Twelve Months Ended 2021

AEP East Companies
Transmission Cost of Service Formula Rate
Utilizing Actual/Projected FERC Form 1 Data

Ohio Power Company

Line No.			Total	Allocator			Transmission Amount
1	REVENUE REQUIREMENT (w/o incentives)	(ln 130)					$356,279,420
2	REVENUE CREDITS	(Worksheet E Ln 8) (Note A)	9,597,000	DA	1.00000	$	9,597,000
3	Facility Credits under PJM OATT Section 30.9	(Worksheet E Ln 9) (Note X)				$	6,097,445
4	REVENUE REQUIREMENT For All Company Facilities	(ln 1 less ln 2 plus ln 3)				$	352,779,865

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)	9,544,413	DA	1.00000	$	9,544,413
6	NET PLANT CARRYING CHARGE w/o intra-AEP charges or credits or ROE incentives (Note B)						
7	Annual Rate	((ln 1 - ln 95)/((ln 42) x 100))					17.62%
8	Monthly Rate	(ln 7 / 12)					1.47%
9	NET PLANT CARRYING CHARGE ON LINE 7 , w/o depreciation or ROE incentives (Note B)						
10	Annual Rate	((ln 1 - ln 95 - ln 100) /((ln 42) x 100))					14.34%
11	NET PLANT CARRYING CHARGE ON LINE 10, w/o Return, income taxes or ROE incentives (Note B)						
12	Annual Rate	((ln 1 - ln 95 - ln 100 - ln 125 - ln 126) /((ln 42) x 100))					7.35%
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 75 Below	2,607,000
16	Less: Load Dispatch - Scheduling, System Control and Dispatch Services (321.88.b)		1,137,000
17	Less: Load Dispatch - Reliability, Planning & Standards Development Services (321.92.b)		-
18	Total 561 Internally Developed Costs	(Line 15 - Line 16 - Line 17)	1,470,000

