

Formula Rate - Non-Levelized

Rate Formula Template
Utilizing FERC Form 1 Data

For the 12 months ended 12/31/2019

Mid-Atlantic Interstate Transmission, LLC

Line No.	(1)	(2)	(3)	(4)	(5)
			Total	Allocator	Allocated Amount
1	GROSS REVENUE REQUIREMENT [page 3, line 43, col 5]				\$ 207,489,224
	REVENUE CREDITS	(Note T)			
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)	1,415,884	TP 1.00000	1,415,884
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	14,922,370	TP 1.00000	14,922,370
8	TOTAL REVENUE CREDITS (sum lines 2-7)		20,099,342		20,099,342
9	True-up Adjustment with Interest	Attachment 13, Line 28			(14,066,555)
10	NET REVENUE REQUIREMENT	(Line 1 - Line 8 + Line 9)			\$ 173,323,326
	DIVISOR				Total
11	1 Coincident Peak (CP) (MW)			(Note A)	6,019.0
12	Average 12 CPs (MW)			(Note CC)	5,187.2
13	Annual Rate (\$/MW/Yr)	(line 10 / line 11)	Total 28,796.22		
			Peak Rate		Off-Peak Rate
14	Point-to-Point Rate (\$/MW/Year)	(line 10 / line 12)	Total 33,413.94		Total 33,413.94
15	Point-to-Point Rate (\$/MW/Month)	(line 14/12)	2,784.49		2,784.49
16	Point-to-Point Rate (\$/MW/Week)	(line 14/52)	642.58		642.58
17	Point-to-Point Rate (\$/MW/Day)	(line 16/5; line 16/7)	128.52		91.80
18	Point-to-Point Rate (\$/MWh)	(line 14/4,160; line 14/8,760)	8.03		3.81

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Line No.	(1)	(2)	(3)	(4)	(5)
		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)	1,579,600,454	TP	1,579,600,454
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)	34,881,314	W/S	34,881,314
5	Common	Attachment 3, Line 14, Col. 6 (Notes U & X)	-	CE	-
6	TOTAL GROSS PLANT (sum lines 1-5)		<u>1,614,481,768</u>	GP=	<u>1,614,481,768</u>
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)	338,922,040	TP	338,922,040
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)	8,278,164	W/S	8,278,164
11	Common	Attachment 4, Line 14, Col. 6 (Notes U & X)	-	CE	-
12	TOTAL ACCUM. DEPRECIATION (sum lines 7-11)		<u>347,200,204</u>		<u>347,200,204</u>
NET PLANT IN SERVICE					
13	Production	(line 1 - line 7)	-		-
14	Transmission	(line 2 - line 8)	1,240,678,415		1,240,678,415
15	Distribution	(line 3 - line 9)	-		-
16	General & Intangible	(line 4 - line 10)	26,603,150		26,603,150
17	Common	(line 5 - line 11)	-		-
18	TOTAL NET PLANT (sum lines 13-17)		<u>1,267,281,564</u>	NP=	<u>1,267,281,564</u>
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)	(269,526,312)	NP	(269,526,312)
21	Account No. 283 (enter negative)	Attachment 5, Line 3, Col. 3 (Notes F & Y & DD)	5,111,518	NP	5,111,518
22	Account No. 190	Attachment 5, Line 3, Col. 4 (Notes F & Y & DD)	4,902,293	NP	4,902,293
23	Account No. 255 (enter negative)	Attachment 5, Line 3, Col. 5 (Notes F & Y & DD)	-	NP	-
24	Unfunded Reserve Plant-related (enter negative)	Attachment 14, Line 9, Col. G (Note Y)	-	DA	-
25	Unfunded Reserve Labor-related (enter negative)	Attachment 14, Line 10, Col. G (Note Y)	-	DA	-
26	CWIP	216.b (Notes X & Z)	-	DA	-
27	Unamortized Regulatory Asset	Attachment 16a, 16b, 16c, line 15, Col. 7 (Notes X)	3,679,597	DA	3,679,597
28	Unamortized Abandoned Plant	Attachment 17, Line 15, Col. 7 (Notes X & BB)	-	DA	-
29	TOTAL ADJUSTMENTS (sum lines 19-28)		<u>(255,832,905)</u>		<u>(255,832,905)</u>
30	LAND HELD FOR FUTURE USE	214.x.d (Attachment 14, Line 1, Col. D) (Notes G & Y)	-	TP	-
31	WORKING CAPITAL (Note H)				
32	CWC	1/8*(Page 3, Line 15 minus Page 3, Lines 11 & 12)	8,554,467		8,278,551
33	Materials & Supplies (Note G)	227.8.c & .16.c (Attachment 14, Line 2, Col. D) (Note Y)	-	TE	-
34	Prepayments (Account 165)	111.57.c (Attachment 14, Line 3, Col. D) (Notes B & Y)	<u>692,368</u>	GP	<u>692,368</u>
35	TOTAL WORKING CAPITAL (sum lines 32 - 34)		<u>9,246,835</u>		<u>8,970,919</u>
36	RATE BASE (sum lines 18, 29, 30, & 35)		<u>1,020,695,494</u>		<u>1,020,419,578</u>

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For the 12 months ended 12/31/2019

Line No.	(1)	(2)	(3)	(4)	(5)	
	Source	Company Total	Allocator	Transmission (Col 3 times Col 4)		
O&M						
1	Transmission	321.112.b (Attachment 20, page 1, line 112)	68,635,041	TE	0.96784	66,427,713
2	Less LSE Expenses Included in Transmission O&M Accounts (Note W)		222,000	DA	1.00000	222,000
3	Less Account 565	321.96.b	-	DA	1.00000	-
4	Less Account 566	321.97.b	6,270,722	DA	1.00000	6,270,722
5	A&G	323.197.b (Attachment 20, page 2, line 197)	(89,854)	W/S	1.00000	(89,854)
6	Less FERC Annual Fees		-	W/S	1.00000	-
7	Less EPRI & Reg. Comm. Exp. & Non-safety Ad. (Note I)		-	W/S	1.00000	-
8	Plus Transmission Related Reg. Comm. Exp. (Note I)		-	TE	0.96784	-
9	PBOP Expense Adjustment in Year	Attachment 6, Line 9	(747,859)	DA	1.00000	(747,859)
10	Common	356.1	-	CE	1.00000	-
11	Account 407.3 Amortization of Regulatory Assets	Attachment 16a, 16b, 16c, Line 15, Col. 5	860,406	DA	1.00000	860,406
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	6,270,722	DA	1.00000	6,270,722
14	Total Account 566 (sum lines 12 & 13, ties to 321.97.b)		6,270,722			6,270,722
15	TOTAL O&M (sum lines 1, 5, 8, 9, 10, 11, 14 less 2, 3, 4, 6, 7)		68,435,734			66,228,405
DEPRECIATION AND AMORTIZATION EXPENSE						
16	Transmission	336.7.b (Note U)	35,306,592	TP	1.00000	35,306,592
17	General & Intangible	336.1.f & 336.10.f (Note U)	1,014,344	W/S	1.00000	1,014,344
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)		36,320,936			36,320,936
TAXES OTHER THAN INCOME TAXES (Note J)						
LABOR RELATED						
21	Payroll	263.i (Attachment 7, line 1z)	443,868	W/S	1.00000	443,868
22	Highway and vehicle	263.i (Attachment 7, line 2z)	-	W/S	1.00000	-
PLANT RELATED						
24	Property	263.i (Attachment 7, line 3z)	76,332	GP	1.00000	76,332
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)		520,200			520,200
INCOME TAXES (Note K)						
29	T=1 - [(1 - SIT) * (1 - FIT)] / (1 - SIT * FIT * p) =		28.89%			
30	CIT=(T/1-T) * (1-(WCLTD/R)) = where WCLTD=(page 4, line 22) and R=(page 4, line 25) and FIT, SIT & p are as given in footnote K.		31.38%			
31	1 / (1 - T) = (from line 29)		1.4063			
32	Amortized Investment Tax Credit (266.8.f) (enter negative)		(140,188)			
33	Tax Effect of Permanent Differences and AFUDC Equity (Attachment 15, Line 1, Col. 3) [Notes D & Y]		289,181			
34	(Excess)/Deficient Deferred Income Taxes (Attachment 15, Lines 2 & 3, Col. 3) [Notes E & Y]		(333,725)			
35	Income Tax Calculation = line 30 * line 40		25,007,455	NA		25,000,695
36	ITC adjustment (line 31 * line 32)		(197,148)	NP	1.00000	(197,148)
37	Permanent Differences and AFUDC Equity Tax Adjustment (line 31 * line 33)		406,679	DA	1.00000	406,679
38	(Excess)/Deficient Deferred Income Tax Adjustment (line 31 * line 34)		(469,322)	DA	1.00000	(469,322)
39	Total Income Taxes	sum lines 35 through 38	24,747,664			24,740,904
40	RETURN	[Rate Base (page 2, line 36) * Rate of Return (page 4, line 25)]	79,700,324.33	NA		79,678,780
GROSS REV. REQUIREMENT (WITHOUT INCENTIVE)						
41	INCENTIVE)	(sum lines 15, 20, 28, 39, 40)	209,724,858			207,489,224
42	ADDITIONAL INCENTIVE REVENUE	Attachment 11, page 2, line 4, col 11 (Note AA)	0			0
43	GROSS REV. REQUIREMENT	(line 41 + line 42)	209,724,858			207,489,224

