tax records of capitalized AFUDC equity embedded in the gross plant attributable to the transmission function.

[B] Upon enactment of changes in tax law, income tax rates (including changes in apportionment) and other actions taken by a taxing authority, deferred taxes are re-measured and adjusted in the Company's books of account, resulting in excess or deficient accumulated deferred taxes. Such excess or deficient deferred taxes attributed to the transmission function will be based upon tax records and calculated in the calendar year in which the excess or deficient amount was measured and recorded for financial reporting purposes. Amounts to be included will be January 1, 2017 and thereafter.

[C] (Column 4 + Column 5)/2; Beg/End Average for line 1 included on Attachment H-28A, page 3, line 33; Beg/End Average for lines 2-3 taken to Attachment H-28A, page 3, line 34

		Regulatory Asset - Deferred Storms				
[1]	[2]	[3]	[4]	[5]	[6]	[7]
		Months Remaining In Amortization Period	Beginning Balance	Amortization Expense (Company Records)	Additions (Deductions)	Ending Balance
1	Monthly Balance	Source				
2	December 2020	p232 (and Notes)	13			-
3	January	FERC Account 182.3	12	-	-	-
4	February	FERC Account 182.3	11	-	-	-
5	March	FERC Account 182.3	10	-	-	-
6	April	FERC Account 182.3	9	-	-	-
7	May	FERC Account 182.3	8	-	-	-
8	June	FERC Account 182.3	7	-	-	-
9	July	FERC Account 182.3	6	-	-	-
10	August	FERC Account 182.3	5	-	-	-
11	September	FERC Account 182.3	4	-	-	-
12	October	FERC Account 182.3	3	-	-	-
13	November	FERC Account 182.3	2	-	-	-
14	December 2021	p232 (and Notes)	1	-	-	-
15	Ending Balance 13-Month Average	(sum lines 2-14) /13			-	-
				Attachment H-28A, page 3, line 11		Attachment H-28A, page 2, Line 27

		Regulatory Asset - Vegetation Management				
		[3]	[4]	[5]	[6]	[7]
		Months Remaining In Amortization Period	Beginning Balance	Amortization Expense (Company Records)	Additions (Deductions)	Ending Balance
1	Monthly Balance	Source				
2	December 2020	p232 (and Notes)	49			2,388,988
3	January	FERC Account 182.3	48	2,388,988	49,771 -	2,339,218
4	February	FERC Account 182.3	47	2,339,218	49,771 -	2,289,447
5	March	FERC Account 182.3	46	2,289,447	49,771 -	2,239,676
6	April	FERC Account 182.3	45	2,239,676	49,771 -	2,189,906
7	May	FERC Account 182.3	44	2,189,906	49,771 -	2,140,135
8	June	FERC Account 182.3	43	2,140,135	49,771 -	2,090,365
9	July	FERC Account 182.3	42	2,090,365	49,771 -	2,040,594
10	August	FERC Account 182.3	41	2,040,594	49,771 -	1,990,823
11	September	FERC Account 182.3	40	1,990,823	49,771 -	1,941,053
12	October	FERC Account 182.3	39	1,941,053	49,771 -	1,891,282
13	November	FERC Account 182.3	38	1,891,282	49,771 -	1,841,512
14	December 2021	p232 (and Notes)	37	1,841,512	49,771 -	1,791,741
15	Ending Balance 13-Month Average	(sum lines 2-14) /13		<u>\$597,247</u>		<u>2,090,365</u>
				Attachment H-28A, page 3, line 11	Attachment H-28A, page 2, Line 27	

Regulatory Asset - Start-up Costs									
[1]		[2]	[3]	[4]	[5]	[6]	[7]		
			Months Remaining In Amortization Period	Beginning Balance	Amortization Expense (Company Records)	Additions (Deductions)	Ending Balance		
1	Monthly Balance	Source							
2	December 2020	p232 (and Notes)	13						-
3	January	FERC Account 182.3	12	-	-	-			-
4	February	FERC Account 182.3	11	-	-	-			-
5	March	FERC Account 182.3	10	-	-	-			-
6	April	FERC Account 182.3	9	-	-	-			-
7	May	FERC Account 182.3	8	-	-	-			-
8	June	FERC Account 182.3	7	-	-	-			-
9	July	FERC Account 182.3	6	-	-	-			-
10	August	FERC Account 182.3	5	-	-	-			-
11	September	FERC Account 182.3	4	-	-	-			-
12	October	FERC Account 182.3	3	-	-	-			-
13	November	FERC Account 182.3	2	-	-	-			-
14	December 2021	p232 (and Notes)	1	-	-	-			-
15	Ending Balance 13-Month Average	(sum lines 2-14) /13				\$0.00			-
						Attachment H-28A, page 3, line 11			
						Attachment H-28A, page 2, Line 27			

		Abandoned Plant				
		[3]	[4]	[5]	[6]	[7]
		Months Remaining In Amortization Period	Beginning Balance	Amortization Expense (p114.10.c)	Additions (Deductions)	Ending Balance
1	Monthly Balance	Source				
2	December 2020	p111.71.d (and Notes)	13			-
3	January	FERC Account 182.2	12	-	-	-
4	February	FERC Account 182.2	11	-	-	-
5	March	FERC Account 182.2	10	-	-	-
6	April	FERC Account 182.2	9	-	-	-
7	May	FERC Account 182.2	8	-	-	-
8	June	FERC Account 182.2	7	-	-	-
9	July	FERC Account 182.2	6	-	-	-
10	August	FERC Account 182.2	5	-	-	-
11	September	FERC Account 182.2	4	-	-	-
12	October	FERC Account 182.2	3	-	-	-
13	November	FERC Account 182.2	2	-	-	-
14	December 2021	p111.71.c (and Notes) Detail on p230b	1	-	-	-
15	Ending Balance 13-Month Average	(sum lines 2-14) /13		<u>\$0.00</u>		<u>\$0.00</u>

Attachment H-28A, page 3, Line 19

Attachment H-28A, page 2, Line 28

Note:

Recovery of abandoned plant is limited to any abandoned plant recovery authorized by FERC and will be zero until the Commission accepts or approves recovery of the cost of abandoned plant

CWIP		
[A]		
216.b		
1	December	2020
2	January	2021
3	February	2021
4	March	2021
5	April	2021
6	May	2021
7	June	2021
8	July	2021
9	August	2021
10	September	2021
11	October	2021
12	November	2021
13	December	2021
14	13-month Average	

Notes:

[A] Includes only CWIP authorized by the Commission for inclusion in rate base.

Federal Income Tax Rate

Nominal Federal Income Tax Rate	21.00%
(entered on Attachment H-28A, page 5 of 5, Note K)	

State Income Tax Rate

	Pennsylvania	Combined Rate
		(entered on Attachment H-28A, page 5 of 5, Note K)
Nominal State Income Tax Rate	9.99%	
Times Apportionment Percentage	100.00%	
Combined State Income Tax Rate	9.990%	9.990%

Operation and Maintenance Expenses

Line No. [a]	Account Reference	Description	Account Balance [b]
82		<i>Operation</i>	
83	560	Operation Supervision and Engineering	\$225,815
84			
85	561.1	Load Dispatch-Reliability	\$1,170,709
86	561.2	Load Dispatch-Monitor and Operate Transmission System	\$1,019,620
87	561.3	Load-Dispatch-Transmission Service and Scheduling	
88	561.4	Scheduling, System Control and Dispatch Services	
89	561.5	Reliability, Planning and Standards Development	\$257,836
90	561.6	Transmission Service Studies	
91	561.7	Generation Interconnection Studies	
92	561.8	Reliability, Planning and Standards Development Services	
93	562	Station Expenses	\$3,975,114
94	563	Overhead Lines Expense	\$15,676
95	564	Underground Lines Expense	
96	565	Transmission of Electricity by Others	
97	566	Miscellaneous Transmission Expense	\$9,466,866
98	567	Rents	\$6,508,248
99		TOTAL Operation (Enter Total of Lines 83 thru 98)	\$22,639,883
100		<i>Maintenance</i>	
101	568	Maintenance Supervision and Engineering	\$5,174,104
102	569	Maintenance of Structures	
103	569.1	Maintenance of Computer Hardware	\$11,129
104	569.2	Maintenance of Computer Software	\$44,808
105	569.3	Maintenance of Communication Equipment	
106	569.4	Maintenance of Miscellaneous Regional Transmission Plant	
107	570	Maintenance of Station Equipment	\$7,069,702
108	571	Maintenance of Overhead Lines	\$45,762,467
109	572	Maintenance of Underground Lines	
110	573	Maintenance of Miscellaneous Transmission Plant	\$209,657
111		TOTAL Maintenance (Total of lines 101 thru 110)	\$58,271,867
112		TOTAL Transmission Expenses (Total of lines 99 and 111) [c]	\$80,911,750

Notes:

- [a] Line No. as would be reported in FERC Form 1, page 321
[b] December balances as would be reported in FERC Form 1
[c] Ties to Attachment H-28A, page 3, line 1, column 3
Above expenses do not include amounts for Met-Ed's 34.5 kV transmission lines

