

AEPTCo subsidiaries in PJM
Transmission Cost of Service Formula Rate
Utilizing Actual/Projected FERC Form 1 Data

AEP Ohio Transmission Company

For Twelve Months Ended

2019

Line No.						Transmission Amount
1	REVENUE REQUIREMENT (w/o incentives)	(ln 113)				\$473,239,753
2	REVENUE CREDITS	(Worksheet E, ln 8) (Note A)	Total	DA	1.00000	\$ 9,147,000
3	Facility Credits under PJM OATT Section 30.9	Worksheet E, ln 9) (Note X)	9,147,000			421,122
4	REVENUE REQUIREMENT For All Company Facilities	(ln 1 less ln 2 plus ln 3)				\$ 464,513,875

MEMO: The Carrying Charge Calculations on lines 7 to 12 below are used in calculating project revenue requirements billed through PJM Schedule 12, Transmission Enhancement Charges. The total non-incentive revenue requirements for these projects shown on line 5 is included in the total on line 4.

5	Revenue Requirement for PJM Schedule 12 Facilities (w/o incentives) (Worksheet J/K)	42,643,711	DA	1.00000	\$ 42,643,711
6	NET PLANT CARRYING CHARGE w/o intra-AEP charges or credits or ROE incentives (Note B)				
7	Annual Rate	((ln 1- ln 80)/((ln 33) x 100))			17.32%
8	Monthly Rate	(ln 7 / 12)			1.44%
9	NET PLANT CARRYING CHARGE ON LINE 7 , w/o depreciation or ROE incentives (Note B)				
10	Annual Rate	((ln 1- ln 80 - ln 83)/((ln 33) x 100))			14.93%
11	NET PLANT CARRYING CHARGE ON LINE 10, w/o Return, income taxes or ROE incentives (Note B)				
12	Annual Rate	((ln 1 - ln 80 - ln 83 - ln 108 - ln 109) /((ln 33) x 100))			6.99%
13	ADDITIONAL REVENUE REQUIREMENT for projects w/ incentive ROE's (Note B) (Worksheet J/K)				-
14	REVENUE REQUIREMENT FOR SCHEDULE 1A CHARGES				
15	Total Load Dispatch & Scheduling (Account 561)	Line 63 Below			2,158,000
16	Less: Load Dispatch - Scheduling, System Control and Dispatch Services (321.88.b)				
17	Less: Load Dispatch - Reliability, Planning & Standards Development Services (321.92.b)				
18	Total 561 Internally Developed Costs	(Line 15 - Line 16 - Line 17)			2,158,000

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(1)		(2)	(3)	(4)		(5)
<u>RATE BASE CALCULATION</u>		<u>Data Sources</u> <u>(See "General Notes")</u>	<u>TO Total</u> <u>NOTE C</u>	<u>Allocator</u>		<u>Total</u> <u>Transmission</u>
Line No.						
19	GROSS PLANT IN SERVICE					
19	Transmission	(Worksheet A In 14.(d) & Ln 117)	2,934,458,077	DA	1.00000	2,934,458,077
20	Less: Transmission ARO (Enter Negative)	(Worksheet A In 14.(e))	-	TP	1.00000	-
21	General Plant	(Worksheet A In 14.(h))	123,344,154	W/S	1.00000	123,344,154
22	Less: General Plant ARO (Enter Negative)	(Worksheet A In 14.(i))	-	W/S	1.00000	-
23	Intangible Plant	(Worksheet A In 14.(j))	30,395,462	W/S	1.00000	30,395,462
24	TOTAL GROSS PLANT	(Sum of Lines: 19 to 23)	3,088,197,692	GP=	1.000000	3,088,197,692
				GTD=	1.00000	
25	ACCUMULATED DEPRECIATION AND AMORTIZATION					
26	Transmission	(Worksheet A In 28.(d) & Ln 43.(b))	202,421,154	TP1=	1.00000	202,421,154
27	Less: Transmission ARO (Enter Negative)	(Worksheet A In 28.(e))	-	TP1=	1.00000	-
28	General Plant	(Worksheet A In 28.(h))	2,981,923	W/S	1.00000	2,981,923
29	Less: General Plant ARO (Enter Negative)	(Worksheet A In 28.(i))	-	W/S	1.00000	-
30	Intangible Plant	(Worksheet A In 28.(j))	13,193,000	W/S	1.00000	13,193,000.00
31	TOTAL ACCUMULATED DEPRECIATION	(Sum of Lines: 26 to 30)	218,596,077			218,596,077
32	NET PLANT IN SERVICE					
33	Transmission	(In 19 + In 20 - In 26 - In 27)	2,732,036,923			2,732,036,923
34	General Plant	(In 21 + In 22 - In 28 - In 29)	120,362,231			120,362,231
35	Intangible Plant	(In 23 - In 30)	17,202,462			17,202,462
36	TOTAL NET PLANT IN SERVICE	(Sum of Lines: 33 to 35)	2,869,601,615	NP=	1.000000	2,869,601,615
37	DEFERRED TAX ADJUSTMENTS TO RATE BASE	(Note D)				
38	Account No. 281.1 (enter negative)	(Worksheet B, In 2 & In 5.E)	-	NA		-
39	Account No. 282.1 (enter negative)	(Worksheet B, In 7 & In 10.E)	(325,368,506)	DA		(467,597,835)
40	Account No. 283.1 (enter negative)	(Worksheet B, In 12 & In 15.E)	(8,970,494)	DA		128,752
41	Account No. 190.1	(Worksheet B, In 17 & In 20.E)	46,337,000	DA		1,232,561
42	Account No. 255 (enter negative)	(Worksheet B, In 24 & In 25.E)	-	DA		-
43	TOTAL ADJUSTMENTS	(sum Ins 38 to 42)	(288,002,000)			(466,236,523)
44	PLANT HELD FOR FUTURE USE	(Worksheet A In 44.(e)) In 45.(e))	-	DA		-
45	REGULATORY ASSETS	(Worksheet A In 51.(e))	-	DA		-
46	UNFUNDED RESERVES (ENTER NEGATIVE) (NOTE Y)	(Worksheet A In 54.(e))		W/S	1.00000	
47	WORKING CAPITAL	(Note E)				
48	Cash Working Capital	(1/8 * In 66)	4,165,375			4,165,375
49	Transmission Materials & Supplies	(Worksheet C, In 2.(F))	6,178,000	TP	1.00000	6,178,000
50	A&G Materials & Supplies	(Worksheet C, In 3.(F))	-	W/S	1.00000	-
51	Stores Expense	(Worksheet C, In 4.(F))	-	GP	1.00000	-
52	Prepayments (Account 165) - Labor Allocated	(Worksheet C, In 8.(G))	-	W/S	1.00000	-
53	Prepayments (Account 165) - Gross Plant	(Worksheet C, In 8.(F))	2,375,991	GP	1.00000	2,375,991
54	Prepayments (Account 165) - Transmission Only	(Worksheet C, In 8.(E))	-	DA	1.00000	-
55	Prepayments (Account 165) - Unallocable	(Worksheet C, In 8.(D))	-	NA	0.00000	-
56	TOTAL WORKING CAPITAL	(sum Ins 48 to 55)	12,719,366			12,719,366
57	IPP CONTRIBUTIONS FOR CONSTRUCTION	(Note F) (Worksheet D, In 8.B)	-	DA	1.00000	-
58	RATE BASE (sum Ins 36, 43, 44, 45, 46, 56, 57)		2,594,318,981			2,416,084,459

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	(1)	(2)	(3)		(4)	(5)
	EXPENSE, TAXES, RETURN & REVENUE REQUIREMENTS CALCULATION	Data Sources (See "General Notes")	TO Total	Allocator		Total Transmission
Line No.	OPERATION & MAINTENANCE EXPENSE					
59	Customer Related Expense	322 & 323.164,171,178.b	-			
60	Regional Marketing Expenses	322.131.b	-			
61	Transmission	321.112.b	35,481,000			
62	TOTAL O&M EXPENSES	(sum Ins 59 to 61)	35,481,000			
63	Less: Total Account 561	(Note G) (Worksheet F, In 14.C)	2,158,000			
64	Less: Account 565	(Note H) 321.96.b	-			
65	Less: Regulatory Deferrals & Amortizations	(Note I) (Worksheet F, In 4.C)	-			
66	Total O&M Allocable to Transmission	(Ins 61 - 63 - 64 - 65)	33,323,000	TP	1.00000	33,323,000
67	Administrative and General	323.197.b (Notes J & M)	10,428,000			
68	Less: Acct. 924, Property Insurance	323.185.b	479,000			
69	Acct. 928, Reg. Com. Exp.	323.189.b	-			
70	Acct. 930.1, Gen. Advert. Exp.	323.191.b	-			
71	Acct. 930.2, Misc. Gen. Exp.	323.192.b	99,000			
72	Balance of A & G	(In 67 - sum In 68 to In 71)	9,850,000	W/S	1.00000	9,850,000
73	Plus: Acct. 924, Property Insurance	(In 68)	479,000	GP(h)	1.00000	479,000
74	Acct. 928 - Transmission Specific	Worksheet F In 21.(E) (Note L)	-	TP	1.00000	-
75	Acct 930.1 - Only safety related ads -Direct	Worksheet F In 38.(E) (Note L)	-	TP	1.00000	-
76	Acct 930.2 - Misc Gen. Exp. - Trans	Worksheet F In 43.(E) (Note L)	15,000	DA	1.00000	15,000
77	PBOP Adjustment	Worksheet O Ln 16.(B), (Note K & M)	366,498	W/S	1.00000	366,498
78	A & G Subtotal	(sum Ins 72 to 77)	10,710,498			10,710,498
79	O & M EXPENSE SUBTOTAL	(In 66 + In 78)	44,033,498			44,033,498
80	Plus: Transmission Lease Payments To Affiliates In Acct 565 (Company Records) (Note H)		-	DA	1.00000	-
81	TOTAL O & M EXPENSE	(In 79 + In 80)	44,033,498			44,033,498
82	DEPRECIATION AND AMORTIZATION EXPENSE					
83	Transmission	336.7.f	65,329,000	TP1	1.00000	65,329,000
84	General	336.10.f	3,115,000	W/S	1.00000	3,115,000
85	Intangible	336.1.f	5,777,000	W/S	1.00000	5,777,000
86	TOTAL DEPRECIATION AND AMORTIZATION	(Ln 83+84+85)	74,221,000			74,221,000
87	TAXES OTHER THAN INCOME	(Note N)				
88	Labor Related					
89	Payroll	Worksheet H In 23.(D)	-	W/S	1.00000	-
90	Plant Related					
91	Property	Worksheet H-p2 In 3.(C) & In 3.(G)	137,489,000	DA	1.00000	137,489,000
92	Gross Receipts/Sales & Use	Worksheet H In 23.(F)	1,000	NA	0.00000	-
93	Other	Worksheet H In 23.(E)	641,000	GP	1.00000	641,000
94	TOTAL OTHER TAXES	(sum Ins 89 to 93)	138,131,000			138,130,000
95	INCOME TAXES	(Note O)				
96	T=1 - [(1 - SIT) * (1 - FIT)] / (1 - SIT * FIT * p) =		21.00%			
97	EIT=(T/(1-T)) * (1-(WCLTD/WACC)) =		19.99%			
98	where WCLTD=(In 136) and WACC = (In 139)					
99	and FIT, SIT & p are as given in Note O.					
100	GRCF=1 / (1 - T) = (from In 96)		1.2658			
101	Amortized Investment Tax Credit (enter negative)	(FF1 p.114, In 19.c)	-			
102	Excess Deferred Income Tax	(Note T)	53,367	NP(h)	1.00000	53,367
103	Tax Effect of Permanent and Flow-Through Differences	(Note T)	380,310	NP(h)	1.00000	380,310
104	Income Tax Calculation	(In 97 * In 109)	38,695,209			36,036,776
105	ITC adjustment	(In 100 * In 101)	-	NP(h)	1.00000	-
106	Excess Deferred Income Tax	(In 100 * In 102)	67,553			67,553
107	Tax Effect of Permanent and Flow-Through Differences	(In 100 * In 103)	481,405			481,405
108	TOTAL INCOME TAXES	(sum Ins 104 to 107)	39,244,167			36,585,734
109	RETURN ON RATE BASE (Rate Base*WACC)	(In 58 * In 139)	193,568,002			180,269,521
110	INTEREST ON IPP CONTRIBUTION FOR CONST. (Note F) (Worksheet D, In 2.(B))		-	DA	1.00000	-
111	(Gains) / Losses on Sales of Plant Held for Future Use (Worksheet N, In 4, Cols. ((F) & (H))		-			-
112	Tax Impact on Net Loss / (Gain) on Sales of Plant Held for Future Use (In 111 * In97)		-			-
113	TOTAL REVENUE REQUIREMENT (sum Ins 81, 86, 94, 108, 109, 110, 111, 112)		489,197,666			473,239,753

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SUPPORTING CALCULATIONS

No.	TRANSMISSION PLANT INCLUDED IN PJM TARIFF									
114	Total transmission plant		(In 19)							2,934,458,077
115	Less transmission plant excluded from PJM Tariff		(Worksheet A, In 42.(d)) (Note P)							
116	Less transmission plant included in OATT Ancillary Services		(Worksheet A, In 42, Col. (b)) (Note Q)							-
117	Transmission plant included in PJM Tariff		(In 114 - In 115 - In 116)							2,934,458,077
118	Percent of transmission plant in PJM Tariff		(In 117 / In 114)						TP=	1.00000
119	WAGES & SALARY ALLOCATOR (W/S)		(Note R)	Direct Payroll	Payroll Billed from AEP Service Corp.	Total				
120	Line Deliberately Left Blank									
121	Transmission		354.21.b	-	8,507,057	8,507,057	TP	1.00000		8,507,057
122	Regional Market Expenses		354.22.b	-		-	NA	0.00000		-
123	Line Deliberately Left Blank									
124	Other (Excludes A&G)		354.24,25,26.b	-	-	-	NA	0.00000		-
125	Total		(sum Ins 121, 122, & 124)	-	8,507,057	8,507,057				8,507,057
126	Transmission related amount								W/S=	1.00000
127	Actual (Uncapped) Capital Structure									
128	WEIGHTED AVERAGE COST OF CAPITAL (WACC)									\$
128	Long Term Interest		(Worksheet M, In.36, col.(d))							54,412,000
129	Preferred Dividends		(Worksheet M, In. 45, col.(d))							-
130	Development of Common Stock:									
131	Proprietary Capital		(Worksheet M, In. 14, col.(b))							1,594,319,154
132	Less: Preferred Stock		(Worksheet M, In. 14, col.(c))							-
133	Less: Account 216.1		(Worksheet M, In. 14, col.(d))							-
134	Less: Account 219		(Worksheet M, In. 14, col.(e))							-
135	Common Stock		(In 131 - In 132 - In 133 - In 134)							1,594,319,154
136	Long Term Debt (Note S) Worksheet M, In 28, col. (g), In 37, col. (d))									
137	Preferred Stock (In 132)									
138	Common Stock (In 135)									
139	Total (Sum Ins 136 to 138)									
140	Capital Structure Equity Limit (Note Z)			55.00%						

Capital Structure Percentages				Cost		Weighted
\$	%	Cap Limit	(Note S)			
1,346,538,462	45.79%	45.79%	4.04%			0.0185
-	0.00%	0.00%	0.00%			0.0000
1,594,319,154	54.21%	54.21%	10.35%			0.0561
2,940,857,615	100.00%					
WACC=						0.0746

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Letter

Notes

General Notes: a) References to data from Worksheets are indicated as: Worksheet X, Line#.Column.X

- A
- Revenue credits include:
1) Forfeited Discounts.
2) Miscellaneous Service Revenues.
3) Rental revenues earned on assets included in the rate base.
4) Revenues for associated business projects provided by employees whose labor and overhead costs are in the transmission cost of service.
5) Other electric revenues.
6) Revenues for grandfathered PTP contracts included in the load divisor.
7) If AEP Transmission Companies have any directly assigned transmission facilities, the revenue credits in the formula rate shall include all revenues associated with those directly assigned transmission facilities, irrespective of whether the loads of the customer are included in the formula rate divisor; provided however, such addition to revenue credits shall not be reflected if the costs of such directly assigned transmission facilities are not included in the transmission plant balances on which the formula rate ATRR is based. See Worksheet E for details.
- B
- The annual and monthly net plant carrying charges on page 1 are used to compute the revenue requirement for RTEP sponsored upgrades or those projects receiving approved incentive-ROE's. Interest will be calculated based on Worksheet R and any over under recovery will be filed and posted as part of the informational filing.
- C
- Transmission Plant Balances in this study are projected or actual average 13 month balances.
- D
- The total-company balances shown for Accounts 281, 282, 283, 190 only reflect ADIT that relates to utility operations. The balance of Account 255 is reduced by prior flow throughs and is completely excluded if the utility chose to utilize amortization of tax credits against FIT expense. An exception to this is pre-1971 ITC balances, which are required to be taken as an offset to rate base. Account 281 is not allocated. In compliance with FERC Rulemaking RM02-7-000, Asset Retirement Obligation deferrals have been removed from ratebase. Transmission ADIT allocations are shown on WS B.
In compliance with FERC Rulemaking the calculation of ADIT in the annual projection will be performed in accordance with IRS regulation Section 1.167(l)-(h)(6)(ii). Detailed balances for the projected or actual period, distinguished between utility and non-utility balances, will be filed and posted as part of the informational filing.
The company will not include the ADIT portion of deferred hedge gains and losses in rate base.
- E
- Cash Working Capital assigned to transmission is one-eighth of O&M allocated to transmission, as shown on line 66. It excludes:
1) Load Scheduling & Dispatch Charges in account 561 that are collected in the OATT Ancillary Services Revenue, as shown on line 63.
2) Costs of Transmission of Electricity by Others, as described in Note H.
3) The impact of state regulatory deferrals and amortizations, as shown on line 65
4) All A&G Expenses, as shown on line 78.
- F
- Consistent with Paragraph 657 of Order 2003-A, the amount on line 57 is equal to the balance of IPP System Upgrade Credits owed to transmission customers that made contributions toward the construction of System upgrades, and includes accrued interest and unreturned balance of contributions. The annual interest expense is included on line 110.
- G
- Removes from the cost of service the Load Scheduling and Dispatch expenses booked to accounts 561.1 through 561.8. Expenses recorded in these accounts, with the exception of 561.4 & 561.8 (lines 16 & 17 above) are recovered in Schedule 1A, OATT ancillary services rates. See Worksheet F, lines 5 through 14, for descriptions and the Form 1 Source of these accounts' balances.
- H
- Removes cost of transmission service provided by others to determine the basis of cash working capital on line 66. To the extent such service is incurred to provide the PJM service at issue, e.g. lease payments to affiliates, such costs are added back on line 80 to determine the total O&M collected in the formula. The amounts on line80 is also excluded in the calculation of the FCR percentage calculated on lines 6 through 12.

The addbacks on line80 of activity recorded in 565 represents inter-company sales or purchases of transmission capacity necessary to meet each AEP company's transmission load relative to their available transmission capacity.

The company records referenced on line80 is the AEP Ohio Transmission Company general ledger.
- I
- Removes the impact of state regulatory deferrals or their amortization from Transmission O&M expense.
- J
- General Plant and Administrative & General expenses, other than in accounts 924, 928, and 930, will be functionalized based on the Wages & Salaries "W/S" allocator. The allocation basis for accounts 924, 928 and 930 are separately presented in the formula. A change in the allocation method for an account must be approved via a 205 filing with the FERC.
- K
- The Post-employment Benefit Other than Pension (PBOP) expense is fixed based on an approved ratio of PBOP expense to direct labor expense.
- L
- Expenses reported for these A&G accounts will be included in the cost of service only to the extent they are directly assignable to transmission service. Worksheet F allocates these expense items. Acct 928 Includes Regulatory Commission expenses itemized in FERC Form-1 at page 351, column H. FERC Assessment Fees and Annual Charges shall not be allocated to transmission. Only safety-related and educational advertising costs in Account 930.1 are included in the TCOS. Account 930.2 includes the expenses incurred by the transmission function for Associated Business Development revenues given as a credit to the TCOS on Worksheet E.
- M
- See note K above. Recoverable PBOP expense is based on a rate of \$(0.058) cents per dollar of direct labor. This rate may be adjusted up or down every four years based on a comparison of the Allowable TransCo PBOP Expense and the Actual PBOP Expense for a four year Historic and four year Projected period. If the over or under collection is greater than plus or minus 20% of the recoverable amount, an adjustment will be proposed in a Section 205 rate filing.
- N
- Includes only FICA, unemployment, highway, property and other assessments. Gross receipts, sales & use and taxes related to income are excluded.
- O
- 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. See Worksheet G for the development of the Company's composite SIT.
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)
(In 101) multiplied by (1/(1-T)) . If the applicable tax rates are zero enter 0.
Inputs Required:
FIT = 21.00%
SIT= 0.00% (State Income Tax Rate or Composite SIT, Worksheet G)
p = 0.00% (percent of federal income tax deductible for state purposes)
- P
- The formula rate shall reflect the applicable state and federal statutory tax rates in effect during the period the calculated estimated unit charges are applicable. If the statutory tax rates change during such period, the effective tax rates used in the formula shall be weighted by the number of days the pre-change rate and post-change rate each is in effect.
- Q
- Removes plant excluded from the OATT because it does not meet the PJM's definition of Transmission Facilities or is otherwise ineligible to be recovered under the OATT.
- R
- Removes transmission plant (e.g. step-up transformers) included in the development of OATT ancillary service rates and not already removed for reasons indicated in Note P.
- S
- Includes functional wages & salaries billed by AEP Service Corporation for support of the operating company.
- T
- Long Term Debt cost rate = long-term interest (Ln 128)/average long term debt (Ln 136). Preferred Stock cost rate = preferred dividends (Ln 129)/preferred outstanding (Ln 137).
Common Stock cost rate (ROE) = 11.49%, the rate accepted by FERC in Docket No. ER10-355. It includes an additional 50 basis points for PJM RTO membership. All Transmission Companies other than AEP Appalachian Transmission Company utilize their own capital structure and costs as shown on Worksheet M. The calculations on Worksheet M will use the projected or actual 13 month average balances of long-term debt, common and preferred equity and calendar year long term debt interest expenses, preferred dividends and approved ROE. The long term debt balances and long term debt cost rate shall not include any amounts related to hedging activity. As shown on Worksheet Q, the AEP Appalachian Transmission Company capital structure and weighted cost of capital (WACC) shall be based on the weighted composite of the AEP East Operating Companies beginning and ending average outstanding LTD and PS issuances with the common equity portion in Docket No. ER08-1329, and (2) the weighted composite LTD and PS cost using projected or actual calendar year LTD expense and PS dividends of the AEP East Operating Companies excluding all interest rate hedging costs and/or gains, until the Company establishes its own actual capital structure.
- U
- Excess / (Deficit) Deferred Income Taxes will be amortized over the average remaining life of the assets to which it relates, unless the Commission requires a different amortization period. The Tax Effect of Permanent Differences captures the differences in the income taxes due under the Federal and State tax calculations that are not the result of a timing difference, including but not limited to depreciation related to capitalized AFUDC equity and meals and entertainment deductions. The Tax Effect of Flow-Through differences captures current tax expense related to timing differences on items for which tax deductions were used to reduce customer rates through the use of flow-through accounting in a prior period. Transmission balances for the projected or actual period, will be filed and posted as part of the informational filing.
- V
- Cash investment in prepaid pension and benefits recorded in FERC Account 165 is permitted to be included in the formula. A labor expense allocation factor will be used to allocate total company costs. All
- W
- The formula rate shall allocate property tax expense based on the as filed net plant cost allocation method detailed on Worksheet H.
- X
- AEP Transmission Companies will record depreciation expense using composites of the depreciation rates shown on Worksheet P which rates will not be changed absent a Section 205 or 206 filing at FERC to seek a change in depreciation rates. No other changes to the formula rate may be included in that filing.
- Y
- Under Section 30.9 of the PJM OATT, a network customer that owns existing transmission facilities that are integrated with the Transmission Provider's Transmission System may be eligible to receive consideration either through a billing credit or some other mechanism. Calculation of any credit under this subsection, pursuant to approval by FERC for inclusion in this formula rate for collection on behalf of the network customer, shall be addressed in either the Network Customer's Service Agreement or any other agreement between the parties.
- Z
- The cost of service will make a rate base adjustment to remove unfunded reserves associated with contingent liabilities recorded to Accounts 228.1-228.4 from rate base.
Per the settlement in EL17-13, equity is limited to 55% of the Company's capital structure. If the percentage of actual equity exceeds the cap, the excess is included as long term debt in the capital structure.