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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)					1,579,600,454
2	Less transmission plant excluded from ISO rates (Note M)					-
3	<u>Less transmission plant included in OATT Ancillary Services (Note N)</u>					-
4	Transmission plant included in ISO rates (line 1 less lines 2 & 3)					1,579,600,454
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)					68,635,041
7	<u>Less transmission expenses included in OATT Ancillary Services (Note L)</u>					2,207,329
8	Included transmission expenses (line 6 less line 7)					66,427,713
9	Percentage of transmission expenses after adjustment (line 8 divided by line 6)					0.96784
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=	0.96784
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)
18	Gas 201.3.d	-			1.00000 *	1.00000
19	Water 201.3.e	-				=
20	Total (sum lines 17 - 19)	-				CE 1.00000
RETURN (R)						
21	Preferred Dividends (118.29c) (positive number)					-
REVENUE CREDITS						
ACCOUNT 447 (SALES FOR RESALE)						
26	a. Bundled Non-RQ Sales for Resale (311.x.h)	(310-311)	(Note Q)			-
27	<u>b. Bundled Sales for Resale included in Divisor on page 1</u>					-
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)			1,415,884
WCLTD						
22	Long Term Debt (112.24.c) (Attachment 8, Line 14, Col. 7) (Note X)	\$	(Note C)	Cost	Weighted	
			%	(Note P)		
23	Preferred Stock (112.3d) (Attachment 8, Line 14, Col. 2) (Note X)	507,592,634	41%	0.0429	0.0178	=WCLTD
24	Common Stock (Attachment 8, Line 14, Col. 6) (Note X)	-	0%	0.0000	0.0000	
25	Total (sum lines 22-24)	716,790,172	59%	0.1030	0.0603	
		1,224,382,805			0.0781	=R

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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 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% |
| | p = | (State Income Tax Rate or Composite SIT)
(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 it 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	\$ 2,207,329	Attachment H-28A, Page 4, Line 7
2	77,720	Revenue Credits for Sched 1A - Note A
3	\$ 2,129,609	Net Schedule 1A Expenses (Line 1 - Line 2)
4	32,533,857	Annual MWh in Met-Ed and Penelec Zones - Note B
5	\$ 0.0655	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	1,020,419,578	
2	Preferred Dividends	enter positive	0	
Common Stock				
3	Proprietary Capital	Attachment 8, Line 14, Col. 1	940,382,142	
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	716,790,172	
Capitalization				
8	Long Term Debt	Attachment H-28A, page 4, Line 22, Col. 3	507,592,634	
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	716,790,172	
11	Total Capitalization	Attachment H-28A, page 4, Line 25, Col. 3	1,224,382,805	
12	Debt %	Total Long Term Debt	Attachment H-28A, page 4, Line 22, Col. 4	41.4570%
13	Preferred %	Preferred Stock	Attachment H-28A, page 4, Line 23, Col. 4	0.0000%
14	Common %	Common Stock	Attachment H-28A, page 4, Line 24, Col. 4	58.5430%
15	Debt Cost	Total Long Term Debt	Attachment H-28A, page 4, Line 22, Col. 5	0.0429
16	Preferred Cost	Preferred Stock	Attachment H-28A, page 4, Line 23, Col. 5	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)	0.0178
19	Weighted Cost of Preferred	Preferred Stock	(Line 13 * Line 16)	0.0000
20	Weighted Cost of Common	Common Stock	(Line 14 * Line 17)	0.0603
21	Rate of Return on Rate Base (ROR)		(Sum Lines 18 to 20)	0.0781
22	Investment Return = Rate Base * Rate of Return		(Line 1 * Line 21)	79,678,780

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	31.38%
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	(140,188.00)
27	Tax Effect of Permanent Differences and AFUDC Equity	Attachment H-28A, page 3, Line 33, Col. 3	289,180.87
28	(Excess)/Deficient Deferred Income Taxes	Attachment H-28A, page 3, Line 34, Col. 3	(333,724.86)
29	Income Tax Calculation	(line 22 * line 24)	25,000,695.09
30	ITC adjustment	(line 25 * line 26)	(197,148.28)
31	Permanent Differences and AFUDC Equity Tax Adjustment	Attachment H-28A, page 3, Line 37, Col. 3	406,678.96
32	(Excess)/Deficient Deferred Income Tax Adjustment	Attachment H-28A, page 3, Line 38, Col. 3	(469,321.78)
33	Total Income Taxes	Sum lines 29 to 32	24,740,904.00

Increased Return and Taxes			
34	Return and Income taxes with increase in ROE	(Line 22 + Line 33)	104,419,683.60
35	Return without incentive adder	Attachment H-28A, Page 3, Line 40, Col. 5	79,678,779.61
36	Income Tax without incentive adder	Attachment H-28A, Page 3, Line 39, Col. 5	24,740,904.00
37	Return and Income taxes <u>without</u> increase in ROE	Line 35 + Line 36	104,419,683.60
38	Return and Income taxes with increase in ROE	Line 34	104,419,683.60
39	Incremental Return and incomes taxes for increase in ROE	Line 38 - Line 37	-
40	Rate Base	Line 1	1,020,419,577.97
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 12/31/2019

		[1]	[2]	[3]	[4]	[5]	[6]	[7]
		Production	Transmission	Distribution	Intangible	General	Common	Total
1	December 2018	-	1,447,398,860	-	349,203	27,323,820	-	1,475,071,883
2	January 2019	-	1,468,504,659	-	349,203	27,363,741	-	1,496,217,603
3	February 2019	-	1,471,920,129	-	349,203	27,380,041	-	1,499,649,373
4	March 2019	-	1,524,030,429	-	349,203	27,386,348	-	1,551,765,980
5	April 2019	-	1,544,332,959	-	349,203	27,389,681	-	1,572,071,843
6	May 2019	-	1,579,182,702	-	349,203	28,813,364	-	1,608,345,269
7	June 2019	-	1,602,982,890	-	349,203	28,816,509	-	1,632,148,602
8	July 2019	-	1,612,689,308	-	349,203	39,642,590	-	1,652,681,101
9	August 2019	-	1,614,976,458	-	349,203	39,674,769	-	1,655,000,430
10	September 2019	-	1,624,351,632	-	349,203	42,259,156	-	1,666,959,992
11	October 2019	-	1,633,116,493	-	349,203	42,262,657	-	1,675,728,354
12	November 2019	-	1,635,594,054	-	349,203	42,277,193	-	1,678,220,450
13	December 2019	-	1,775,725,333	-	349,203	48,327,566	-	1,824,402,102
14	13-month Average [A] [C]	-	1,579,600,454.31	-	349,203.31	34,532,110.36	-	1,614,481,767.98
		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 2018	-	1,447,410,514	-	349,203	27,323,820	-	1,475,083,538
16	January 2019	-	1,468,516,313	-	349,203	27,363,741	-	1,496,229,257
17	February 2019	-	1,471,931,784	-	349,203	27,380,041	-	1,499,661,028
18	March 2019	-	1,524,042,083	-	349,203	27,386,348	-	1,551,777,635
19	April 2019	-	1,544,344,614	-	349,203	27,389,681	-	1,572,083,498
20	May 2019	-	1,579,194,356	-	349,203	28,813,364	-	1,608,356,924
21	June 2019	-	1,602,994,545	-	349,203	28,816,509	-	1,632,160,257
22	July 2019	-	1,612,700,962	-	349,203	39,642,590	-	1,652,692,755
23	August 2019	-	1,614,988,112	-	349,203	39,674,769	-	1,655,012,085
24	September 2019	-	1,624,363,287	-	349,203	42,259,156	-	1,666,971,646
25	October 2019	-	1,633,128,148	-	349,203	42,262,657	-	1,675,740,009
26	November 2019	-	1,635,605,709	-	349,203	42,277,193	-	1,678,232,105
27	December 2019	-	1,775,736,988	-	349,203	48,327,566	-	1,824,413,757
28	13-month Average	-	1,579,612,108.77	-	349,203.31	34,532,110.36	-	1,614,493,422.44