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	(1)	(2)	(3)	(4)		(5)
Line No.	**RATE BASE CALCULATION**	**Data Sources (See "General Notes")**	**TO Total** NOTE C	**Allocator**		**Total Transmission**
	GROSS PLANT IN SERVICE					
19	Production	(Worksheet A ln 14.(b))	-	NA	0.00000	-
20	Less: Production ARO (Enter Negative)	(Worksheet A ln 14.(c))	-	NA	0.00000	-
21	Transmission	(Worksheet A ln 14.(d) & TCOS Ln 134)	2,893,082,538	DA		2,893,082,538
22	Less: Transmission ARO (Enter Negative)	(Worksheet A ln 14.(e))	(3,000)	TP	1.00000	(3,000)
23	Distribution	(Worksheet A ln 14.(f))	5,989,295,538	NA	0.00000	-
24	Less: Distribution ARO (Enter Negative)	(Worksheet A ln 14.(g))	-	NA	0.00000	-
25	General Plant	(Worksheet A ln 14.(h))	684,834,615	W/S	0.11570	79,236,615
26	Less: General Plant ARO (Enter Negative)	(Worksheet A ln 14.(i))	(772,000)	W/S	0.11570	(89,322)
27	Intangible Plant	(Worksheet A ln 14.(j))	222,630,615	W/S	0.11570	25,758,769
28	TOTAL GROSS PLANT	(sum lns 19 to 27)	9,789,068,308	**GP**	**0.306259**	2,997,985,600
				GTD=	**0.32571**	
29	ACCUMULATED DEPRECIATION AND AMORTIZATION					
30	Production	(Worksheet A ln 28.(b))	-	NA	0.00000	-
31	Less: Production ARO (Enter Negative)	(Worksheet A ln 28.(c))	-	NA	0.00000	-
32	Transmission	(Worksheet A ln 28.(d) & ln 43.(c))	886,839,385	**TP1=**	1.00000	886,839,385
33	Less: Transmission ARO (Enter Negative)	(Worksheet A ln 28.(e))	(3,000)	**TP1=**	1.00000	(3,000)
34	Distribution	(Worksheet A ln 28.(f))	1,767,115,077	NA	0.00000	-
35	Less: Distribution ARO (Enter Negative)	(Worksheet A ln 28.(g))	-	NA	0.00000	-
36	General Plant	(Worksheet A ln 28.(h))	130,986,077	W/S	0.11570	15,155,328
37	Less: General Plant ARO (Enter Negative)	(Worksheet A ln 28.(i))	(368,769)	W/S	0.11570	(42,667)
38	Intangible Plant	(Worksheet A ln 28.(j))	99,336,462	W/S	0.11570	11,493,410
39	TOTAL ACCUMULATED DEPRECIATION	(sum lns 30 to 38)	2,883,905,231			913,442,455
40	NET PLANT IN SERVICE					
41	Production	(ln 19 + ln 20 - ln 30 - ln 31)	-			-
42	Transmission	(ln 21 + ln 22 - ln 32 - ln 33)	2,006,243,154			2,006,243,154
43	Distribution	(ln 23 + ln 24 - ln 34 - ln 35)	4,222,180,462			-
44	General Plant	(ln 25 + ln 26 - ln 36 - ln 37)	553,445,308			64,034,632
45	Intangible Plant	(ln 27 - ln 38)	123,294,154			14,265,359
46	TOTAL NET PLANT IN SERVICE	(sum lns 41 to 45)	6,905,163,077	**NP**	**0.301882**	2,084,543,145
47	DEFERRED TAX ADJUSTMENTS TO RATE BASE	(Note D)				
48	Account No. 281.1 (enter negative)	(Worksheet B, ln 2 & ln 5.E)	-	NA		-
49	Account No. 282.1 (enter negative)	(Worksheet B, ln 7 & ln 10.E)	(1,396,643,000)	DA		(433,826,500)
50	Account No. 283.1 (enter negative)	(Worksheet B, ln 12 & ln 15.E)	(151,840,000)	DA		(23,619,000)
51	Account No. 190.1	(Worksheet B, ln 17 & ln 20.E)	82,425,500	DA		15,881,000
52	Account No. 255 (enter negative)	(Worksheet B, ln 24 & ln 25.E)	(2,500)	DA		(500)
53	TOTAL ADJUSTMENTS	(sum lns 48 to 52)	(1,466,060,000)			(441,565,000)
54	PLANT HELD FOR FUTURE USE	(Worksheet A ln 44.(e) & ln 45.(e))	4,823,500	DA		2,525,000
55	REGULATORY ASSETS	(Worksheet A ln 51.(e))	-	DA		-
56	UNFUNDED RESERVES (ENTER NEGATIVE) (NOTE Y)	(Worksheet A ln 54.(e))	(81,000)	W/S	0.11570	(9,372)
57	WORKING CAPITAL	(Note E)				
58	Cash Working Capital	(1/8 * ln 78)	3,942,375			3,942,375
59	Transmission Materials & Supplies	(Worksheet C, ln 2.(F))	2,566,568	TP	1.00000	2,566,568
60	A&G Materials & Supplies	(Worksheet C, ln 3.(F))	220,000	W/S	0.11570	25,454
61	Stores Expense	(Worksheet C, ln 4.(F))	-	GP	0.30626	-
62	Prepayments (Account 165) - Labor Allocated	(Worksheet C, ln 8.G)	255,400,000	W/S	0.11570	29,550,246
63	Prepayments (Account 165) - Gross Plant	(Worksheet C, ln 8.F)	4,709,000	GP	0.30626	1,442,171
64	Prepayments (Account 165) - Transmission Only	(Worksheet C, ln 8.E)	-	DA	1.00000	-
65	Prepayments (Account 165) - Unallocable	(Worksheet C, ln 8.D)	(250,583,000)	NA	0.00000	-
66	TOTAL WORKING CAPITAL	(sum lns 58 to 65)	16,254,943			37,526,815
67	IPP CONTRIBUTIONS FOR CONSTRUCTION	(Note F) (Worksheet D, ln 8.B)	-	DA	1.00000	-
68	RATE BASE (sum lns 46, 53, 54, 55, 56, 66, 67)		5,460,100,520			1,683,020,588