Administrative and General (A&G) Expenses

Line No. [d]	Account Reference	Description	Account Balance [e]
180		<i>Operation</i>	
181	920	Administrative and General Salaries	
182	921	Office Supplies and Expenses	\$103,500
183	Less 922	Administrative Expenses Transferred - Credit	
184	923	Outside Services Employed	\$5,545,451
185	924	Property Insurance	\$291,259
186	925	Injuries and Damages	\$1,135,514
187	926	Employee Pensions and Benefits	-\$8,873,905
188	927	Franchise Requirements	
189	928	Regulatory Commission Expense	
190	Less 929	(Less) Duplicate Charges-Cr.	
191	930.1	General Advertising Expenses	\$170,000
192	930.2	Miscellaneous General Expenses	\$32,000
193	931	Rents	\$12,926
194		Total Operation (Enter Total of lines 181 thru 193)	-\$1,583,255
195		<i>Maintenance</i>	
196	935	Maintenance of General Plant	\$888,563
197		TOTAL A&G Expenses (Total of lines 194 and 196) [f]	-\$694,692

Notes:

- [d] Line No. as would be reported in FERC Form 1, page 323
 - [e] December balances as would be reported in FERC Form 1
 - [f] Ties to Attachment H-28A, page 3, line 5, column 3
- Above expenses do not include amounts for Met-Ed's 34.5 kV transmission lines

Revenue Credit Worksheet

(See Footnote T on Attachment H-28A, page 5)

			December 31, 2021	
1	Account 451 -- Miscellaneous Service Revenues	FERC Form 1 , page 300 and footnote data	<u>Amount</u>	Note S, page 5
1a			\$ -	
1z	Account 451 Total		\$0	
2	Account 454 -- Rent from Electric Property	FERC Form 1, pages 300 and 429		Note R, page 5
2a	Transmission Charge - TMI Unit 1		\$ 1,998,563	
2b	Transmission Investment - Power Pool Agreement		\$ 1,762,525	
2z	Account 454 Total		\$3,761,088	
3	Account 456 -- Other Electric Revenues	FERC Form 1, page 330 and footnote data		Note V, page 5
3a	Point-to-point Revenues		\$ 1,722,973	
3b	Facility Maintenance Charges		\$ 266,000	
3z	Account 456 Total		\$1,988,973	

Attachment 13
AEP Formula Rate for January 1, 2021 to December 31, 2021

Projected Formula Rate for

**AEP Appalachian Transmission Company, Inc.
AEP Indiana Michigan Transmission Company, Inc.
AEP Kentucky Transmission Company, Inc.
AEP Ohio Transmission Company, Inc.
AEP West Virginia Transmission Company, Inc.**

**To be Effective January 1, 2021
Docket No ER17-406**

Pursuant to Attachment H-20A (Formula Rate Implementation Protocols) in PJM Tariff, AEP has calculated its Projected Transmission Revenue Requirements (PTRR) to produce the Rates beginning January 1, 2021 through December 31, 2021. All the files pertaining to the PTRR are also posted on the PJM website in PDF format along with supporting workpapers. The first file provides the PTRR and rates for Network transmission service and Scheduling System Control and Dispatch Service, Schedule 1A.

AEP network service rate will increase effective January 1, 2021 from \$41,759.82 per MW per year to \$49,798.97 per MW per year with the AEP annual revenue requirement increasing from \$935,533,420 to \$1,076,399,814.

The AEP Transmission Companies' Schedule 1A rate will be \$.0547 per MWh.

An annual revenue requirement of \$157,569,352.36 for RTEP projects (including true-up and interest) is to be collected under PJM Tariff Schedule 12. The RTEP Project revenue requirement includes:

1. b1465.4 (Rockport Jefferson) of \$732,780
2. b1465.2 (Rockport Jefferson-MVAR Bank) \$1,707,561
3. b2048 (Tanners Creek 345/138 kV transformer) \$657,773
4. b1818 (Expand the Allen station) \$6,521,758
5. b1819 (Rebuild Robinson Park) \$11,944,671
6. b1659 (Sorenson Add 765/345 kV transformer) \$6,415,449
7. b1659.13 (Sorenson Exp. Work 765kV) \$6,110,511
8. b1659.14 (Sorenson 14miles 765 line) \$7,606,669
9. b1465.1 (Add a 3rd 2250 MVA 765/345kV transformer Sullivan) \$4,032,529
10. b1465.5 (Sullivan Inst Baker 765kV tsfr) \$1,013,685
11. b0570 (Lima-Sterling) \$1,416,567
12. b1231 (Wapakoneta-West Moulton) \$458,775
13. b1034.1 (South Canton-Wagenhals-Wayview 138 kV) \$1,168,034
14. b1034.8 (South Canton Wagenhals Station) \$604,010
15. b1864.2 (West Bellaire-Brues 138 kV Circuit) \$150,282
16. b1870 (Ohio Central Transformer) \$961,297
17. b1032.2 (Two 138kV outlets to Delano/Camp Sherman) \$4,995,341

Projected Formula Rate for

**AEP Appalachian Transmission Company, Inc.
AEP Indiana Michigan Transmission Company, Inc.
AEP Kentucky Transmission Company, Inc.
AEP Ohio Transmission Company, Inc.
AEP West Virginia Transmission Company, Inc.**

**To be Effective January 1, 2021
Docket No ER17-406**

- 18. b1034.2 (Loop existing South Canton-Wayview 138kV) \$923,051
- 19. b1034.3 (345/138kV 450 MVA transformer Canton Central) \$1,946,739
- 20. b2018 (Loop Conesville-Bixby 345 kV) \$1,928,350
- 21. b2021 (OHTCo - Add 345/138kV trans. Sporn, Kanawha & Muskingum River stations) \$3,041,020
- 22. b2032 (Rebuild 138kV Elliott Tap Poston line) \$542,265
- 23. b1032.1 (Construct new 345/138kV station Marquis-Bixby) \$4,348,271
- 24. b1032.4 (Install 138/69kV transformer Ross Highland) \$910,420
- 25. b1666 (Build 8 breaker 138kV station Fostoria-East Lima) \$2,703,288
- 26. b1957 (Terminate Transformer #2 SW Lima) \$1,093,352
- 27. b2019 (Establish Burger 345/138kV station) \$7,466,068
- 28. b2017 (OHTCo Rebuild Sporn-Waterford-Muskingum River) \$7,657,084
- 29. b1818 (Allen Station Expansion) \$406,860
- 30. b2833 (Reconductor Maddox Creed-East Lima 345kV circuit) \$2,687,413
- 31. b1661 (765kV circuit breaker Wyoming station) \$248,444
- 32. b1864.1 (Add 2 345/138kV transformers at Kammer) \$9,584,188
- 33. b2021 (WVTCO - Add 345/138kV trans. Sporn, Kanawha & Muskingum River stations) \$2,226,591
- 34. b1948 (New 765/345 interconnection Sporn) \$6,525,465
- 35. b1962 (Add four 765kV breakers Kammer) \$2,536,740
- 36. b2017 (WVTCO Rebuild Sporn-Waterford-Muskingum River) \$168,718
- 37. b2020 (Rebuild Amos-Kanawha River 138 kV corridor) \$17,595,799
- 38. b2022 (Tristate-Kyger Creek 345kV line at Sporn) \$505,993
- 39. b1875 (138 kV Bradley to McClung upgrades) \$17,919,848
- 40. b2230 (Replace 3 765kV reactors Amos-Hanging Rock) \$1,480,779
- 41. b2423 (Install 300 MVAR shunt reactor Wyoming 765kV station) \$2,424,266
- 42. b1495 (Add 765/345 kV transf. Baker Station) \$4,200,649

Projected Formula Rate for AEP East subsidiaries in PJM

To be Effective January 1, 2021 through December 31, 2021
Docket No ER17-405

Pursuant to PJM OATT Attachment H-14A (Formula Rate Implementation Protocols), AEP has calculated its Projected Transmission Revenue Requirements (PTRR) for the Rate Year beginning January 1, 2021 through December 31, 2021. All the files pertaining to the PTRR are to be posted on the PJM website in PDF format. The first file provides the PTRR and rates for Network transmission service and Scheduling System Control and Dispatch Service (Schedule 1A), and the annual transmission revenue requirement for RTEP projects (Schedule 12). An informational filing will also be submitted to the FERC.

AEP network service rate will increase effective January 1, 2021 from \$38,726.59 per MW per year to \$45,741.84 per MW per year with the AEP annual revenue requirement increasing from \$871,336,638 to \$988,705,401.

The AEP Schedule 1A rate will be \$(0.0318) per MWh.