AEPTCo subsidiaries in PJM
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet A Rate Base
AEP Ohio Transmission Company

		Gross Plant In Service				
Line No	Month (a)	Transmission (d)	Transmission ARO (e)	General (h)	General ARO (i)	Intangible (j)
	(Note A)	FF1, page 207 Col.(g) & pg. 206 Col. (b), In 58	FF1, page 207 Col.(g) & pg. 206 Col. (b), In 57	FF1, page 207 Col.(g) & pg. 206 Col. (b), In 99	FF1, page 207 Col.(g) & pg. 206 Col. (b), In 98	FF1, page 205 Col.(g) & pg. 204 Col. (b), In 5
1	December Prior to Rate Year	2,698,217,000	-	89,148,000	-	27,694,000
2	January	2,712,242,000	-	89,182,000	-	28,545,000
3	February	2,717,100,000	-	127,547,000	-	29,146,000
4	March	2,756,080,000	-	128,610,000	-	29,487,000
5	April	2,771,694,000	-	129,759,000	-	29,824,000
6	May	2,848,420,000	-	129,780,000	-	30,150,000
7	June	2,977,927,000	-	129,802,000	-	30,471,000
8	July	2,994,248,000	-	129,823,000	-	30,791,000
9	August	3,010,516,000	-	129,876,000	-	31,113,000
10	September	3,038,639,000	-	129,929,000	-	31,437,000
11	October	3,054,552,000	-	129,967,000	-	31,783,000
12	November	3,154,281,000	-	130,006,000	-	32,154,000
13	December of Rate Year	3,414,039,000	-	130,045,000	-	32,546,000
14	Average of the 13 Monthly Balances	2,934,458,077	-	123,344,154	-	30,395,462

		Accumulated Depreciation				
Line No	Month (a)	Transmission (d)	Transmission ARO (e)	General (h)	General ARO (i)	Intangible (j)
	(Note A)	FF1, page 219, In 25, Col. (b)	Company Records (Included in total in Column (d))	FF1, page 219, In 28, Col. (b)	Company Records (Included in total in Column (h))	FF1, page 200, In 21, Col. (b)
15	December Prior to Rate Year	171,520,000	-	1,493,000	-	10,369,000
16	January	176,452,000	-	1,681,000	-	10,810,000
17	February	181,410,000	-	1,870,000	-	11,265,000
18	March	186,377,000	-	2,139,000	-	11,730,000
19	April	191,417,000	-	2,411,000	-	12,199,000
20	May	196,485,000	-	2,686,000	-	12,675,000
21	June	201,698,000	-	2,960,000	-	13,155,000
22	July	207,153,000	-	3,234,000	-	13,640,000
23	August	212,640,000	-	3,509,000	-	14,131,000
24	September	218,157,000	-	3,783,000	-	14,627,000
25	October	223,727,000	-	4,058,000	-	15,128,000
26	November	229,326,000	-	4,333,000	-	15,634,000
27	December of Rate Year	235,113,000	-	4,608,000	-	16,146,000
28	Average of the 13 Monthly Balances	202,421,154	-	2,981,923	-	13,193,000

AEPTCo subsidiaries in PJM
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet A Rate Base
AEP Ohio Transmission Company

Line No	Month (a)	OATT Ancillary Services (GSU) Plant In Service (b)	OATT Ancillary Services (GSU) Accumulated Depreciation (c)	Excluded Plant - Plant In Service (d)	Excluded Plant - Accumulated Depreciation (e)
	(Note A)	Company Records (included in total in column (d) of gross plant above)	Company Records (included in total in column (d) of accumulated depreciation above)	Company Records	Company Records
29	December Prior to Rate Year	-	-	-	-
30	January	-	-	-	-
31	February	-	-	-	-
32	March	-	-	-	-
33	April	-	-	-	-
34	May	-	-	-	-
35	June	-	-	-	-
36	July	-	-	-	-
37	August	-	-	-	-
38	September	-	-	-	-
39	October	-	-	-	-
40	November	-	-	-	-
41	December of Rate Year	-	-	-	-
42	Average of the 13 Monthly Balances	-	-	-	-

43 Transmission Accumulated Depreciation net of GSU 202,421,154

<u>Plant Held For Future Use</u>		<u>Source of Data</u>	<u>Balance @ December 31, 2019</u>	<u>Balance @ December 31, 2018</u>	<u>Average Balance for 2019</u>
(a)	(b)		(c)	(d)	(e)
44 <u>Plant Held For Future Use</u>	FF1, page 214, ln 47, Col. (d)		-	-	-
45 <u>Transmission Plant Held For Future Use (Included in total on line 4</u>	Company Records - Note 1		-	-	-

Regulatory Assets and Liabilities Approved for Recovery In Ratebase

Note: Regulatory Assets & Liabilities can only be included in ratebase pursuant to a 205 filing with the FERC.

46		-
47		-
48		-
49		-
50		-
51	Total Regulatory Deferrals Included in Ratebase	-

Unfunded Reserves Summary (Company Records)

AEPTCo subsidiaries in PJM
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet A Rate Base
AEP Ohio Transmission Company

52	<u>Description</u>	<u>Account</u>			
53a					-
53b					-
54		Total	-	-	-

NOTE 1: On this worksheet, "Company Records" refers to AEP's property accounting ledger.
NOTE 2: The ratebase should not include the unamortized balance of hedging gains or losses.

AEPTCo subsidiaries in PJM
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet B Supporting ADIT and ITC Balances
AEP Ohio Transmission Company

<u>Line Number</u>	<u>(A) Description</u>	<u>(B) Source</u>	<u>(C) Balance @ December 31, 2019</u>	<u>(D) Balance @ December 31, 2018</u>	<u>(E) Average Balance for 2019</u>
1	<u>Account 281</u>				
2	Year End Utility Deferrals	FF1, p. 272 - 273, In 8, Col. (k)	-	-	-
3	Less: ARO Related Deferrals	WS B-1 - Actual Stmt. AF Ln. 4 (Note 1)	-	-	-
4	Less: Other Excluded Deferrals	WS B-1 - Actual Stmt. AF Ln. 3 (Note 1)	-	-	-
5	Transmission Related Deferrals	Ln 2 - In 3 - In 4	-	-	-
6	<u>Account 282</u>				
7	Year End Utility Deferrals	FF1, p. 274 - 275, In 5, Col. (k)	332,182,953	318,554,059	325,368,506
8	Less: ARO Related Deferrals	WS B-1 - Actual Stmt. AF Ln. 7 (Note 1)	-	-	-
9	Less: Other Excluded Deferrals	WS B-1 - Actual Stmt. AF Ln. 6 (Note 1)	(138,571,621)	(145,887,038)	(142,229,329)
10	Transmission Related Deferrals	Ln 7 - In 8 - In 9	470,754,573	464,441,097	467,597,835
11	<u>Account 283</u>				
12	Year End Utility Deferrals	FF1, p. 276 - 277, In 9, Col. (k)	8,937,047	9,003,941	8,970,494
13	Less: ARO Related Deferrals	WS B-1 - Actual Stmt. AF Ln. 13 (Note 1)	-	-	-
14	Less: Other Excluded Deferrals	WS B-1 - Actual Stmt. AF Ln. 12 (Note 1)	9,099,246	9,099,246	9,099,246
15	Transmission Related Deferrals	Ln 12 - In 13 - In 14	(162,199)	(95,305)	(128,752)
16	<u>Account 190</u>				
17	Year End Utility Deferrals	FF1, p. 234, In 8, Col. (c)	46,337,000	46,337,000	46,337,000
18	Less: ARO Related Deferrals	WS B-2 - Actual Stmt. AG Ln. 4 (Note 1)	-	-	-
19	Less: Other Excluded Deferrals	WS B-2 - Actual Stmt. AG Ln. 3 (Note 1)	45,104,439	45,104,439	45,104,439
20	Transmission Related Deferrals	Ln 17 - In 18 - In 19	1,232,561	1,232,561	1,232,561
21	<u>Account 255</u>				
22	Year End ITC Balances	FF1, p. 266-267, In 8, Col. (h)	-	-	-
23	Less: Balances Not Qualified for Ratebase	Company Records - Note 1	-	-	-
24	ITC Balances Includeable in Ratebase	Ln 22 - In 23	-	-	-
25	Transmission Related Deferrals	WS B-1 - Actual Stmt. AF Ln. 20 (Note 1)	-	-	-

NOTE 1 On this worksheet, "Company Records" refers to AEP's tax forecast and accounting ledger. The PTRR will use projected ending balances and reflect proration required by IRS Letter Rule Section I.167(I)-I(h)(6)(ii). Line item detail of actual deferred tax items will be included on Work

NOTE 2 ADIT balances should exclude balances related to hedging activity.

AEP Ohio Transmission Company
SPECIFIED DEFERRED CREDITS - Actual Cycle Only
PERIOD ENDED DECEMBER 31, 2019

(DEBIT) CREDIT

[illegible]

AEP Ohio Transmission Company
ACCUMULATED DEFERRED INCOME TAX IN ACCOUNT 190 - Actual Cycle Only
PERIOD ENDED DECEMBER 31, 2019

DEBIT (CREDIT)

	COLUMN A	COLUMN B	COLUMN C	COLUMN D	COLUMN E	COLUMN F	COLUMN G	COLUMN H	COLUMN I	COLUMN J	COLUMN K	COLUMN L	COLUMN M	COLUMN N	COLUMN O
		PER BOOKS		NON-APPLICABLE/NON-UTILITY		AVERAGE ELECTRIC UTILITY (B+C+D+E)/2	FUNCTIONALIZATION AVERAGE			FUNCTIONALIZATION 12/31/2018			FUNCTIONALIZATION 12/31/2019		
	ACCUMULATED DEFERRED FIT ITEMS	BALANCE AS OF 12-31-2018	BALANCE AS OF 12-31-2019	BALANCE AS OF 12-31-2018	BALANCE AS OF 12-31-2019		GENERATION	TRANSMISSION	DISTRIBUTION	GENERATION	TRANSMISSION	DISTRIBUTION	GENERATION	TRANSMISSION	DISTRIBUTION
1	ACCOUNT 190:														
2.01		0	0			0	0	0	0						
2.02		0	0			0	0	0	0						
2.80				0	0	0									
2.81				0	0	0									
2.82				0	0	0									
2.83				0	0	0									
2.84				0	0	0									
2.85				0	0	0									
2.86				0	0	0									
2.87				0	0	0									
2.88				0	0	0									
2.89				0	0	0									
2.90				0	0	0	0	0	0						
2.91		0	0			0	0	0	0						
3	TOTAL ACCOUNT 190	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	ACCOUNT 190 - ARO-Related Deferrals	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AEPTCo subsidiaries in PJM
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet C Supporting Working Capital Rate Base Adjustments
AEP Ohio Transmission Company

(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
Materials & Supplies								
Line Number	Source	Balance @ December 31, 2019	Balance @ December 31, 2018	Average Balance for 2019				
1								
2	Transmission Materials & Supplies	FF1, p. 227, ln 8, Col. (c) & (b)	6,178,000	6,178,000	6,178,000			
3	General Materials & Supplies	FF1, p. 227, ln 11, Col. (c) & (b)			-			
4	Stores Expense (Undistributed) - Account 163	FF1, p. 227, ln 16, Col. (c) & (b)			-			
Prepayment Balance Summary (Note 1)								
5	Average of YE Balance	Excludable Balances	100% Transmission Related	Transmission Plant Related	Transmission Labor Related	Total Included in Ratebase (E)+(F)+(G)		
6	Totals as of December 31, 2019	2,375,991	0	0	2,375,991	0	2,375,991	
7	Totals as of December 31, 2018	2,375,991	0	0	2,375,991	0	2,375,991	
8	Average Balance	2,375,991	-	-	2,375,991	-	2,375,991	

Prepayments Account 165 - Balance @ 12/31/2019									
9	Acc. No.	Description	2019 YE Balance	Excludable Balances	100% Transmission Related	Transmission Plant Related	Transmission Labor Related	Total Included in Ratebase (E)+(F)+(G)	Explanation
10	1650001	Prepaid Insurance	239,327	-		239,327		239,327	Plant Related Insurance Policies
11	165000218	Prepaid Taxes	-	-		-		-	Prepaid Taxes
12	1650006	Other Prepayments	1,756,935	-		1,756,935		1,756,935	Prepaid Transmission Projects
13	165001218	Prepaid Use Taxes	13,796	-		13,796		13,796	Prepaid Use Taxes
14	1650021	Prepaid Insurance EIS	79,829	-		79,829		79,829	Plant Related Insurance Policies
15	1650023	Prepaid Lease	286,104	-		286,104		286,104	Prepaid Lease
16	1650003	Prepaid Rents	-	-		-		-	
17	1650004	Prepaid Interest	-	-		-		-	
18	1650010	Prepaid Pension Benefits	-	-		-		-	
19	1650014	FAS 158 Qual Contra Asset	-	-		-		-	
20	1650016	FAS 112 ASSETS	-	-		-		-	
21				-		-	-	-	
22				-		-	-	-	
23				-		-	-	-	
24				-		-	-	-	
25				-		-	-	-	
Subtotal - Form 1, p 111.57.c			2,375,991	0	0	2,375,991	0	2,375,991	

Prepayments Account 165 - Balance @ 12/31/ 2018									
26	Acc. No.	Description	2018 YE Balance	Excludable Balances	100% Transmission Related	Transmission Plant Related	Transmission Labor Related	Total Included in Ratebase (E)+(F)+(G)	Explanation
27	1650001	Prepaid Insurance	239,327			239,327		239,327	Plant Related Insurance Policies
28	165000218	Prepaid Taxes	-	-		-		-	Prepaid Taxes
29	1650006	Other Prepayments	1,756,935	-		1,756,935		1,756,935	Prepaid Transmission Projects
30	165001218	Prepaid Use Taxes	13,796	-		13,796		13,796	Prepaid Use Taxes
31	1650021	Prepaid Insurance EIS	79,829	-		79,829		79,829	Plant Related Insurance Policies
32	1650023	Prepaid Lease	286,104	-		286,104		286,104	Prepaid Lease
33	1650003	Prepaid Rents	-	-		-		-	
34	1650004	Prepaid Interest	-	-		-		-	
35	1650010	Prepaid Pension Benefits	-	-		-		-	
34	1650014	FAS 158 Qual Contra Asset	-	-		-		-	
35	1650016	FAS 112 ASSETS	-	-		-		-	
36				-		-	-	-	
37				-		-	-	-	
38				-		-	-	-	
39				-		-	-	-	
40				-		-	-	-	
	Subtotal - Form 1, p 111.57.d		2,375,991	0	0	2,375,991	0	2,375,991	

Note 1: Prepayment Balance will not include: (i) federal and state income tax payments made to offset additional tax liabilities resulting (or expected to result) from prior federal or state audits or from the filing of one or more amended income tax returns; (ii) outstanding income tax refunds due to [company] resulting (or expected to result) from prior federal or state audits or from the filing of one or more amended income tax returns; or (iii) prepayments of federal or state income taxes which are attributable to income earned during periods prior to January 1 of the year depicted in the Balance Sheet (as described in USofA Account 236).

AEPTCo subsidiaries in PJM
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet D Supporting IPP Credits
AEP Ohio Transmission Company

<u>Line Number</u>	<u>(A) Description</u>	<u>(B) 2019</u>
1	Net Funds from IPP Customers 12/31/2018 (2019 FORM 1, P269)	-
2	Interest Expense (Company Records - Note 1)	-
3	Revenue Credits to Generators (Company Records - Note 1)	-
4	<u>Other Adjustments</u>	
5	Accounting Adjustment (Company Records - Note 1)	-
6		-
7	Net Funds from IPP Customers 12/31/2019 (2019 FORM 1, P269)	-
8	Average Balance for Year as Indicated in Column $((\text{Ln } 1 + \text{Ln } 7)/2)$	-

Note 1 On this worksheet Company Records refers to AEP Ohio Transmission Company's general ledger.

AEPTCo subsidiaries in PJM
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet E Supporting Revenue Credits
AEP Ohio Transmission Company

<u>Line Number</u>	<u>Description</u>	<u>Total Company</u>	<u>Non- Transmission</u>	<u>Transmission</u>
1	Account 450, Forfeited Discounts (FF1 p.300.16.(b); Company Records - Note 1)		-	
2	Account 451, Miscellaneous Service Revenues (FF1 p.300.17.(b); Company Records - Note 1)		-	
3	Account 454, Rent from Electric Property (FF1 p.300.19.(b); Company Records - Note 1)	9,147,000	-	9,147,000
4	Account 4560015, Associated Business Development - (Company Records - Notes 1, 2)		-	
5	Account 456 - Other Electric Revenues - (Company Records - Notes 1,2)	472,017,000	472,017,000	
5a	Account 457.1, Regional Control Service Revenues (FF1 p.300.23.(b); Company Records - Note 1)		-	
5b	Account 457.2, Miscellaneous Revenues (FF1 p.300.24.(b); Company Records - Note 1)		-	
6	Subtotal - Other Operating Revenues (Company Total equals (FF1 p. 300.26.(b))	481,164,000	472,017,000	9,147,000
7	Accounts 4470004 & 5, Revenues from Grandfathered Transmission Contracts - (Company Records - Note 1)		-	
8	Total Other Operating Revenues To Reduce Revenue Requirement	481,164,000	472,017,000	9,147,000
9	Facility Credits under PJM OATT Section 30.9			421,122

Note 1 The total company data on this worksheet comes from the indicated FF1 source, or AEP Ohio Transmission Company's general ledger. The functional amounts identified as transmission revenue also come from the general ledger.

Note 2 The total of line 4 and line 5 will equal total Account 456 as listed on FF1 p.300.21-22.(b)

AEPTCo subsidiaries in PJM
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet F Supporting Allocation of Specific O&M or A&G Expenses
AEP Ohio Transmission Company

Formula Rate
WS F Misc Exp
Page 15 of 50

	(A)	(B)	(C)	(D)	(E)	(F)
Line Number	Item No.	Description	2019 Expense	100% Non-Transmission	100% Transmission Specific	Explanation
Regulatory O&M Deferrals & Amortizations						
1						
2						
3						
4						
4	Total		-			
Detail of Account 561 Per FERC Form 1						
5						
6	FF1 p 321.85.b	561.1 - Load Dispatch - Reliability	20,000			
7	FF1 p 321.86.b	561.2 - Load Dispatch - Monitor & Operate Trans System	1,626,000			
8	FF1 p 321.87.b	561.3 - Load Dispatch - Trans Service & Scheduling	-			
9	FF1 p 321.88.b	561.4 - Scheduling, System Control & Dispatch	-			
10	FF1 p 321.89.b	561.5 - Reliability, Planning and Standards Development	512,000			
11	FF1 p 321.90.b	561.6 - Transmission Service Studies				
12	FF1 p 321.91.b	561.7 - Generation Interconnection Studies				
13	FF1 p 321.92.b	561.8 - Reliability, Planning and Standards Development Services				
14	Total of Account 561		2,158,000			
Account 928						
15				-	-	
16				-	-	
17				-	-	
18				-	-	
19				-	-	
20				-	-	
21	Total (FERC Form 1 p.323.189.b)		-	-	-	
Account 930.1						
22				-	-	
23				-	-	
24				-	-	
25				-	-	
26				-		
27				-	-	
28				-	-	
29				-	-	
30				-	-	
31				-	-	
32				-	-	
33				-	-	
34				-	-	
35				-	-	
36				-	-	
37	-	-				
38	Total (FERC Form 1 p.323.191.b)		-	-	-	
Account 930.2						
39	9302000	Misc General Expenses	83,000	83,000	-	
40	9302003	Corporate & Fiscal Expenses	-	-	-	
41	9302004	Research, Develop&Demonstr Exp	-	-	-	
42	9302007	Assoc Business Development Exp	15,000	-	15,000	
43	Total (FERC Form 1 p.323.192.b)		98,000	83,000	15,000	

AEPTCo subsidiaries in PJM
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet G Supporting - Development of Composite State Income Tax Rate
AEP Ohio Transmission Company

1	Ohio State Tax Rate	0.14%	
	Apportionment Factor - Note 1	0.00%	
	Effective State Tax Rate		0.00%
2	_____ Tax Rate		
	Apportionment Factor - Note 1		
	Effective State Tax Rate		0.00%
3	_____ Tax Rate		
	Apportionment Factor - Note 1		
	Effective State Tax Rate		0.00%
4	_____ Tax Rate		
	Apportionment Factor - Note 1		
	Effective State Tax Rate		0.00%
5	_____ Tax Rate		
	Apportionment Factor - Note 1		
	Effective State Tax Rate		0.00%
	Total Effective State Income Tax Rate		<u>0.00%</u>

Note 1 Apportionment Factors are determined as part of the Company's annual tax return for that jurisdiction.

AEPTCo subsidiaries in PJM
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet H page 1 Supporting Taxes Other than Income
AEP Ohio Transmission Company

Line No.	(A) Account	(B) Total Company NOTE 1	(C) Property	(D) Labor	(E) Other	(F) Non-Allocable
1	Revenue Taxes					
2	Gross Receipts Tax	1,000				1,000
3	Real Estate and Personal Property Taxes					
4	Real and Personal Property - Ohio	137,489,000	137,489,000			
5	Real and Personal Property -	-	-			
6	Real and Personal Property -	-	-			
7	Real and Personal Property - Other Jurisdictions	-	-			
8	Payroll Taxes					
9	Federal Insurance Contribution (FICA)	-		-		
10	Federal Unemployment Tax	-		-		
11	State Unemployment Insurance	-		-		
12	<i>Line Deliberately Left Blank</i>					
13	State Severance Taxes	-				-
14	Miscellaneous Taxes					
15	State Business & Occupation Tax	-				-
16	State Public Service Commission Fees	641,000			641,000	
17	State Franchise Taxes	-			-	
18	State Lic/Registration Fee	-			-	
19	Misc. State and Local Tax	-			-	
20	Sales & Use	-				-
21	Federal Excise Tax	-				-
22	Michigan Single Business Tax	-				-
23	Total Taxes by Allocable Basis	138,131,000	137,489,000	-	641,000	1,000

(Total Company Amount Ties to FFI p.114, Ln 14,(c))

NOTE 1: The detail of each total company number and its source in the FERC Form 1 is shown on WS H-1.

Functional Property Tax Allocation					
	Lines 24-58 Column (B) Deliberately Left Blank	Transmission	Lines 24-58 Column (D) Deliberately Left Blank	General	Total
24	Functionalized Net Plant (TCOS, Lns 33 thru 36)	-	2,732,036,923	-	2,852,399,154
OHIO JURISDICTION					
25	Percentage of Plant in OHIO JURISDICTION	100%		100.00%	
26	Net Plant in OHIO JURISDICTION (Ln 24 * Ln 25)	-	2,732,036,923	-	2,852,399,154
27	Less: Net Value of Exempted Generation Plant				
28	Taxable Property Basis (Ln 26 - Ln 27)	-	2,732,036,923	-	2,852,399,154
29	Relative Valuation Factor				-
30	Weighted Net Plant (Ln 28 * Ln 29)	-	-	-	-
31	General Plant Allocator (Ln 30 / (Total - General Plant))	0.00%	100.00%	0.00%	-100.00%
32	Functionalized General Plant (Ln 31 * General Plant)	-	-	-	-
33	Weighted OHIO JURISDICTION Plant (Ln 30 + 32)	-	-	-	-
34	Functional Percentage (Ln 33/Total Ln 33)	0.00%	100.00%	0.00%	
JURISDICTION					
35	Net Plant in JURISDICTION (Ln 24 - Ln 26)	-	-	-	-
36	Less: Net Value Exempted Generation Plant				
37	Taxable Property Basis	-	-	-	-
38	Relative Valuation Factor				
39	Weighted Net Plant (Ln 37 * Ln 38)	-	-	-	-
40	General Plant Allocator (Ln 39 / (Total - General Plant))	0.00%	100.00%	0.00%	-100.00%
41	Functionalized General Plant (Ln 41 * General Plant)	-	-	-	-
42	Weighted JURISDICTION Plant (Ln 39 + 41)	-	-	-	-
43	Functional Percentage (Ln 42/Total Ln 42)	0.00%	100.00%	0.00%	

(A)		(B)	(C)	(D)		
Line No.	Annual Tax Expenses by Type (Note 1)	Total Company	FERC FORM 1 Tie-Back	FERC FORM 1 Reference		
1	Revenue Taxes					
2	Gross Receipts Tax	1,000	1,000	P.263.1 ln 7 (i) P.263.2 ln 3 (i) P.263.2 ln 4 (i)		
(A)		(B)	(C)	(D)	(E)	(F)
"Real Estate and Personal Property Tax Detail Annual Tax Expenses by Type (Note 1)"		Tax Year	Total Company	FERC FORM 1 Tie-Back	FERC FORM 1 Reference	Tax Year Factor (Note 2)
Real Estate and Personal Property Taxes Total						
3	(Ln 4 + Ln 5 + Ln 6 + Ln 7)		137,489,000			137,489,000
4	Real and Personal Property - Ohio		137,489,000	137,489,000		100%
5	Real and Personal Property - Virginia		-			-
6	Real and Personal Property - Tennessee		-			-
7	Real and Personal Property - Other Jurisdictions		-			-

(A)		(B)	(C)	(D)	
Line No.	Annual Tax Expenses by Type (Note 1)	Total Company	FERC FORM 1 Tie-Back	FERC FORM 1 Reference	
8	Payroll Taxes				
9	Federal Insurance Contribution (FICA)	-		P.263 ln 6 (i)	
10	Federal Unemployment Tax	-		P.263 ln 9 (i)	
11	State Unemployment Insurance	-		P.263.1 ln 23 (i) P.263.2 ln 33 (i) P.263.3 ln 16 (i)	
12	<i>Line Left Deliberately Blank</i>				
13	State Severance Taxes	-			
14	Miscellaneous Taxes				
15	State Business & Occupation Tax	-		P.263 ln 21 (i) P.263 ln 22 (i)	
16	State Public Service Commission Fees	641,000	641,000	P.263 ln 26 (i) P.263 ln 27 (i) P.263.3 ln 20 (i)	
17	State Franchise Taxes	-		P.263 ln 12 (i) P.263 ln 13 (i) P.263.1 ln 34 (i) P.263.2 ln 10 (i) P.263.2 ln 11 (i) P.263.2 ln 38 (i) P.263.2 ln 39 (i) P.263.3 ln 27 (i) P.263.3 ln 28 (i) P.263.4 ln 20 (i) P.263.4 ln 27 (i)	
18	State Lic/Registration Fee	-		P.263.1 ln 15 (i) P.263.2 ln 13 (i) P.263.3 ln 8 (i) P.263.4 ln 21 (i)	
19	Misc. State and Local Tax	-		P.263.1 ln 12 (i)	
20	Sales & Use	-	-	P.263 ln 16 (i) P.263 ln 31(i) P.263.2 ln 16 (i) P.263.2 ln 17 (i) P.263.3 ln 21 (i)	
21	Federal Excise Tax	-		P.263 ln 13 (i) P.263 ln 14 (i)	
22	Michigan Single Business Tax	-			
23	Total Taxes by Allocable Basis (Total Company Amount Ties to FFI p.114, Ln 14,(c))	138,130,000	138,131,000		

Note 1: The taxes assessed on each transmission company can differ from year to year and between transmission companies by both the type of taxes and the states in which they were assessed. Therefore, for each company, the types and jurisdictions of tax expense recorded on this page could differ from the same page in the same company's prior year template or from this page in other transmission companies' current year templates. For each update, this sheet will be revised to ensure that the total activity recorded hereon equals the total reported in account 408.1 on P. 114, Ln 14.(c) of the Ferc Form 1.