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 2018	-	-	11,654	-	-	-	-
30	January 2019	-	-	11,654	-	-	-	-
31	February 2019	-	-	11,654	-	-	-	-
32	March 2019	-	-	11,654	-	-	-	-
33	April 2019	-	-	11,654	-	-	-	-
34	May 2019	-	-	11,654	-	-	-	-
35	June 2019	-	-	11,654	-	-	-	-
36	July 2019	-	-	11,654	-	-	-	-
37	August 2019	-	-	11,654	-	-	-	-
38	September 2019	-	-	11,654	-	-	-	-
39	October 2019	-	-	11,654	-	-	-	-
40	November 2019	-	-	11,654	-	-	-	-
41	December 2019	-	-	11,654	-	-	-	-
42	13-month Average	-	-	11,654.46	-	-	-	-

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

For the 12 months ended 12/31/2019

		[1]	[2]	[3]	[4]	[5]	[6]	[7]
		Production	Transmission	Distribution	Intangible	General	Common	Total
1	December 2018	-	341,987,287	-	33,051	8,206,798	-	350,227,135
2	January 2019	-	341,689,427	-	37,209	8,263,769	-	349,990,405
3	February 2019	-	342,380,628	-	41,368	8,322,395	-	350,744,391
4	March 2019	-	339,731,326	-	45,526	8,381,685	-	348,158,536
5	April 2019	-	339,156,589	-	49,684	8,441,176	-	347,647,449
6	May 2019	-	338,434,888	-	58,001	8,479,838	-	346,972,728
7	June 2019	-	338,227,060	-	53,843	8,413,450	-	346,694,353
8	July 2019	-	339,539,082	-	62,160	7,881,637	-	347,482,879
9	August 2019	-	340,576,671	-	66,318	7,998,872	-	348,641,862
10	September 2019	-	339,756,072	-	70,477	7,973,671	-	347,800,220
11	October 2019	-	338,443,007	-	74,635	8,133,454	-	346,651,097
12	November 2019	-	337,476,409	-	78,793	8,292,554	-	345,847,757
13	December 2019	-	328,588,069	-	82,952	8,072,817	-	336,743,838
14	13-month Average [A] [C]	-	338,922,039.68	-	58,001.28	8,220,162.84	-	347,200,203.81

		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 2018		341,995,273		33,051	8,206,798		350,235,122
16	January 2019		341,697,432		37,209	8,263,769		349,998,410
17	February 2019		342,388,653		41,368	8,322,395		350,752,416
18	March 2019		339,739,369		45,526	8,381,685		348,166,580
19	April 2019		339,164,651		49,684	8,441,176		347,655,511
20	May 2019		338,442,988		58,001	8,479,838		346,980,828
21	June 2019		338,235,142		53,843	8,413,450		346,702,434
22	July 2019		339,547,201		62,160	7,881,637		347,490,998
23	August 2019		340,584,809		66,318	7,998,872		348,650,000
24	September 2019		339,764,229		70,477	7,973,671		347,808,377
25	October 2019		338,451,183		74,635	8,133,454		346,659,273
26	November 2019		337,484,604		78,793	8,292,554		345,855,952
27	December 2019		328,596,283		82,952	8,072,817		336,752,052
28	13-month Average	-	338,930,139.77	-	58,001.28	8,220,162.84	-	347,208,303.89

Reserve for Depreciation of Asset Retirement Costs

		Production	Transmission	Distribution	Intangible	General	Common
	[B]	Company Records					
29	December 2018		7,986				
30	January 2019		8,005				
31	February 2019		8,024				
32	March 2019		8,043				
33	April 2019		8,062				
34	May 2019		8,100				
35	June 2019		8,081				
36	July 2019		8,119				
37	August 2019		8,138				
38	September 2019		8,157				
39	October 2019		8,176				
40	November 2019		8,195				
41	December 2019		8,214				
42	13-month Average		8,100.08	-	-	-	-

Notes:

[A] Included on Attachment H-28A, page 2, lines 7-11, Col. 3

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

[C] Balance excludes reserve for depreciation of asset retirement costs

ADIT Calculation

	[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 2018	-	(265,865,581)	5,758,572	4,808,250	-	(255,298,759)
2 December 31 2019	-	(273,187,044)	4,464,464	4,996,335	-	(263,726,244)
3 Begin/End Average [A]	-	(269,526,312)	5,111,518	4,902,293	-	(259,512,501)

	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 2018		192,621,807	(31,144,661)	9,507,394	2,329,470	173,314,009
5 December 31 2019		216,161,554	(26,910,650)	10,608,504	2,229,785	202,089,193
6 Begin/End Average	-	204,391,680	(29,027,656)	10,057,949	2,279,628	187,701,601

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]
2018	-	(7,672,554)	(65,571,221)		-	-	-
2019	-	(7,487,594)	(63,262,972)		-	-	13,725,076

- [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]
2018	-	-	(25,386,089)		-	-	-
2019	-	-	(24,872,166)		-	-	2,425,980

- [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]
2018	-	-	(2,741,496)	7,440,640	-	-	-
2019	-	-	(2,454,604)	7,714,182	-	-	352,591

- [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]
	2019 Quarterly Activity and Balances							
Beginning 190 (including adjustments)	Q1 Activity	Ending Q1	Q2 Activity	Ending Q2	Q3 Activity	Ending Q3	Q4 Activity	Ending Q4
4,808,250	117,673	4,925,923	127,168	5,053,091	134,254	5,187,345	161,581	5,348,926
Beginning 190 (including adjustments) 4,808,250	Pro-rated Q1 88,980	Pro-rated Q2 64,455	Pro-rated Q3 34,207	Pro-rated Q4 443				
Beginning 282 (including adjustments)	Q1 Activity	Ending Q1	Q2 Activity	Ending Q2	Q3 Activity	Ending Q3	Q4 Activity	Ending Q4
265,865,581	4,580,572	270,446,153	4,950,197	275,396,351	5,226,018	280,622,368	6,289,751	286,912,119
Beginning 282 (including adjustments) 265,865,581	Pro-rated Q1 3,463,666	Pro-rated Q2 2,509,004	Pro-rated Q3 1,331,561	Pro-rated Q4 17,232				
Beginning 283 (including adjustments)	Q1 Activity	Ending Q1	Q2 Activity	Ending Q2	Q3 Activity	Ending Q3	Q4 Activity	Ending Q4
(5,758,572)	809,641	(4,948,931)	874,974	(4,073,958)	923,726	(3,150,231)	1,111,747	(2,038,484)
Beginning 283 (including adjustments) (5,758,572)	Pro-rated Q1 612,221	Pro-rated Q2 443,480	Pro-rated Q3 235,360	Pro-rated Q4 3,046				