An annual revenue requirement of \$44,665,223.22 for RTEP projects (including true-up and interest) is to be collected under PJM Tariff Schedule 12. The RTEP Projected revenue requirement includes:

1. b0839 (Twin Branch) \$801,103
2. b0318 (Amos 765/138 kV Transformer) \$1,280,264
3. b0504 (Hanging Rock) \$743,708
4. b0570 (East Side Lima) \$232,941
5. b1034.1 (Torrey-West Canton) \$856,084
6. b1034.6 (138kV circuit South Canton Station) \$314,034
7. b1231 (West Moulton Station) \$956,908
8. b1465.2 (Rockport Jefferson 300 MVAR bank) \$62,031
9. b1465.3 (Rockport Jefferson 765 kV line) \$2,315,511
10. b1712.2 (Altavista-Leesville 138kV line) \$234,859
11. b1864.1 (OPCo Kammer 345/138 kV transformers) \$1,841,350
12. b1864.2 (West Bellaire-Brues 138 kV circuit) of \$109,344
13. b2020 (Rebuild Amos-Kanawha River) \$4,641,447
14. b2021 (APCo Kanawha River Gen Retirement Upgrades) \$257,583
15. b2017 (APCo Rebuild Sporn-Waterford Muskingum River 345kV line) \$1,627,346
16. b1659.14 (Ft. Wayne Relocate) \$133,042
17. b2048 (Tanners Creek-Transformer Replacement) \$87,583
18. b1818 (Expand the Allen Station) \$1,771,781
19. b1819 (Rebuild Robinson Park 138kV line corridor) \$399,656
20. b1465.4 (Switching imp at Sullivan Jefferson 765kV station) \$(75,179)
21. b2021 (OPCo 345/138kV Transformer) \$526,025
22. b2032 (Rebuild 138kV Elliott Tap-Poston) \$17,411
23. b1034.2 (Loop South Canton-Wayview) \$535,156

Projected Formula Rate for AEP East subsidiaries in PJM

**To be Effective January 1, 2021 through December 31, 2021
Docket No ER17-405**

- 24. b1034.7 (Replace circuit breakers Torrey/Wagenhals) \$668,687
- 25. b2018 (Loop Conesville-Bixby 345kV) \$1,106,997
- 26. b1032.4 (Loop the existing South Canton-Wayview 138kV circuit) \$188,942
- 27. b1666 (Build an 8 breaker 138kV station Fosteria-East Lima) \$481,195
- 28. b1957 (Terminate transformer #2 SW Lima) \$341,208
- 29. b1962 (Add four 765kV breakers Kammer) \$97,644
- 30. b2019 (Burger 345/138kV Station) \$1,077,946
- 31. b2017 (OPCo Reconductor Sporn-Waterford-Muskingum River) \$969,050
- 32. b1660 (Install 765/500 kV transformer Cloverdale) \$395,175
- 33. b1660.1 (Cloverdale Establish 500 kV station) \$3,429,036
- 34. b1663.2 (Jacksons-Ferry 765kV breakers) \$595,207
- 35. b1875 (138 kV Bradley to McClung upgrades) \$1,472,361
- 36. b1797.1 (Reconductor Cloverdale-Lexington 500 kV line) \$5,565,755
- 37. b1712.1 (Altavista-Leesville 138kV line) \$28,012
- 38. b1032.2 (Two 138kV outlets to Delano&Camp) \$209,443
- 39. b1818 (Expand Allen w/345/138kV xfmr) \$38,490
- 40. b2687.1 (Install a 450 MVAR SVC Jacksons Ferry 765kV Substation) \$7,765,344
- 41. b2687.2 (Reactor Replacement at Broadford) \$1,089,477
- 42. b1870 (Replace Ohio Central Tfmr) \$1,316
- 43. b1465.5 (Switching Imp at Sullivan Jefferson 765kV stations) \$72,745
- 44. b2831.1 (Upgrade Tanners Creek Miami Fort 345kV circuit) \$166,646
- 45. b2833 (Reconductor Maddox Creek East Lima 345kV circuit) \$(873,482)
- 46. b2230 (Amos Station retire 3 765kV reactors Amos-Hanging Rock) \$79,575
- 47. b2423 (Install a 300 MVAR reactor at AEP's Wyoming 765 kV station.) \$28,468

Attachment 14

Silver Run Formula Rate for January 1, 2021 to December 31, 2021

Attachment 1
Project Revenue Requirement Worksheet
Silver Run Electric, LLC

To be completed in conjunction with Attachment H-27A.

Line No.	(1)	(2) Attachment H-27A, Page, Line, Col.	(3) Transmission	(4) Allocator
1	Gross Transmission Plant plus CWIP	Attach H-27A, p 2, line 2, col 5 plus line 25, col 5 (Note A)	158,457,383	
2	Net Transmission Plant plus CWIP and Abandoned Plant	Attach H-27A, p 2, line 14, col 5 plus line 25 & 27, col 5 (Note B)	154,981,071	
	O&M EXPENSE			
3	Total O&M Allocated to Transmission	Attach H-27A, p 3, line 17, col 5	4,630,793	
4	Annual Allocation Factor for O&M	(line 3 divided by line 1, col 3)	2.92%	2.92%
	GENERAL AND INTANGIBLE (G&I) DEPRECIATION EXPENSE			
5	Total G&I Depreciation Expense	Attach H-27A, p 3, line 20, col 5 (Note C)	127,241	
6	Annual Allocation Factor for G,I & C Depreciation Expense	(line 5 divided by line 1, col 3)	0.08%	0.08%
	TAXES OTHER THAN INCOME TAXES			
7	Total Other Taxes	Attach H-27A, p 3, line 32, col 5	1,287,834	
8	Annual Allocation Factor for Other Taxes	(line 7 divided by line 1, col 3)	0.81%	0.81%
9	Less Revenue Credits	Attach H-27A, p 1, line 6 col 5	-	
10	Annual Allocation Factor for Revenue Credits	(line 9 divided by line 1, col 3)	0.00%	0.00%
11	Annual Allocation Factor for Expense	Sum of lines 4, 6, 8, and 10		3.82%
	INCOME TAXES			
12	Total Income Taxes	Attach H-27A, p 3, line 46, col 5	3,334,148	
13	Annual Allocation Factor for Income Taxes	(line 12 divided by line 2, col 3)	2.15%	2.15%
	RETURN			
14	Return on Rate Base	Attach H-27A, p 3, line 48, col 5	10,326,700	
15	Annual Allocation Factor for Return on Rate Base	(line 14 divided by line 2, col 3)	6.66%	6.66%
16	Annual Allocation Factor for Return	Sum of lines 13 and 15		8.81%

Attachment 1
Project Revenue Requirement Worksheet
Silver Run Electric, LLC

This worksheet is used to compute project specific revenue requirements for any projects for which such calculation is required by PJM. Other projects which comprise the remaining revenue requirement on Attachment H-27A will not be entered on this schedule.

Any hypothetical amounts or project names in a filed template will be removed and replaced with actual amounts in the first year actual values are available without the need for a section 205 filing to modify the template.

(1)		(2)		(3)	(4)	(5)	(6)		(7)	(8)
Line No.	Project Name	PJM Category	RTEP Project Number Or Other Identifier	Project Gross Plant	Annual Allocation Factor for Expense	Annual Expense Charge	Project Net Plant		Annual Allocation Factor for Return	Annual Return Charge
				(Note D)	(Page 1, line 11)	(Col. 3 * Col. 4)	(Note E)		(Page 1, line 16)	(Col. 6 * Col. 7)
1a	Artificial Island	Schedule 12	b2633.1, b2633.2	158,457,383	3.82%	6,045,869	154,981,071		8.81%	13,660,848
1b					3.82%	-	-		8.81%	-
2	Total Schedule 12			158,457,383		6,045,869	154,981,071			13,660,848
3a				-	3.82%	-	\$ -		8.81%	-
3b				-	3.82%	-	\$ -		8.81%	-
4	Total Zonal			-		-	\$ -			-
5				-	3.82%	-	\$ -		8.81%	-
6	Annual Totals			158,457,383		6,045,869	154,981,071			13,660,848

Attachment 1
Project Revenue Requirement Worksheet
Silver Run Electric, LLC

	(9)	(10)	(11)	(12)	(12a)	(13)	(14)	(15)	(16)
Line No.	Project Depreciation/Amortization Expense	Annual Revenue Requirement	Incentive Return in Basis Points	Incentive Return	Ceiling Rate	Competitive Concession	Total Annual Revenue Requirement	True-Up Adjustment	Net Revenue Requirement
	(Note F)	(Sum Col. 5 + Col. 9 + (Column 6 * Line 16))	(Note G)	(Col. 11/100)*Col. 6*Att 2 Line 28) (Note G)	(Sum Col. 10 & 12)	(Note H)	(Sum Col. 10 & 12 Less Col. 13)	(Note I)	(Sum Col. 14 & 15)
1a	3,322,708	23,029,425	50	592,817.5	23,622,243	-	23,622,243	-	23,622,243
1b	-	-	-	-	-	-	-	-	-
2	3,322,708	23,029,425		592,817.5	23,622,243	-	23,622,243	-	23,622,243
3a	-	-	-	-	-	-	-	-	-
3b	-	-	-	-	-	-	-	-	-
4	-	-		-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-
6	3,322,708	23,029,425		592,818	23,622,243	-	23,622,243	-	23,622,243