Note 2: The transmission functional amounts for any Real Estate and Property taxes listed on pages 263 of the FERC Form 1 will be allocated using the transmission functional allocator calculated for each state in Worksheet H of the applicable year that the taxes were assessed. Real and Personal Property - Other Jurisdictions will be allocated using the Gross Plant Allocator from the applicable year..

AEPTCo subsidiaries in PJM
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet I RESERVED
AEP Ohio Transmission Company

Reserved for Future Use

AEPTCo subsidiaries in PJM
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet J Supporting Calculation of PROJECTED PJM RTEP Project Revenue Requirement Billed to Benefiting Zones
AEP Ohio Transmission Company

I. Calculate Return and Income Taxes with 0 basis point ROE increase for Projects Qualified for Regional Billing.

A. Determine 'R' with hypothetical 0 basis point increase in ROE for Identified Projects

ROE w/o incentives (TCOS, ln 138)			10.35%
Project ROE Incentive Adder			0
ROE with additional 0 basis point incentive			10.35%
Determine R (cost of long term debt, cost of preferred stock and equity percentage is from the TCOS, lns 136 through 138)			
	%	Cost	Weighted cost
Long Term Debt	45.79%	4.04%	1.850%
Preferred Stock	0.00%	0.00%	0.000%
Common Stock	54.21%	10.35%	5.611%
R =			7.461%

B. Determine Return using 'R' with hypothetical 0 basis point ROE increase for Identified Projects.

Rate Base (TCOS, ln 58)	2,416,084,459
R (from A. above)	7.461%
Return (Rate Base x R)	180,269,521

C. Determine Income Taxes using Return with hypothetical 0 basis point ROE increase for Identified Projects.

Return (from B. above)	180,269,521
Effective Tax Rate (TCOS, ln 97)	19.99%
Income Tax Calculation (Return x CIT)	36,036,776
ITC Adjustment	-
Excess Deferred Income Tax	67,553
Tax Affect of Permanent Differences	481,405
Income Taxes	36,585,734

SUMMARY OF PROJECTED ANNUAL RTEP REVENUE REQUIREMENTS				
	Rev Require	W Incentives	Incentive Amounts	
PROJECTED YEAR	2019	42,643,711	42,643,711	\$ -

II. Calculate Net Plant Carrying Charge Rate (Fixed Charge Rate or FCR) with hypothetical 0 basis point ROE increase.

A. Determine Annual Revenue Requirement less return and Income Taxes.

Annual Revenue Requirement (TCOS, ln 1)	473,239,753
Lease Payments (TCOS, Ln 80)	-
Return (TCOS, ln 109)	180,269,521
Income Taxes (TCOS, ln 108)	36,585,734
Annual Revenue Requirement, Less Return and Taxes	256,384,498

B. Determine Annual Revenue Requirement with hypothetical 0 basis point increase in ROE.

Annual Revenue Requirement, Less Return and Taxes	256,384,498
Return (from I.B. above)	180,269,521
Income Taxes (from I.C. above)	36,585,734
Annual Revenue Requirement, with 0 Basis Point ROE increase	473,239,753
Depreciation & Amortization (TCOS, ln 83)	65,329,000
Annual Rev. Req. w/0 Basis Point ROE increase, less Depreciation	407,910,753

C. Determine FCR with hypothetical 0 basis point ROE increase.

Net Transmission Plant (Projected TCOS, ln 33)	2,732,036,923
Annual Revenue Requirement, with 0 Basis Point ROE increase	473,239,753
FCR with 0 Basis Point increase in ROE	17.32%
Annual Rev. Req. w / 0 Basis Point ROE increase, less Dep.	407,910,753
FCR with 0 Basis Point ROE increase, less Depreciation	14.93%
FCR less Depreciation (TCOS, ln 10)	14.93%
Incremental FCR with 0 Basis Point ROE increase, less Depreciation	0.00%

III. Calculation of Composite Depreciation Rate

Average Transmission Plant Balance for 2019 TCOS, ln 19	2,934,458,077
Annual Depreciation and Amortization Expense (TCOS, ln 83)	65,329,000
Composite Depreciation Rate	2.23%
Depreciable Life for Composite Depreciation Rate	44.92
Average Life in Whole Years	45

Note 1: Until AEP Ohio Transmission Company establishes Transmission plant in service the depreciation expense component of the carrying charge will be calculated as in the Operating Company formula approved in Docket No. ER08-1329. The calculation for AEP Ohio Transmission Company is shown on Worksheet P.

AEP Ohio Transmission Company Worksheet J - ATRR PROJECTED Calculation for PJM Projects Charged to Benefiting Zones

IV. Determine the Revenue Requirement, and Additional Revenue Requirement for facilities receiving incentives.

A. Base Plan Facilities

Facilities receiving incentives accepted by FERC in Docket No.	(e.g. ER05-925-000)

Current Projected Year ARR	1,559,917
Current Projected Year ARR w/ Incentive	1,559,917
Current Projected Year Incentive ARR	-

Project Description: RTEP ID: b0570 (LIMA-STERLING 138 KV LINE: REB)

Details						
Investment	10,402,068	Current Year				2019
Service Year (yyyy)	2012	ROE increase accepted by FERC (Basis Points)				-
Service Month (1-12)	12	FCR w/o incentives, less depreciation				14.93%
Useful life	45	FCR w/incentives approved for these facilities, less dep.				14.93%
CIAC (Yes or No)	No	Annual Depreciation Expense				231,157
Investment Year	Beginning Balance	Depreciation Expense	Ending Balance	RTEP Rev. Req't. w/o Incentives	RTEP Rev. Req't. with Incentives **	Incentive Rev. Requirement ##
2012	10,402,068	-	10,402,068	1,553,096	\$ 1,553,096	\$ -
2013	10,402,068	231,157	10,170,911	1,766,996	\$ 1,766,996	\$ -
2014	10,170,911	231,157	9,939,754	1,732,483	\$ 1,732,483	\$ -
2015	9,939,754	231,157	9,708,597	1,697,970	\$ 1,697,970	\$ -
2016	9,708,597	231,157	9,477,440	1,663,457	\$ 1,663,457	\$ -
2017	9,477,440	231,157	9,246,283	1,628,943	\$ 1,628,943	\$ -
2018	9,246,283	231,157	9,015,126	1,594,430	\$ 1,594,430	\$ -
2019	9,015,126	231,157	8,783,969	1,559,917	\$ 1,559,917	\$ -
2020	8,783,969	231,157	8,552,811	1,525,404	\$ 1,525,404	\$ -
2021	8,552,811	231,157	8,321,654	1,490,890	\$ 1,490,890	\$ -
2022	8,321,654	231,157	8,090,497	1,456,377	\$ 1,456,377	\$ -
2023	8,090,497	231,157	7,859,340	1,421,864	\$ 1,421,864	\$ -
2024	7,859,340	231,157	7,628,183	1,387,351	\$ 1,387,351	\$ -
2025	7,628,183	231,157	7,397,026	1,352,837	\$ 1,352,837	\$ -
2026	7,397,026	231,157	7,165,869	1,318,324	\$ 1,318,324	\$ -
2027	7,165,869	231,157	6,934,712	1,283,811	\$ 1,283,811	\$ -
2028	6,934,712	231,157	6,703,555	1,249,298	\$ 1,249,298	\$ -
2029	6,703,555	231,157	6,472,398	1,214,784	\$ 1,214,784	\$ -
2030	6,472,398	231,157	6,241,241	1,180,271	\$ 1,180,271	\$ -
2031	6,241,241	231,157	6,010,084	1,145,758	\$ 1,145,758	\$ -
2032	6,010,084	231,157	5,778,927	1,111,245	\$ 1,111,245	\$ -
2033	5,778,927	231,157	5,547,770	1,076,732	\$ 1,076,732	\$ -
2034	5,547,770	231,157	5,316,613	1,042,218	\$ 1,042,218	\$ -
2035	5,316,613	231,157	5,085,455	1,007,705	\$ 1,007,705	\$ -
2036	5,085,455	231,157	4,854,298	973,192	\$ 973,192	\$ -
2037	4,854,298	231,157	4,623,141	938,679	\$ 938,679	\$ -
2038	4,623,141	231,157	4,391,984	904,165	\$ 904,165	\$ -
2039	4,391,984	231,157	4,160,827	869,652	\$ 869,652	\$ -
2040	4,160,827	231,157	3,929,670	835,139	\$ 835,139	\$ -
2041	3,929,670	231,157	3,698,513	800,626	\$ 800,626	\$ -
2042	3,698,513	231,157	3,467,356	766,112	\$ 766,112	\$ -
2043	3,467,356	231,157	3,236,199	731,599	\$ 731,599	\$ -
2044	3,236,199	231,157	3,005,042	697,086	\$ 697,086	\$ -
2045	3,005,042	231,157	2,773,885	662,573	\$ 662,573	\$ -
2046	2,773,885	231,157	2,542,728	628,059	\$ 628,059	\$ -
2047	2,542,728	231,157	2,311,571	593,546	\$ 593,546	\$ -
2048	2,311,571	231,157	2,080,414	559,033	\$ 559,033	\$ -
2049	2,080,414	231,157	1,849,257	524,520	\$ 524,520	\$ -
2050	1,849,257	231,157	1,618,099	490,006	\$ 490,006	\$ -
2051	1,618,099	231,157	1,386,942	455,493	\$ 455,493	\$ -
2052	1,386,942	231,157	1,155,785	420,980	\$ 420,980	\$ -
2053	1,155,785	231,157	924,628	386,467	\$ 386,467	\$ -
2054	924,628	231,157	693,471	351,953	\$ 351,953	\$ -
2055	693,471	231,157	462,314	317,440	\$ 317,440	\$ -
2056	462,314	231,157	231,157	282,927	\$ 282,927	\$ -
2057	231,157	231,157	0	248,414	\$ 248,414	\$ -
2058	0	0	-	0	\$ 0	\$ -
2059	-	-	-	-	\$ -	\$ -
2060	-	-	-	-	\$ -	\$ -
2061	-	-	-	-	\$ -	\$ -
2062	-	-	-	-	\$ -	\$ -
2063	-	-	-	-	\$ -	\$ -
2064	-	-	-	-	\$ -	\$ -
2065	-	-	-	-	\$ -	\$ -
2066	-	-	-	-	\$ -	\$ -
2067	-	-	-	-	\$ -	\$ -
2068	-	-	-	-	\$ -	\$ -
2069	-	-	-	-	\$ -	\$ -
2070	-	-	-	-	\$ -	\$ -
2071	-	-	-	-	\$ -	\$ -
Project Totals		10,402,068		46,899,822	46,899,822	

[illegible]

** This is the total amount that needs to be reported to PJM for billing to all regions.

This is the calculation of additional incentive revenue on projects deemed by the FERC to be eligible for an incentive return. This additional incentive requirement is applicable for the life of this specific project. Each year the revenue requirement calculated for PJM should be incremented by the amount of the incentive revenue calculated for that year on this project.

In order to calculate the proper monthly RTEP billing amount, PJM requires a 12 month revenue requirement for each RTEP project. As a result, notwithstanding the fact that the project was in service for a partial year, the project revenue requirement in the year that the project goes into service has been annualized (shown at the full-year level) so that PJM will collect the correct monthly billings.

Worksheet J - ATRR PROJECTED Calculation for PJM Projects Charged to Benefiting Zones

IV. Determine the Revenue Requirement, and Additional Revenue Requirement for facilities receiving incentives.

A. Base Plan Facilities

Facilities receiving incentives accepted by FERC in Docket No.	(e.g. ER05-925-000)

Project Description: RTEP ID: b1231 (WAPAKONETA-WEST MOULTON 138/69KV Transformer)

Current Projected Year ARR	509,431
Current Projected Year ARR w/ Incentive	509,431
Current Projected Year Incentive ARR	-

Details						
Investment	3,473,922	Current Year				2019
Service Year (yyyy)	2011	ROE increase accepted by FERC (Basis Points)				-
Service Month (1-12)	12	FCR w/o incentives, less depreciation				14.93%
Useful life	45	FCR w/incentives approved for these facilities, less dep.				14.93%
CIAC (Yes or No)	No	Annual Depreciation Expense				77,198
Investment Year	Beginning Balance	Depreciation Expense	Ending Balance	RTEP Rev. Req't. w/o Incentives	RTEP Rev. Req't. with Incentives **	Incentive Rev. Requirement ##
2011	3,473,922	-	3,473,922	518,679	518,679	\$ -
2012	3,473,922	77,198	3,396,724	590,114	590,114	\$ -
2013	3,396,724	77,198	3,319,525	578,588	578,588	\$ -
2014	3,319,525	77,198	3,242,327	567,062	567,062	\$ -
2015	3,242,327	77,198	3,165,129	555,536	555,536	\$ -
2016	3,165,129	77,198	3,087,931	544,009	544,009	\$ -
2017	3,087,931	77,198	3,010,732	532,483	532,483	\$ -
2018	3,010,732	77,198	2,933,534	520,957	520,957	\$ -
2019	2,933,534	77,198	2,856,336	509,431	509,431	\$ -
2020	2,856,336	77,198	2,779,138	497,905	497,905	\$ -
2021	2,779,138	77,198	2,701,939	486,378	486,378	\$ -
2022	2,701,939	77,198	2,624,741	474,852	474,852	\$ -
2023	2,624,741	77,198	2,547,543	463,326	463,326	\$ -
2024	2,547,543	77,198	2,470,345	451,800	451,800	\$ -
2025	2,470,345	77,198	2,393,146	440,274	440,274	\$ -
2026	2,393,146	77,198	2,315,948	428,747	428,747	\$ -
2027	2,315,948	77,198	2,238,750	417,221	417,221	\$ -
2028	2,238,750	77,198	2,161,551	405,695	405,695	\$ -
2029	2,161,551	77,198	2,084,353	394,169	394,169	\$ -
2030	2,084,353	77,198	2,007,155	382,643	382,643	\$ -
2031	2,007,155	77,198	1,929,957	371,116	371,116	\$ -
2032	1,929,957	77,198	1,852,758	359,590	359,590	\$ -
2033	1,852,758	77,198	1,775,560	348,064	348,064	\$ -
2034	1,775,560	77,198	1,698,362	336,538	336,538	\$ -
2035	1,698,362	77,198	1,621,164	325,012	325,012	\$ -
2036	1,621,164	77,198	1,543,965	313,485	313,485	\$ -
2037	1,543,965	77,198	1,466,767	301,959	301,959	\$ -
2038	1,466,767	77,198	1,389,569	290,433	290,433	\$ -
2039	1,389,569	77,198	1,312,371	278,907	278,907	\$ -
2040	1,312,371	77,198	1,235,172	267,381	267,381	\$ -
2041	1,235,172	77,198	1,157,974	255,854	255,854	\$ -
2042	1,157,974	77,198	1,080,776	244,328	244,328	\$ -
2043	1,080,776	77,198	1,003,577	232,802	232,802	\$ -
2044	1,003,577	77,198	926,379	221,276	221,276	\$ -
2045	926,379	77,198	849,181	209,750	209,750	\$ -
2046	849,181	77,198	771,983	198,223	198,223	\$ -
2047	771,983	77,198	694,784	186,697	186,697	\$ -
2048	694,784	77,198	617,586	175,171	175,171	\$ -
2049	617,586	77,198	540,388	163,645	163,645	\$ -
2050	540,388	77,198	463,190	152,119	152,119	\$ -
2051	463,190	77,198	385,991	140,592	140,592	\$ -
2052	385,991	77,198	308,793	129,066	129,066	\$ -
2053	308,793	77,198	231,595	117,540	117,540	\$ -
2054	231,595	77,198	154,397	106,014	106,014	\$ -
2055	154,397	77,198	77,198	94,488	94,488	\$ -
2056	77,198	77,198	0	82,961	82,961	\$ -
2057	0	0	-	0	0	\$ -
2058	-	-	-	-	-	\$ -
2059	-	-	-	-	-	\$ -
2060	-	-	-	-	-	\$ -
2061	-	-	-	-	-	\$ -
2062	-	-	-	-	-	\$ -
2063	-	-	-	-	-	\$ -
2064	-	-	-	-	-	\$ -
2065	-	-	-	-	-	\$ -
2066	-	-	-	-	-	\$ -
2067	-	-	-	-	-	\$ -
2068	-	-	-	-	-	\$ -
2069	-	-	-	-	-	\$ -
2070	-	-	-	-	-	\$ -
Project Totals		3,473,922	-	15,662,878	15,662,878	-

[illegible]

*** This is the total amount that needs to be reported to PJM for billing to all regions.

This is the calculation of additional incentive revenue on projects deemed by the FERC to be eligible for an incentive return. This additional incentive requirement is applicable for the life of this specific project. Each year the revenue requirement calculated for PJM should be incremented by the amount of the incentive revenue calculated for that year on this project.

In order to calculate the proper monthly RTEP billing amount, PJM requires a 12 month revenue requirement for each RTEP project. As a result, notwithstanding the fact that the project was in service for a partial year, the project revenue requirement in the year that the project goes into service has been annualized (shown at the full-year level) so that PJM will collect the correct monthly billings.

Worksheet J - ATRR PROJECTED Calculation for PJM Projects Charged to Benefiting Zones

IV. Determine the Revenue Requirement, and Additional Revenue Requirement for facilities receiving incentives.

A. Base Plan Facilities

Facilities receiving incentives accepted by FERC in Docket No.	(e.g. ER05-925-000)

Project Description: RTEP ID: b1034.1 (South Canton - West Canton 138kV line and Wagenhals – Wayview 138kV

Current Projected Year ARR	1,276,918
Current Projected Year ARR w/ Incentive	1,276,918
Current Projected Year Incentive ARR	-

Details						
Investment	8,345,675	Current Year				2019
Service Year (yyyy)	2013	ROE increase accepted by FERC (Basis Points)				-
Service Month (1-12)	11	FCR w/o incentives, less depreciation				14.93%
Useful life	45	FCR w/incentives approved for these facilities, less dep.				14.93%
CIAC (Yes or No)	No	Annual Depreciation Expense				185,459
Investment Year	Beginning Balance	Depreciation Expense	Ending Balance	RTEP Rev. Req't. w/o Incentives	RTEP Rev. Req't. with Incentives **	Incentive Rev. Requirement ##
2013	8,345,675	15,455	8,330,220	1,260,364	1,260,364	\$ -
2014	8,330,220	185,459	8,144,761	1,415,370	1,415,370	\$ -
2015	8,144,761	185,459	7,959,301	1,387,680	1,387,680	\$ -
2016	7,959,301	185,459	7,773,842	1,359,989	1,359,989	\$ -
2017	7,773,842	185,459	7,588,382	1,332,299	1,332,299	\$ -
2018	7,588,382	185,459	7,402,923	1,304,609	1,304,609	\$ -
2019	7,402,923	185,459	7,217,463	1,276,918	1,276,918	\$ -
2020	7,217,463	185,459	7,032,004	1,249,228	1,249,228	\$ -
2021	7,032,004	185,459	6,846,544	1,221,538	1,221,538	\$ -
2022	6,846,544	185,459	6,661,085	1,193,848	1,193,848	\$ -
2023	6,661,085	185,459	6,475,626	1,166,157	1,166,157	\$ -
2024	6,475,626	185,459	6,290,166	1,138,467	1,138,467	\$ -
2025	6,290,166	185,459	6,104,707	1,110,777	1,110,777	\$ -
2026	6,104,707	185,459	5,919,247	1,083,086	1,083,086	\$ -
2027	5,919,247	185,459	5,733,788	1,055,396	1,055,396	\$ -
2028	5,733,788	185,459	5,548,328	1,027,706	1,027,706	\$ -
2029	5,548,328	185,459	5,362,869	1,000,016	1,000,016	\$ -
2030	5,362,869	185,459	5,177,409	972,325	972,325	\$ -
2031	5,177,409	185,459	4,991,950	944,635	944,635	\$ -
2032	4,991,950	185,459	4,806,491	916,945	916,945	\$ -
2033	4,806,491	185,459	4,621,031	889,254	889,254	\$ -
2034	4,621,031	185,459	4,435,572	861,564	861,564	\$ -
2035	4,435,572	185,459	4,250,112	833,874	833,874	\$ -
2036	4,250,112	185,459	4,064,653	806,184	806,184	\$ -
2037	4,064,653	185,459	3,879,193	778,493	778,493	\$ -
2038	3,879,193	185,459	3,693,734	750,803	750,803	\$ -
2039	3,693,734	185,459	3,508,274	723,113	723,113	\$ -
2040	3,508,274	185,459	3,322,815	695,422	695,422	\$ -
2041	3,322,815	185,459	3,137,356	667,732	667,732	\$ -
2042	3,137,356	185,459	2,951,896	640,042	640,042	\$ -
2043	2,951,896	185,459	2,766,437	612,351	612,351	\$ -
2044	2,766,437	185,459	2,580,977	584,661	584,661	\$ -
2045	2,580,977	185,459	2,395,518	556,971	556,971	\$ -
2046	2,395,518	185,459	2,210,058	529,281	529,281	\$ -
2047	2,210,058	185,459	2,024,599	501,590	501,590	\$ -
2048	2,024,599	185,459	1,839,139	473,900	473,900	\$ -
2049	1,839,139	185,459	1,653,680	446,210	446,210	\$ -
2050	1,653,680	185,459	1,468,221	418,519	418,519	\$ -
2051	1,468,221	185,459	1,282,761	390,829	390,829	\$ -
2052	1,282,761	185,459	1,097,302	363,139	363,139	\$ -
2053	1,097,302	185,459	911,842	335,449	335,449	\$ -
2054	911,842	185,459	726,383	307,758	307,758	\$ -
2055	726,383	185,459	540,923	280,068	280,068	\$ -
2056	540,923	185,459	355,464	252,378	252,378	\$ -
2057	355,464	185,459	170,004	224,687	224,687	\$ -
2058	170,004	170,004	-	182,696	182,696	\$ -
2059	-	-	-	-	-	\$ -
2060	-	-	-	-	-	\$ -
2061	-	-	-	-	-	\$ -
2062	-	-	-	-	-	\$ -
2063	-	-	-	-	-	\$ -
2064	-	-	-	-	-	\$ -
2065	-	-	-	-	-	\$ -
2066	-	-	-	-	-	\$ -
2067	-	-	-	-	-	\$ -
2068	-	-	-	-	-	\$ -
2069	-	-	-	-	-	\$ -
2070	-	-	-	-	-	\$ -
2071	-	-	-	-	-	\$ -
2072	-	-	-	-	-	\$ -
Project Totals		8,345,675	-	37,524,321	37,524,321	-

** This is the total amount that needs to be reported to PJM for billing to all regions.

This is the calculation of additional incentive revenue on projects deemed by the FERC to be eligible for an incentive return. This additional incentive requirement is applicable for the life of this specific project. Each year the revenue requirement calculated for PJM should be incremented by the amount of the incentive revenue calculated for that year on this project.

In order to calculate the proper monthly RTEP billing amount, PJM requires a 12 month revenue requirement for each RTEP project. As a result, notwithstanding the fact that the project was in service for a partial year, the project revenue requirement in the year that the project goes into service has been annualized (shown at the full-year level) so that PJM will collect the correct monthly billings.