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)
2019 Activity					
<hr/>					
Pro-rated Total	Pro-rated Ending 190				
188,085	4,996,335	10,608,504	5,612,168	5,259,578	352,591
					4,996,335
<hr/>					
Pro-rated Total	Pro-rated Ending 282				
7,321,463	273,187,044	216,161,554	(57,025,490)	(70,750,565)	13,725,076
					273,187,044
<hr/>					
Pro-rated Total	Pro-rated Ending 283				
1,294,108	(4,464,464)	(26,910,650)	(22,446,185)	(24,872,166)	2,425,980
					(4,464,464)

ADIT Detail

For the 12 months ended 12/31/2019

<u>COLUMN A</u>	<u>COLUMN B</u>	<u>COLUMN C</u>	<u>COLUMN D</u>
	BALANCE AS <u>OF 12-31-18</u>	BALANCE AS <u>OF 12-31-19</u>	AVERAGE <u>BALANCE</u>
ACCOUNT 255:			
Investment Tax Credit	2,329,470	2,229,785	2,279,628
1 TOTAL ACCOUNT 255	<u>2,329,470</u>	<u>2,229,785</u>	
ACCOUNT 282:			
263A Capitalized Overheads	22,418,718	21,715,298	22,067,008
Accelerated Depreciation	198,690,005	212,782,324	205,736,165
AFUDC	3,424,100	3,399,705	3,411,902
AFUDC Equity (FAS109)	2,770,189	4,622,409	3,696,299
Capitalized Interest	0	0	0
Capitalized Tree Trimming	9,940,106	9,707,754	9,823,930
Casualty Loss	1,889,953	1,058,888	1,474,421
Contribution in Aid of Construction	0	0	0
OPEBs	(7,672,554)	(7,487,594)	(7,580,074)
Other	(8,918,442)	(8,863,372)	(8,890,907)
Pension and Capitalized Benefits	5,376,578	5,226,600	5,301,589
Tax Repairs	33,044,562	41,884,921	37,464,742
FAS109 Related to Property	(68,341,410)	(67,885,381)	(68,113,395)
2 TOTAL ACCOUNT 282	<u>192,621,807</u>	<u>216,161,554</u>	

ADIT Detail

For the 12 months ended 12/31/2019

<u>COLUMN A</u>	<u>COLUMN B</u>	<u>COLUMN C</u>	<u>COLUMN D</u>
	BALANCE AS <u>OF 12-31-18</u>	BALANCE AS <u>OF 12-31-19</u>	AVERAGE <u>BALANCE</u>
ACCOUNT 283:			
AFUDC Equity Flow Thru (Gross up)	1,125,565	1,878,147	1,501,856
Property FAS109	(26,654,131)	(26,585,408)	(26,619,769)
Deferred Storm Costs	152,064	76,032	114,048
Vegetation Management - Transmission	1,035,343	862,786	949,065
PJM Payable	(6,945,979)	(2,977,302)	(4,961,641)
Fed Rate Change - Non-Prop. Gross-up	142,476	(164,905)	(11,215)
3 TOTAL ACCOUNT 283	<u>(31,144,661)</u>	<u>(26,910,650)</u>	

ADIT Detail

For the 12 months ended 12/31/2019

<u>COLUMN A</u>	<u>COLUMN B</u>	<u>COLUMN C</u>	<u>COLUMN D</u>
	BALANCE AS <u>OF 12-31-18</u>	BALANCE AS <u>OF 12-31-19</u>	AVERAGE BALANCE
ACCOUNT 190:			
Capitalized Interest	3,861,755	4,442,934	4,152,345
Contribution in Aid of Construction	7,440,640	7,714,182	7,577,411
Property FAS109	(2,741,496)	(2,454,604)	(2,598,050)
Investment Tax Credit	946,495	905,992	926,244
4 TOTAL ACCOUNT 190	<u>9,507,394</u>	<u>10,608,504</u>	<u>10,057,949</u>

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	18,985,409	MAIT Labor: Company Records
7	PBOP Expense for current year (line 5 * line 6)	-\$1,019,361	
8	PBOP expense in Account 926 for current year	(271,502)	MAIT Account 926: Company Records
9	PBOP Adjustment for Attachment H-28A, page 3, line 9 (line 7 - line 8)	(747,859)	

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

Taxes Other than Income Calculation

		[A]	Dec 31, 2019
1	Payroll Taxes		
1a	FICA	263.i	443,868
1b		263.i	-
1c		263.i	-
1z	Payroll Taxes Total		443,868
2	Highway and Vehicle Taxes		
2a		263.i	-
2z	Highway and Vehicle Taxes		-
3	Property Taxes		
3a	Property Tax	263.i	76,332
3b			-
3c			-
3z	Property Taxes		76,332
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]		\$520,200

Notes:

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

Capital Structure Calculation

For the 12 months ended 12/31/2019

		[1]	[2]	[3]	[4]	[5]	[6]	[7]
		Proprietary Capital	Preferred Stock	Account 216.1	Account 219	Goodwill	Common Stock	Long Term Debt
	[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 2018	892,665,716				223,591,970	669,073,746	449,894,709
2	January 2019	898,642,512				223,591,970	675,050,542	449,895,645
3	February 2019	904,678,632				223,591,970	681,086,662	449,896,581
4	March 2019	911,502,552				223,591,970	687,910,582	449,897,517
5	April 2019	918,030,654				223,591,970	694,438,684	449,898,454
6	May 2019	925,005,869				223,591,970	701,413,899	449,899,390
7	June 2019	931,854,418				223,591,970	708,262,448	449,900,326
8	July 2019	938,623,001				223,591,970	715,031,031	574,901,262
9	August 2019	945,024,538				223,591,970	721,432,568	574,902,198
10	September 2019	951,751,959				223,591,970	728,159,989	574,903,135
11	October 2019	958,536,902				223,591,970	734,944,932	574,904,071
12	November 2019	965,362,177				223,591,970	741,770,207	574,905,007
13	December 2019	1,083,288,914	-	-	-	223,591,970	859,696,944	574,905,943
14	13-month Average	940,382,142	-	-	-	223,591,970	716,790,172	507,592,634

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

TABLE 1: Summary Cost of Long Term Debt

CALCULATION OF COST OF DEBT										
YEAR ENDED 12/31/2019										
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
Long Term Debt 12/31/2019	Issue Date	Maturity Date	ORIGINAL ISSUANCE (table 2, col. cc)	Net Proceeds At Issuance (table 2, col. hh)	Net Amount Outstanding at t=N	Months Outstanding at t=N	Average Net Outstanding in Year* 2' ((col e. * col. f)/12)	Weighted Outstanding Rate (col. g/col. g total)	Effective Cost Rate (Table 2, Col. ii)	Weighted Debt Cost at t = N (h) * (i)
First Mortgage Bonds:										
(1) 4.10%, Senior Unsecured Notes	5/10/2018	5/15/2028	\$ 450,000,000	\$ 445,907,666	\$ 450,000,000	12	\$ 450,000,000	87.80%	4.21%	3.70%
(2) 4.75%, Senior Unsecured Notes - Planned	7/15/2019	7/15/2029	\$ 125,000,000	\$ 123,750,000	\$ 125,000,000	6	\$ 62,500,000	12.20%	4.88%	0.59%
Total			\$ 575,000,000		\$ 575,000,000		\$ 512,500,000	100.000%		4.29% **

1 = time
The current portion of long term debt is included in the Net Amount Outstanding at t = N in these calculations.
The outstanding amount (column (g)) for debt retired during the year is the outstanding amount at the last month it was outstanding.
* 2' = Average of monthly balances for months outstanding during the year (average of the balances for the 12 months of the year, with zero in months that the issuance is not outstanding in a month).
Interest individual debenture debt cost calculations shall be taken to four decimals in percentages (7.2300%, 5.2925%). Final Total Weighted Average Debt Cost for the Formula Rate shall be rounded to two decimals of a percent (7.03%).
** The Total Weighted Average Debt Cost will be shown on page 4, line 22, column 5 of formula rate Attachment H-28A.