Notes

- A Gross Transmission Plant is that identified on page 2 line 2 of Attachment H-27A inclusive of any CWIP or unamortized abandoned plant included in rate base when authorized by FERC order.
- B Net Plant is that identified on page 2 line 14 of Attachment H-27A inclusive of any CWIP or unamortized Abandoned Plant included in rate base when authorized by FERC order less any prefunded AFUDC, if
- C General and Intangible Depreciation and Amortization Expense includes all expense not directly associated with a project, which is entered on page 3, column 9.
- D Project Gross Plant is the total capital investment including CWIP for the project calculated from Company books and records in the same method as the gross plant value in line 1. This value includes subsequent capital investments required to maintain the facilities to their original capabilities.
- E Project Net Plant is the Project Gross Plant Identified in Column 3 less the associated Accumulated Depreciation plus CWIP in rate base if applicable and Unamortized Abandoned Plant.
- F Project Depreciation Expense is the actual value booked for the project (excluding General and Intangible depreciation) at Attachment H-27A, page 3, line 19, plus amortization of Abandoned Plant at Attachment H-27A, page 3, line 21.
- G Requires approval by FERC of incentive return applicable to the specified project(s). Per the Commission's order in 158 FERC ¶ 61,060 at PP 32-35, SRE shall not recover a 50 basis point ROE incentive for the risks and challenges associated with the Artificial Island Project facilities, PJM Upgrade Projects b2633.1 and b2633.2.
- H The Competitive Concession is the reduction in revenue, if any, that the company agreed to, for instance, to be selected to build facilities as the result of a competitive process and equals the amount by which the annual revenue requirement is reduced from the ceiling rate.
- I True-Up Adjustment is calculated on the Project True-up Schedule for the relevant true-up year.
- J For each project listed on this Attachment 1 that is a Required Transmission Enhancement, the net revenue requirement shown in Column (16) is: (i) the annual transmission revenue requirement for purposes of determining the PJM OATT Schedule 12 Transmission Enhancement Charges associated with that Required Transmission Enhancement, and (ii) the Annual Revenue Requirement for purposes of Schedule 12, Appendix A for that Required Transmission Enhancement.

Attachment 15
NIPSCo Formula Rate for January 1, 2021 to December 31, 2021

Northern Indiana Public Service Company LLC

To be completed in conjunction with Attachment O.

Line No.	(1)	(2) Attachment O Page, Line, Col.	(3) Transmission	(4) Allocator
1	Gross Transmission Plant - Total	Attach O_9.24.20, p 2, line 2 col 5 (Note A)	1,938,718,520	
2	Net Transmission Plant - Total	Attach O_9.24.20, p 2, line 14 and 23b col 5 (Note A)	1,314,352,858	
	O&M EXPENSE			
3	Total O&M Allocated to Transmission	Attach O_9.24.20, p 3, line 8 col 5	43,128,528	
4	Annual Allocation Factor for O&M	(line 3 divided by line 1 col 3)	2.22%	2.22%
	GENERAL AND COMMON (G&C) DEPRECIATION EXPENSE			
5	Total G&C Depreciation Expense	Attach O_9.24.20, p 3, lines 10 & 11, col 5 (Note A)	3,629,727	
6	Annual Allocation Factor for G&C Depreciation Expense	(line 5 divided by line 1 col 3)	0.19%	0.19%
	TAXES OTHER THAN INCOME TAXES			
7	Total Other Taxes	Attach O_9.24.20, p 3, line 20 col 5	7,050,033	
8	Annual Allocation Factor for Other Taxes	(line 7 divided by line 1 col 3)	0.36%	0.36%
9	Annual Allocation Factor for Expense	Sum of line 4, 6, and 8		2.78%
	INCOME TAXES			
10	Total Income Taxes	Attach O_9.24.20, p 3, line 27 col 5	16,045,696	
11	Annual Allocation Factor for Income Taxes	(line 10 divided by line 2 col 3)	1.22%	1.22%
	RETURN			
12	Return on Rate Base	Attach O_9.24.20, p 3, line 28 col 5	86,029,185	
13	Annual Allocation Factor for Return on Rate Base	(line 12 divided by line 2 col 3)	6.55%	6.55%
14	Annual Allocation Factor for Return	Sum of line 11 and 13	7.77%	7.77%

Northern Indiana Public Service Company LLC

Network Upgrade Charge Calculation By Project

(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Line No.	Project Name	MTEP Project Number	Project Gross Plant	Annual Allocation Factor for Expense	Annual Expense Charge	Project Net Plant	Annual Allocation Factor for Return	Annual Return Charge	Project Depreciation Expense	Annual Revenue Requirement	True-Up Adjustment	Network Upgrade Charge
			(Note C)	(Page 1 line 9)	(Col. 3 * Col. 4)	(Note D)	(Page 1 line 14)	(Col. 6 * Col. 7)	(Note E)	(Sum Col. 5, 8 & 9)	(Note F)	Sum Col. 10 & 11 (Note G)
1a	MTEP07	612	\$ 5,766,738	2.78%	\$ 160,053	\$ 3,859,573	7.77%	\$ 299,741	\$ 158,448	\$ 618,242	\$ 16,133	\$ 634,375
1b	MTEP08	1551	\$ 4,410,237	2.78%	\$ 122,404	\$ 2,822,852	7.77%	\$ 219,227	\$ 136,536	\$ 478,168	\$ 12,638	\$ 490,806
1c	MTEP07	1615 GIP	\$ 771,335	2.78%	\$ 21,408	\$ 1,593,343	7.77%	\$ 123,742	\$ 14,796	\$ 159,946	\$ 11,894	\$ 171,840
1d	MTEP11	2322	\$ 9,263,742	2.78%	\$ 257,111	\$ 6,716,881	7.77%	\$ 521,644	\$ 254,760	\$ 1,033,516	\$ 29,019	\$ 1,062,535

Note
Letter

- A Gross Transmission Plant is that identified on Page 2 Line 2 of Attachment O and includes any sub lines 2a or 2b etc. and is inclusive of any CWIP included in rate base when authorized by FERC order less any prefunded AFUDC, if applicable.
- B Net Transmission Plant is that identified on Page 2 Line 14 of Attachment O and includes any sub lines 14a or 14b etc. and is inclusive of any CWIP included in rate base when authorized by FERC order less any prefunded AFUDC, if applicable.
- C Project Gross Plant is the total capital investment for the project calculated in the same method as the gross plant value in Line 1 and includes CWIP in rate base less any prefunded AFUDC, if applicable. This value includes subsequent capital investments required to maintain the facilities to their original capabilities.
- D Project Net Plant is the Project Gross Plant Identified in Column 3 less the associated Accumulated Depreciation.
- E Project Depreciation Expense is the actual value booked for the project and included in the Depreciation Expense in Attachment O Page 3 Line 12.
- F True-Up Adjustment is included pursuant to a FERC approved methodology, if applicable.
- G The Targeted Market Efficiency Project Charge is the value to be used in Schedule 26-C.
- H The Total General and Common Depreciation Expense excludes any depreciation expense directly associated with a project and thereby included in page 3 column 9.

Utilizing Attachment O Data

Targeted Market Efficiency Project Charge Calculation By Project

(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Line Efficiency No. Charge	Project Name	MTEP Project Number	Project Gross Plant	Annual Allocation Factor for Expense	Annual Expense Charge	Project Net Plant	Annual Allocation Factor for Return	Annual Return Charge	Project Depreciation Expense	Annual Revenue Requirement	True-Up Adjustment	Targeted Market Project
(Note C) (Page 1 line 9)				(Col. 3 * Col. 4)	(Note D) (Page 1 line 14)	(Col. 6 * Col. 7)	(Note E)	(Sum Col. 5, 8 & 9)	(Note F)	Sum Col. 10 & 11 (Note G)		
1a	MTEP17	14267	\$ 52,345	2.78%	\$ 1,453	\$ 50,665	7.77%	\$ 3,935	\$ 1,439	\$ 6,827	\$ -	\$ 6,827
1b	MTEP17	14264	\$ 6,827,479	2.78%	\$ 189,494	\$ 6,545,584	7.77%	\$ 508,341	\$ 187,756	\$ 885,591	\$ 60,822	\$ 946,413
1c	MTEP17	14266	\$ 6,412,796	2.78%	\$ 177,984	\$ 6,253,393	7.77%	\$ 485,649	\$ 148,126	\$ 811,760	\$ -	\$ 811,760
1d	MTEP17	14268	\$ 7,364,790	2.78%	\$ 204,407	\$ 7,220,311	7.77%	\$ 560,742	\$ 145,825	\$ 910,973	\$ -	\$ 910,973

Note
Letter

- A Gross Transmission Plant is that identified on Page 2 Line 2 of Attachment O and includes any sub lines 2a or 2b etc. and is inclusive of any CWIP included in rate base when authorized by FERC order less any prefunded AFUDC, if applicable.
- B Net Transmission Plant is that identified on Page 2 Line 14 of Attachment O and includes any sub lines 14a or 14b etc. and is inclusive of any CWIP included in rate base when authorized by FERC order less any prefunded AFUDC, if applicable.
- C Project Gross Plant is the total capital investment for the project calculated in the same method as the gross plant value in Line 1 and includes CWIP in rate base less any prefunded AFUDC, if applicable. This value includes subsequent capital investments required to maintain the facilities to their original capabilities.
- D Project Net Plant is the Project Gross Plant Identified in Column 3 less the associated Accumulated Depreciation.
- E Project Depreciation Expense is the actual value booked for the project and included in the Depreciation Expense in Attachment O Page 3 Line 12.
- F True-Up Adjustment is included pursuant to a FERC approved methodology, if applicable.
- G The Targeted Market Efficiency Project Charge is the value to be used in Schedule 26-C.
- H The Total General and Common Depreciation Expense excludes any depreciation expense directly associated with a project and thereby included in page 3 column 9.