[illegible]

Worksheet J - ATRR PROJECTED Calculation for PJM Projects Charged to Benefiting Zones

IV. Determine the Revenue Requirement, and Additional Revenue Requirement for facilities receiving incentives.

A. Base Plan Facilities

Facilities receiving incentives accepted by FERC in Docket No.	(e.g. ER05-925-000)

Project Description: RTEP ID: b1034.8 (138kV Circuit Breakers at the West Canton, South Canton, Canton Central, and Wagenhals stations)

Current Projected Year ARR	659,891
Current Projected Year ARR w/ Incentive	659,891
Current Projected Year Incentive ARR	-

Details						
Investment	4,305,129	Current Year				2019
Service Year (yyyy)	2013	ROE increase accepted by FERC (Basis Points)				-
Service Month (1-12)	12	FCR w/o incentives, less depreciation				14.93%
Useful life	45	FCR w/incentives approved for these facilities, less dep.				14.93%
CIAC (Yes or No)	No	Annual Depreciation Expense				95,670
Investment Year	Beginning Balance	Depreciation Expense	Ending Balance	RTEP Rev. Req't. w/o Incentives	RTEP Rev. Req't. with Incentives **	Incentive Rev. Requirement ##
2013	4,305,129	-	4,305,129	642,784	642,784	\$ -
2014	4,305,129	95,670	4,209,459	731,311	731,311	\$ -
2015	4,209,459	95,670	4,113,790	717,027	717,027	\$ -
2016	4,113,790	95,670	4,018,120	702,743	702,743	\$ -
2017	4,018,120	95,670	3,922,451	688,459	688,459	\$ -
2018	3,922,451	95,670	3,826,781	674,175	674,175	\$ -
2019	3,826,781	95,670	3,731,112	659,891	659,891	\$ -
2020	3,731,112	95,670	3,635,442	645,607	645,607	\$ -
2021	3,635,442	95,670	3,539,773	631,322	631,322	\$ -
2022	3,539,773	95,670	3,444,103	617,038	617,038	\$ -
2023	3,444,103	95,670	3,348,434	602,754	602,754	\$ -
2024	3,348,434	95,670	3,252,764	588,470	588,470	\$ -
2025	3,252,764	95,670	3,157,095	574,186	574,186	\$ -
2026	3,157,095	95,670	3,061,425	559,902	559,902	\$ -
2027	3,061,425	95,670	2,965,756	545,618	545,618	\$ -
2028	2,965,756	95,670	2,870,086	531,334	531,334	\$ -
2029	2,870,086	95,670	2,774,416	517,050	517,050	\$ -
2030	2,774,416	95,670	2,678,747	502,766	502,766	\$ -
2031	2,678,747	95,670	2,583,077	488,482	488,482	\$ -
2032	2,583,077	95,670	2,487,408	474,198	474,198	\$ -
2033	2,487,408	95,670	2,391,738	459,914	459,914	\$ -
2034	2,391,738	95,670	2,296,069	445,629	445,629	\$ -
2035	2,296,069	95,670	2,200,399	431,345	431,345	\$ -
2036	2,200,399	95,670	2,104,730	417,061	417,061	\$ -
2037	2,104,730	95,670	2,009,060	402,777	402,777	\$ -
2038	2,009,060	95,670	1,913,391	388,493	388,493	\$ -
2039	1,913,391	95,670	1,817,721	374,209	374,209	\$ -
2040	1,817,721	95,670	1,722,052	359,925	359,925	\$ -
2041	1,722,052	95,670	1,626,382	345,641	345,641	\$ -
2042	1,626,382	95,670	1,530,713	331,357	331,357	\$ -
2043	1,530,713	95,670	1,435,043	317,073	317,073	\$ -
2044	1,435,043	95,670	1,339,373	302,789	302,789	\$ -
2045	1,339,373	95,670	1,243,704	288,505	288,505	\$ -
2046	1,243,704	95,670	1,148,034	274,221	274,221	\$ -
2047	1,148,034	95,670	1,052,365	259,936	259,936	\$ -
2048	1,052,365	95,670	956,695	245,652	245,652	\$ -
2049	956,695	95,670	861,026	231,368	231,368	\$ -
2050	861,026	95,670	765,356	217,084	217,084	\$ -
2051	765,356	95,670	669,687	202,800	202,800	\$ -
2052	669,687	95,670	574,017	188,516	188,516	\$ -
2053	574,017	95,670	478,348	174,232	174,232	\$ -
2054	478,348	95,670	382,678	159,948	159,948	\$ -
2055	382,678	95,670	287,009	145,664	145,664	\$ -
2056	287,009	95,670	191,339	131,380	131,380	\$ -
2057	191,339	95,670	95,670	117,096	117,096	\$ -
2058	95,670	95,670	0	102,812	102,812	\$ -
2059	0	0	-	0	0	\$ -
2060	-	-	-	-	-	\$ -
2061	-	-	-	-	-	\$ -
2062	-	-	-	-	-	\$ -
2063	-	-	-	-	-	\$ -
2064	-	-	-	-	-	\$ -
2065	-	-	-	-	-	\$ -
2066	-	-	-	-	-	\$ -
2067	-	-	-	-	-	\$ -
2068	-	-	-	-	-	\$ -
2069	-	-	-	-	-	\$ -
2070	-	-	-	-	-	\$ -
2071	-	-	-	-	-	\$ -
2072	-	-	-	-	-	\$ -
Project Totals		4,305,129	-	19,410,543	19,410,543	-

[illegible]

*** This is the total amount that needs to be reported to PJM for billing to all regions.

This is the calculation of additional incentive revenue on projects deemed by the FERC to be eligible for an incentive return. This additional incentive requirement is applicable for the life of this specific project. Each year the revenue requirement calculated for PJM should be incremented by the amount of the incentive revenue calculated for that year on this project.

In order to calculate the proper monthly RTEP billing amount, PJM requires a 12 month revenue requirement for each RTEP project. As a result, notwithstanding the fact that the project was in service for a partial year, the project revenue requirement in the year that the project goes into service has been annualized (shown at the full-year level) so that PJM will collect the correct monthly billings.

Worksheet J - ATRR PROJECTED Calculation for PJM Projects Charged to Benefiting Zones

IV. Determine the Revenue Requirement, and Additional Revenue Requirement for facilities receiving incentives.

A. Base Plan Facilities

Facilities receiving incentives accepted by FERC in Docket No.	(e.g. ER05-925-000)

Project Description: RTEP ID: b1864.2 (West Bellaire-Brues 138 kV Circuit)

Current Projected Year ARR	164,398
Current Projected Year ARR w/ Incentive	164,398
Current Projected Year Incentive ARR	-

Details						
Investment	1,076,416	Current Year				2019
Service Year (yyyy)	2013	ROE increase accepted by FERC (Basis Points)				-
Service Month (1-12)	10	FCR w/o incentives, less depreciation				14.93%
Useful life	45	FCR w/incentives approved for these facilities, less dep.				14.93%
CIAC (Yes or No)	No	Annual Depreciation Expense				23,920
Investment Year	Beginning Balance	Depreciation Expense	Ending Balance	RTEP Rev. Req't. w/o Incentives	RTEP Rev. Req't. with Incentives **	Incentive Rev. Requirement ##
2013	1,076,416	3,987	1,072,429	164,405	164,405 \$	-
2014	1,072,429	23,920	1,048,509	182,255	182,255 \$	-
2015	1,048,509	23,920	1,024,589	178,684	178,684 \$	-
2016	1,024,589	23,920	1,000,668	175,112	175,112 \$	-
2017	1,000,668	23,920	976,748	171,541	171,541 \$	-
2018	976,748	23,920	952,827	167,969	167,969 \$	-
2019	952,827	23,920	928,907	164,398	164,398 \$	-
2020	928,907	23,920	904,987	160,826	160,826 \$	-
2021	904,987	23,920	881,066	157,255	157,255 \$	-
2022	881,066	23,920	857,146	153,684	153,684 \$	-
2023	857,146	23,920	833,226	150,112	150,112 \$	-
2024	833,226	23,920	809,305	146,541	146,541 \$	-
2025	809,305	23,920	785,385	142,969	142,969 \$	-
2026	785,385	23,920	761,465	139,398	139,398 \$	-
2027	761,465	23,920	737,544	135,826	135,826 \$	-
2028	737,544	23,920	713,624	132,255	132,255 \$	-
2029	713,624	23,920	689,704	128,683	128,683 \$	-
2030	689,704	23,920	665,783	125,112	125,112 \$	-
2031	665,783	23,920	641,863	121,540	121,540 \$	-
2032	641,863	23,920	617,943	117,969	117,969 \$	-
2033	617,943	23,920	594,022	114,397	114,397 \$	-
2034	594,022	23,920	570,102	110,826	110,826 \$	-
2035	570,102	23,920	546,181	107,255	107,255 \$	-
2036	546,181	23,920	522,261	103,683	103,683 \$	-
2037	522,261	23,920	498,341	100,112	100,112 \$	-
2038	498,341	23,920	474,420	96,540	96,540 \$	-
2039	474,420	23,920	450,500	92,969	92,969 \$	-
2040	450,500	23,920	426,580	89,397	89,397 \$	-
2041	426,580	23,920	402,659	85,826	85,826 \$	-
2042	402,659	23,920	378,739	82,254	82,254 \$	-
2043	378,739	23,920	354,819	78,683	78,683 \$	-
2044	354,819	23,920	330,898	75,111	75,111 \$	-
2045	330,898	23,920	306,978	71,540	71,540 \$	-
2046	306,978	23,920	283,058	67,968	67,968 \$	-
2047	283,058	23,920	259,137	64,397	64,397 \$	-
2048	259,137	23,920	235,217	60,825	60,825 \$	-
2049	235,217	23,920	211,296	57,254	57,254 \$	-
2050	211,296	23,920	187,376	53,683	53,683 \$	-
2051	187,376	23,920	163,456	50,111	50,111 \$	-
2052	163,456	23,920	139,535	46,540	46,540 \$	-
2053	139,535	23,920	115,615	42,968	42,968 \$	-
2054	115,615	23,920	91,695	39,397	39,397 \$	-
2055	91,695	23,920	67,774	35,825	35,825 \$	-
2056	67,774	23,920	43,854	32,254	32,254 \$	-
2057	43,854	23,920	19,934	28,682	28,682 \$	-
2058	19,934	19,934	-	21,422	21,422 \$	-
2059	-	-	-	-	- \$	-
2060	-	-	-	-	- \$	-
2061	-	-	-	-	- \$	-
2062	-	-	-	-	- \$	-
2063	-	-	-	-	- \$	-

[illegible]

*** This is the total amount that needs to be reported to PJM for billing to all regions.

This is the calculation of additional incentive revenue on projects deemed by the FERC to be eligible for an incentive return. This additional incentive requirement is applicable for the life of this specific project. Each year the revenue requirement calculated for PJM should be incremented by the amount of the incentive revenue calculated for that year on this project.

In order to calculate the proper monthly RTEP billing amount, PJM requires a 12 month revenue requirement for each RTEP project. As a result, notwithstanding the fact that the project was in service for a partial year, the project revenue requirement in the year that the project goes into service has been annualized (shown at the full-year level) so that PJM will collect the correct monthly billings.

Worksheet J - ATRR PROJECTED Calculation for PJM Projects Charged to Benefiting Zones

IV. Determine the Revenue Requirement, and Additional Revenue Requirement for facilities receiving incentives.

A. Base Plan Facilities

Facilities receiving incentives accepted by FERC in Docket No. (e.g. ER05-925-000)

Project Description: RTEP ID: b1870 (Replace Ohio Central transformer #1 345/138/12 kV 450 MVA for a 345/138/34.5 kV 675 MVA transformer)

Current Projected Year ARR	1,049,916
Current Projected Year ARR w/ Incentive	1,049,916
Current Projected Year Incentive ARR	-

Details						
Investment	6,849,657	Current Year		2019		
Service Year (yyyy)	2013	ROE increase accepted by FERC (Basis Points)		-		
Service Month (1-12)	12	FCR w/o incentives, less depreciation		14.93%		
Useful life	45	FCR w/incentives approved for these facilities, less dep.		14.93%		
CIAC (Yes or No)	No	Annual Depreciation Expense		152,215		
Investment Year	Beginning Balance	Depreciation Expense	Ending Balance	RTEP Rev. Req't. w/o Incentives	RTEP Rev. Req't. with Incentives **	Incentive Rev. Requirement ##
2013	6,849,657	-	6,849,657	1,022,698	1,022,698	\$ -
2014	6,849,657	152,215	6,697,442	1,163,549	1,163,549	\$ -
2015	6,697,442	152,215	6,545,228	1,140,823	1,140,823	\$ -
2016	6,545,228	152,215	6,393,013	1,118,096	1,118,096	\$ -
2017	6,393,013	152,215	6,240,799	1,095,369	1,095,369	\$ -
2018	6,240,799	152,215	6,088,584	1,072,643	1,072,643	\$ -
2019	6,088,584	152,215	5,936,369	1,049,916	1,049,916	\$ -
2020	5,936,369	152,215	5,784,155	1,027,190	1,027,190	\$ -
2021	5,784,155	152,215	5,631,940	1,004,463	1,004,463	\$ -
2022	5,631,940	152,215	5,479,726	981,736	981,736	\$ -
2023	5,479,726	152,215	5,327,511	959,010	959,010	\$ -
2024	5,327,511	152,215	5,175,296	936,283	936,283	\$ -
2025	5,175,296	152,215	5,023,082	913,556	913,556	\$ -
2026	5,023,082	152,215	4,870,867	890,830	890,830	\$ -
2027	4,870,867	152,215	4,718,653	868,103	868,103	\$ -
2028	4,718,653	152,215	4,566,438	845,377	845,377	\$ -
2029	4,566,438	152,215	4,414,223	822,650	822,650	\$ -
2030	4,414,223	152,215	4,262,009	799,923	799,923	\$ -
2031	4,262,009	152,215	4,109,794	777,197	777,197	\$ -
2032	4,109,794	152,215	3,957,580	754,470	754,470	\$ -
2033	3,957,580	152,215	3,805,365	731,743	731,743	\$ -
2034	3,805,365	152,215	3,653,150	709,017	709,017	\$ -
2035	3,653,150	152,215	3,500,936	686,290	686,290	\$ -
2036	3,500,936	152,215	3,348,721	663,564	663,564	\$ -
2037	3,348,721	152,215	3,196,507	640,837	640,837	\$ -
2038	3,196,507	152,215	3,044,292	618,110	618,110	\$ -
2039	3,044,292	152,215	2,892,077	595,384	595,384	\$ -
2040	2,892,077	152,215	2,739,863	572,657	572,657	\$ -
2041	2,739,863	152,215	2,587,648	549,930	549,930	\$ -
2042	2,587,648	152,215	2,435,434	527,204	527,204	\$ -
2043	2,435,434	152,215	2,283,219	504,477	504,477	\$ -
2044	2,283,219	152,215	2,131,004	481,751	481,751	\$ -
2045	2,131,004	152,215	1,978,790	459,024	459,024	\$ -
2046	1,978,790	152,215	1,826,575	436,297	436,297	\$ -
2047	1,826,575	152,215	1,674,361	413,571	413,571	\$ -
2048	1,674,361	152,215	1,522,146	390,844	390,844	\$ -
2049	1,522,146	152,215	1,369,931	368,118	368,118	\$ -
2050	1,369,931	152,215	1,217,717	345,391	345,391	\$ -
2051	1,217,717	152,215	1,065,502	322,664	322,664	\$ -
2052	1,065,502	152,215	913,288	299,938	299,938	\$ -
2053	913,288	152,215	761,073	277,211	277,211	\$ -
2054	761,073	152,215	608,858	254,484	254,484	\$ -
2055	608,858	152,215	456,644	231,758	231,758	\$ -
2056	456,644	152,215	304,429	209,031	209,031	\$ -
2057	304,429	152,215	152,215	186,305	186,305	\$ -
2058	152,215	152,215	0	163,578	163,578	\$ -
2059	0	0	-	0	0	\$ -
2060	-	-	-	-	-	\$ -
2061	-	-	-	-	-	\$ -
2062	-	-	-	-	-	\$ -
2063	-	-	-	-	-	\$ -
2064	-	-	-	-	-	\$ -
2065	-	-	-	-	-	\$ -
2066	-	-	-	-	-	\$ -
2067	-	-	-	-	-	\$ -
2068	-	-	-	-	-	\$ -
2069	-	-	-	-	-	\$ -
2070	-	-	-	-	-	\$ -
2071	-	-	-	-	-	\$ -
2072	-	-	-	-	-	\$ -
Project Totals		6,849,657		30,883,060	30,883,060	-

** This is the total amount that needs to be reported to PJM for billing to all regions.

This is the calculation of additional incentive revenue on projects deemed by the FERC to be eligible for an incentive return. This additional incentive requirement is applicable for the life of this specific project. Each year the revenue requirement calculated for PJM should be incremented by the amount of the incentive revenue calculated for that year on this project.

In order to calculate the proper monthly RTEP billing amount, PJM requires a 12 month revenue requirement for each RTEP project. As a result, notwithstanding the fact that the project was in service for a partial year, the project revenue requirement in the year that the project goes into service has been annualized (shown at the full-year level) so that PJM will collect the correct monthly billings.

CUMULATIVE HISTORY OF PROJECTED ANNUAL REVENUE REQUIREMENTS:				
CUMULATIVE HISTORY OF PROJECTED ANNUAL REVENUE REQUIREMENTS: INPUT PROJECTED ARR (WITH & WITHOUT INCENTIVES) FROM EACH PRIOR YEAR TEMPLATE BELOW TO MAINTAIN HISTORY OF PROJECTED ARRS OVER THE LIFE OF THE PROJECT.				
RTEP Projected Rev. Req't.From Prior Year Template w/o Incentives		RTEP Projected Rev. Req't.From Prior Year Template with Incentives **		
\$ 576,980		\$ 576,980		
\$ 900,905		\$ 900,905		
\$ 882,849		\$ 882,849		
\$ 964,681		\$ 964,681		
\$ 1,154,533		\$ 1,154,533		
\$ 1,026,972		\$ 1,026,972		

Worksheet J - ATRR PROJECTED Calculation for PJM Projects Charged to Benefiting Zones

IV. Determine the Revenue Requirement, and Additional Revenue Requirement for facilities receiving incentives.

A. Base Plan Facilities

Facilities receiving incentives accepted by FERC in Docket No.	(e.g. ER05-925-000)

Project Description: RTEP ID: b1032.2 (Construct two 138kV outlets to Delano 138kV station and to Camp Sherman station)

Current Projected Year ARR	1,878,388
Current Projected Year ARR w/ Incentive	1,878,388
Current Projected Year Incentive ARR	-

Details						
Investment	11,869,225	Current Year				2019
Service Year (yyyy)	2015	ROE increase accepted by FERC (Basis Points)				-
Service Month (1-12)	6	FCR w/o incentives, less depreciation				14.93%
Useful life	45	FCR w/incentives approved for these facilities, less dep.				14.93%
CIAC (Yes or No)	No	Annual Depreciation Expense				263,761
Investment Year	Beginning Balance	Depreciation Expense	Ending Balance	RTEP Rev. Req't. w/o Incentives	RTEP Rev. Req't. with Incentives **	Incentive Rev. Requirement ##
2015	11,869,225	131,880	11,737,345	1,894,187	1,894,187	\$ -
2016	11,737,345	263,761	11,473,584	1,996,531	1,996,531	\$ -
2017	11,473,584	263,761	11,209,824	1,957,150	1,957,150	\$ -
2018	11,209,824	263,761	10,946,063	1,917,769	1,917,769	\$ -
2019	10,946,063	263,761	10,682,303	1,878,388	1,878,388	\$ -
2020	10,682,303	263,761	10,418,542	1,839,007	1,839,007	\$ -
2021	10,418,542	263,761	10,154,781	1,799,626	1,799,626	\$ -
2022	10,154,781	263,761	9,891,021	1,760,244	1,760,244	\$ -
2023	9,891,021	263,761	9,627,260	1,720,863	1,720,863	\$ -
2024	9,627,260	263,761	9,363,500	1,681,482	1,681,482	\$ -
2025	9,363,500	263,761	9,099,739	1,642,101	1,642,101	\$ -
2026	9,099,739	263,761	8,835,979	1,602,720	1,602,720	\$ -
2027	8,835,979	263,761	8,572,218	1,563,339	1,563,339	\$ -
2028	8,572,218	263,761	8,308,457	1,523,957	1,523,957	\$ -
2029	8,308,457	263,761	8,044,697	1,484,576	1,484,576	\$ -
2030	8,044,697	263,761	7,780,936	1,445,195	1,445,195	\$ -
2031	7,780,936	263,761	7,517,176	1,405,814	1,405,814	\$ -
2032	7,517,176	263,761	7,253,415	1,366,433	1,366,433	\$ -
2033	7,253,415	263,761	6,989,655	1,327,052	1,327,052	\$ -
2034	6,989,655	263,761	6,725,894	1,287,671	1,287,671	\$ -
2035	6,725,894	263,761	6,462,134	1,248,289	1,248,289	\$ -
2036	6,462,134	263,761	6,198,373	1,208,908	1,208,908	\$ -
2037	6,198,373	263,761	5,934,612	1,169,527	1,169,527	\$ -
2038	5,934,612	263,761	5,670,852	1,130,146	1,130,146	\$ -
2039	5,670,852	263,761	5,407,091	1,090,765	1,090,765	\$ -
2040	5,407,091	263,761	5,143,331	1,051,384	1,051,384	\$ -
2041	5,143,331	263,761	4,879,570	1,012,002	1,012,002	\$ -
2042	4,879,570	263,761	4,615,810	972,621	972,621	\$ -
2043	4,615,810	263,761	4,352,049	933,240	933,240	\$ -
2044	4,352,049	263,761	4,088,289	893,859	893,859	\$ -
2045	4,088,289	263,761	3,824,528	854,478	854,478	\$ -
2046	3,824,528	263,761	3,560,767	815,097	815,097	\$ -
2047	3,560,767	263,761	3,297,007	775,716	775,716	\$ -
2048	3,297,007	263,761	3,033,246	736,334	736,334	\$ -
2049	3,033,246	263,761	2,769,486	696,953	696,953	\$ -
2050	2,769,486	263,761	2,505,725	657,572	657,572	\$ -
2051	2,505,725	263,761	2,241,965	618,191	618,191	\$ -
2052	2,241,965	263,761	1,978,204	578,810	578,810	\$ -
2053	1,978,204	263,761	1,714,444	539,429	539,429	\$ -
2054	1,714,444	263,761	1,450,683	500,047	500,047	\$ -
2055	1,450,683	263,761	1,186,922	460,666	460,666	\$ -
2056	1,186,922	263,761	923,162	421,285	421,285	\$ -
2057	923,162	263,761	659,401	381,904	381,904	\$ -
2058	659,401	263,761	395,641	342,523	342,523	\$ -
2059	395,641	263,761	131,880	303,142	303,142	\$ -
2060	131,880	131,880	-	141,726	141,726	\$ -
2061	-	-	-	-	-	\$ -
2062	-	-	-	-	-	\$ -
2063	-	-	-	-	-	\$ -
2064	-	-	-	-	-	\$ -
2065	-	-	-	-	-	\$ -
2066	-	-	-	-	-	\$ -
2067	-	-	-	-	-	\$ -
2068	-	-	-	-	-	\$ -
2069	-	-	-	-	-	\$ -
2070	-	-	-	-	-	\$ -
2071	-	-	-	-	-	\$ -
2072	-	-	-	-	-	\$ -
2073	-	-	-	-	-	\$ -
2074	-	-	-	-	-	\$ -
Project Totals		11,869,225		52,628,719	52,628,719	-

[illegible]

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In order to calculate the proper monthly RTEP billing amount, PJM requires a 12 month revenue requirement for each RTEP project. As a result, notwithstanding the fact that the project was in service for a partial year, the project revenue requirement in the year that the project goes into service has been annualized (shown at the full-year level) so that PJM will collect the correct monthly billings.

Worksheet J - ATRR PROJECTED Calculation for PJM Projects Charged to Benefiting Zones

IV. Determine the Revenue Requirement, and Additional Revenue Requirement for facilities receiving incentives.

A. Base Plan Facilities

Facilities receiving incentives accepted by FERC in Docket No.	(e.g. ER05-925-000)

Project Description: RTEP ID: b1034.2 (Loop the existing South Canton - Wayview 138kV circuit in-and-out of West Canton)

Current Projected Year ARR	1,002,123
Current Projected Year ARR w/ Incentive	1,002,123
Current Projected Year Incentive ARR	-

Details						
Investment	6,422,010	Current Year				2019
Service Year (yyyy)	2014	ROE increase accepted by FERC (Basis Points)				-
Service Month (1-12)	10	FCR w/o incentives, less depreciation				14.93%
Useful life	45	FCR w/incentives approved for these facilities, less dep.				14.93%
CIAC (Yes or No)	No	Annual Depreciation Expense				142,711
Investment Year	Beginning Balance	Depreciation Expense	Ending Balance	RTEP Rev. Req't. w/o Incentives	RTEP Rev. Req't. with Incentives **	Incentive Rev. Requirement ##
2014	6,422,010	23,785	6,398,225	980,857	980,857	\$ -
2015	6,398,225	142,711	6,255,513	1,087,354	1,087,354	\$ -
2016	6,255,513	142,711	6,112,802	1,066,046	1,066,046	\$ -
2017	6,112,802	142,711	5,970,091	1,044,738	1,044,738	\$ -
2018	5,970,091	142,711	5,827,379	1,023,431	1,023,431	\$ -
2019	5,827,379	142,711	5,684,668	1,002,123	1,002,123	\$ -
2020	5,684,668	142,711	5,541,957	980,815	980,815	\$ -
2021	5,541,957	142,711	5,399,245	959,507	959,507	\$ -
2022	5,399,245	142,711	5,256,534	938,200	938,200	\$ -
2023	5,256,534	142,711	5,113,823	916,892	916,892	\$ -
2024	5,113,823	142,711	4,971,111	895,584	895,584	\$ -
2025	4,971,111	142,711	4,828,400	874,277	874,277	\$ -
2026	4,828,400	142,711	4,685,689	852,969	852,969	\$ -
2027	4,685,689	142,711	4,542,977	831,661	831,661	\$ -
2028	4,542,977	142,711	4,400,266	810,353	810,353	\$ -
2029	4,400,266	142,711	4,257,555	789,046	789,046	\$ -
2030	4,257,555	142,711	4,114,843	767,738	767,738	\$ -
2031	4,114,843	142,711	3,972,132	746,430	746,430	\$ -
2032	3,972,132	142,711	3,829,421	725,122	725,122	\$ -
2033	3,829,421	142,711	3,686,709	703,815	703,815	\$ -
2034	3,686,709	142,711	3,543,998	682,507	682,507	\$ -
2035	3,543,998	142,711	3,401,287	661,199	661,199	\$ -
2036	3,401,287	142,711	3,258,575	639,892	639,892	\$ -
2037	3,258,575	142,711	3,115,864	618,584	618,584	\$ -
2038	3,115,864	142,711	2,973,153	597,276	597,276	\$ -
2039	2,973,153	142,711	2,830,441	575,968	575,968	\$ -
2040	2,830,441	142,711	2,687,730	554,661	554,661	\$ -
2041	2,687,730	142,711	2,545,019	533,353	533,353	\$ -
2042	2,545,019	142,711	2,402,307	512,045	512,045	\$ -
2043	2,402,307	142,711	2,259,596	490,737	490,737	\$ -
2044	2,259,596	142,711	2,116,885	469,430	469,430	\$ -
2045	2,116,885	142,711	1,974,173	448,122	448,122	\$ -
2046	1,974,173	142,711	1,831,462	426,814	426,814	\$ -
2047	1,831,462	142,711	1,688,751	405,507	405,507	\$ -
2048	1,688,751	142,711	1,546,039	384,199	384,199	\$ -
2049	1,546,039	142,711	1,403,328	362,891	362,891	\$ -
2050	1,403,328	142,711	1,260,617	341,583	341,583	\$ -
2051	1,260,617	142,711	1,117,905	320,276	320,276	\$ -
2052	1,117,905	142,711	975,194	298,968	298,968	\$ -
2053	975,194	142,711	832,483	277,660	277,660	\$ -
2054	832,483	142,711	689,771	256,353	256,353	\$ -
2055	689,771	142,711	547,060	235,045	235,045	\$ -
2056	547,060	142,711	404,349	213,737	213,737	\$ -
2057	404,349	142,711	261,637	192,429	192,429	\$ -
2058	261,637	142,711	118,926	171,122	171,122	\$ -
2059	118,926	118,926	-	127,804	127,804	\$ -
2060	-	-	-	-	-	\$ -
2061	-	-	-	-	-	\$ -
2062	-	-	-	-	-	\$ -
2063	-	-	-	-	-	\$ -
2064	-	-	-	-	-	\$ -
2065	-	-	-	-	-	\$ -
2066	-	-	-	-	-	\$ -
2067	-	-	-	-	-	\$ -
2068	-	-	-	-	-	\$ -
2069	-	-	-	-	-	\$ -
2070	-	-	-	-	-	\$ -
2071	-	-	-	-	-	\$ -
2072	-	-	-	-	-	\$ -
2073	-	-	-	-	-	\$ -
Project Totals		6,422,010		28,795,120	28,795,120	-

[illegible]

*** This is the total amount that needs to be reported to PJM for billing to all regions.

This is the calculation of additional incentive revenue on projects deemed by the FERC to be eligible for an incentive return. This additional incentive requirement is applicable for the life of this specific project. Each year the revenue requirement calculated for PJM should be incremented by the amount of the incentive revenue calculated for that year on this project.