TABLE 2: Effective Cost Rates For Traditional Front-Loaded Debt Issuances:

YEAR ENDED 12/31/2019												
Long Term Debt / Affiliate	(aa) Issue Date	(bb) Maturity Date	(cc) Amount Issued	(dd) (Discount) Premium at Issuance	(ee) Issuance Expense	(ff) Loss/Gain on Reacquired Debt	(gg) Less Related ADIT	(hh) Net Proceeds + col. ee + col. ff	(ii) Net Proceeds Ratio ((col. cc / col. hh)*100)	(jj) Coupon Rate	(kk) Annual Interest (col. cc * col. jj)	(ll) Effective Cost Rate* (Yield to Maturity at Issuance, t = 0)
(1) 4.10%, Senior Unsecured Notes	5/10/2018	5/15/2028	\$ 450,000,000	\$ (112,500)	\$ 3,979,834	-	xxx	\$ 445,907,666	99.0906	0.04100	\$ 18,450,000	4.21%
(2) 4.75%, Senior Unsecured Notes - Planned	7/15/2019	7/15/2029	\$ 125,000,000	\$ -	\$ 1,250,000	-	xxx	\$ 123,750,000	99.0000	0.04750	\$ 5,937,500	4.88%
TOTALS			\$ 575,000,000	(112,500)	\$ 5,229,834	-	xxx	\$ 569,657,666			\$ 24,387,500	

* YTM at issuance calculated from an acceptable bond table or from YTM = Internal Rate of Return (IRR) calculation
Effective Cost Rate of individual Debenture (YTM at issuance) = the t=0 Cashflow/C₀ equals Net Proceeds column (gg); Semi-annual (or other) interest cashflows (C₁, C₂, 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)	\$ 1,579,600,454
2	Net Transmission Plant - Total	Attach. H-28A, p. 2, line 14, col. 5 (Note B)	\$ 1,240,678,415
O&M EXPENSE			
3	Total O&M Allocated to Transmission	Attach. H-28A, p. 3, line 15, col. 5	\$ 66,228,405
4	Annual Allocation Factor for O&M	(line 3 divided by line 1, col. 3)	4.192731%
GENERAL, INTANGIBLE, AND COMMON (G, I, & C) DEPRECIATION EXPENSE			
5	Total G, I, & C depreciation expense	Attach. H-28A, p. 3, lines 17 & 18, col. 5	\$ 1,014,344
6	Annual allocation factor for G, I, & C depreciation expense	(line 5 divided by line 1, col. 3)	0.064215%
TAXES OTHER THAN INCOME TAXES			
7	Total Other Taxes	Attach. H-28A, p. 3, line 28, col. 5	\$ 520,200
8	Annual Allocation Factor for Other Taxes	(line 7 divided by line 1, col. 3)	0.032932%
9	Annual Allocation Factor for Expense	Sum of line 4, 6, & 8	4.289879%
INCOME TAXES			
10	Total Income Taxes	Attach. H-28A, p. 3, line 30, col. 5	\$ 24,740,904
11	Annual Allocation Factor for Income Taxes	(line 10 divided by line 2, col. 3)	1.994143%
RETURN			
12	Return on Rate Base	Attach. H-28A, p. 3, line 40, col. 5	\$ 79,678,780
13	Annual Allocation Factor for Return on Rate Base	(line 12 divided by line 2, col. 3)	6.422194%
14	Annual Allocation Factor for Return	Sum of line 11 and 13	8.416338%

Columns 5-9 (page 1) only applies with incentive RDE project(s) (Note F)

(5)	(6)	(7)	(8)	(9)
Line No.	Reference	Transmission	Allocator	
INCOME TAXES				
10b	Total Income Taxes	Attachment 2, line 33	\$ 24,740,904	
11b	Annual Allocation Factor for Income Taxes	(line 10b divided by line 2, col. 3)	1.994143%	1.994143%
RETURN				
12b	Return on Rate Base	Attachment 2, line 22	\$ 79,678,780	
13b	Annual Allocation Factor for Return on Rate Base	(line 12b divided by line 2, col. 3)	6.422194%	6.422194%
14b	Annual Allocation Factor for Return	Sum of line 11b and 13b		8.416338%
15	Additional Annual Allocation Factor for Return	Line 14 b, col. 9 less line 14, col. 4		0.00000%

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 8)	(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. 8)	(Sum Col. 10 & 11)	(Note G)	(Sum Col. 12 & 13)
2a	Install 230kV series reactor and 2- 100MVAR PLC switched capacitors at Hunterstown	b0215	\$ 12,637,431	4.289879%	\$542,131	\$ 10,062,081	8.416338%	\$846,859	\$ 259,067	\$1,648,057	-	\$1,648,057	(126,728)	\$1,521,328
2b	Replace wave trap and upgrade a bus section at Keystone 500 kV – on the Keystone – Airvdale 500 kV	b0284.3	\$ -	4.289879%	\$0	\$ -	8.416338%	\$0	\$ -	\$0	-	\$0	(5,767)	-\$5,767
2c	Install 100 MVAR Dynamic Reactive Device at Airvdale 500 kV substation	b0369	\$ -	4.289879%	\$0	\$ -	8.416338%	\$0	\$ -	\$0	-	\$0	(263,576)	-\$263,576
2d	Install 200 MVAR capacitor at Keystone 500 kV	b0549	\$ 3,207,134	4.289879%	\$137,562	\$ 2,779,596	8.416338%	\$333,940	\$ 65,746	\$437,269	-	\$437,269	(34,334)	\$402,934
2e	Install 25 MVAR capacitor at Easton 115 kV substation	b0551	\$ 1,380,393	4.289879%	\$59,217	\$ 1,091,032	8.416338%	\$91,825	\$ 28,022	\$179,064	-	\$179,064	(13,820)	\$165,244
2f	Install 50 MVAR capacitor at Altona 230 kV substation	b0552	\$ 1,030,335	4.289879%	\$44,543	\$ 986,416	8.416338%	\$77,970	\$ 21,286	\$143,799	-	\$143,799	(9,673)	\$134,126
2g	Install 50 MVAR capacitor at Rawlston 230 kV substation	b0553	\$ 927,947	4.289879%	\$39,808	\$ 803,901	8.416338%	\$67,659	\$ 19,023	\$126,490	-	\$126,490	(9,674)	\$116,815
2h	Install 75 MVAR capacitor at East Towards 230 kV substation	b0557	\$ 2,177,814	4.289879%	\$93,426	\$ 1,887,659	8.416338%	\$158,872	\$ 44,210	\$296,507	-	\$296,507	(22,973)	\$273,534
2i	Relocate the Six South 345 kV line terminal	b1593	\$ 10,675,225	4.289879%	\$457,954	\$ 9,942,349	8.416338%	\$839,365	\$ 219,910	\$1,556,229	-	\$1,556,229	(109,462)	\$1,396,767
2j	Convert Lewis Run-Farmers Valley to 230 kV using 1033.5 ACBR conductor. Project to be completed in conjunction with new Farmers Valley 345/230 kV transformation.	b1594	\$ 69,253,918	4.289879%	\$2,541,921	\$ 77,862,961	8.416338%	\$4,869,942	\$ 1,250,268	\$8,662,121	-	\$8,662,121	(323)	\$8,661,798
2k	Loop the 2026 (TMI - Hosenack 500 kV) line in to the Laushtown substation and upgrade relay at TMI 500 kV	b2006.1.1_DFAX_All option	\$ 2,215,070	4.289879%	\$95,024	\$ 2,100,526	8.416338%	\$176,787	\$ 54,491	\$326,302	-	\$326,302	(12,623)	\$313,679
2l	Loop the 2026 (TMI - Hosenack 500 kV) line in to the Laushtown substation and upgrade relay at TMI 500 kV	b2006.1.1_Load_Rat	\$ 2,215,070	4.289879%	\$95,024	\$ 2,100,526	8.416338%	\$176,787	\$ 54,491	\$326,302	-	\$326,302	(12,623)	\$313,679
2m	Install 2nd Hunterstown 230/115 kV transformer	b2452	\$ 6,023,053	4.289879%	\$258,382	\$ 5,752,286	8.416338%	\$484,132	\$ 132,507	\$875,021	-	\$875,021	(8,117)	\$866,904
2n	Reconductor Hunterstown - Oxford 115 kV line	b2452.1	\$ 2,721,544	4.289879%	\$116,791	\$ 2,597,151	8.416338%	\$218,595	\$ 59,874	\$395,210	-	\$395,210	(34,828)	\$360,382
3	Transmission Enhancement Credit taken to Attachment H-28A Page 1, Line 7										14,922,370.36			
4	Additional Incentive Revenue taken to Attachment H-28A Page 3, Line 42										80.00			