Attachment 16

EL05-121 for January 1, 2021 to December 31, 2021



July 30, 2018

Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
888 First Street, NE
Washington, D.C. 20426

*Re: PJM Interconnection, L.L.C., Docket No. EL05-121-009 and ER18-2102-001
eTariff Compliance Filing for Schedule 12 and Schedule 12-Appendices*

Dear Secretary Bose:

On June 15, 2016, the Settling Parties¹ filed Settlement Agreement and Offer of Settlement (“Settlement”)² in the captioned matter for rates to become effective January 1, 2016. In the Order on Contested Settlement,³ the Federal Energy Regulatory Commission (“Commission”) approved the Settlement and directed PJM Interconnection, L.L.C. (“PJM”) to

¹ The “Settling Parties” are: American Electric Power Service Corporation, on behalf of its operating companies; Baltimore Gas and Electric Company, an Exelon Company; Blue Ridge Power Agency, Inc.; The Dayton Power and Light Company; Delaware Municipal Electric Corporation, Inc.; Duke Energy Business Services, LLC on behalf of Duke Energy Ohio, Inc. and Duke Energy Kentucky, Inc.; Duquesne Light Company; East Kentucky Power Cooperative, Inc.; Exelon Corporation as agent for Commonwealth Edison Company and PECO Energy Company; FirstEnergy Utilities On behalf of affiliates American Transmission Systems, Incorporated, The Cleveland Electric Illuminating Company, Jersey Central Power & Light Company, Metropolitan Edison Company, Ohio Edison Company, Monongahela Power Company, Pennsylvania Electric Company, Pennsylvania Power Company, The Potomac Edison Company, Toledo Edison Company, and West Penn Power Company; Illinois Commerce Commission; Indiana Utility Regulatory Commission; Michigan Public Service Commission; Pennsylvania Public Utility Commission; Pepco Holdings, LLC, an Exelon Company, and Potomac Electric Power Company, Delmarva Power & Light Company and Atlantic City Electric Company; PJM Interconnection, L.L.C.; PPL Electric Utilities Corporation; Public Service Commission of West Virginia; Public Utilities Commission of Ohio; and UGI Utilities, Inc. Additionally, the following parties have agreed to be listed in the Settlement as “NonOpposing Parties”: Consolidated Edison Company of New York, Inc.; Delaware Public Service Commission; Maryland Public Service Commission; New Jersey Board of Public Utilities; Old Dominion Electric Cooperative; PSEG Energy Resources & Trade LLC; Public Power Association of New Jersey; Public Service Electric and Gas Company; Public Service Commission of the District of Columbia; Rockland Electric Company; Virginia Electric and Power Company, DBA Dominion Virginia Power; and the Virginia State Corporation Commission.

² *PJM Interconnection, L.L.C.*, Offer of Settlement, Docket No. EL05-121-009 (June 15, 2016) (“Settlement”).

³ *PJM Interconnection, L.L.C.*, 163 FERC ¶ 61,168 (May 31, 2018) (“May 31 Order”).

submit the associated Tariff amendments by way of compliance eTariff records consistent with the *pro forma* tariff records included with the Settlement.⁴

Accordingly, in compliance with the May 31 Order, and pursuant to section 205 of the Federal Power Act⁵ and Part 35 of the Commission's rules and regulations,⁶ PJM submits amendments to the PJM Open Access Transmission Tariff ("Tariff") to add in eTariff format the *pro forma* tariff records to include a new Schedule 12-C, including Appendices A through C, as approved under the Settlement.⁷ In addition, consistent with section 2.2(c) of the Settlement, PJM submits amendments to Tariff, Schedule 12-Appendix to amend cost responsibility assignments for Covered Transmission Enhancements as described in detail below. PJM requests that these proposed amendments become effective January 1, 2016, as directed by the Commission in its May 31 Order.

I. DESCRIPTION OF FILING

A. Background

This filing follows years of litigation before the Commission under multiple dockets,⁸ two 7th Circuit Remand Orders⁹ and an established FERC hearing and settlement judge

⁴ In the May 31 Order, the Commission directed PJM to submit a compliance filing within 30 days of the Order or June 30, 2018. Pursuant to a motion for extension of time filed by PJM, the Commission extended the date to comply an additional 30 days to July 30, 2018. See *PJM Interconnection, L.L.C.*, Notice Granting Request for Extension of Time, Docket No. EL05-121-009 (June 13, 2018).

⁵ 16 U.S.C. § 824d.

⁶ 18 C.F.R. Part 35 (2018).

⁷ Due to e-Tariff restrictions, the proposed revisions to the PJM Tariff for Schedule 12-C Appendix B and Schedule 12-C Appendix C will be filed under separate cover using the same transmittal letter with the specified attachments corresponding to each filing because the version effective January 1, 2018 could not be submitted in the same filing in which the tariff record was initial created.

⁸ May 31 Order, PP 3 - 7.

⁹ See *Illinois Commerce Comm'n, et al. v. FERC*, 756 F.3d 556 (7th Cir. 2014); see also *Illinois Commerce Comm'n, et al. v. FERC*, 576 F.3d 470 (7th Cir. 2009), *reh'g and reh'g en banc denied* (Oct. 20, 2009).

proceeding¹⁰ to determine the appropriate cost allocation for new transmission facilities that operate at or above 500 kV (“Regional Facilities”)¹¹ and Necessary Lower Voltage Facilities¹² that PJM planned and approved before February 1, 2013, whose costs were allocated in accordance with the 100 percent load-ratio share method established in Opinion No. 494.¹³ Following seven settlement conferences convened by settlement judge Steven L. Sterner and attended by interested parties both in person and via teleconference, the Settling Parties submitted the Settlement on June 15, 2016 in Docket No. EL05-121-009 to take effect on the date the Commission approved the Settlement, i.e., May 31, 2018.

B. Description of New Schedule 12-C and Appendices to Implement the Settlement

The May 31 Order approved the *pro forma* tariff records included in the Settlement to add a new Schedule 12-C and three (3) appendices: (i) Appendix A (List of Covered Transmission Enhancements), (ii) Appendix B (Allocations for Canceled Projects) and (iii) Appendix C (Transmission Enhancement Charge (TEC) Adjustments – Monthly). Schedule 12-C sets forth the assignment of cost responsibility for Required Transmission Enhancements¹⁴ listed in Schedule 12-C Appendix A, as of January 1, 2016. Each Required Transmission Enhancement listed in Schedule 12-C Appendix A, is referred to as a “Covered Transmission

¹⁰ *PJM Interconnection, L.L.C.*, 149 FERC ¶ 61,233 (2014).

¹¹ Prior to 2013, Regional Facilities were defined to mean new transmission enhancements and expansions that will operate at or above 500 kV and are included in the upgrade to the RTEP approved by the PJM Board of Managers (“PJM Board”). PJM Tariff, Schedule 12 § (b)(i) (2010).

¹² Necessary Lower Voltage Facilities are defined as Required Transmission Enhancements included in the Regional Transmission Expansion Plan (“RTEP”) that are lower voltage facilities that must be constructed or reinforced to support new Regional Facilities.

¹³ *PJM Interconnection, L.L.C.*, Opinion No. 494, 119 FERC ¶ 61,063 (2007), *order on reh’g*, Opinion No. 494-A, 122 FERC ¶61,082 (2008).

¹⁴ “Required Transmission Enhancements” is defined in the Tariff in pertinent part to mean “enhancements and expansions of the transmission system that an [RTEP] developed pursuant to Schedule 6 of the Operating Agreement” See PJM Tariff, OATT Definitions – R-S.

Enhancement.” Covered Transmission Enhancements included in this Settlement that were canceled or abandoned before entering service are identified in Schedule 12-C Appendix A as a “Canceled Project.”¹⁵ Schedule 12-C contains different methods for recovery of costs incurred for Covered Transmission Enhancements.