In order to calculate the proper monthly RTEP billing amount, PJM requires a 12 month revenue requirement for each RTEP project. As a result, notwithstanding the fact that the project was in service for a partial year, the project revenue requirement in the year that the project goes into service has been annualized (shown at the full-year level) so that PJM will collect the correct monthly billings.

Worksheet J - ATRR PROJECTED Calculation for PJM Projects Charged to Benefiting Zones

IV. Determine the Revenue Requirement, and Additional Revenue Requirement for facilities receiving incentives.

A. Base Plan Facilities

Facilities receiving incentives accepted by FERC in Docket No.	(e.g. ER05-925-000)

Project Description: RTEP ID: b1034.3 (Install a 345/138kV 450 MVA transformer at Canton Central)

Current Projected Year ARR	2,110,913
Current Projected Year ARR w/ Incentive	2,110,913
Current Projected Year Incentive ARR	-

Details						
Investment	13,479,817	Current Year				2019
Service Year (yyyy)	2014	ROE increase accepted by FERC (Basis Points)				-
Service Month (1-12)	12	FCR w/o incentives, less depreciation				14.93%
Useful life	45	FCR w/incentives approved for these facilities, less dep.				14.93%
CIAC (Yes or No)	No	Annual Depreciation Expense				299,551
Investment Year	Beginning Balance	Depreciation Expense	Ending Balance	RTEP Rev. Req't. w/o Incentives	RTEP Rev. Req't. with Incentives **	Incentive Rev. Requirement ##
2014	13,479,817	-	13,479,817	2,012,624	2,012,624	\$ -
2015	13,479,817	299,551	13,180,266	2,289,813	2,289,813	\$ -
2016	13,180,266	299,551	12,880,714	2,245,088	2,245,088	\$ -
2017	12,880,714	299,551	12,581,163	2,200,363	2,200,363	\$ -
2018	12,581,163	299,551	12,281,611	2,155,638	2,155,638	\$ -
2019	12,281,611	299,551	11,982,060	2,110,913	2,110,913	\$ -
2020	11,982,060	299,551	11,682,508	2,066,188	2,066,188	\$ -
2021	11,682,508	299,551	11,382,957	2,021,463	2,021,463	\$ -
2022	11,382,957	299,551	11,083,405	1,976,738	1,976,738	\$ -
2023	11,083,405	299,551	10,783,854	1,932,013	1,932,013	\$ -
2024	10,783,854	299,551	10,484,302	1,887,288	1,887,288	\$ -
2025	10,484,302	299,551	10,184,751	1,842,563	1,842,563	\$ -
2026	10,184,751	299,551	9,885,199	1,797,838	1,797,838	\$ -
2027	9,885,199	299,551	9,585,648	1,753,113	1,753,113	\$ -
2028	9,585,648	299,551	9,286,096	1,708,388	1,708,388	\$ -
2029	9,286,096	299,551	8,986,545	1,663,663	1,663,663	\$ -
2030	8,986,545	299,551	8,686,993	1,618,938	1,618,938	\$ -
2031	8,686,993	299,551	8,387,442	1,574,213	1,574,213	\$ -
2032	8,387,442	299,551	8,087,890	1,529,488	1,529,488	\$ -
2033	8,087,890	299,551	7,788,339	1,484,763	1,484,763	\$ -
2034	7,788,339	299,551	7,488,787	1,440,038	1,440,038	\$ -
2035	7,488,787	299,551	7,189,236	1,395,313	1,395,313	\$ -
2036	7,189,236	299,551	6,889,684	1,350,588	1,350,588	\$ -
2037	6,889,684	299,551	6,590,133	1,305,863	1,305,863	\$ -
2038	6,590,133	299,551	6,290,581	1,261,138	1,261,138	\$ -
2039	6,290,581	299,551	5,991,030	1,216,413	1,216,413	\$ -
2040	5,991,030	299,551	5,691,478	1,171,688	1,171,688	\$ -
2041	5,691,478	299,551	5,391,927	1,126,963	1,126,963	\$ -
2042	5,391,927	299,551	5,092,375	1,082,238	1,082,238	\$ -
2043	5,092,375	299,551	4,792,824	1,037,514	1,037,514	\$ -
2044	4,792,824	299,551	4,493,272	992,789	992,789	\$ -
2045	4,493,272	299,551	4,193,721	948,064	948,064	\$ -
2046	4,193,721	299,551	3,894,169	903,339	903,339	\$ -
2047	3,894,169	299,551	3,594,618	858,614	858,614	\$ -
2048	3,594,618	299,551	3,295,066	813,889	813,889	\$ -
2049	3,295,066	299,551	2,995,515	769,164	769,164	\$ -
2050	2,995,515	299,551	2,695,963	724,439	724,439	\$ -
2051	2,695,963	299,551	2,396,412	679,714	679,714	\$ -
2052	2,396,412	299,551	2,096,860	634,989	634,989	\$ -
2053	2,096,860	299,551	1,797,309	590,264	590,264	\$ -
2054	1,797,309	299,551	1,497,757	545,539	545,539	\$ -
2055	1,497,757	299,551	1,198,206	500,814	500,814	\$ -
2056	1,198,206	299,551	898,654	456,089	456,089	\$ -
2057	898,654	299,551	599,103	411,364	411,364	\$ -
2058	599,103	299,551	299,551	366,639	366,639	\$ -
2059	299,551	299,551	-	321,914	321,914	\$ -
2060	-	-	-	-	-	\$ -
2061	-	-	-	-	-	\$ -
2062	-	-	-	-	-	\$ -
2063	-	-	-	-	-	\$ -
2064	-	-	-	-	-	\$ -
2065	-	-	-	-	-	\$ -
2066	-	-	-	-	-	\$ -
2067	-	-	-	-	-	\$ -
2068	-	-	-	-	-	\$ -
2069	-	-	-	-	-	\$ -
2070	-	-	-	-	-	\$ -
2071	-	-	-	-	-	\$ -
2072	-	-	-	-	-	\$ -
2073	-	-	-	-	-	\$ -
Project Totals		13,479,817	-	60,776,474	60,776,474	-

[illegible]

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Worksheet J - ATRR PROJECTED Calculation for PJM Projects Charged to Benefiting Zones

IV. Determine the Revenue Requirement, and Additional Revenue Requirement for facilities receiving incentives.

A. Base Plan Facilities

Facilities receiving incentives accepted by FERC in Docket No.

(e.g. ER05-925-000)

Project Description: RTEP ID: b1970 (Reconductor 13 miles of Kammer-West Bellaire 345 kV line)

Current Projected Year ARR

-

Current Projected Year ARR w/ Incentive

-

Current Projected Year Incentive ARR

-

Details							CUMULATIVE HISTORY OF PROJECTED ANNUAL REVENUE REQUIREMENTS:				
Investment	-	Current Year					2019				
Service Year (yyyy)	2014	ROE increase accepted by FERC (Basis Points)					-				
Service Month (1-12)	12	FCR w/o incentives, less depreciation					14.93%				
Useful life	45	FCR w/incentives approved for these facilities, less dep.					14.93%				
CIAC (Yes or No)	no	Annual Depreciation Expense					-				
Investment Year	Beginning Balance	Depreciation Expense	Ending Balance	RTEP Rev. Req't. w/o Incentives	RTEP Rev. Req't. with Incentives **	Incentive Rev. Requirement ##	RTEP Projected Rev. Req't.From Prior Year Template w/o Incentives		RTEP Projected Rev. Req't.From Prior Year Template with Incentives **		
2014	-	-	-	-	-	\$ -	\$ 1,502,768		\$ 1,502,768		
2015	-	-	-	-	-	\$ -	\$ 1,736,229		\$ 1,736,229		
2016	-	-	-	-	-	\$ -	\$ 1,915,973		\$ 1,915,973		
2017	-	-	-	-	-	\$ -	\$ 2,299,209		\$ 2,299,209		
2018	-	-	-	-	-	\$ -	\$ 2,044,134		\$ 2,044,134		
2019	-	-	-	-	-	\$ -					
2020	-	-	-	-	-	\$ -					
2021	-	-	-	-	-	\$ -					
2022	-	-	-	-	-	\$ -					
2023	-	-	-	-	-	\$ -					
2024	-	-	-	-	-	\$ -					
2025	-	-	-	-	-	\$ -					
2026	-	-	-	-	-	\$ -					
2027	-	-	-	-	-	\$ -					
2028	-	-	-	-	-	\$ -					
2029	-	-	-	-	-	\$ -					
2030	-	-	-	-	-	\$ -					
2031	-	-	-	-	-	\$ -					
2032	-	-	-	-	-	\$ -					
2033	-	-	-	-	-	\$ -					
2034	-	-	-	-	-	\$ -					
2035	-	-	-	-	-	\$ -					
2036	-	-	-	-	-	\$ -					
2037	-	-	-	-	-	\$ -					
2038	-	-	-	-	-	\$ -					
2039	-	-	-	-	-	\$ -					
2040	-	-	-	-	-	\$ -					
2041	-	-	-	-	-	\$ -					
2042	-	-	-	-	-	\$ -					
2043	-	-	-	-	-	\$ -					
2044	-	-	-	-	-	\$ -					
2045	-	-	-	-	-	\$ -					
2046	-	-	-	-	-	\$ -					
2047	-	-	-	-	-	\$ -					
2048	-	-	-	-	-	\$ -					
2049	-	-	-	-	-	\$ -					
2050	-	-	-	-	-	\$ -					
2051	-	-	-	-	-	\$ -					
2052	-	-	-	-	-	\$ -					
2053	-	-	-	-	-	\$ -					
2054	-	-	-	-	-	\$ -					
2055	-	-	-	-	-	\$ -					
2056	-	-	-	-	-	\$ -					
2057	-	-	-	-	-	\$ -					
2058	-	-	-	-	-	\$ -					
2059	-	-	-	-	-	\$ -					
2060	-	-	-	-	-	\$ -					
2061	-	-	-	-	-	\$ -					
2062	-	-	-	-	-	\$ -					
2063	-	-	-	-	-	\$ -					
2064	-	-	-	-	-	\$ -					
2065	-	-	-	-	-	\$ -					
2066	-	-	-	-	-	\$ -					
2067	-	-	-	-	-	\$ -					
2068	-	-	-	-	-	\$ -					
2069	-	-	-	-	-	\$ -					
2070	-	-	-	-	-	\$ -					
2071	-	-	-	-	-	\$ -					
2072	-	-	-	-	-	\$ -					
2073	-	-	-	-	-	\$ -					
Project Totals											

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Worksheet J - ATRR PROJECTED Calculation for PJM Projects Charged to Benefiting Zones

IV. Determine the Revenue Requirement, and Additional Revenue Requirement for facilities receiving incentives.

A. Base Plan Facilities

Facilities receiving incentives accepted by FERC in Docket No.	(e.g. ER05-925-000)

Project Description: RTEP ID: b2018 (Loop Conesville-Bixby 345 kV circuit into Ohio Central)

Current Projected Year ARR	2,106,755
Current Projected Year ARR w/ Incentive	2,106,755
Current Projected Year Incentive ARR	-

Details						
Investment	13,744,474	Current Year				2019
Service Year (yyyy)	2013	ROE increase accepted by FERC (Basis Points)				-
Service Month (1-12)	12	FCR w/o incentives, less depreciation				14.93%
Useful life	45	FCR w/incentives approved for these facilities, less dep.				14.93%
CIAC (Yes or No)	No	Annual Depreciation Expense				305,433
Investment Year	Beginning Balance	Depreciation Expense	Ending Balance	RTEP Rev. Req't. w/o Incentives	RTEP Rev. Req't. with Incentives **	Incentive Rev. Requirement ##
2013	13,744,474	-	13,744,474	2,052,139	2,052,139	\$ -
2014	13,744,474	305,433	13,439,041	2,334,770	2,334,770	\$ -
2015	13,439,041	305,433	13,133,608	2,289,167	2,289,167	\$ -
2016	13,133,608	305,433	12,828,176	2,243,564	2,243,564	\$ -
2017	12,828,176	305,433	12,522,743	2,197,961	2,197,961	\$ -
2018	12,522,743	305,433	12,217,310	2,152,358	2,152,358	\$ -
2019	12,217,310	305,433	11,911,877	2,106,755	2,106,755	\$ -
2020	11,911,877	305,433	11,606,445	2,061,151	2,061,151	\$ -
2021	11,606,445	305,433	11,301,012	2,015,548	2,015,548	\$ -
2022	11,301,012	305,433	10,995,579	1,969,945	1,969,945	\$ -
2023	10,995,579	305,433	10,690,146	1,924,342	1,924,342	\$ -
2024	10,690,146	305,433	10,384,714	1,878,739	1,878,739	\$ -
2025	10,384,714	305,433	10,079,281	1,833,136	1,833,136	\$ -
2026	10,079,281	305,433	9,773,848	1,787,533	1,787,533	\$ -
2027	9,773,848	305,433	9,468,415	1,741,930	1,741,930	\$ -
2028	9,468,415	305,433	9,162,983	1,696,327	1,696,327	\$ -
2029	9,162,983	305,433	8,857,550	1,650,724	1,650,724	\$ -
2030	8,857,550	305,433	8,552,117	1,605,121	1,605,121	\$ -
2031	8,552,117	305,433	8,246,684	1,559,518	1,559,518	\$ -
2032	8,246,684	305,433	7,941,252	1,513,914	1,513,914	\$ -
2033	7,941,252	305,433	7,635,819	1,468,311	1,468,311	\$ -
2034	7,635,819	305,433	7,330,386	1,422,708	1,422,708	\$ -
2035	7,330,386	305,433	7,024,953	1,377,105	1,377,105	\$ -
2036	7,024,953	305,433	6,719,521	1,331,502	1,331,502	\$ -
2037	6,719,521	305,433	6,414,088	1,285,899	1,285,899	\$ -
2038	6,414,088	305,433	6,108,655	1,240,296	1,240,296	\$ -
2039	6,108,655	305,433	5,803,222	1,194,693	1,194,693	\$ -
2040	5,803,222	305,433	5,497,790	1,149,090	1,149,090	\$ -
2041	5,497,790	305,433	5,192,357	1,103,487	1,103,487	\$ -
2042	5,192,357	305,433	4,886,924	1,057,884	1,057,884	\$ -
2043	4,886,924	305,433	4,581,491	1,012,281	1,012,281	\$ -
2044	4,581,491	305,433	4,276,059	966,677	966,677	\$ -
2045	4,276,059	305,433	3,970,626	921,074	921,074	\$ -
2046	3,970,626	305,433	3,665,193	875,471	875,471	\$ -
2047	3,665,193	305,433	3,359,760	829,868	829,868	\$ -
2048	3,359,760	305,433	3,054,328	784,265	784,265	\$ -
2049	3,054,328	305,433	2,748,895	738,662	738,662	\$ -
2050	2,748,895	305,433	2,443,462	693,059	693,059	\$ -
2051	2,443,462	305,433	2,138,029	647,456	647,456	\$ -
2052	2,138,029	305,433	1,832,597	601,853	601,853	\$ -
2053	1,832,597	305,433	1,527,164	556,250	556,250	\$ -
2054	1,527,164	305,433	1,221,731	510,647	510,647	\$ -
2055	1,221,731	305,433	916,298	465,044	465,044	\$ -
2056	916,298	305,433	610,866	419,440	419,440	\$ -
2057	610,866	305,433	305,433	373,837	373,837	\$ -
2058	305,433	305,433	0	328,234	328,234	\$ -
2059	0	0	-	0	0	\$ -
2060	-	-	-	-	-	\$ -
2061	-	-	-	-	-	\$ -
2062	-	-	-	-	-	\$ -
2063	-	-	-	-	-	\$ -
2064	-	-	-	-	-	\$ -
2065	-	-	-	-	-	\$ -
2066	-	-	-	-	-	\$ -
2067	-	-	-	-	-	\$ -
2068	-	-	-	-	-	\$ -
2069	-	-	-	-	-	\$ -
2070	-	-	-	-	-	\$ -
2071	-	-	-	-	-	\$ -
2072	-	-	-	-	-	\$ -
Project Totals		13,744,474	-	61,969,734	61,969,734	-

CUMULATIVE HISTORY OF PROJECTED ANNUAL REVENUE REQUIREMENTS:				
CUMULATIVE HISTORY OF PROJECTED ANNUAL REVENUE REQUIREMENTS: INPUT PROJECTED ARR (WITH & WITHOUT INCENTIVES) FROM EACH PRIOR YEAR TEMPLATE BELOW TO MAINTAIN HISTORY OF PROJECTED ARRS OVER THE LIFE OF THE PROJECT.				
RTEP Projected Rev. Req't.From Prior Year Template w/o Incentives		RTEP Projected Rev. Req't.From Prior Year Template with Incentives **		
\$ -		\$ -		
\$ 294,473		\$ 294,473		
\$ 1,769,452		\$ 1,769,452		
\$ 1,930,442		\$ 1,930,442		
\$ 2,311,328		\$ 2,311,328		
\$ 2,058,707				

*** This is the total amount that needs to be reported to PJM for billing to all regions.

This is the calculation of additional incentive revenue on projects deemed by the FERC to be eligible for an incentive return. This additional incentive requirement is applicable for the life of this specific project. Each year the revenue requirement calculated for PJM should be incremented by the amount of the incentive revenue calculated for that year on this project.

In order to calculate the proper monthly RTEP billing amount, PJM requires a 12 month revenue requirement for each RTEP project. As a result, notwithstanding the fact that the project was in service for a partial year, the project revenue requirement in the year that the project goes into service has been annualized (shown at the full-year level) so that PJM will collect the correct monthly billings.

Worksheet J - ATRR PROJECTED Calculation for PJM Projects Charged to Benefiting Zones

IV. Determine the Revenue Requirement, and Additional Revenue Requirement for facilities receiving incentives.

A. Base Plan Facilities

Facilities receiving incentives accepted by FERC in Docket No.	(e.g. ER05-925-000)

Project Description: RTEP ID: b2021 (Add 345/138 kV Transformers at Sporn, Kanawha River, and Muskingum River stations)

Current Projected Year ARR	3,297,995
Current Projected Year ARR w/ Incentive	3,297,995
Current Projected Year Incentive ARR	-

Details						
Investment	21,060,258	Current Year				2019
Service Year (yyyy)	2014	ROE increase accepted by FERC (Basis Points)				-
Service Month (1-12)	12	FCR w/o incentives, less depreciation				14.93%
Useful life	45	FCR w/incentives approved for these facilities, less dep.				14.93%
CIAC (Yes or No)	No	Annual Depreciation Expense				468,006
Investment Year	Beginning Balance	Depreciation Expense	Ending Balance	RTEP Rev. Req't. w/o Incentives	RTEP Rev. Req't. with Incentives **	Incentive Rev. Requirement ##
2014	21,060,258	-	21,060,258	3,144,433	3,144,433	\$ -
2015	21,060,258	468,006	20,592,252	3,577,500	3,577,500	\$ -
2016	20,592,252	468,006	20,124,247	3,507,624	3,507,624	\$ -
2017	20,124,247	468,006	19,656,241	3,437,748	3,437,748	\$ -
2018	19,656,241	468,006	19,188,235	3,367,871	3,367,871	\$ -
2019	19,188,235	468,006	18,720,229	3,297,995	3,297,995	\$ -
2020	18,720,229	468,006	18,252,224	3,228,119	3,228,119	\$ -
2021	18,252,224	468,006	17,784,218	3,158,242	3,158,242	\$ -
2022	17,784,218	468,006	17,316,212	3,088,366	3,088,366	\$ -
2023	17,316,212	468,006	16,848,206	3,018,490	3,018,490	\$ -
2024	16,848,206	468,006	16,380,201	2,948,614	2,948,614	\$ -
2025	16,380,201	468,006	15,912,195	2,878,737	2,878,737	\$ -
2026	15,912,195	468,006	15,444,189	2,808,861	2,808,861	\$ -
2027	15,444,189	468,006	14,976,183	2,738,985	2,738,985	\$ -
2028	14,976,183	468,006	14,508,178	2,669,108	2,669,108	\$ -
2029	14,508,178	468,006	14,040,172	2,599,232	2,599,232	\$ -
2030	14,040,172	468,006	13,572,166	2,529,356	2,529,356	\$ -
2031	13,572,166	468,006	13,104,161	2,459,480	2,459,480	\$ -
2032	13,104,161	468,006	12,636,155	2,389,603	2,389,603	\$ -
2033	12,636,155	468,006	12,168,149	2,319,727	2,319,727	\$ -
2034	12,168,149	468,006	11,700,143	2,249,851	2,249,851	\$ -
2035	11,700,143	468,006	11,232,138	2,179,975	2,179,975	\$ -
2036	11,232,138	468,006	10,764,132	2,110,098	2,110,098	\$ -
2037	10,764,132	468,006	10,296,126	2,040,222	2,040,222	\$ -
2038	10,296,126	468,006	9,828,120	1,970,346	1,970,346	\$ -
2039	9,828,120	468,006	9,360,115	1,900,469	1,900,469	\$ -
2040	9,360,115	468,006	8,892,109	1,830,593	1,830,593	\$ -
2041	8,892,109	468,006	8,424,103	1,760,717	1,760,717	\$ -
2042	8,424,103	468,006	7,956,097	1,690,841	1,690,841	\$ -
2043	7,956,097	468,006	7,488,092	1,620,964	1,620,964	\$ -
2044	7,488,092	468,006	7,020,086	1,551,088	1,551,088	\$ -
2045	7,020,086	468,006	6,552,080	1,481,212	1,481,212	\$ -
2046	6,552,080	468,006	6,084,075	1,411,335	1,411,335	\$ -
2047	6,084,075	468,006	5,616,069	1,341,459	1,341,459	\$ -
2048	5,616,069	468,006	5,148,063	1,271,583	1,271,583	\$ -
2049	5,148,063	468,006	4,680,057	1,201,707	1,201,707	\$ -
2050	4,680,057	468,006	4,212,052	1,131,830	1,131,830	\$ -
2051	4,212,052	468,006	3,744,046	1,061,954	1,061,954	\$ -
2052	3,744,046	468,006	3,276,040	992,078	992,078	\$ -
2053	3,276,040	468,006	2,808,034	922,202	922,202	\$ -
2054	2,808,034	468,006	2,340,029	852,325	852,325	\$ -
2055	2,340,029	468,006	1,872,023	782,449	782,449	\$ -
2056	1,872,023	468,006	1,404,017	712,573	712,573	\$ -
2057	1,404,017	468,006	936,011	642,696	642,696	\$ -
2058	936,011	468,006	468,006	572,820	572,820	\$ -
2059	468,006	468,006	0	502,944	502,944	\$ -
2060	0	0	-	0	0	\$ -
2061	-	-	-	-	-	\$ -
2062	-	-	-	-	-	\$ -
2063	-	-	-	-	-	\$ -
2064	-	-	-	-	-	\$ -
2065	-	-	-	-	-	\$ -
2066	-	-	-	-	-	\$ -
2067	-	-	-	-	-	\$ -
2068	-	-	-	-	-	\$ -
2069	-	-	-	-	-	\$ -
2070	-	-	-	-	-	\$ -
2071	-	-	-	-	-	\$ -
2072	-	-	-	-	-	\$ -
2073	-	-	-	-	-	\$ -
Project Totals		21,060,258	-	94,954,422	94,954,422	-

[illegible]

*** This is the total amount that needs to be reported to PJM for billing to all regions.

This is the calculation of additional incentive revenue on projects deemed by the FERC to be eligible for an incentive return. This additional incentive requirement is applicable for the life of this specific project. Each year the revenue requirement calculated for PJM should be incremented by the amount of the incentive revenue calculated for that year on this project.