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 15-month average

TEC Worksheet Support
Net Plant Detail

Line No.	Project Name	RTEP Project Number	Project Gross Plant (Note A)	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19
2a	Install 220kV 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
2d	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
2e	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
2f	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
2g	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
2h	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
2i	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
2j	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	\$ 59,253,918	\$59,253,918	\$59,253,918	\$59,253,918	\$59,253,918	\$59,253,918	\$59,253,918	\$59,253,918	\$59,253,918	\$59,253,918	\$59,253,918	\$59,253,918	\$59,253,918	\$59,253,918
2k	Loop the 2026 (TMI - Hosensack 500 kV) line in to the Lauschtown substation and upgrade relay at TMI 500 kV	b2006.1.1_DFAX_Allocation	\$ 2,215,070	\$2,215,070	\$2,215,070	\$2,215,070	\$2,215,070	\$2,215,070	\$2,215,070	\$2,215,070	\$2,215,070	\$2,215,070	\$2,215,070	\$2,215,070	\$2,215,070	\$2,215,070
2l	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_Share_Allocation	\$ 2,215,070	\$2,215,070	\$2,215,070	\$2,215,070	\$2,215,070	\$2,215,070	\$2,215,070	\$2,215,070	\$2,215,070	\$2,215,070	\$2,215,070	\$2,215,070	\$2,215,070	\$2,215,070
2m	Install 2nd Hunterstown 230/115 kV transformer	b2452	\$ 6,023,053	\$6,023,053	\$6,023,053	\$6,023,053	\$6,023,053	\$6,023,053	\$6,023,053	\$6,023,053	\$6,023,053	\$6,023,053	\$6,023,053	\$6,023,053	\$6,023,053	\$6,023,053
2n	Reconductor Hunterstown - Oxford 115 kV line	b2452.1	\$ 2,721,544	\$2,721,544	\$2,721,544	\$2,721,544	\$2,721,544	\$2,721,544	\$2,721,544	\$2,721,544	\$2,721,544	\$2,721,544	\$2,721,544	\$2,721,544	\$2,721,544	\$2,721,544

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 12/31/2019

Accumulated Depreciation (Note B)	Dec-18 (Note D)	Jan-19 (Note D)	Feb-19 (Note D)	Mar-19 (Note D)	Apr-19 (Note D)	May-19 (Note D)	Jun-19 (Note D)	Jul-19 (Note D)	Aug-19 (Note D)	Sep-19 (Note D)	Oct-19 (Note D)	Nov-19 (Note D)	Dec-19 (Note D)	Project Net Plant (Note B & C)
\$2,575,350	\$ 2,445,817	\$ 2,467,405	\$ 2,488,994	\$ 2,510,583	\$ 2,532,172	\$ 2,553,761	\$ 2,575,350	\$ 2,596,939	\$ 2,618,528	\$ 2,640,117	\$ 2,661,706	\$ 2,683,295	\$ 2,704,884	\$10,062,081
\$427,539	\$394,665	\$400,144	\$405,623	\$411,102	\$416,581	\$422,060	\$427,539	\$433,017	\$438,496	\$443,975	\$449,454	\$454,933	\$460,412	\$2,779,596
\$289,361	\$275,350	\$277,685	\$280,020	\$282,355	\$284,690	\$287,026	\$289,361	\$291,696	\$294,031	\$296,366	\$298,701	\$301,037	\$303,372	\$1,091,032
\$111,919	\$101,276	\$103,049	\$104,823	\$106,597	\$108,371	\$110,145	\$111,919	\$113,692	\$115,466	\$117,240	\$119,014	\$120,788	\$122,562	\$926,416
\$124,046	\$114,534	\$116,120	\$117,705	\$119,290	\$120,875	\$122,460	\$124,046	\$125,631	\$127,216	\$128,801	\$130,387	\$131,972	\$133,557	\$803,901
\$290,155	\$268,050	\$271,735	\$275,419	\$279,103	\$282,787	\$286,471	\$290,155	\$293,839	\$297,524	\$301,208	\$304,892	\$308,576	\$312,260	\$1,887,659
\$832,877	\$722,922	\$741,248	\$759,574	\$777,899	\$796,225	\$814,551	\$832,877	\$851,203	\$869,528	\$887,854	\$906,180	\$924,506	\$942,832	\$9,842,349
\$1,390,957	\$765,828	\$870,016	\$974,205	\$1,078,393	\$1,182,581	\$1,286,769	\$1,390,957	\$1,495,145	\$1,599,333	\$1,703,522	\$1,807,710	\$1,911,898	\$2,016,086	\$57,862,961
\$114,544	\$87,299	\$91,840	\$96,381	\$100,922	\$105,463	\$110,003	\$114,544	\$119,085	\$123,626	\$128,167	\$132,708	\$137,249	\$141,790	\$2,100,526
\$114,544	\$87,299	\$91,840	\$96,381	\$100,922	\$105,463	\$110,003	\$114,544	\$119,085	\$123,626	\$128,167	\$132,708	\$137,249	\$141,790	\$2,100,526
\$270,767	\$204,514	\$215,556	\$226,598	\$237,641	\$248,683	\$259,725	\$270,767	\$281,810	\$292,852	\$303,894	\$314,936	\$325,979	\$337,021	\$5,752,286
\$124,394	\$94,457	\$99,446	\$104,436	\$109,425	\$114,415	\$119,404	\$124,394	\$129,383	\$134,373	\$139,362	\$144,352	\$149,341	\$154,331	\$2,597,151

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 2x / Col. H line 3 * Col. J line 4	Col. h + Col. i
1	[A] Actual RTEP Credit Revenues for true-up year		3,293,661							
2a	b0215			\$1,824,693	0.28	912,346.68	\$795,157	117,190	9,538	126,728
2b	b0284.3			\$10,703	0.00	5,351.68	\$0	5,352	436	5,787
2c	b0369			\$524,464	0.08	262,232.21	\$0	262,232	21,343	283,576
2d	b0549			\$485,007	0.07	242,503.54	\$210,753	31,750	2,584	34,334
2e	b0551			\$198,313	0.03	99,156.69	\$86,377	12,780	1,040	13,820
2f	b0552			\$156,457	0.02	78,228.29	\$69,283	8,945	728	9,673
2g	b0553			\$139,823	0.02	69,911.66	\$60,965	8,946	728	9,674
2h	b0557			\$328,224	0.05	164,111.82	\$142,868	21,244	1,729	22,973
2i	b1993			\$1,648,748	0.25	824,374.00	\$723,151	101,223	8,239	109,462
2j	b1994			\$7,403	0.00	3,701.42	\$3,403	299	24	323
2k	b2006.1.1_DFAX_Allocation			\$227,060	0.03	113,530.21	\$101,858	11,673	950	12,623
2l	b2006.1.1_Load_Ratio_Share_Allocation			\$227,060	0.03	113,530.21	\$101,858	11,673	950	12,623
2m	b2452			\$508,733	0.08	254,366.30	\$246,860	7,506	611	8,117
2n	b2452.1			\$300,633	0.05	150,316.67	\$118,115	32,202	2,621	34,823
3	Subtotal			6,587,323			2,660,647	633,014		684,536
4	Total Interest (Sourced from Attachment 13a, line 30)									51,522

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 2017 Available June 1, 2018* \$53,754,559	2017 Revenue Requirement Collected by PJM Based on Forecast filed on Oct 31, 2016* \$66,762,395	True-up Adjustment - Over (Under) Recovery \$13,007,836
--	--	--

*Pursuant to Section 2.11 of the uncontested settlement filed in Docket No. ER17-211-003 on October 13, 2017 and approved by the Commission on May 22, 2018, the settling parties agreed that the calculation of 2017 values in the 2017 ATRR shall be derived as described in Appendix 5 of the settlement. Additionally, limited modifications were made on Attachments 11 and 11a, resulting in a minor shift in the true-up between NITS and TEC, as well as, a minor reduction in O&M expense on Attachment H-28A, page 3 of 5, which results in a minor increase to the overall true-up.