1. Description of Proposed Amendments to Schedule 12-Appendix for the Going Forward Period Commencing January 1, 2016

In the May 31 Order, the Commission accepted under Schedule 12-C for the going-forward period (the period commencing January 1, 2016 onward) modifications to the cost allocation methodology for Covered Transmission Enhancements included in Tariff, Schedule 12-Appendix. Therefore, pursuant to the Settlement, section 2.2(c) (Current Recovery Charge), PJM is required to modify Schedule 12-Appendix to assign cost responsibility to Responsible Customers¹⁶ for each Covered Transmission Enhancement listed in Schedule 12-C Appendix A, based on the agreed-upon hybrid methodology in which: (i) 50 percent of the cost responsibility shall be assigned to Responsible Customers using the annual load-ratio share method;¹⁷ and (ii) 50 percent of the cost responsibility shall be assigned to Responsible Customers using: (A) for MAPP and PATH projects identified as Canceled Projects Schedule 12-C Appendix A, the cost assignments are set forth in Schedule 12-C Appendix B;¹⁸

¹⁵ The Allocations for those Canceled Projects are detailed in Schedule 12-C Appendix B. In addition, Schedule 12-Appendix contains allocations for Regional Facilities that are not listed in Schedule 12-C Appendix A and not revised in this filing as revenues were not collected for those canceled projects and those baseline upgrades will be removed from Schedule 12-Appendix in a subsequent clean-up filing.

¹⁶ “Responsible Customers” are defined to mean “customers using Point-to-Point Transmission Service and/or Network Integration Transmission Service and Merchant Transmission Facility owners that will be subject to each such Transmission Enhancement Charge. See Tariff, Schedule 12, § (b)(viii).

¹⁷ Tariff, Schedule 12 § (b)(i)(A)(1).

¹⁸ The Branchburg to Roseland to Hudson (“BRH”) project was not included in Schedule 12-C Appendix B because there were no abandonment costs after January 1, 2016.

or (B) for all other Covered Transmission Enhancements listed in Schedule 12-C Appendix A, the current effective solution-based DFAX method.¹⁹

In addition, the Tariff sheets reflect additional changes to address: (i) the 2017 and 2018 annual updates provided for under the Tariff for load-ratio share²⁰ and solution-based DFAX, where applicable;²¹ (ii) changes in cost allocations to Responsible Customers in 2017 due to the integration of MAIT,²² effective February 1, 2017; (iii) the elimination of cost responsibility to Consolidated Edison Company of New York, Inc. (“Con Edison”) due to termination of its long-term firm point-to-point transmission service agreements, effective May 1, 2017;²³ and (iv) changes in cost allocations to remaining Responsible Customers in 2018 due to termination of allocations to two Merchant Transmission Facilities, Linden VFT, LLC (“Linden”) and Hudson Transmission Partners, LLC (“HTP”), as a result of relinquishment of their Firm Transmission Withdrawal Rights, effective January 1, 2018.²⁴

¹⁹ Tariff, Schedule 12 § (b)(i)(A)(a).

²⁰ Tariff, Schedule 12 § (b)(i)(A).

²¹ Tariff, Schedule 12 § (b)(iii)(H)(2).

²² *PJM Interconnection, L.L.C.*, Amendments to PJM agreements and tariffs for integration of MAIT, Docket No. ER17-214-000 (Oct. 28, 2016) (this filing affected the Metropolitan Edison Company’s and Pennsylvania Electric Company’s eTariff records only).

²³ *PJM Interconnection, L.L.C.*, 159 FERC ¶ 62,310 (June 20, 2017).

²⁴ *PJM Interconnection, L.L.C.*, 162 FERC ¶ 61,197 (Mar. 5, 2018) (accepting annual updates including elimination of cost allocations to Linden and HTP, effective January 1, 2018); *see also PJM Interconnection, L.L.C.*, Compliance Filing, Docket No. ER18-680-000 (Jan. 19, 2018) (filing in compliance with the December 15, 2017 orders issued in Docket Nos. EL17-84-000 and EL17-90-000 to eliminate cost responsibility to Linden and HTP as a result of relinquishing their Firm Transmission Withdrawal Rights effective January 1, 2018). Based on requests for rehearing granted by the Commission in Docket Nos. ER18-579-000 and the outstanding issues in Docket No. ER18-680, the Commission issued an order on July 19, 2018 setting for settlement proceedings all Commission dockets specific to eliminating cost allocations to Hudson and Linden effective January 1, 2018 as a result of their relinquishment of their Firm Transmission Withdrawal Rights. *See Linden VFT, LLC v. PJM Interconnection, L.L.C.*, 164 FERC ¶ 61,034 (July 19, 2018).

2. *Description of Covered Transmission Enhancement Charge Adjustments for the Historical Period Prior to January 1, 2016*

For the historical period (the period prior to January 1, 2016) during which the costs of the Covered Transmission Enhancements were recovered using the 100 percent load-ratio share method approved in Opinion No. 494,²⁵ Schedule 12-C Appendix C provides for Covered Transmission Enhancement Charge Adjustments to the billing for Covered Transmission Enhancements through a schedule of credits or payments from Responsible Customers based on a negotiated schedule. Specifically, effective as of January 1, 2016 and continuing through December 31, 2025, in addition to the Current Recovery Charge detailed in B(1) above, PJM shall collect from or credit to Responsible Customers the Transmission Enhancement Charge Adjustments set forth in Appendix 12-C for each Zone and each Merchant Transmission Facility.

C. *Adjustments to Transmission Enhancement Charge Adjustments*

The Settlement provides that the Transmission Enhancement Charge Adjustments set forth in Schedule 12-C Appendix C may be adjusted only under two circumstances as detailed in section 2.2(e) of the Settlement. Consistent with that provision, PJM proposes to make the following adjustments to the Transmission Enhancement Charge Adjustments.

1. *Consistent with Section 2.2(e)(2) of the Settlement, PJM has Adjusted the Transmission Enhancement Charge Adjustments in Schedule 12-C Appendix C as a Result of Linden's and HTP's Relinquishment of their Firm Transmission Withdrawal Rights, Effective January 1, 2018.*

Section 2.2(e)(2) of the Settlement provides, *inter alia*, that if a Merchant Transmission Facility is no longer subject to Transmission Enhancements Charges under the Tariff during the period in which Transmission Enhancement Charge Adjustments are collected, the Responsible Customer shall not be subject to such Transmission Enhancement Charges during the portion of

²⁵ See *supra*, at 3, n. 12.

that period and payment from or credits to such Responsible Customer(s) shall cease. Section 2.2(e)(2) of the Settlement further provides that PJM shall adjust the Transmission Enhancement Charge Adjustments payable by and credited to other Responsible Customers on a *pro rata* basis so that if, for example, the Responsible Customers were required to make payments, then the payment obligation associated with such Responsible Customers will be allocated *pro rata* among all remaining Zones and Merchant Transmission Facilities in which Responsible Customers remain subject to Transmission Enhancement Charges and have payment obligations under this Schedule 12-C Appendix C.

Merchant Transmission Facilities, Linden (identified as East Coast Power) and HTP, were assigned cost responsibility for Transmission Enhancement Charge Adjustments under Schedule 12-C Appendix C. Given that Linden and HTP relinquished their Firm Transmission Withdrawal Rights, effective January 1, 2018, PJM adjusted, on a *pro rata* basis, allocations, commencing January 1, 2018, to all remaining Zones and Merchant Transmission having payment obligations under Schedule 12-C Appendix C.

2. *No Adjustments to Transmission Enhancement Charge Adjustments are Required at this time for the Canceled PATH Project.*

PJM has determined that no adjustment to the Transmission Enhancement Charge Adjustments is required under section 2.2(e)(1) of the Settlement, as implemented by section 4(c)(i)(1) of Schedule 12-C. That provision provides that if the Commission issues a final decision in Docket No. ER12-2708-003 “that is no longer subject to judicial review,” relating to the recovery of costs by the owners of the canceled Potomac Appalachian Transmission Highline (“PATH”) project, PJM must make the necessary adjustments to the Transmission Enhancement Charge Adjustments to ensure that the amounts recovered by Transmission Enhancement Charge

Adjustments with respect to that project “reflect only the amounts the Commission authorizes the owner(s) to recover prior to January 1, 2016.” On January 19, 2017, the Commission issued Opinion No. 554 in Docket No. ER12-2708-003, addressing the PATH project owners’ cost recovery.²⁶ Opinion No. 554 is pending on rehearing. Moreover, under Opinion No. 554, the Commission did not require the owners of the PATH project to adjust their collections for the period prior to January 1, 2016, but instead directed them to issue refunds with interest associated with the decision in Opinion No. 554 as prospective credits against charges recovered after the decision pursuant to the annual update process described in the project owners’ formula rate protocols.²⁷ The PATH project owners began providing those credits through the annual update mechanism in 2018.²⁸ Because Opinion No. 554 is not final and because the issuance of refunds as credits against future charges, in accordance that decision by the owners of the PATH project ensures that the Transmission Enhancement Adjustments reflect only the amounts the Commission authorizes them to recover prior to January 1, 2016, no adjustments are required under the Settlement, section 2.2(e)(1).