In order to calculate the proper monthly RTEP billing amount, PJM requires a 12 month revenue requirement for each RTEP project. As a result, notwithstanding the fact that the project was in service for a partial year, the project revenue requirement in the year that the project goes into service has been annualized (shown at the full-year level) so that PJM will collect the correct monthly billings.

Worksheet J - ATRR PROJECTED Calculation for PJM Projects Charged to Benefiting Zones

IV. Determine the Revenue Requirement, and Additional Revenue Requirement for facilities receiving incentives.

A. Base Plan Facilities

Facilities receiving incentives accepted by FERC in Docket No.	(e.g. ER05-925-000)

Project Description: RTEP ID: b2032 (Rebuild 138 kV Elliott Tap-Poston line)

Current Projected Year ARR	589,081
Current Projected Year ARR w/ Incentive	589,081
Current Projected Year Incentive ARR	-

Details						
Investment	3,781,771	Current Year				2019
Service Year (yyyy)	2014	ROE increase accepted by FERC (Basis Points)				-
Service Month (1-12)	9	FCR w/o incentives, less depreciation				14.93%
Useful life	45	FCR w/incentives approved for these facilities, less dep.				14.93%
CIAC (Yes or No)	No	Annual Depreciation Expense				84,039
Investment Year	Beginning Balance	Depreciation Expense	Ending Balance	RTEP Rev. Req't. w/o Incentives	RTEP Rev. Req't. with Incentives **	Incentive Rev. Requirement ##
2014	3,781,771	21,010	3,760,761	584,084	584,084	\$ -
2015	3,760,761	84,039	3,676,722	639,271	639,271	\$ -
2016	3,676,722	84,039	3,592,682	626,724	626,724	\$ -
2017	3,592,682	84,039	3,508,643	614,176	614,176	\$ -
2018	3,508,643	84,039	3,424,604	601,629	601,629	\$ -
2019	3,424,604	84,039	3,340,564	589,081	589,081	\$ -
2020	3,340,564	84,039	3,256,525	576,533	576,533	\$ -
2021	3,256,525	84,039	3,172,486	563,986	563,986	\$ -
2022	3,172,486	84,039	3,088,446	551,438	551,438	\$ -
2023	3,088,446	84,039	3,004,407	538,891	538,891	\$ -
2024	3,004,407	84,039	2,920,368	526,343	526,343	\$ -
2025	2,920,368	84,039	2,836,328	513,795	513,795	\$ -
2026	2,836,328	84,039	2,752,289	501,248	501,248	\$ -
2027	2,752,289	84,039	2,668,250	488,700	488,700	\$ -
2028	2,668,250	84,039	2,584,210	476,152	476,152	\$ -
2029	2,584,210	84,039	2,500,171	463,605	463,605	\$ -
2030	2,500,171	84,039	2,416,131	451,057	451,057	\$ -
2031	2,416,131	84,039	2,332,092	438,510	438,510	\$ -
2032	2,332,092	84,039	2,248,053	425,962	425,962	\$ -
2033	2,248,053	84,039	2,164,013	413,414	413,414	\$ -
2034	2,164,013	84,039	2,079,974	400,867	400,867	\$ -
2035	2,079,974	84,039	1,995,935	388,319	388,319	\$ -
2036	1,995,935	84,039	1,911,895	375,771	375,771	\$ -
2037	1,911,895	84,039	1,827,856	363,224	363,224	\$ -
2038	1,827,856	84,039	1,743,817	350,676	350,676	\$ -
2039	1,743,817	84,039	1,659,777	338,129	338,129	\$ -
2040	1,659,777	84,039	1,575,738	325,581	325,581	\$ -
2041	1,575,738	84,039	1,491,699	313,033	313,033	\$ -
2042	1,491,699	84,039	1,407,659	300,486	300,486	\$ -
2043	1,407,659	84,039	1,323,620	287,938	287,938	\$ -
2044	1,323,620	84,039	1,239,580	275,391	275,391	\$ -
2045	1,239,580	84,039	1,155,541	262,843	262,843	\$ -
2046	1,155,541	84,039	1,071,502	250,295	250,295	\$ -
2047	1,071,502	84,039	987,462	237,748	237,748	\$ -
2048	987,462	84,039	903,423	225,200	225,200	\$ -
2049	903,423	84,039	819,384	212,652	212,652	\$ -
2050	819,384	84,039	735,344	200,105	200,105	\$ -
2051	735,344	84,039	651,305	187,557	187,557	\$ -
2052	651,305	84,039	567,266	175,010	175,010	\$ -
2053	567,266	84,039	483,226	162,462	162,462	\$ -
2054	483,226	84,039	399,187	149,914	149,914	\$ -
2055	399,187	84,039	315,148	137,367	137,367	\$ -
2056	315,148	84,039	231,108	124,819	124,819	\$ -
2057	231,108	84,039	147,069	112,271	112,271	\$ -
2058	147,069	84,039	63,030	99,724	99,724	\$ -
2059	63,030	84,039	-	67,735	67,735	\$ -
2060	-	-	-	-	-	\$ -
2061	-	-	-	-	-	\$ -
2062	-	-	-	-	-	\$ -
2063	-	-	-	-	-	\$ -
2064	-	-	-	-	-	\$ -
2065	-	-	-	-	-	\$ -
2066	-	-	-	-	-	\$ -
2067	-	-	-	-	-	\$ -
2068	-	-	-	-	-	\$ -
2069	-	-	-	-	-	\$ -
2070	-	-	-	-	-	\$ -
2071	-	-	-	-	-	\$ -
2072	-	-	-	-	-	\$ -
2073	-	-	-	-	-	\$ -
Project Totals		3,781,771	-	16,909,717	16,909,717	-

[illegible]

*** This is the total amount that needs to be reported to PJM for billing to all regions.

This is the calculation of additional incentive revenue on projects deemed by the FERC to be eligible for an incentive return. This additional incentive requirement is applicable for the life of this specific project. Each year the revenue requirement calculated for PJM should be incremented by the amount of the incentive revenue calculated for that year on this project.

In order to calculate the proper monthly RTEP billing amount, PJM requires a 12 month revenue requirement for each RTEP project. As a result, notwithstanding the fact that the project was in service for a partial year, the project revenue requirement in the year that the project goes into service has been annualized (shown at the full-year level) so that PJM will collect the correct monthly billings.

Worksheet J - ATRR PROJECTED Calculation for PJM Projects Charged to Benefiting Zones

IV. Determine the Revenue Requirement, and Additional Revenue Requirement for facilities receiving incentives.

A. Base Plan Facilities

Facilities receiving incentives accepted by FERC in Docket No.	(e.g. ER05-925-000)

Project Description: RTEP ID: b1032.1 (Construct a new 345/138kV station on the Marquis-Bixby 345kV line near the intersection with Ross - Highland 69kV)

Current Projected Year ARR	4,209,863
Current Projected Year ARR w/ Incentive	4,209,863
Current Projected Year Incentive ARR	-

Details						
Investment	26,055,178	Current Year				2019
Service Year (yyyy)	2016	ROE increase accepted by FERC (Basis Points)				-
Service Month (1-12)	6	FCR w/o incentives, less depreciation				14.93%
Useful life	45	FCR w/incentives approved for these facilities, less dep.				14.93%
CIAC (Yes or No)	No	Annual Depreciation Expense				579,004
Investment Year	Beginning Balance	Depreciation Expense	Ending Balance	RTEP Rev. Req't. w/o Incentives	RTEP Rev. Req't. with Incentives **	Incentive Rev. Requirement ##
2016	26,055,178	289,502	25,765,676	4,158,096	4,158,096	\$ -
2017	25,765,676	579,004	25,186,672	4,382,761	4,382,761	\$ -
2018	25,186,672	579,004	24,607,668	4,296,312	4,296,312	\$ -
2019	24,607,668	579,004	24,028,664	4,209,863	4,209,863	\$ -
2020	24,028,664	579,004	23,449,660	4,123,414	4,123,414	\$ -
2021	23,449,660	579,004	22,870,656	4,036,965	4,036,965	\$ -
2022	22,870,656	579,004	22,291,652	3,950,516	3,950,516	\$ -
2023	22,291,652	579,004	21,712,648	3,864,067	3,864,067	\$ -
2024	21,712,648	579,004	21,133,644	3,777,618	3,777,618	\$ -
2025	21,133,644	579,004	20,554,640	3,691,169	3,691,169	\$ -
2026	20,554,640	579,004	19,975,636	3,604,720	3,604,720	\$ -
2027	19,975,636	579,004	19,396,633	3,518,271	3,518,271	\$ -
2028	19,396,633	579,004	18,817,629	3,431,822	3,431,822	\$ -
2029	18,817,629	579,004	18,238,625	3,345,373	3,345,373	\$ -
2030	18,238,625	579,004	17,659,621	3,258,924	3,258,924	\$ -
2031	17,659,621	579,004	17,080,617	3,172,475	3,172,475	\$ -
2032	17,080,617	579,004	16,501,613	3,086,026	3,086,026	\$ -
2033	16,501,613	579,004	15,922,609	2,999,577	2,999,577	\$ -
2034	15,922,609	579,004	15,343,605	2,913,128	2,913,128	\$ -
2035	15,343,605	579,004	14,764,601	2,826,679	2,826,679	\$ -
2036	14,764,601	579,004	14,185,597	2,740,230	2,740,230	\$ -
2037	14,185,597	579,004	13,606,593	2,653,781	2,653,781	\$ -
2038	13,606,593	579,004	13,027,589	2,567,332	2,567,332	\$ -
2039	13,027,589	579,004	12,448,585	2,480,883	2,480,883	\$ -
2040	12,448,585	579,004	11,869,581	2,394,434	2,394,434	\$ -
2041	11,869,581	579,004	11,290,577	2,307,985	2,307,985	\$ -
2042	11,290,577	579,004	10,711,573	2,221,536	2,221,536	\$ -
2043	10,711,573	579,004	10,132,569	2,135,086	2,135,086	\$ -
2044	10,132,569	579,004	9,553,565	2,048,637	2,048,637	\$ -
2045	9,553,565	579,004	8,974,561	1,962,188	1,962,188	\$ -
2046	8,974,561	579,004	8,395,557	1,875,739	1,875,739	\$ -
2047	8,395,557	579,004	7,816,553	1,789,290	1,789,290	\$ -
2048	7,816,553	579,004	7,237,549	1,702,841	1,702,841	\$ -
2049	7,237,549	579,004	6,658,545	1,616,392	1,616,392	\$ -
2050	6,658,545	579,004	6,079,542	1,529,943	1,529,943	\$ -
2051	6,079,542	579,004	5,500,538	1,443,494	1,443,494	\$ -
2052	5,500,538	579,004	4,921,534	1,357,045	1,357,045	\$ -
2053	4,921,534	579,004	4,342,530	1,270,596	1,270,596	\$ -
2054	4,342,530	579,004	3,763,526	1,184,147	1,184,147	\$ -
2055	3,763,526	579,004	3,184,522	1,097,698	1,097,698	\$ -
2056	3,184,522	579,004	2,605,518	1,011,249	1,011,249	\$ -
2057	2,605,518	579,004	2,026,514	924,800	924,800	\$ -
2058	2,026,514	579,004	1,447,510	838,351	838,351	\$ -
2059	1,447,510	579,004	868,506	751,902	751,902	\$ -
2060	868,506	579,004	289,502	665,453	665,453	\$ -
2061	289,502	289,502	-	311,114	311,114	\$ -
2062	-	-	-	-	-	\$ -
2063	-	-	-	-	-	\$ -
2064	-	-	-	-	-	\$ -
2065	-	-	-	-	-	\$ -
2066	-	-	-	-	-	\$ -
2067	-	-	-	-	-	\$ -
2068	-	-	-	-	-	\$ -
2069	-	-	-	-	-	\$ -
2070	-	-	-	-	-	\$ -
2071	-	-	-	-	-	\$ -
2072	-	-	-	-	-	\$ -
2073	-	-	-	-	-	\$ -
2074	-	-	-	-	-	\$ -
2075	-	-	-	-	-	\$ -
Project Totals		26,055,178		115,529,923	115,529,923	-

[illegible]

*** This is the total amount that needs to be reported to PJM for billing to all regions.

This is the calculation of additional incentive revenue on projects deemed by the FERC to be eligible for an incentive return. This additional incentive requirement is applicable for the life of this specific project. Each year the revenue requirement calculated for PJM should be incremented by the amount of the incentive revenue calculated for that year on this project.

In order to calculate the proper monthly RTEP billing amount, PJM requires a 12 month revenue requirement for each RTEP project. As a result, notwithstanding the fact that the project was in service for a partial year, the project revenue requirement in the year that the project goes into service has been annualized (shown at the full-year level) so that PJM will collect the correct monthly billings.

Worksheet J - ATRR PROJECTED Calculation for PJM Projects Charged to Benefiting Zones

IV. Determine the Revenue Requirement, and Additional Revenue Requirement for facilities receiving incentives.

A. Base Plan Facilities

Facilities receiving incentives accepted by FERC in Docket No.	(e.g. ER05-925-000)

Project Description: RTEP ID: b1032.4 (Install 138/69kV transformer at new station and connect in the Ross - Highland 69kV line)

Current Projected Year ARR	983,630
Current Projected Year ARR w/ Incentive	983,630
Current Projected Year Incentive ARR	-

Details						
Investment	6,215,398	Current Year			2019	
Service Year (yyyy)	2015	ROE increase accepted by FERC (Basis Points)			-	
Service Month (1-12)	6	FCR w/o incentives, less depreciation			14.93%	
Useful life	45	FCR w/incentives approved for these facilities, less dep.			14.93%	
CIAC (Yes or No)	No	Annual Depreciation Expense			138,120	
Investment Year	Beginning Balance	Depreciation Expense	Ending Balance	RTEP Rev. Req't. w/o Incentives	RTEP Rev. Req't. with Incentives **	Incentive Rev. Requirement ##
2015	6,215,398	69,060	6,146,338	991,903	991,903	\$ -
2016	6,146,338	138,120	6,008,218	1,045,497	1,045,497	\$ -
2017	6,008,218	138,120	5,870,098	1,024,875	1,024,875	\$ -
2018	5,870,098	138,120	5,731,978	1,004,252	1,004,252	\$ -
2019	5,731,978	138,120	5,593,858	983,630	983,630	\$ -
2020	5,593,858	138,120	5,455,738	963,008	963,008	\$ -
2021	5,455,738	138,120	5,317,618	942,386	942,386	\$ -
2022	5,317,618	138,120	5,179,498	921,764	921,764	\$ -
2023	5,179,498	138,120	5,041,378	901,141	901,141	\$ -
2024	5,041,378	138,120	4,903,258	880,519	880,519	\$ -
2025	4,903,258	138,120	4,765,138	859,897	859,897	\$ -
2026	4,765,138	138,120	4,627,019	839,275	839,275	\$ -
2027	4,627,019	138,120	4,488,899	818,653	818,653	\$ -
2028	4,488,899	138,120	4,350,779	798,030	798,030	\$ -
2029	4,350,779	138,120	4,212,659	777,408	777,408	\$ -
2030	4,212,659	138,120	4,074,539	756,786	756,786	\$ -
2031	4,074,539	138,120	3,936,419	736,164	736,164	\$ -
2032	3,936,419	138,120	3,798,299	715,542	715,542	\$ -
2033	3,798,299	138,120	3,660,179	694,919	694,919	\$ -
2034	3,660,179	138,120	3,522,059	674,297	674,297	\$ -
2035	3,522,059	138,120	3,383,939	653,675	653,675	\$ -
2036	3,383,939	138,120	3,245,819	633,053	633,053	\$ -
2037	3,245,819	138,120	3,107,699	612,431	612,431	\$ -
2038	3,107,699	138,120	2,969,579	591,808	591,808	\$ -
2039	2,969,579	138,120	2,831,459	571,186	571,186	\$ -
2040	2,831,459	138,120	2,693,339	550,564	550,564	\$ -
2041	2,693,339	138,120	2,555,219	529,942	529,942	\$ -
2042	2,555,219	138,120	2,417,099	509,320	509,320	\$ -
2043	2,417,099	138,120	2,278,979	488,697	488,697	\$ -
2044	2,278,979	138,120	2,140,859	468,075	468,075	\$ -
2045	2,140,859	138,120	2,002,739	447,453	447,453	\$ -
2046	2,002,739	138,120	1,864,619	426,831	426,831	\$ -
2047	1,864,619	138,120	1,726,499	406,209	406,209	\$ -
2048	1,726,499	138,120	1,588,379	385,586	385,586	\$ -
2049	1,588,379	138,120	1,450,260	364,964	364,964	\$ -
2050	1,450,260	138,120	1,312,140	344,342	344,342	\$ -
2051	1,312,140	138,120	1,174,020	323,720	323,720	\$ -
2052	1,174,020	138,120	1,035,900	303,098	303,098	\$ -
2053	1,035,900	138,120	897,780	282,475	282,475	\$ -
2054	897,780	138,120	759,660	261,853	261,853	\$ -
2055	759,660	138,120	621,540	241,231	241,231	\$ -
2056	621,540	138,120	483,420	220,609	220,609	\$ -
2057	483,420	138,120	345,300	199,987	199,987	\$ -
2058	345,300	138,120	207,180	179,364	179,364	\$ -
2059	207,180	138,120	69,060	158,742	158,742	\$ -
2060	69,060	69,060	-	74,216	74,216	\$ -
2061	-	-	-	-	-	\$ -
2062	-	-	-	-	-	\$ -
2063	-	-	-	-	-	\$ -
2064	-	-	-	-	-	\$ -
2065	-	-	-	-	-	\$ -
2066	-	-	-	-	-	\$ -
2067	-	-	-	-	-	\$ -
2068	-	-	-	-	-	\$ -
2069	-	-	-	-	-	\$ -
2070	-	-	-	-	-	\$ -
2071	-	-	-	-	-	\$ -
2072	-	-	-	-	-	\$ -
2073	-	-	-	-	-	\$ -
2074	-	-	-	-	-	\$ -
Project Totals		6,215,398	-	27,559,376	27,559,376	-

[illegible]

** This is the total amount that needs to be reported to PJM for billing to all regions.

This is the calculation of additional incentive revenue on projects deemed by the FERC to be eligible for an incentive return. This additional incentive requirement is applicable for the life of this specific project. Each year the revenue requirement calculated for PJM should be incremented by the amount of the incentive revenue calculated for that year on this project.

In order to calculate the proper monthly RTEP billing amount, PJM requires a 12 month revenue requirement for each RTEP project. As a result, notwithstanding the fact that the project was in service for a partial year, the project revenue requirement in the year that the project goes into service has been annualized (shown at the full-year level) so that PJM will collect the correct monthly billings.

Worksheet J - ATRR PROJECTED Calculation for PJM Projects Charged to Benefiting Zones

IV. Determine the Revenue Requirement, and Additional Revenue Requirement for facilities receiving incentives.

A. Base Plan Facilities

Facilities receiving incentives accepted by FERC in Docket No.	(e.g. ER05-925-000)

Project Description: RTEP ID: b1666 (Build an 8 breaker 138 kV station tapping both circuits of the Fostoria-East Lima 138 kV line)

Current Projected Year ARR	2,918,930
Current Projected Year ARR w/ Incentive	2,918,930
Current Projected Year Incentive ARR	-

Details						
Investment	18,412,075	Current Year				2019
Service Year (yyyy)	2015	ROE increase accepted by FERC (Basis Points)				-
Service Month (1-12)	7	FCR w/o incentives, less depreciation				14.93%
Useful life	45	FCR w/incentives approved for these facilities, less dep.				14.93%
CIAC (Yes or No)	No	Annual Depreciation Expense				409,157
Investment Year	Beginning Balance	Depreciation Expense	Ending Balance	RTEP Rev. Req't. w/o Incentives	RTEP Rev. Req't. with Incentives **	Incentive Rev. Requirement ##
2015	18,412,075	170,482	18,241,593	2,906,797	2,906,797	\$ -
2016	18,241,593	409,157	17,832,436	3,102,200	3,102,200	\$ -
2017	17,832,436	409,157	17,423,278	3,041,110	3,041,110	\$ -
2018	17,423,278	409,157	17,014,121	2,980,020	2,980,020	\$ -
2019	17,014,121	409,157	16,604,964	2,918,930	2,918,930	\$ -
2020	16,604,964	409,157	16,195,807	2,857,841	2,857,841	\$ -
2021	16,195,807	409,157	15,786,649	2,796,751	2,796,751	\$ -
2022	15,786,649	409,157	15,377,492	2,735,661	2,735,661	\$ -
2023	15,377,492	409,157	14,968,335	2,674,571	2,674,571	\$ -
2024	14,968,335	409,157	14,559,178	2,613,481	2,613,481	\$ -
2025	14,559,178	409,157	14,150,021	2,552,392	2,552,392	\$ -
2026	14,150,021	409,157	13,740,863	2,491,302	2,491,302	\$ -
2027	13,740,863	409,157	13,331,706	2,430,212	2,430,212	\$ -
2028	13,331,706	409,157	12,922,549	2,369,122	2,369,122	\$ -
2029	12,922,549	409,157	12,513,392	2,308,032	2,308,032	\$ -
2030	12,513,392	409,157	12,104,234	2,246,942	2,246,942	\$ -
2031	12,104,234	409,157	11,695,077	2,185,853	2,185,853	\$ -
2032	11,695,077	409,157	11,285,920	2,124,763	2,124,763	\$ -
2033	11,285,920	409,157	10,876,763	2,063,673	2,063,673	\$ -
2034	10,876,763	409,157	10,467,606	2,002,583	2,002,583	\$ -
2035	10,467,606	409,157	10,058,448	1,941,493	1,941,493	\$ -
2036	10,058,448	409,157	9,649,291	1,880,404	1,880,404	\$ -
2037	9,649,291	409,157	9,240,134	1,819,314	1,819,314	\$ -
2038	9,240,134	409,157	8,830,977	1,758,224	1,758,224	\$ -
2039	8,830,977	409,157	8,421,819	1,697,134	1,697,134	\$ -
2040	8,421,819	409,157	8,012,662	1,636,044	1,636,044	\$ -
2041	8,012,662	409,157	7,603,505	1,574,955	1,574,955	\$ -
2042	7,603,505	409,157	7,194,348	1,513,865	1,513,865	\$ -
2043	7,194,348	409,157	6,785,191	1,452,775	1,452,775	\$ -
2044	6,785,191	409,157	6,376,033	1,391,685	1,391,685	\$ -
2045	6,376,033	409,157	5,966,876	1,330,595	1,330,595	\$ -
2046	5,966,876	409,157	5,557,719	1,269,505	1,269,505	\$ -
2047	5,557,719	409,157	5,148,562	1,208,416	1,208,416	\$ -
2048	5,148,562	409,157	4,739,404	1,147,326	1,147,326	\$ -
2049	4,739,404	409,157	4,330,247	1,086,236	1,086,236	\$ -
2050	4,330,247	409,157	3,921,090	1,025,146	1,025,146	\$ -
2051	3,921,090	409,157	3,511,933	964,056	964,056	\$ -
2052	3,511,933	409,157	3,102,776	902,967	902,967	\$ -
2053	3,102,776	409,157	2,693,618	841,877	841,877	\$ -
2054	2,693,618	409,157	2,284,461	780,787	780,787	\$ -
2055	2,284,461	409,157	1,875,304	719,697	719,697	\$ -
2056	1,875,304	409,157	1,466,147	658,607	658,607	\$ -
2057	1,466,147	409,157	1,056,989	597,517	597,517	\$ -
2058	1,056,989	409,157	647,832	536,428	536,428	\$ -
2059	647,832	409,157	238,675	475,338	475,338	\$ -
2060	238,675	238,675	-	256,493	256,493	\$ -
2061	-	-	-	-	-	\$ -
2062	-	-	-	-	-	\$ -
2063	-	-	-	-	-	\$ -
2064	-	-	-	-	-	\$ -
2065	-	-	-	-	-	\$ -
2066	-	-	-	-	-	\$ -
2067	-	-	-	-	-	\$ -
2068	-	-	-	-	-	\$ -
2069	-	-	-	-	-	\$ -
2070	-	-	-	-	-	\$ -
2071	-	-	-	-	-	\$ -
2072	-	-	-	-	-	\$ -
2073	-	-	-	-	-	\$ -
2074	-	-	-	-	-	\$ -
Project Totals		18,412,075	-	81,869,120	81,869,120	-

[illegible]

*** This is the total amount that needs to be reported to PJM for billing to all regions.

This is the calculation of additional incentive revenue on projects deemed by the FERC to be eligible for an incentive return. This additional incentive requirement is applicable for the life of this specific project. Each year the revenue requirement calculated for PJM should be incremented by the amount of the incentive revenue calculated for that year on this project.

In order to calculate the proper monthly RTEP billing amount, PJM requires a 12 month revenue requirement for each RTEP project. As a result, notwithstanding the fact that the project was in service for a partial year, the project revenue requirement in the year that the project goes into service has been annualized (shown at the full-year level) so that PJM will collect the correct monthly billings.