	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]		0.3607%				

An over or under collection will be recovered prorata over 2017, held for 2018 and returned prorata over 2019

<u>Calculation of Interest</u>		<u>Monthly</u>				
3 January	Year 2017	-	0.3607%	12	-	-
4 February	Year 2017	-	0.3607%	11	-	-
5 March	Year 2017	-	0.3607%	10	-	-
6 April	Year 2017	-	0.3607%	9	-	-
7 May	Year 2017	-	0.3607%	8	-	-
8 June	Year 2017	-	0.3607%	7	-	-
9 July	Year 2017	2,167,973	0.3607%	6	(46,921)	(2,214,894)
10 August	Year 2017	2,167,973	0.3607%	5	(39,101)	(2,207,074)
11 September	Year 2017	2,167,973	0.3607%	4	(31,281)	(2,199,253)
12 October	Year 2017	2,167,973	0.3607%	3	(23,461)	(2,191,433)
13 November	Year 2017	2,167,973	0.3607%	2	(15,640)	(2,183,613)
14 December	Year 2017	2,167,973	0.3607%	1	(7,820)	(2,175,793)
					(164,224)	(13,172,060)

<u>Annual</u>		<u>Annual</u>				
15 January through December	Year 2018	(13,172,060)	0.3607%	12	(570,162)	(13,742,222)

<u>Over (Under) Recovery Plus Interest Amortized and Recovered Over 12 Months</u>		<u>Monthly</u>					
16 January	Year 2019	13,742,222	0.3607%		(49,570)	1,172,213	(12,619,580)
17 February	Year 2019	12,619,580	0.3607%		(45,521)	1,172,213	(11,492,887)
18 March	Year 2019	11,492,887	0.3607%		(41,456)	1,172,213	(10,362,131)
19 April	Year 2019	10,362,131	0.3607%		(37,378)	1,172,213	(9,227,296)
20 May	Year 2019	9,227,296	0.3607%		(33,284)	1,172,213	(8,088,367)
21 June	Year 2019	8,088,367	0.3607%		(29,176)	1,172,213	(6,945,330)
22 July	Year 2019	6,945,330	0.3607%		(25,053)	1,172,213	(5,798,170)
23 August	Year 2019	5,798,170	0.3607%		(20,915)	1,172,213	(4,646,872)
24 September	Year 2019	4,646,872	0.3607%		(16,762)	1,172,213	(3,491,421)
25 October	Year 2019	3,491,421	0.3607%		(12,594)	1,172,213	(2,331,802)
26 November	Year 2019	2,331,802	0.3607%		(8,411)	1,172,213	(1,168,000)
27 December	Year 2019	1,168,000	0.3607%		(4,213)	1,172,213	0
					(324,333)		

28 True-Up with Interest	\$ 14,066,555
29 Less Over (Under) Recovery	\$ 13,007,836
30 Total Interest	\$ 1,058,719

[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 2017 Available June 1, 2018*	TEC 2017 Revenue Requirement Collected by PJM Based on Forecast filed on Oct 31, 2016*	True-up Adjustment - Over (Under) Recovery
\$2,660,647	\$3,293,661	\$633,014

*Pursuant to Section 2.11 of the uncontested settlement filed in Docket No. ER17-211-003 on October 13, 2017 and approved by the Commission on May 22, 2018, the settling parties agreed that the calculation of 2017 values in the 2017 ATRR shall be derived as described in Appendix 5 of the settlement. Additionally, limited modifications were made on Attachments 11 and 11a, resulting in a minor shift in the true-up between NITS and TEC, as well as, a minor reduction in O&M expense on Attachment H-28A, page 3 of 5, which results in a minor increase to the overall true-up.

	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)		0.3607%				

An over or under collection will be recovered prorata over 2017, held for 2018 and returned prorata over 2019

<u>Calculation of Interest</u>				<u>Monthly</u>		
3 January	Year 2017	-	0.3607%	12	-	-
4 February	Year 2017	-	0.3607%	11	-	-
5 March	Year 2017	-	0.3607%	10	-	-
6 April	Year 2017	-	0.3607%	9	-	-
7 May	Year 2017	-	0.3607%	8	-	-
8 June	Year 2017	-	0.3607%	7	-	-
9 July	Year 2017	105,502	0.3607%	6	(2,283)	(107,786)
10 August	Year 2017	105,502	0.3607%	5	(1,903)	(107,405)
11 September	Year 2017	105,502	0.3607%	4	(1,522)	(107,025)
12 October	Year 2017	105,502	0.3607%	3	(1,142)	(106,644)
13 November	Year 2017	105,502	0.3607%	2	(761)	(106,263)
14 December	Year 2017	105,502	0.3607%	1	(381)	(105,883)
					(7,992)	(641,006)

<u>Over (Under) Recovery Plus Interest Amortized and Recovered Over 12 Months</u>				<u>Annual</u>		
15 January through December	Year 2018	(641,006)	0.3607%	12	(27,746)	(668,752)

<u>Over (Under) Recovery Plus Interest Amortized and Recovered Over 12 Months</u>				<u>Monthly</u>		
16 January	Year 2019	668,752	0.3607%		(2,412)	57,045
17 February	Year 2019	614,120	0.3607%		(2,215)	57,045
18 March	Year 2019	559,290	0.3607%		(2,017)	57,045
19 April	Year 2019	504,263	0.3607%		(1,819)	57,045
20 May	Year 2019	449,038	0.3607%		(1,620)	57,045
21 June	Year 2019	393,613	0.3607%		(1,420)	57,045
22 July	Year 2019	337,988	0.3607%		(1,219)	57,045
23 August	Year 2019	282,162	0.3607%		(1,018)	57,045
24 September	Year 2019	226,136	0.3607%		(816)	57,045
25 October	Year 2019	169,907	0.3607%		(613)	57,045
26 November	Year 2019	113,475	0.3607%		(409)	57,045
27 December	Year 2019	56,840	0.3607%		(205)	57,045
					(15,783)	(0)

28 True-Up with Interest	\$	684,536
29 Less Over (Under) Recovery	\$	633,014
30 Total Interest	\$	51,522

[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 B	COLUMN C	COLUMN D	COLUMN E	COLUMN F	COLUMN G
		BALANCE AS OF 12-31-18	BALANCE AS OF 12-31-19	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]	692,368	692,368	692,368			