II. DOCUMENTS ENCLOSED

1. This transmittal letter;
2. Attachment A – Redlines of Schedule 12-C and Appendices and Schedule 12-Appendix, effective January 1, 2016 and forward; and
3. Attachment B – Clean Versions of Schedule 12-C and Appendices and Schedule 12-Appendix, effective January 1, 2016 and forward.

²⁶ *Potomac-Appalachian Transmission Highline, LLC*, Opinion No. 554, 158 FERC ¶ 61,050 (2017).

²⁷ *Id.* at PP 85-86.

²⁸ *See* Compliance Filing, Docket Nos. ER12-2708-005, *et al.* (filed March 20, 2017).

III. COMMUNICATIONS

The following individuals are designated for receipt of any communications regarding this filing:

Craig Glazer
Vice President – Federal Government Policy
PJM Interconnection, L.L.C. 1200
G Street, N.W. Suite 600
Washington, DC 20005
Ph: (202) 423-4743
Fax: (202) 393-7741
craig.glazer@pjm.com

Pauline Foley
Associate General Counsel
PJM Interconnection, L.L.C.
2750 Monroe Blvd.
Audubon, PA 19403
Ph: (610) 666-8248
Fax: (610) 666-8211
pauline.foley@pjm.com

IV. SERVICE

PJM has served a copy of this filing on all PJM Members and on all state utility regulatory commissions in the PJM Region by posting this filing electronically. In accordance with the Commission's regulations,²⁹ PJM will post a copy of this filing to the FERC filings section of its internet site, located at the following link: <http://www.pjm.com/documents/ferc-manuals/ferc-filings.aspx> with a specific link to the newly-filed document, and will send an e-mail on the same date as this filing to all PJM Members and all state utility regulatory commissions in the PJM Region³⁰ alerting them that this filing has been made by PJM and is available by following such link. If the document is not immediately available by using the referenced link, the document will be available through the referenced link within 24 hours of the filing. Also, a copy of this filing will be available on the FERC's eLibrary website located at the


²⁹ See 18C.F.R §§ 35.2(e) and 385.2010(f)(3) (2018).

³⁰ PJM already maintains, updates and regularly uses e-mail lists for all PJM Members and affected state commissions.

The Honorable Kimberly D. Bose, Secretary
PJM Interconnection, L.L.C.
July 30, 2018
Page 10

following link: <http://www.ferc.gov/docs-filing/elibrary.asp> in accordance with the
Commission's regulations and Order No. 714.

Respectfully submitted,

By: 
Pauline Foley
Associate General Counsel
PJM Interconnection, L.L.C.
2750 Monroe Blvd.
Audubon, PA 19403
Ph: (610) 666-8248
Fax: (610) 666-8211
pauline.foley@pjm.com

Craig Glazer
Vice President – Federal Government Policy
PJM Interconnection, L.L.C.
1200 G Street, N.W., Suite 600
Washington, D.C. 20005
Ph: (202) 423-4743
Fax: (202) 393-7741
craig.glazer@pjm.com

On behalf of PJM Interconnection, L.L.C.

Dated: July 30, 2018

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that I have this day caused to be served the foregoing document upon each person designated on the official service list compiled by the Secretary in this proceeding.

Dated at Audubon, PA, this 30th day of July, 2018.

By: _____



Pauline Foley
Associate General Counsel
PJM Interconnection, L.L.C.
2750 Monroe Blvd.
Audubon, PA 19403
Ph: (610) 666-8248
Fax: (610) 666-8211
pauline.foley@pjm.com

On behalf of PJM Interconnection, L.L.C.

Attachment A

Revisions to Schedule 12-C Appendices B and C
of the PJM Open Access Transmission Tariff

(Marked / Redline Format)

SCHEDULE 12-C APPENDIX B***Allocations for Canceled Projects***

	<u>PATH</u>	<u>MAPP</u>
AEC	4.99 <u>5.01</u> %	3.94%
AEP	4.37 <u>4.39</u> %	0.00%
APS	9.22 <u>9.26</u> %	0.33%
ATSI	0.00%	0.00%
BGE	4.41 <u>4.43</u> %	34.52 <u>34.54</u> %
ComEd	0.00%	0.00%
Coned	0.00%	0.00%
Dayton	0.00%	0.00%
DEOK	0.00%	0.00%
DL	0.02%	0.00%
DPL	6.88 <u>6.91</u> %	14.68 <u>14.69</u> %
Dominion	10.77 <u>10.82</u> %	0.30%
EKPC	0.00%	0.00%
HTP	0.00%	0.00%
JCPL	11.59 <u>11.64</u> %	9.43%
ME	2.93 <u>2.94</u> %	2.16%
Neptune	1.11 <u>1.12</u> %	0.90%
PECO	14.45 <u>14.51</u> %	10.51 <u>10.52</u> %
PENELEC	0.00%	0.00%
PEPCO	6.08 <u>6.11</u> %	2.44%
PPL	6.36 <u>6.39</u> %	5.50%
PSEG	15.79 <u>15.86</u> %	14.37 <u>14.71</u> %
RE	0.59%	0.54%
UGI	0.00%	0.00%
ECP	0.44 <u>0.00</u> %	0.38 <u>0.00</u> %
TOTAL	100.00%	100.00%

Note: The above percentages apply to 50% of the responsibility to pay the Transmission Enhancement Charges for the identified Canceled Projects in accordance with section 3.b.ii.(2) of Schedule 12-C.

SCHEDULE 12-C APPENDIX C
TRANSMISSION ENHANCEMENT CHARGE ADJUSTMENTS
(Effective January 1, ~~2016~~2018)

Zone or MTF	TEC Adjustment Years 1-4 Without PATH	TEC Adjustment Years 1-4 PATH Only	Total TEC Adjustment Years 1 through 4	TEC Adjustment Years 5-10 Without PATH	TEC Adjustment Years 5-10 PATH Only	Total TEC Adjustment Years 5 through 10
AE	-\$24,860.09 -\$25,237.09	\$47,899.66 \$48,626.05	\$23,039.57 \$23,388.96	-\$10,418.79 -\$10,576.79	\$20,074.61 \$20,379.04	\$9,655.82 \$9,802.25
AEP	-\$2,444,812.18	-\$174,489.11	-\$2,619,301.30	-\$1,024,614.00	-\$73,127.90	-\$1,097,741.90
APS	\$954,922.88 \$969,404.16	\$52,440.01 \$53,235.26	\$1,007,362.89 \$1,022,639.42	\$400,205.53 \$406,274.59	\$21,977.46 \$22,310.75	\$422,182.99 \$428,585.34
ATSI	-\$1,093,902.38	-\$72,438.56	-\$1,166,340.94	-\$458,451.45	-\$30,358.80	-\$488,810.25
BGE	\$1,281,971.91 \$1,301,412.84	-\$2,640.98 -\$2,681.03	\$1,279,330.93 \$1,298,731.81	\$537,270.87 \$545,418.51	-\$1,106.83 -\$1,123.61	\$536,164.04 \$544,294.90
ComEd	-\$2,608,103.66	-\$221,693.57	-\$2,829,797.23	-\$1,093,049.01	-\$92,911.16	-\$1,185,960.17
ConEd	-\$70,904.37	-\$4,688.81	-\$75,593.18	-\$29,715.83	-\$1,965.07	-\$31,680.89
Dayton	-\$375,384.08	-\$34,767.87	-\$410,151.95	-\$157,322.42	-\$14,571.12	-\$171,893.54
Duke OH/KY	-\$302,715.79	-\$20,247.63	-\$322,963.42	-\$126,867.35	-\$8,485.73	-\$135,353.07
Duquesne	-\$318,588.72	-\$28,822.02	-\$347,410.74	-\$133,519.65	-\$12,079.23	-\$145,598.88
Delmarva DE	-\$157,754.97	\$37,622.55	-\$120,132.43	-\$66,114.67	\$15,767.50	-\$50,347.17
Delmarva MD	-\$97,639.85	\$22,956.13	-\$74,683.72	-\$40,920.59	\$9,620.85	-\$31,299.74
Delmarva VA	-\$13,369.07	\$3,188.35	-\$10,180.71	-\$5,602.94	\$1,336.23	-\$4,266.71
Dominion	\$2,548,417.01 \$2,587,063.40	-\$29,708.12 \$30,158.64	\$2,518,708.88 \$2,556,904.76	\$1,068,034.50 \$1,084,231.09	-\$12,450.59 -\$12,639.40	\$1,055,583.90 \$1,071,591.69
EKPC	-\$88,156.35	-\$3,920.00	-\$92,076.35	-\$36,946.08	-\$1,642.86	-\$38,588.94
HTP	\$67,459.71 \$0.00	-\$392.30 \$0.00	\$67,067.41 \$0.00	\$28,272.18 \$0.00	-\$164.41 \$0.00	\$28,107.76 \$0.00
JCPL	\$684,836.11 \$695,221.56	\$113,570.16 \$115,292.43	\$798,406.27 \$810,513.99	\$287,012.91 \$291,365.43	\$47,596.94 \$48,318.74	\$334,609.85 \$339,684.16
MedEd	-\$290,626.73	\$14,498.19	-\$276,128.54	-\$121,800.86	\$6,076.15	-\$115,724.70
Neptune	\$63,553.63 \$64,517.41	\$10,067.97 \$10,220.65	\$73,621.60 \$74,738.06	\$26,635.15 \$27,039.07	\$4,219.46 \$4,283.45	\$30,854.61 \$31,322.51
PECO	-\$766,990.16	\$132,927.71	-\$634,062.44	-\$321,443.45	\$55,709.64	-\$265,733.81
Penelec	-\$224,425.28	-\$30,009.25	-\$254,434.53	-\$94,056.01	-\$12,576.79	-\$106,632.80
PEPCO DC	\$787,856.55 \$799,804.28	\$9,072.91 \$9,210.50	\$796,929.46 \$809,014.78	\$330,188.49 \$335,195.76	\$3,802.43 \$3,860.10	\$333,990.92 \$339,055.85
PEPCO MD	\$1,145,526.02 \$1,162,897.77	\$13,215.00 \$13,415.41	\$1,158,741.03 \$1,176,313.18	\$480,086.78 \$487,367.23	\$5,538.37 \$5,622.36	\$485,625.15 \$492,989.59
PEPCO SMECO	\$273,479.45 \$277,626.73	\$3,154.91 \$3,202.75	\$276,634.36 \$280,829.48	\$114,614.48 \$116,352.59	\$1,322.21 \$1,342.27	\$115,936.69 \$117,694.86
PPL EU	-\$786,877.08	\$20,174.85	-\$766,702.23	-\$329,778.00	\$8,455.23	-\$321,322.78
PPL UGI	-\$40.31	\$0.00	-\$40.31	-\$16.89	\$0.00	-\$16.89
PSEG	\$1,713,725.35 \$1,739,713.76	\$135,477.48 \$137,531.98	\$1,849,202.83 \$1,877,245.74	\$718,217.54 \$729,109.21	\$56,778.24 \$57,639.27	\$774,995.77 \$786,748.48
Rockland	\$63,940.65 \$64,910.31	\$4,698.27 \$4,769.52	\$68,638.92 \$69,679.82	\$26,797.35 \$27,203.73	\$1,969.03 \$1,998.89	\$28,766.38 \$29,202.62
East Coast Power	\$79,461.78 \$0.00	\$2,854.08 \$0.00	\$82,315.86 \$0.00	\$33,302.21 \$0.00	\$1,196.14 \$0.00	\$34,498.35 \$0.00