Worksheet J - ATRR PROJECTED Calculation for PJM Projects Charged to Benefiting Zones

IV. Determine the Revenue Requirement, and Additional Revenue Requirement for facilities receiving incentives.

A. Base Plan Facilities

Facilities receiving incentives accepted by FERC in Docket No.	(e.g. ER05-925-000)

Project Description: RTEP ID: b1819 (Rebuild the Robinson Park-Sorneson 138 kV line corridor as a 345 kV double circuit line with one side operated at 345 kV and one side at 138 kV)

Current Projected Year ARR	-
Current Projected Year ARR w/ Incentive	-
Current Projected Year Incentive ARR	-

[illegible]

CUMULATIVE HISTORY OF PROJECTED ANNUAL REVENUE REQUIREMENTS:				
CUMULATIVE HISTORY OF PROJECTED ANNUAL REVENUE REQUIREMENTS: INPUT PROJECTED ARR (WITH & WITHOUT INCENTIVES) FROM EACH PRIOR YEAR TEMPLATE BELOW TO MAINTAIN HISTORY OF PROJECTED ARRS OVER THE LIFE OF THE PROJECT.				
RTEP Projected Rev. Req't.From Prior Year Template w/o Incentives		RTEP Projected Rev. Req't.From Prior Year Template with Incentives **		

*** This is the total amount that needs to be reported to PJM for billing to all regions.

This is the calculation of additional incentive revenue on projects deemed by the FERC to be eligible for an incentive return. This additional incentive requirement is applicable for the life of this specific project. Each year the revenue requirement calculated for PJM should be incremented by the amount of the incentive revenue calculated for that year on this project.

In order to calculate the proper monthly RTEP billing amount, PJM requires a 12 month revenue requirement for each RTEP project. As a result, notwithstanding the fact that the project was in service for a partial year, the project revenue requirement in the year that the project goes into service has been annualized (shown at the full-year level) so that PJM will collect the correct monthly billings.

Worksheet J - ATRR PROJECTED Calculation for PJM Projects Charged to Benefiting Zones

IV. Determine the Revenue Requirement, and Additional Revenue Requirement for facilities receiving incentives.

A. Base Plan Facilities

Facilities receiving incentives accepted by FERC in Docket No.	(e.g. ER05-925-000)

Project Description: RTEP ID: b1957 (Terminate Transformer #2 at SW Lima in new bay position)

Current Projected Year ARR	1,177,105
Current Projected Year ARR w/ Incentive	1,177,105
Current Projected Year Incentive ARR	-

Details						
Investment	7,360,772	Current Year				2019
Service Year (yyyy)	2015	ROE increase accepted by FERC (Basis Points)				-
Service Month (1-12)	12	FCR w/o incentives, less depreciation				14.93%
Useful life	45	FCR w/incentives approved for these facilities, less dep.				14.93%
CIAC (Yes or No)	No	Annual Depreciation Expense				163,573
Investment Year	Beginning Balance	Depreciation Expense	Ending Balance	RTEP Rev. Req't. w/o Incentives	RTEP Rev. Req't. with Incentives **	Incentive Rev. Requirement ##
2015	7,360,772	-	7,360,772	1,099,011	\$ 1,099,011	\$ -
2016	7,360,772	163,573	7,197,199	1,250,372	\$ 1,250,372	\$ -
2017	7,197,199	163,573	7,033,627	1,225,950	\$ 1,225,950	\$ -
2018	7,033,627	163,573	6,870,054	1,201,527	\$ 1,201,527	\$ -
2019	6,870,054	163,573	6,706,481	1,177,105	\$ 1,177,105	\$ -
2020	6,706,481	163,573	6,542,908	1,152,682	\$ 1,152,682	\$ -
2021	6,542,908	163,573	6,379,336	1,128,260	\$ 1,128,260	\$ -
2022	6,379,336	163,573	6,215,763	1,103,837	\$ 1,103,837	\$ -
2023	6,215,763	163,573	6,052,190	1,079,415	\$ 1,079,415	\$ -
2024	6,052,190	163,573	5,888,618	1,054,993	\$ 1,054,993	\$ -
2025	5,888,618	163,573	5,725,045	1,030,570	\$ 1,030,570	\$ -
2026	5,725,045	163,573	5,561,472	1,006,148	\$ 1,006,148	\$ -
2027	5,561,472	163,573	5,397,899	981,725	\$ 981,725	\$ -
2028	5,397,899	163,573	5,234,327	957,303	\$ 957,303	\$ -
2029	5,234,327	163,573	5,070,754	932,880	\$ 932,880	\$ -
2030	5,070,754	163,573	4,907,181	908,458	\$ 908,458	\$ -
2031	4,907,181	163,573	4,743,609	884,035	\$ 884,035	\$ -
2032	4,743,609	163,573	4,580,036	859,613	\$ 859,613	\$ -
2033	4,580,036	163,573	4,416,463	835,190	\$ 835,190	\$ -
2034	4,416,463	163,573	4,252,890	810,768	\$ 810,768	\$ -
2035	4,252,890	163,573	4,089,318	786,345	\$ 786,345	\$ -
2036	4,089,318	163,573	3,925,745	761,923	\$ 761,923	\$ -
2037	3,925,745	163,573	3,762,172	737,501	\$ 737,501	\$ -
2038	3,762,172	163,573	3,598,600	713,078	\$ 713,078	\$ -
2039	3,598,600	163,573	3,435,027	688,656	\$ 688,656	\$ -
2040	3,435,027	163,573	3,271,454	664,233	\$ 664,233	\$ -
2041	3,271,454	163,573	3,107,882	639,811	\$ 639,811	\$ -
2042	3,107,882	163,573	2,944,309	615,388	\$ 615,388	\$ -
2043	2,944,309	163,573	2,780,736	590,966	\$ 590,966	\$ -
2044	2,780,736	163,573	2,617,163	566,543	\$ 566,543	\$ -
2045	2,617,163	163,573	2,453,591	542,121	\$ 542,121	\$ -
2046	2,453,591	163,573	2,290,018	517,698	\$ 517,698	\$ -
2047	2,290,018	163,573	2,126,445	493,276	\$ 493,276	\$ -
2048	2,126,445	163,573	1,962,873	468,853	\$ 468,853	\$ -
2049	1,962,873	163,573	1,799,300	444,431	\$ 444,431	\$ -
2050	1,799,300	163,573	1,635,727	420,009	\$ 420,009	\$ -
2051	1,635,727	163,573	1,472,154	395,586	\$ 395,586	\$ -
2052	1,472,154	163,573	1,308,582	371,164	\$ 371,164	\$ -
2053	1,308,582	163,573	1,145,009	346,741	\$ 346,741	\$ -
2054	1,145,009	163,573	981,436	322,319	\$ 322,319	\$ -
2055	981,436	163,573	817,864	297,896	\$ 297,896	\$ -
2056	817,864	163,573	654,291	273,474	\$ 273,474	\$ -
2057	654,291	163,573	490,718	249,051	\$ 249,051	\$ -
2058	490,718	163,573	327,145	224,629	\$ 224,629	\$ -
2059	327,145	163,573	163,573	200,206	\$ 200,206	\$ -
2060	163,573	163,573	-	175,784	\$ 175,784	\$ -
2061	-	-	-	-	\$ -	\$ -
2062	-	-	-	-	\$ -	\$ -
2063	-	-	-	-	\$ -	\$ -
2064	-	-	-	-	\$ -	\$ -
2065	-	-	-	-	\$ -	\$ -
2066	-	-	-	-	\$ -	\$ -
2067	-	-	-	-	\$ -	\$ -
2068	-	-	-	-	\$ -	\$ -
2069	-	-	-	-	\$ -	\$ -
2070	-	-	-	-	\$ -	\$ -
2071	-	-	-	-	\$ -	\$ -
2072	-	-	-	-	\$ -	\$ -
2073	-	-	-	-	\$ -	\$ -
2074	-	-	-	-	\$ -	\$ -
Project Totals		7,360,772		33,187,526	33,187,526	-

[illegible]

*** This is the total amount that needs to be reported to PJM for billing to all regions.

This is the calculation of additional incentive revenue on projects deemed by the FERC to be eligible for an incentive return. This additional incentive requirement is applicable for the life of this specific project. Each year the revenue requirement calculated for PJM should be incremented by the amount of the incentive revenue calculated for that year on this project.

In order to calculate the proper monthly RTEP billing amount, PJM requires a 12 month revenue requirement for each RTEP project. As a result, notwithstanding the fact that the project was in service for a partial year, the project revenue requirement in the year that the project goes into service has been annualized (shown at the full-year level) so that PJM will collect the correct monthly billings.

Worksheet J - ATRR PROJECTED Calculation for PJM Projects Charged to Benefiting Zones

IV. Determine the Revenue Requirement, and Additional Revenue Requirement for facilities receiving incentives.

A. Base Plan Facilities

Facilities receiving incentives accepted by FERC in Docket No.	(e.g. ER05-925-000)

Current Projected Year ARR	8,066,438
Current Projected Year ARR w/ Incentive	8,066,438
Current Projected Year Incentive ARR	-

Project Description: RTEP ID: b2019 (Establish Burger 345/138 kV station)

Details						
Investment	50,970,497	Current Year				2019
Service Year (yyyy)	2015	ROE increase accepted by FERC (Basis Points)				-
Service Month (1-12)	6	FCR w/o incentives, less depreciation				14.93%
Useful life	45	FCR w/incentives approved for these facilities, less dep.				14.93%
CIAC (Yes or No)	No	Annual Depreciation Expense				1,132,678
Investment Year	Beginning Balance	Depreciation Expense	Ending Balance	RTEP Rev. Req't. w/o Incentives	RTEP Rev. Req't. with Incentives **	Incentive Rev. Requirement ##
2015	50,970,497	566,339	50,404,158	8,134,284	8,134,284	\$ -
2016	50,404,158	1,132,678	49,271,480	8,573,786	8,573,786	\$ -
2017	49,271,480	1,132,678	48,138,803	8,404,670	8,404,670	\$ -
2018	48,138,803	1,132,678	47,006,125	8,235,554	8,235,554	\$ -
2019	47,006,125	1,132,678	45,873,447	8,066,438	8,066,438	\$ -
2020	45,873,447	1,132,678	44,740,770	7,897,322	7,897,322	\$ -
2021	44,740,770	1,132,678	43,608,092	7,728,205	7,728,205	\$ -
2022	43,608,092	1,132,678	42,475,414	7,559,089	7,559,089	\$ -
2023	42,475,414	1,132,678	41,342,736	7,389,973	7,389,973	\$ -
2024	41,342,736	1,132,678	40,210,059	7,220,857	7,220,857	\$ -
2025	40,210,059	1,132,678	39,077,381	7,051,741	7,051,741	\$ -
2026	39,077,381	1,132,678	37,944,703	6,882,625	6,882,625	\$ -
2027	37,944,703	1,132,678	36,812,026	6,713,509	6,713,509	\$ -
2028	36,812,026	1,132,678	35,679,348	6,544,393	6,544,393	\$ -
2029	35,679,348	1,132,678	34,546,670	6,375,277	6,375,277	\$ -
2030	34,546,670	1,132,678	33,413,992	6,206,161	6,206,161	\$ -
2031	33,413,992	1,132,678	32,281,315	6,037,044	6,037,044	\$ -
2032	32,281,315	1,132,678	31,148,637	5,867,928	5,867,928	\$ -
2033	31,148,637	1,132,678	30,015,959	5,698,812	5,698,812	\$ -
2034	30,015,959	1,132,678	28,883,282	5,529,696	5,529,696	\$ -
2035	28,883,282	1,132,678	27,750,604	5,360,580	5,360,580	\$ -
2036	27,750,604	1,132,678	26,617,926	5,191,464	5,191,464	\$ -
2037	26,617,926	1,132,678	25,485,249	5,022,348	5,022,348	\$ -
2038	25,485,249	1,132,678	24,352,571	4,853,232	4,853,232	\$ -
2039	24,352,571	1,132,678	23,219,893	4,684,116	4,684,116	\$ -
2040	23,219,893	1,132,678	22,087,215	4,515,000	4,515,000	\$ -
2041	22,087,215	1,132,678	20,954,538	4,345,884	4,345,884	\$ -
2042	20,954,538	1,132,678	19,821,860	4,176,767	4,176,767	\$ -
2043	19,821,860	1,132,678	18,689,182	4,007,651	4,007,651	\$ -
2044	18,689,182	1,132,678	17,556,505	3,838,535	3,838,535	\$ -
2045	17,556,505	1,132,678	16,423,827	3,669,419	3,669,419	\$ -
2046	16,423,827	1,132,678	15,291,149	3,500,303	3,500,303	\$ -
2047	15,291,149	1,132,678	14,158,471	3,331,187	3,331,187	\$ -
2048	14,158,471	1,132,678	13,025,794	3,162,071	3,162,071	\$ -
2049	13,025,794	1,132,678	11,893,116	2,992,955	2,992,955	\$ -
2050	11,893,116	1,132,678	10,760,438	2,823,839	2,823,839	\$ -
2051	10,760,438	1,132,678	9,627,761	2,654,723	2,654,723	\$ -
2052	9,627,761	1,132,678	8,495,083	2,485,606	2,485,606	\$ -
2053	8,495,083	1,132,678	7,362,405	2,316,490	2,316,490	\$ -
2054	7,362,405	1,132,678	6,229,727	2,147,374	2,147,374	\$ -
2055	6,229,727	1,132,678	5,097,050	1,978,258	1,978,258	\$ -
2056	5,097,050	1,132,678	3,964,372	1,809,142	1,809,142	\$ -
2057	3,964,372	1,132,678	2,831,694	1,640,026	1,640,026	\$ -
2058	2,831,694	1,132,678	1,699,017	1,470,910	1,470,910	\$ -
2059	1,699,017	1,132,678	566,339	1,301,794	1,301,794	\$ -
2060	566,339	566,339	-	608,618	608,618	\$ -
2061	-	-	-	-	-	\$ -
2062	-	-	-	-	-	\$ -
2063	-	-	-	-	-	\$ -
2064	-	-	-	-	-	\$ -
2065	-	-	-	-	-	\$ -
2066	-	-	-	-	-	\$ -
2067	-	-	-	-	-	\$ -
2068	-	-	-	-	-	\$ -
2069	-	-	-	-	-	\$ -
2070	-	-	-	-	-	\$ -
2071	-	-	-	-	-	\$ -
2072	-	-	-	-	-	\$ -
2073	-	-	-	-	-	\$ -
2074	-	-	-	-	-	\$ -
Project Totals		50,970,497	-	226,005,656	226,005,656	-

[illegible]

*** This is the total amount that needs to be reported to PJM for billing to all regions.

This is the calculation of additional incentive revenue on projects deemed by the FERC to be eligible for an incentive return. This additional incentive requirement is applicable for the life of this specific project. Each year the revenue requirement calculated for PJM should be incremented by the amount of the incentive revenue calculated for that year on this project.

In order to calculate the proper monthly RTEP billing amount, PJM requires a 12 month revenue requirement for each RTEP project. As a result, notwithstanding the fact that the project was in service for a partial year, the project revenue requirement in the year that the project goes into service has been annualized (shown at the full-year level) so that PJM will collect the correct monthly billings.

Worksheet J - ATRR PROJECTED Calculation for PJM Projects Charged to Benefiting Zones

IV. Determine the Revenue Requirement, and Additional Revenue Requirement for facilities receiving incentives.

A. Base Plan Facilities

Facilities receiving incentives accepted by FERC in Docket No.	(e.g. ER05-925-000)

Current Projected Year ARR	8,277,757
Current Projected Year ARR w/ Incentive	8,277,757
Current Projected Year Incentive ARR	-

Details						
Investment	52,397,331	Current Year				2019
Service Year (yyyy)	2015	ROE increase accepted by FERC (Basis Points)				-
Service Month (1-12)	5	FCR w/o incentives, less depreciation				14.93%
Useful life	45	FCR w/incentives approved for these facilities, less dep.				14.93%
CIAC (Yes or No)	No	Annual Depreciation Expense				1,164,385
Investment Year	Beginning Balance	Depreciation Expense	Ending Balance	RTEP Rev. Req't. w/o Incentives	RTEP Rev. Req't. with Incentives **	Incentive Rev. Requirement ##
2015	52,397,331	679,225	51,718,106	8,451,778	8,451,778	\$ -
2016	51,718,106	1,164,385	50,553,721	8,799,307	8,799,307	\$ -
2017	50,553,721	1,164,385	49,389,336	8,625,457	8,625,457	\$ -
2018	49,389,336	1,164,385	48,224,951	8,451,607	8,451,607	\$ -
2019	48,224,951	1,164,385	47,060,566	8,277,757	8,277,757	\$ -
2020	47,060,566	1,164,385	45,896,181	8,103,906	8,103,906	\$ -
2021	45,896,181	1,164,385	44,731,796	7,930,056	7,930,056	\$ -
2022	44,731,796	1,164,385	43,567,410	7,756,206	7,756,206	\$ -
2023	43,567,410	1,164,385	42,403,025	7,582,356	7,582,356	\$ -
2024	42,403,025	1,164,385	41,238,640	7,408,505	7,408,505	\$ -
2025	41,238,640	1,164,385	40,074,255	7,234,655	7,234,655	\$ -
2026	40,074,255	1,164,385	38,909,870	7,060,805	7,060,805	\$ -
2027	38,909,870	1,164,385	37,745,485	6,886,955	6,886,955	\$ -
2028	37,745,485	1,164,385	36,581,100	6,713,105	6,713,105	\$ -
2029	36,581,100	1,164,385	35,416,714	6,539,254	6,539,254	\$ -
2030	35,416,714	1,164,385	34,252,329	6,365,404	6,365,404	\$ -
2031	34,252,329	1,164,385	33,087,944	6,191,554	6,191,554	\$ -
2032	33,087,944	1,164,385	31,923,559	6,017,704	6,017,704	\$ -
2033	31,923,559	1,164,385	30,759,174	5,843,854	5,843,854	\$ -
2034	30,759,174	1,164,385	29,594,789	5,670,003	5,670,003	\$ -
2035	29,594,789	1,164,385	28,430,404	5,496,153	5,496,153	\$ -
2036	28,430,404	1,164,385	27,266,019	5,322,303	5,322,303	\$ -
2037	27,266,019	1,164,385	26,101,633	5,148,453	5,148,453	\$ -
2038	26,101,633	1,164,385	24,937,248	4,974,602	4,974,602	\$ -
2039	24,937,248	1,164,385	23,772,863	4,800,752	4,800,752	\$ -
2040	23,772,863	1,164,385	22,608,478	4,626,902	4,626,902	\$ -
2041	22,608,478	1,164,385	21,444,093	4,453,052	4,453,052	\$ -
2042	21,444,093	1,164,385	20,279,708	4,279,202	4,279,202	\$ -
2043	20,279,708	1,164,385	19,115,323	4,105,351	4,105,351	\$ -
2044	19,115,323	1,164,385	17,950,937	3,931,501	3,931,501	\$ -
2045	17,950,937	1,164,385	16,786,552	3,757,651	3,757,651	\$ -
2046	16,786,552	1,164,385	15,622,167	3,583,801	3,583,801	\$ -
2047	15,622,167	1,164,385	14,457,782	3,409,950	3,409,950	\$ -
2048	14,457,782	1,164,385	13,293,397	3,236,100	3,236,100	\$ -
2049	13,293,397	1,164,385	12,129,012	3,062,250	3,062,250	\$ -
2050	12,129,012	1,164,385	10,964,627	2,888,400	2,888,400	\$ -
2051	10,964,627	1,164,385	9,800,242	2,714,550	2,714,550	\$ -
2052	9,800,242	1,164,385	8,635,856	2,540,699	2,540,699	\$ -
2053	8,635,856	1,164,385	7,471,471	2,366,849	2,366,849	\$ -
2054	7,471,471	1,164,385	6,307,086	2,192,999	2,192,999	\$ -
2055	6,307,086	1,164,385	5,142,701	2,019,149	2,019,149	\$ -
2056	5,142,701	1,164,385	3,978,316	1,845,298	1,845,298	\$ -
2057	3,978,316	1,164,385	2,813,931	1,671,448	1,671,448	\$ -
2058	2,813,931	1,164,385	1,649,546	1,497,598	1,497,598	\$ -
2059	1,649,546	1,164,385	485,160	1,323,748	1,323,748	\$ -
2060	485,160	485,160	-	521,379	521,379	\$ -
2061	-	-	-	-	-	\$ -
2062	-	-	-	-	-	\$ -
2063	-	-	-	-	-	\$ -
2064	-	-	-	-	-	\$ -
2065	-	-	-	-	-	\$ -
2066	-	-	-	-	-	\$ -
2067	-	-	-	-	-	\$ -
2068	-	-	-	-	-	\$ -
2069	-	-	-	-	-	\$ -
2070	-	-	-	-	-	\$ -
2071	-	-	-	-	-	\$ -
2072	-	-	-	-	-	\$ -
2073	-	-	-	-	-	\$ -
2074	-	-	-	-	-	\$ -
Project Totals		52,397,331	-	231,680,369	231,680,369	-

[illegible]

*** This is the total amount that needs to be reported to PJM for billing to all regions.

This is the calculation of additional incentive revenue on projects deemed by the FERC to be eligible for an incentive return. This additional incentive requirement is applicable for the life of this specific project. Each year the revenue requirement calculated for PJM should be incremented by the amount of the incentive revenue calculated for that year on this project.

In order to calculate the proper monthly RTEP billing amount, PJM requires a 12 month revenue requirement for each RTEP project. As a result, notwithstanding the fact that the project was in service for a partial year, the project revenue requirement in the year that the project goes into service has been annualized (shown at the full-year level) so that PJM will collect the correct monthly billings.

Worksheet J - ATRR PROJECTED Calculation for PJM Projects Charged to Benefiting Zones

IV. Determine the Revenue Requirement, and Additional Revenue Requirement for facilities receiving incentives.

A. Base Plan Facilities

Facilities receiving incentives accepted by FERC in Docket No.	(e.g. ER05-925-000)

Project Description: RTEP ID: b1818 (Expand Allen w/second xfmr. And cut-in 138 kV double circuit tower line)

Current Projected Year ARR	448,563
Current Projected Year ARR w/ Incentive	448,563
Current Projected Year Incentive ARR	-

Details						
Investment	2,693,235	Current Year				2019
Service Year (yyyy)	2017	ROE increase accepted by FERC (Basis Points)				-
Service Month (1-12)	12	FCR w/o incentives, less depreciation				14.93%
Useful life	45	FCR w/incentives approved for these facilities, less dep.				14.93%
CIAC (Yes or No)	No	Annual Depreciation Expense				59,850
Investment Year	Beginning Balance	Depreciation Expense	Ending Balance	RTEP Rev. Req't. w/o Incentives	RTEP Rev. Req't. with Incentives **	Incentive Rev. Requirement ##
2017	2,693,235	-	2,693,235	402,117	402,117	\$ -
2018	2,693,235	59,850	2,633,385	457,499	457,499	\$ -
2019	2,633,385	59,850	2,573,536	448,563	448,563	\$ -
2020	2,573,536	59,850	2,513,686	439,627	439,627	\$ -
2021	2,513,686	59,850	2,453,836	430,691	430,691	\$ -
2022	2,453,836	59,850	2,393,987	421,755	421,755	\$ -
2023	2,393,987	59,850	2,334,137	412,819	412,819	\$ -
2024	2,334,137	59,850	2,274,287	403,883	403,883	\$ -
2025	2,274,287	59,850	2,214,438	394,947	394,947	\$ -
2026	2,214,438	59,850	2,154,588	386,012	386,012	\$ -
2027	2,154,588	59,850	2,094,738	377,076	377,076	\$ -
2028	2,094,738	59,850	2,034,889	368,140	368,140	\$ -
2029	2,034,889	59,850	1,975,039	359,204	359,204	\$ -
2030	1,975,039	59,850	1,915,189	350,268	350,268	\$ -
2031	1,915,189	59,850	1,855,340	341,332	341,332	\$ -
2032	1,855,340	59,850	1,795,490	332,396	332,396	\$ -
2033	1,795,490	59,850	1,735,640	323,460	323,460	\$ -
2034	1,735,640	59,850	1,675,791	314,524	314,524	\$ -
2035	1,675,791	59,850	1,615,941	305,588	305,588	\$ -
2036	1,615,941	59,850	1,556,091	296,652	296,652	\$ -
2037	1,556,091	59,850	1,496,242	287,716	287,716	\$ -
2038	1,496,242	59,850	1,436,392	278,780	278,780	\$ -
2039	1,436,392	59,850	1,376,542	269,844	269,844	\$ -
2040	1,376,542	59,850	1,316,693	260,908	260,908	\$ -
2041	1,316,693	59,850	1,256,843	251,972	251,972	\$ -
2042	1,256,843	59,850	1,196,993	243,036	243,036	\$ -
2043	1,196,993	59,850	1,137,144	234,101	234,101	\$ -
2044	1,137,144	59,850	1,077,294	225,165	225,165	\$ -
2045	1,077,294	59,850	1,017,444	216,229	216,229	\$ -
2046	1,017,444	59,850	957,595	207,293	207,293	\$ -
2047	957,595	59,850	897,745	198,357	198,357	\$ -
2048	897,745	59,850	837,895	189,421	189,421	\$ -
2049	837,895	59,850	778,046	180,485	180,485	\$ -
2050	778,046	59,850	718,196	171,549	171,549	\$ -
2051	718,196	59,850	658,346	162,613	162,613	\$ -
2052	658,346	59,850	598,497	153,677	153,677	\$ -
2053	598,497	59,850	538,647	144,741	144,741	\$ -
2054	538,647	59,850	478,797	135,805	135,805	\$ -
2055	478,797	59,850	418,948	126,869	126,869	\$ -
2056	418,948	59,850	359,098	117,933	117,933	\$ -
2057	359,098	59,850	299,248	108,997	108,997	\$ -
2058	299,248	59,850	239,399	100,061	100,061	\$ -
2059	239,399	59,850	179,549	91,125	91,125	\$ -
2060	179,549	59,850	119,699	82,190	82,190	\$ -
2061	119,699	59,850	59,850	73,254	73,254	\$ -
2062	59,850	59,850	0	64,318	64,318	\$ -
2063	0	0	-	0	0	\$ -
2064	-	-	-	-	-	\$ -
2065	-	-	-	-	-	\$ -
2066	-	-	-	-	-	\$ -
2067	-	-	-	-	-	\$ -
2068	-	-	-	-	-	\$ -
2069	-	-	-	-	-	\$ -
2070	-	-	-	-	-	\$ -
2071	-	-	-	-	-	\$ -
2072	-	-	-	-	-	\$ -
2073	-	-	-	-	-	\$ -
2074	-	-	-	-	-	\$ -
2075	-	-	-	-	-	\$ -
2076	-	-	-	-	-	\$ -
Project Totals		2,693,235	-	12,142,993	12,142,993	-

[illegible]

*** This is the total amount that needs to be reported to PJM for billing to all regions.

This is the calculation of additional incentive revenue on projects deemed by the FERC to be eligible for an incentive return. This additional incentive requirement is applicable for the life of this specific project. Each year the revenue requirement calculated for PJM should be incremented by the amount of the incentive revenue calculated for that year on this project.