Unfunded Reserves

Line No.	Description	COLUMN B	COLUMN C	COLUMN D	COLUMN E	COLUMN F	COLUMN G
		BALANCE AS OF 12-31-18	BALANCE AS OF 12-31-19	AVERAGE BALANCE	ALLOCATION FACTOR	TRANSMISSION TOTAL (Col D times Col F)	
Account 228.1							
4a	Property Insurance (Self insurance not covered by property insurance)	0	0	0 GP	1.00	0	0
4b	[Insert Item Included in Account 228.1 that are not allocated to transmission]	0	0	0 Other	0	0	0
4c	[Insert Item Included in Account 228.1 that are not allocated to transmission]	0	0	0 Other	0	0	0
4z	Total Account 228.1 (112.27.c)	0	0			0	0
Account 228.2							
5a	Workman's Compensation	0	0	0 W/S	1.00	0	0
5b	Probable liabilities not covered by insurance for death or injuries to employees and others	0	0	0 W/S	1.00	0	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	0
5d	[Insert Item Included in Account 228.2 that are not allocated to transmission]	0	0	0 Other	0	0	0
5e	[Insert Item Included in Account 228.2 that are not allocated to transmission]	0	0	0 Other	0	0	0
5z	Total Account 228.2 (112.28.c)	0	0			0	0
Account 228.3							
6a	Year-End Vacation Pay Accrual	0	0	0 W/S	1.00	0	0
6b	Year-End Deferred Compensation Accrual	0	0	0 W/S	1.00	0	0
6c	Year-End Sick Pay Accrual	0	0	0 W/S	1.00	0	0
6d	Year-End Incentive Compensation Accrual	0	0	0 W/S	1.00	0	0
6e	Year-End Severance Pay Accrual	0	0	0 W/S	1.00	0	0
6f	Year-End PBOP/OPEB Accrual not included in established trusts	0	0	0 W/S	1.00	0	0
6g	[Insert Item Included in Account 228.3 that are not allocated to transmission]	0	0	0 Other	0	0	0
6h	[Insert Item Included in Account 228.3 that are not allocated to transmission]	0	0	0 Other	0	0	0
6z	Total Account 228.3 (112.29.c)	0	0			0	0
Account 228.4							
7a	Year-End Vacation Pay Accrual	0	0	0 W/S	1.00	0	0
7b	Year-End Deferred Compensation Accrual	0	0	0 W/S	1.00	0	0
7c	Year-End Sick Pay Accrual	0	0	0 W/S	1.00	0	0
7d	Year-End Incentive Compensation Accrual	0	0	0 W/S	1.00	0	0
7e	Year-End Severance Pay Accrual	0	0	0 W/S	1.00	0	0
7f	Year-End PBOP/OPEB Accrual not included in established trusts	0	0	0 W/S	1.00	0	0
7g	[Insert Item Included in Account 228.4 that are not allocated to transmission]	0	0	0 Other	0	0	0
7h	[Insert Item Included in Account 228.4 that are not allocated to transmission]	0	0	0 Other	0	0	0
7z	Total Account 228.4 (112.30.c)	0	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

[1]	Income Tax Adjustments		[3]	[4]	[5]	[6]
	[2]		Beg/End Average [C]	Dec 31, 2019	Dec 31, 2019	Reference
1 Tax adjustment for Permanent Differences & AFUDC Equity	[A]		\$289,181	\$289,181	\$289,181	MAIT Company Records
2 Amortized Excess Deferred Taxes (enter negative)	[B]		(333,725)	(333,725)	(333,725)	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						
2	December 2018	25				526,317	
3	January	24	526,317	21,930	-	504,387	
4	February	23	504,387	21,930	-	482,457	
5	March	22	482,457	21,930	-	460,527	
6	April	21	460,527	21,930	-	438,598	
7	May	20	438,598	21,930	-	416,668	
8	June	19	416,668	21,930	-	394,738	
9	July	18	394,738	21,930	-	372,808	
10	August	17	372,808	21,930	-	350,878	
11	September	16	350,878	21,930	-	328,948	
12	October	15	328,948	21,930	-	307,018	
13	November	14	307,018	21,930	-	285,088	
14	December 2019	13	285,088	21,930	-	263,159	
15	Ending Balance 13-Month Average	(sum lines 2-14) /13		<u>263,159</u>		<u>394,738</u>	

Attachment H-28A, page 3, line 11

Attachment H-28A, page 2, Line 27

		Regulatory Asset - Vegetation Management					
[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 2018	p232 (and Notes)	73			3,583,482	
3	January	FERC Account 182.3	72	3,583,482	49,771	3,533,712	
4	February	FERC Account 182.3	71	3,533,712	49,771	3,483,941	
5	March	FERC Account 182.3	70	3,483,941	49,771	3,434,170	
6	April	FERC Account 182.3	69	3,434,170	49,771	3,384,400	
7	May	FERC Account 182.3	68	3,384,400	49,771	3,334,629	
8	June	FERC Account 182.3	67	3,334,629	49,771	3,284,859	
9	July	FERC Account 182.3	66	3,284,859	49,771	3,235,088	
10	August	FERC Account 182.3	65	3,235,088	49,771	3,185,318	
11	September	FERC Account 182.3	64	3,185,318	49,771	3,135,547	
12	October	FERC Account 182.3	63	3,135,547	49,771	3,085,776	
13	November	FERC Account 182.3	62	3,085,776	49,771	3,036,006	
14	December 2019	p232 (and Notes)	61	3,036,006	49,771	2,986,235	
15	Ending Balance 13-Month Average	(sum lines 2-14) /13			<u>\$597,247</u>	<u>3,284,859</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					
2	December 2018	13				-
3	January	12	-	-	-	-
4	February	11	-	-	-	-
5	March	10	-	-	-	-
6	April	9	-	-	-	-
7	May	8	-	-	-	-
8	June	7	-	-	-	-
9	July	6	-	-	-	-
10	August	5	-	-	-	-
11	September	4	-	-	-	-
12	October	3	-	-	-	-
13	November	2	-	-	-	-
14	December 2019	1	-	-	-	-
15	Ending Balance 13-Month Average			<u>\$0.00</u>		<u>-</u>

Attachment H-28A, page 3, line 11

Attachment H-28A, page 2, Line 27

	[1]	[2]	Abandoned Plant				[7]
			[3] Months Remaining In Amortization Period	[4] Beginning Balance	[5] Amortization Expense (p114.10.c)	[6] Additions (Deductions)	Ending Balance
1	Monthly Balance	Source					
2	December 2018	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 2019	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	2018	
2	January	2019	
3	February	2019	
4	March	2019	
5	April	2019	
6	May	2019	
7	June	2019	
8	July	2019	
9	August	2019	
10	September	2019	
11	October	2019	
12	November	2019	
13	December	2019	
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
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	\$519,330
84			
85	561.1	Load Dispatch-Reliability	\$1,321,747
86	561.2	Load Dispatch-Monitor and Operate Transmission System	\$885,582
87	561.3	Load-Dispatch-Transmission Service and Scheduling	
88	561.4	Scheduling, System Control and Dispatch Services	\$222,000
89	561.5	Reliability, Planning and Standards Development	\$210,177
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	\$687,392
94	563	Overhead Lines Expense	\$12,773
95	564	Underground Lines Expense	
96	565	Transmission of Electricity by Others	
97	566	Miscellaneous Transmission Expense	\$6,270,722
98	567	Rents	\$7,177,788
99		TOTAL Operation (Enter Total of Lines 83 thru 98)	<u>\$17,307,510</u>
100		<i>Maintenance</i>	
101	568	Maintenance Supervision and Engineering	\$2,943,715
102	569	Maintenance of Structures	
103	569.1	Maintenance of Computer Hardware	\$7,117
104	569.2	Maintenance of Computer Software	\$40,384
105	569.3	Maintenance of Communication Equipment	
106	569.4	Maintenance of Miscellaneous Regional Transmission Plant	
107	570	Maintenance of Station Equipment	\$5,137,315
108	571	Maintenance of Overhead Lines	\$42,917,070
109	572	Maintenance of Underground Lines	
110	573	Maintenance of Miscellaneous Transmission Plant	\$281,931
111		TOTAL Maintenance (Total of lines 101 thru 110)	<u>\$51,327,531</u>
112		TOTAL Transmission Expenses (Total of lines 99 and 111) [c]	<u><u>\$68,635,041</u></u>

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	
183	Less 922	Administrative Expenses Transferred - Credit	
184	923	Outside Services Employed	\$3,547,068
185	924	Property Insurance	
186	925	Injuries and Damages	
187	926	Employee Pensions and Benefits	-\$4,757,131
188	927	Franchise Requirements	
189	928	Regulatory Commission Expense	
190	Less 929	(Less) Duplicate Charges-Cr.	
191	930.1	General Advertising Expenses	
192	930.2	Miscellaneous General Expenses	\$27,000
193	931	Rents	\$12,926
194		Total Operation (Enter Total of lines 181 thru 193)	-\$1,170,137
195		<i>Maintenance</i>	
196	935	Maintenance of General Plant	\$1,080,283
197		TOTAL A&G Expenses (Total of lines 194 and 196) [f]	-\$89,854

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, 2019		
		<u>Amount</u>		
1	Account 451 -- Miscellaneous Service Revenues	FERC Form 1 , page 300 and footnote data		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	\$ 584,491		
3b	Facility Maintenance Charges	\$ 831,393		
3z	Account 456 Total		\$1,415,884	