Attachment B

Revisions to Schedule 12-C Appendices B and C
of the PJM Open Access Transmission Tariff

(Clean Format)

SCHEDULE 12-C APPENDIX B***Allocations for Canceled Projects***

	<u><i>PATH</i></u>	<u><i>MAPP</i></u>
<i>AEC</i>	5.01%	3.94%
<i>AEP</i>	4.39%	0.00%
<i>APS</i>	9.26%	0.33%
<i>ATSI</i>	0.00%	0.00%
<i>BGE</i>	4.43%	34.54%
<i>ComEd</i>	0.00%	0.00%
<i>Coned</i>	0.00%	0.00%
<i>Dayton</i>	0.00%	0.00%
<i>DEOK</i>	0.00%	0.00%
<i>DL</i>	0.02%	0.00%
<i>DPL</i>	6.91%	14.69%
<i>Dominion</i>	10.82%	0.30%
<i>EKPC</i>	0.00%	0.00%
<i>HTP</i>	0.00%	0.00%
<i>JCPL</i>	11.64%	9.43%
<i>ME</i>	2.94%	2.16%
<i>Neptune</i>	1.12%	0.90%
<i>PECO</i>	14.51%	10.52%
<i>PENELEC</i>	0.00%	0.00%
<i>PEPCO</i>	6.11%	2.44%
<i>PPL</i>	6.39%	5.50%
<i>PSEG</i>	15.86%	14.71%
<i>RE</i>	0.59%	0.54%
<i>UGI</i>	0.00%	0.00%
<i>ECP</i>	0.00%	0.00%
<i>TOTAL</i>	100.00%	100.00%

Note: The above percentages apply to 50% of the responsibility to pay the Transmission Enhancement Charges for the identified Canceled Projects in accordance with section 3.b.ii.(2) of Schedule 12-C.

SCHEDULE 12-C APPENDIX C

TRANSMISSION ENHANCEMENT CHARGE ADJUSTMENTS

(Effective January 1, 2018)

Zone or MTF	TEC Adjustment Years 1-4 Without PATH	TEC Adjustment Years 1-4 PATH Only	Total TEC Adjustment Years 1 through 4	TEC Adjustment Years 5-10 Without PATH	TEC Adjustment Years 5-10 PATH Only	Total TEC Adjustment Years 5 through 10
AE	-\$25,237.09	\$48,626.05	\$23,388.96	-\$10,576.79	\$20,379.04	\$9,802.25
AEP	-\$2,444,812.18	-\$174,489.11	-\$2,619,301.30	-\$1,024,614.00	-\$73,127.90	-\$1,097,741.90
APS	\$969,404.16	\$53,235.26	\$1,022,639.42	\$406,274.59	\$22,310.75	\$428,585.34
ATSI	-\$1,093,902.38	-\$72,438.56	-\$1,166,340.94	-\$458,451.45	-\$30,358.80	-\$488,810.25
BGE	\$1,301,412.84	-\$2,681.03	\$1,298,731.81	\$545,418.51	-\$1,123.61	\$544,294.90
ComEd	-\$2,608,103.66	-\$221,693.57	-\$2,829,797.23	-\$1,093,049.01	-\$92,911.16	-\$1,185,960.17
ConEd	-\$70,904.37	-\$4,688.81	-\$75,593.18	-\$29,715.83	-\$1,965.07	-\$31,680.89
Dayton	-\$375,384.08	-\$34,767.87	-\$410,151.95	-\$157,322.42	-\$14,571.12	-\$171,893.54
Duke OH/KY	-\$302,715.79	-\$20,247.63	-\$322,963.42	-\$126,867.35	-\$8,485.73	-\$135,353.07
Duquesne	-\$318,588.72	-\$28,822.02	-\$347,410.74	-\$133,519.65	-\$12,079.23	-\$145,598.88
Delmarva DE	-\$157,754.97	\$37,622.55	-\$120,132.43	-\$66,114.67	\$15,767.50	-\$50,347.17
Delmarva MD	-\$97,639.85	\$22,956.13	-\$74,683.72	-\$40,920.59	\$9,620.85	-\$31,299.74
Delmarva VA	-\$13,369.07	\$3,188.35	-\$10,180.71	-\$5,602.94	\$1,336.23	-\$4,266.71
Dominion	\$2,587,063.40	-\$30,158.64	\$2,556,904.76	\$1,084,231.09	-\$12,639.40	\$1,071,591.69
EKPC	-\$88,156.35	-\$3,920.00	-\$92,076.35	-\$36,946.08	-\$1,642.86	-\$38,588.94
HTP	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
JCPL	\$695,221.56	\$115,292.43	\$810,513.99	\$291,365.43	\$48,318.74	\$339,684.16
MedEd	-\$290,626.73	\$14,498.19	-\$276,128.54	-\$121,800.86	\$6,076.15	-\$115,724.70
Neptune	\$64,517.41	\$10,220.65	\$74,738.06	\$27,039.07	\$4,283.45	\$31,322.51
PECO	-\$766,990.16	\$132,927.71	-\$634,062.44	-\$321,443.45	\$55,709.64	-\$265,733.81
Penelec	-\$224,425.28	-\$30,009.25	-\$254,434.53	-\$94,056.01	-\$12,576.79	-\$106,632.80
PEPCO DC	\$799,804.28	\$9,210.50	\$809,014.78	\$335,195.76	\$3,860.10	\$339,055.85
PEPCO MD	\$1,162,897.77	\$13,415.41	\$1,176,313.18	\$487,367.23	\$5,622.36	\$492,989.59
PEPCO SMECO	\$277,626.73	\$3,202.75	\$280,829.48	\$116,352.59	\$1,342.27	\$117,694.86
PPL EU	-\$786,877.08	\$20,174.85	-\$766,702.23	-\$329,778.00	\$8,455.23	-\$321,322.78
PPL UGI	-\$40.31	\$0.00	-\$40.31	-\$16.89	\$0.00	-\$16.89
PSEG	\$1,739,713.76	\$137,531.98	\$1,877,245.74	\$729,109.21	\$57,639.27	\$786,748.48
Rockland	\$64,910.31	\$4,769.52	\$69,679.82	\$27,203.73	\$1,998.89	\$29,202.62
East Coast Power	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00