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Worksheet J - ATRR PROJECTED Calculation for PJM Projects Charged to Benefiting Zones

IV. Determine the Revenue Requirement, and Additional Revenue Requirement for facilities receiving incentives.

A. Base Plan Facilities

Facilities receiving incentives accepted by FERC in Docket No. (e.g. ER05-925-000)

Project Description: RTEP ID: b2833 (Reconductor Maddox Creed-East Lima 345kV circuit w 2-954 ACSS Cardinal cond)

Current Projected Year ARR	355,700
Current Projected Year ARR w/ Incentive	355,700
Current Projected Year Incentive ARR	-

Details						
Investment	2,228,865	Current Year		2019		
Service Year (yyyy)	2019	ROE increase accepted by FERC (Basis Points)		-		
Service Month (1-12)	6	FCR w/o incentives, less depreciation		14.93%		
Useful life	45	FCR w/incentives approved for these facilities, less dep.		14.93%		
CIAC (Yes or No)	No	Annual Depreciation Expense		49,530		
Investment Year	Beginning Balance	Depreciation Expense	Ending Balance	RTEP Rev. Req't. w/o Incentives	RTEP Rev. Req't. with Incentives **	Incentive Rev. Requirement ##
2019	2,228,865	24,765	2,204,100	355,700	355,700	\$ -
2020	2,204,100	49,530	2,154,570	374,919	374,919	\$ -
2021	2,154,570	49,530	2,105,039	367,524	367,524	\$ -
2022	2,105,039	49,530	2,055,509	360,129	360,129	\$ -
2023	2,055,509	49,530	2,005,979	352,733	352,733	\$ -
2024	2,005,979	49,530	1,956,448	345,338	345,338	\$ -
2025	1,956,448	49,530	1,906,918	337,943	337,943	\$ -
2026	1,906,918	49,530	1,857,388	330,548	330,548	\$ -
2027	1,857,388	49,530	1,807,857	323,153	323,153	\$ -
2028	1,807,857	49,530	1,758,327	315,757	315,757	\$ -
2029	1,758,327	49,530	1,708,797	308,362	308,362	\$ -
2030	1,708,797	49,530	1,659,266	300,967	300,967	\$ -
2031	1,659,266	49,530	1,609,736	293,572	293,572	\$ -
2032	1,609,736	49,530	1,560,206	286,177	286,177	\$ -
2033	1,560,206	49,530	1,510,675	278,781	278,781	\$ -
2034	1,510,675	49,530	1,461,145	271,386	271,386	\$ -
2035	1,461,145	49,530	1,411,615	263,991	263,991	\$ -
2036	1,411,615	49,530	1,362,084	256,596	256,596	\$ -
2037	1,362,084	49,530	1,312,554	249,201	249,201	\$ -
2038	1,312,554	49,530	1,263,024	241,805	241,805	\$ -
2039	1,263,024	49,530	1,213,493	234,410	234,410	\$ -
2040	1,213,493	49,530	1,163,963	227,015	227,015	\$ -
2041	1,163,963	49,530	1,114,433	219,620	219,620	\$ -
2042	1,114,433	49,530	1,064,902	212,225	212,225	\$ -
2043	1,064,902	49,530	1,015,372	204,830	204,830	\$ -
2044	1,015,372	49,530	965,842	197,434	197,434	\$ -
2045	965,842	49,530	916,311	190,039	190,039	\$ -
2046	916,311	49,530	866,781	182,644	182,644	\$ -
2047	866,781	49,530	817,251	175,249	175,249	\$ -
2048	817,251	49,530	767,720	167,854	167,854	\$ -
2049	767,720	49,530	718,190	160,458	160,458	\$ -
2050	718,190	49,530	668,660	153,063	153,063	\$ -
2051	668,660	49,530	619,129	145,668	145,668	\$ -
2052	619,129	49,530	569,599	138,273	138,273	\$ -
2053	569,599	49,530	520,069	130,878	130,878	\$ -
2054	520,069	49,530	470,538	123,482	123,482	\$ -
2055	470,538	49,530	421,008	116,087	116,087	\$ -
2056	421,008	49,530	371,478	108,692	108,692	\$ -
2057	371,478	49,530	321,947	101,297	101,297	\$ -
2058	321,947	49,530	272,417	93,902	93,902	\$ -
2059	272,417	49,530	222,887	86,506	86,506	\$ -
2060	222,887	49,530	173,356	79,111	79,111	\$ -
2061	173,356	49,530	123,826	71,716	71,716	\$ -
2062	123,826	49,530	74,296	64,321	64,321	\$ -
2063	74,296	49,530	24,765	56,926	56,926	\$ -
2064	24,765	24,765	-	26,614	26,614	\$ -
2065	-	-	-	-	-	\$ -
2066	-	-	-	-	-	\$ -
2067	-	-	-	-	-	\$ -
2068	-	-	-	-	-	\$ -
2069	-	-	-	-	-	\$ -
2070	-	-	-	-	-	\$ -
2071	-	-	-	-	-	\$ -
2072	-	-	-	-	-	\$ -
2073	-	-	-	-	-	\$ -
2074	-	-	-	-	-	\$ -
2075	-	-	-	-	-	\$ -
2076	-	-	-	-	-	\$ -
2077	-	-	-	-	-	\$ -
2078	-	-	-	-	-	\$ -
Project Totals		2,228,865		9,882,896	9,882,896	-

** This is the total amount that needs to be reported to PJM for billing to all regions.

This is the calculation of additional incentive revenue on projects deemed by the FERC to be eligible for an incentive return. This additional incentive requirement is applicable for the life of this specific project. Each year the revenue requirement calculated for PJM should be incremented by the amount of the incentive revenue calculated for that year on this project.

In order to calculate the proper monthly RTEP billing amount, PJM requires a 12 month revenue requirement for each RTEP project. As a result, notwithstanding the fact that the project was in service for a partial year, the project revenue requirement in the year that the project goes into service has been annualized (shown at the full-year level) so that PJM will collect the correct monthly billings.

CUMULATIVE HISTORY OF PROJECTED ANNUAL REVENUE REQUIREMENTS:				
CUMULATIVE HISTORY OF PROJECTED ANNUAL REVENUE REQUIREMENTS: INPUT PROJECTED ARR (WITH & WITHOUT INCENTIVES) FROM EACH PRIOR YEAR TEMPLATE BELOW TO MAINTAIN HISTORY OF PROJECTED ARRS OVER THE LIFE OF THE PROJECT.				
RTEP Projected Rev. Req't.From Prior Year Template w/o Incentives		RTEP Projected Rev. Req't.From Prior Year Template with Incentives **		
\$ -		\$ -		
\$ -		\$ -		

AEPTCo subsidiaries in PJM
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet L RESERVED
AEP Ohio Transmission Company

AEPTCo subsidiaries in PJM
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet M Supporting Calculation of Capital Structure and Weighted Average Cost of Capital
AEP Ohio Transmission Company

Line No	Month (a)	Average Balance of Common Equity				Average Balance of Common Equity (f)=(b)-(c)-(d)-(e)
		Proprietary Capital (b)	Less: Preferred Stock (c)	Less Undistributed Sub Earnings (Acct 216.1) (d)	Less AOCI (Acct 219.1) (e)	
	(Note A)	(FF1 112.16)	(FF1 250-251)	(FF1 112.12)	(FF1 112.15)	
1	December Prior to Rate Year	1,466,997,000	-	-	-	1,466,997,000
2	January	1,481,870,000	-	-	-	1,481,870,000
3	February	1,494,122,000	-	-	-	1,494,122,000
4	March	1,508,848,000	-	-	-	1,508,848,000
5	April	1,547,731,000	-	-	-	1,547,731,000
6	May	1,587,797,000	-	-	-	1,587,797,000
7	June	1,602,908,000	-	-	-	1,602,908,000
8	July	1,616,529,000	-	-	-	1,616,529,000
9	August	1,630,276,000	-	-	-	1,630,276,000
10	September	1,643,255,000	-	-	-	1,643,255,000
11	October	1,677,171,000	-	-	-	1,677,171,000
12	November	1,715,259,000	-	-	-	1,715,259,000
13	December of Rate Year	1,753,386,000	-	-	-	1,753,386,000
14	Average of the 13 Monthly Balances	1,594,319,154	-	-	-	1,594,319,154

Line No	Month (a)	Average Balance of Long Term Debt					Gross Proceeds Outstanding Long-Term Debt (g)=(b)-(c)+(d)+(e)-(f)
		Bonds (b)	Less: Reacquired Bonds (c)	Acct 223 LT Advances from Assoc. Companies (d)	Acct 224 Senior Unsecured Notes (e)	Less: Fair Value Hedges (f)	
	(Note A)	(FF1 112.18)	(FF1 112.19)	(FF1 112.20)	(FF1 112.21)	FF1, page 257, Col. (h) - Note 1	
15	December Prior to Rate Year	-	-	1,062,600,000	115,000,000	-	1,177,600,000
16	January	-	-	1,062,600,000	115,000,000	-	1,177,600,000
17	February	-	-	1,062,600,000	115,000,000	-	1,177,600,000
18	March	-	-	1,062,600,000	115,000,000	-	1,177,600,000
19	April	-	-	1,062,600,000	115,000,000	-	1,177,600,000
20	May	-	-	1,062,600,000	398,000,000	-	1,460,600,000
21	June	-	-	1,062,600,000	398,000,000	-	1,460,600,000
22	July	-	-	1,062,600,000	398,000,000	-	1,460,600,000
23	August	-	-	1,062,600,000	398,000,000	-	1,460,600,000
24	September	-	-	1,062,600,000	398,000,000	-	1,460,600,000
25	October	-	-	1,062,600,000	398,000,000	-	1,460,600,000
26	November	-	-	1,028,700,000	398,000,000	-	1,426,700,000
27	December of Rate Year	-	-	1,028,700,000	398,000,000	-	1,426,700,000
28	Average of the 13 Monthly Balances	-	-	1,057,384,615	289,153,846	-	1,346,538,462

NOTE 1: The balance of fair value hedges on outstanding long term debt are to be excluded from the balance of long term debt included in the formula's capital structure. (Page 257 Column H of the FF1)

AEPTCo subsidiaries in PJM
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet M Supporting Calculation of Capital Structure and Weighted Average Cost of Capital
AEP Ohio Transmission Company

Development of Cost of Long Term Debt Based on Average Outstanding Balance

	(a)	(b)	(c)	(d)	(e)	(f)	(g)
29	Annual Interest Expense for 2019						
30	Interest on Long Term Debt - Accts 221 - 224 (256-257.33.i)			54,412,000			
31	Less: Total Hedge Gain/Expense Accumulated from p 256-257, col. (i) of FERC Form 1 included in Ln 30 and shown in 43 below.			-			
32	Amort of Debt Discount & Expense - Acct 428 (117.63.c)			-			
33	Amort of Loss on Recquired Debt - Acct 428.1 (117.64.c)			-			
34	Less: Amort of Premium on Debt - Acct 429 (117.65.c)			-			
35	Less: Amort of Gain on Recquired Debt - Acct 429.1 (117.66.c)			-			
36	Total Interest Expense (Ln 30 - 31 + 32 + 33 - 34 - 35)			54,412,000			
37	Average Cost of Debt for 2019 (Ln 36/ Ln 28 (g))			4.04%			

CALCULATION OF HEDGE GAINS/LOSSES TO BE EXCLUDED FROM TCOS

38 AEP Ohio Transmission Company may not include costs (or gains) related to interest hedging activities.

			Amortization Period		
	HEDGE AMOUNTS BY ISSUANCE (FROM p. 256-257 (i) of the FERC Form 1)	(Amortization of (Gain)/Loss for 2019	Remaining Unamortized Balance	Beginning	Ending
39					
40					
41					
42					
43	Net (Gain)/Loss Hedge Amortization To Be Removed	-	-	-	-

Development of Cost of Preferred Stock

44	Balance of Preferred Stock (Line 14 (c))	-
45	Dividends on Preferred Stock (Acct 437, FF1 118.29))	
46	Average Cost of Preferred Stock (Ln 45 / Ln 44)	#DIV/0!

AEPTCo subsidiaries in PJM
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet N - Gains (Losses) on Sales of Plant Held For Future Use
AEP Ohio Transmission Company

Note: Gain or loss on plant held for future are recorded in accounts 411.6 or 411.7 respectively. Sales will be funtionalized based on the description of that asset. Sales of transmission assets will be direct assigned; sales of general assets will be functionalized on labor. Sales of plant held for future use related to generation or distribution will not be included in the formula.

Line	(A) Date	(B) Property Description	(C) Function (T) or (G) T = Transmission G = General	(D) Basis	(E) Proceeds	(F) (Gain) / Loss	(G) Functional Allocator	(H) Functionalized Proceeds (Gain) / Loss	(I) FERC Account
1						-	0.000%	-	
2						-	0.000%	-	
3						-	0.000%	-	
4				Net (Gain) or Loss for		-		-	

AEPTCo subsidiaries in PJM
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Calculation of Post-employment Benefits Other than Pensions Expenses Allocable to Transmission Service
Worksheet O - PBOP Support
AEP Ohio Transmission Company

PBOP	(A)	(B)
1	<u>Calculation of PBOP Expenses</u>	
2	<u>AEP System PBOP Rate</u>	
3	Total AEP System PBOP expenses	-\$62,529,765
4	Base Year relating to retired personnel	\$0
5	Amount allocated on Labor	-\$62,529,765
6	Total AEP System Direct Labor Expense	\$1,368,849,981
7	AEP System PBOP expense per dollar of direct labor (PBOP Rate)	-\$0.046
8	Currently Approved PBOP Rate	-\$0.058
9	Base PBOP TransCo labor expensed in current year	8,289,543
10	Allowable TransCo PBOP Expense for current year (Ln 8 * Ln 9)	-\$480,793
11	Direct PBOP Expense per Actuarial Report	\$0
12	Additional PBOP Ledger Entry (From Company Records)	\$0
13	Medicare Credit	\$0
14	PBOP Expenses From AEP Affiliates (From Company Records)	-\$847,291
15	Actual PBOP Expense (Sum Lines 11-14)	-\$847,291
16	PBOP Adjustment Line 10 less Line 15	\$366,498

Note: PBOP Expense will be calculated in accordance with the settlement in Docket ER10-355.

As part of the annual update process, AEP will provide to transmission customers and include in its informational filing an independently prepared actuarial report that includes a ten (10) year forecast of PBOP expenses. During the annual update process conducted for rate year 2018 and every four years thereafter, Worksheet O will be used to determine whether the PBOP allowance rate (\$PBOP per \$Direct O&M Labor) should be adjusted going forward for the next four years. If the annual actuarial report issued during the year of any PBOP rate review projects PBOP costs during the next four years that, when allocated to the AEP Transmission Companies based on their projected direct labor expenses over that same projected four-year period, absent a change in the PBOP Rate, will likely cause the AEP East Transmission Companies to over or under collect their cumulative PBOP expenses by more than 20% of the projected next four year's total PBOP expense, taking into account the net over or under collection of such expenses during the previous four years, the PBOP rate shall be adjusted. In order to determine whether continued use of the then approved PBOP rate is likely to result in the AEP Companies' incurrence of a cumulative allowance of PBOP costs under the formula rate will result in a cumulative over or under-recovery of actual PBOP expenses exceeding 20% over the subsequent four year period, Worksheet O will be used to determine (a) the level of cumulative over or under collections of PBOP expense during the time since the PBOP allowance rate was last set, including carrying costs based on the weighted average cost of capital each year from the formula rate actual transmission cost-of-service (b) the cumulative net present value of projected PBOP costs during the next four years as estimated by the then current actuarial report, assuming a discount rate equal to the actual transmission cost of service average cost of capital for the immediately prior calendar year and (c) the cumulative net present value of continued collections over the next four years based on the projected AEP Transmission Companies direct labor expenses and the then effective PBOP allowance rate assuming a discount rate equal to the prior year weighted average cost of capital. If the absolute value of (a)+(b)-(c) exceeds 20% of (b), then the PBOP allowance rate used in the formula rate calculation shall be changed to the value that will cause the projected result of (a)+(b)-(c) to equal zero. If the projected over or under collection during the next four years, (a)+(b)-(c), is less than 20% of (b), then the PBOP Rate will continue in effect for the next four years at the then effective rate. If it is determined through this procedure AEP Companies will over-recover or under-recover actual PBOP expenses by more than 20% over the subsequent four-year period, AEP shall make a filing under FPA Section 205 to change the PBOP Rate stated in the formula rate shown on Worksheet O. No other changes to the formula rate may be included in that filing.

AEPTCo subsidiaries in PJM
Worksheet - P
DEPRECIATION RATES
FOR TRANSMISSION PLANT PROPERTY ACCOUNTS
EFFECTIVE AS OF 7/1/2018

AEP Ohio Transmission Company

	PLANT ACCT.	RATES Note 1
<i>TRANSMISSION PLANT</i>		
Land Rights	350.1	0.97%
Structures & Improvements	352.0	1.72%
Station Equipment	353.0	1.89%
Towers & Fixtures	354.0	1.95%
Poles & Fixtures	355.0	3.15%
Overhead Conductor	356.0	2.03%
Underground Conduit	357.0	2.10%
Underground Conductors	358.0	3.85%

Note: Per the Settlement in Docket No. ER10-355, Appendix A.1.2, AEP OHIO TRANSMISSION COMPANY shall use the depreciation rates shown above by FERC Account until such time as the FERC approves new depreciation rates pursuant to a Section 205 or 206 filing to change rates.

	<u>CSP</u>	<u>OPCo</u>	<u>TOTAL</u>
1 T-Plant (FF1 206.58.g)	619,883,849	1,164,351,684	1,784,235,533
2 T-Plant (FF1 206.58.b)	570,478,232	1,109,431,387	1,679,909,619
3 Average (Ln 1+ Ln 2)/2	595,181,041	1,136,891,536	1,732,072,576
4 Depreciation (FF1 336.7.f)	12,769,913	25,505,773	38,275,686
5 Composite Depreciation (Ln 3 / Ln 4)			2.21%

Note: AEP Ohio Transmission Company shall initially use the composite depreciation rate for APCo, I&M and KPCo shown above to estimate depreciation expense for transmission projects in worksheets J and K until a composite depreciation rate based on transmission plant in service and depreciation expenses recorded by AEP Ohio Transmission Company for its own transmission facilities can be calculated in AEP Ohio Transmission Company's the first Annual Update including a True-up TCOS.

AEPTCo Subsidiaraies in PJM
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet R - True-up With Interest

Reconciliation Revenue Requirement For Year 2017 Available May 25, 2018		2017 Forecasted Revenue Requirement For Year 2017		True-up Adjustment - Over (Under) Recovery
\$289,179,435	-	\$296,841,584	=	\$7,662,149

Interest Rate on Amount of Refunds or Surcharges (Note 1)	Over (Under) Recovery Plus Interest	Average Monthly Interest Rate	Months	Calculated Interest	Amortization	Surcharge (Refund) Owed
		0.3420%				

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

Calculation of Interest				Monthly		
January	Year 2017	638,512	0.3420%	12	(26,205)	(664,717)
February	Year 2017	638,512	0.3420%	11	(24,021)	(662,533)
March	Year 2017	638,512	0.3420%	10	(21,837)	(660,350)
April	Year 2017	638,512	0.3420%	9	(19,653)	(658,166)
May	Year 2017	638,512	0.3420%	8	(17,470)	(655,982)
June	Year 2017	638,512	0.3420%	7	(15,286)	(653,798)
July	Year 2017	638,512	0.3420%	6	(13,102)	(651,615)
August	Year 2017	638,512	0.3420%	5	(10,919)	(649,431)
September	Year 2017	638,512	0.3420%	4	(8,735)	(647,247)
October	Year 2017	638,512	0.3420%	3	(6,551)	(645,064)
November	Year 2017	638,512	0.3420%	2	(4,367)	(642,880)
December	Year 2017	638,512	0.3420%	1	(2,184)	(640,696)
					(170,330)	(7,832,479)

January through December	Year 2018	(7,832,479)	0.3420%	12	Annual (321,445)	(8,153,923)
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Over (Under) Recovery Plus Interest Amortized and Recovered Over 12 Months				Monthly		
January	Year 2019	8,153,923	0.3420%		(27,886)	694,693
February	Year 2019	7,487,117	0.3420%		(25,606)	694,693
March	Year 2019	6,818,029	0.3420%		(23,318)	694,693
April	Year 2019	6,146,654	0.3420%		(21,022)	694,693
May	Year 2019	5,472,982	0.3420%		(18,718)	694,693
June	Year 2019	4,797,006	0.3420%		(16,406)	694,693
July	Year 2019	4,118,719	0.3420%		(14,086)	694,693
August	Year 2019	3,438,111	0.3420%		(11,758)	694,693
September	Year 2019	2,755,176	0.3420%		(9,423)	694,693
October	Year 2019	2,069,906	0.3420%		(7,079)	694,693
November	Year 2019	1,382,291	0.3420%		(4,727)	694,693
December	Year 2019	692,326	0.3420%		(2,368)	694,693
					(182,396)	0

True-Up Adjustment with Interest	(8,336,320)
Less Over (Under) Recovery	7,662,149
Total Interest	(674,171)

Note 1: The interest rate to be applied to the over recovery or under recovery amounts will be determined using the average monthly FERC interest rate (as determined pursuant to 18 C.F.R. Section 35.19a) for the twenty (20) months from the beginning of the rate year being trued-up through August 31 of the following year.

AEPTCo Subsidiaries in PJM
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet R - True-up With Interest

Reconciliation Revenue Requirement For Year 2017 Available May 25, 2018		2017 Forecasted Revenue Requirement For Year 2017		True-up Adjustment - Over (Under) Recovery
\$44,736,527	-	\$45,052,975	=	\$316,448

Interest Rate on Amount of Refunds or Surcharges (Note 1)		Over (Under) Recovery Plus Interest	Average Monthly Interest Rate 0.3420%	Months	Calculated Interest	Amortization	Surcharge (Refund) Owed
An over or under collection will be recovered prorata over 2017, held for 2018 and returned prorata over 2019							
<u>Calculation of Interest</u>					Monthly		
January	Year 2017	26,371	0.3420%	12	(1,082)		(27,453)
February	Year 2017	26,371	0.3420%	11	(992)		(27,363)
March	Year 2017	26,371	0.3420%	10	(902)		(27,273)
April	Year 2017	26,371	0.3420%	9	(812)		(27,182)
May	Year 2017	26,371	0.3420%	8	(722)		(27,092)
June	Year 2017	26,371	0.3420%	7	(631)		(27,002)
July	Year 2017	26,371	0.3420%	6	(541)		(26,912)
August	Year 2017	26,371	0.3420%	5	(451)		(26,822)
September	Year 2017	26,371	0.3420%	4	(361)		(26,731)
October	Year 2017	26,371	0.3420%	3	(271)		(26,641)
November	Year 2017	26,371	0.3420%	2	(180)		(26,551)
December	Year 2017	26,371	0.3420%	1	(90)		(26,461)
					(7,035)		(323,483)
					Annual		
January through December	Year 2018	(323,483)	0.3420%	12	(13,276)		(336,758)
<u>Over (Under) Recovery Plus Interest Amortized and Recovered Over 12 Months</u>					Monthly		
January	Year 2019	336,758	0.3420%		(1,152)	28,691	(309,219)
February	Year 2019	309,219	0.3420%		(1,058)	28,691	(281,586)
March	Year 2019	281,586	0.3420%		(963)	28,691	(253,858)
April	Year 2019	253,858	0.3420%		(868)	28,691	(226,035)
May	Year 2019	226,035	0.3420%		(773)	28,691	(198,117)
June	Year 2019	198,117	0.3420%		(678)	28,691	(170,104)
July	Year 2019	170,104	0.3420%		(582)	28,691	(141,995)
August	Year 2019	141,995	0.3420%		(486)	28,691	(113,789)
September	Year 2019	113,789	0.3420%		(389)	28,691	(85,487)
October	Year 2019	85,487	0.3420%		(292)	28,691	(57,089)
November	Year 2019	57,089	0.3420%		(195)	28,691	(28,593)
December	Year 2019	28,593	0.3420%		(98)	28,691	0
					(7,533)		
True-Up Adjustment with Interest						(344,291)	
Less Over (Under) Recovery						316,448	
Total Interest						(27,843)	

Note 1: The interest rate to be applied to the over recovery or under recovery amounts will be determined using the average monthly FERC interest rate (as determined pursuant to 18 C.F.R. Section 35.19a) for the twenty (20) months from the beginning of the rate year being trued-up through August 31 of the following year.