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Line No.	(1) EXPENSE, TAXES, RETURN & REVENUE REQUIREMENTS CALCULATION	(2) Data Sources (See "General Notes")	(3) TO Total	(4) Allocator		(5) Total Transmission
	OPERATION & MAINTENANCE EXPENSE					
69	Production	321.80.b	782,098,000			
70	Distribution	322.156.b	182,600,000			
71	Customer Related Expense	322 & 323.164,171,178.b	155,981,000			
72	Regional Marketing Expenses	322.131.b				
73	Transmission	321.112.b	502,641,000			
74	TOTAL O&M EXPENSES	(sum lns 69 to 73)	1,623,320,000			
75	Less: Total Account 561	(Note G) (Worksheet F, ln 14.C)	2,607,000			
76	Less: Account 565	(Note H) 321.96.b	521,590,000			
77	Less: Regulatory Deferrals & Amortizations	(Note I) (Worksheet F, ln 4.C)	(53,095,000)			
78	Total O&M Allocable to Transmission	(lns 73 - 75 - 76 - 77)	31,539,000	TP	1.00000	31,539,000
79	Administrative and General	323.197.b (Notes J and M)	78,481,000			
80	Less: Acct. 924, Property Insurance	323.185.b	2,238,000			
81	Acct. 9260039 PBOP Expense	PBOP Worksheet O Line 9 & 10, (Note K)	(8,879,000)			
82	Acct. 9260057 PBOP Medicare Subsidy	PBOP Worksheet O Line 11, (Note K)	-			
83	PBOP Expense Billed From AEPSC	PBOP Worksheet O Line 13, (Note K)	(3,031,000)			
84	Acct. 928, Reg. Com. Exp.	323.189.b	754,000			
85	Acct. 930.1, Gen. Advert. Exp.	323.191.b	256,000			
86	Acct. 930.2, Misc. Gen. Exp.	323.192.b	9,075,000			
87	Balance of A & G	(ln 79 - sum ln 80 to ln 86)	78,068,000	W/S	0.11570	9,032,610
88	Plus: Acct. 924, Property Insurance	(ln 80)	2,238,000	GP	0.30626	685,407
89	Acct. 928 - Transmission Specific	Worksheet F ln 20.(E) (Note L)	26,000	TP	1.00000	26,000
90	Acct 930.1 - Only safety related ads -Direct	Worksheet F ln 37.(E) (Note L)	-	TP	1.00000	-
91	Acct 930.2 - Misc Gen. Exp. - Trans	Worksheet F ln 43.(E) (Note L)	945,000	DA	1.00000	945,000
92	Settlement Approved PBOP Recovery	PBOP Worksheet O, Col. C (Note M)	(33,344,430)	W/S	0.11570	(3,858,011)
93	A & G Subtotal	(sum lns 87 to 92)	47,932,570			6,831,005
94	O & M EXPENSE SUBTOTAL	(ln 78 + ln 93)	79,471,570			38,370,005
95	Plus: Transmission Lease Payments To Affiliates in Acct 565 (Company Records) (Note H)		2,686,000	DA	1.00000	2,686,000
96	TOTAL O & M EXPENSE	(ln 94 + ln 95)	82,157,570			41,056,005
97	DEPRECIATION AND AMORTIZATION EXPENSE					
98	Production	336.2-6.f	-	NA	0.00000	-
99	Distribution	336.8.f	210,648,000	NA	0.00000	-
100	Transmission	336.7.f	65,998,000	TP1	1.00000	65,998,000
101	General	336.10.f	17,254,000	W/S	0.11570	1,996,319
102	Intangible	336.1.f	37,536,000	W/S	0.11570	4,342,984
103	TOTAL DEPRECIATION AND AMORTIZATI0N	(Ln 98+99+ 100+101+102)	331,436,000			72,337,303
104	TAXES OTHER THAN INCOME	(Note N)				
105	Labor Related					
106	Payroll	Worksheet H ln 24.(D)	6,649,000	W/S	0.11570	769,301
107	Plant Related					
108	Property	Worksheet H ln .(C)	321,529,000	DA		100,672,253
109	Gross Receipts/Sales & Use	Worksheet H ln 24.(F)	148,714,000	NA	0.00000	-
110	Other	Worksheet H ln 24.(E)	4,571,000	GP	0.30626	1,399,908
111	TOTAL OTHER TAXES	(sum lns 106 to 110)	481,463,000			102,841,462
112	INCOME TAXES	(Note O)				
113	T=1 - {[(1 - SIT) * (1 - FIT)] / (1 - SIT * FIT * p)} =		21.68%			
114	EIT=(T/(1-T)) * (1-(WCLTD/WACC)) =		18.89%			
115	where WCLTD=(ln 154) and WACC = (ln 157)					
116	and FIT, SIT & p are as given in Note O.					
117	GRCF=1 / (1 - T) = (from ln 113)		1.2769			
118	Amortized Investment Tax Credit (enter negative)	(FF1 p.114, ln 19.c)	(1,000)			
119	Excess Deferred Income Tax	(Note U)	(27,372,000)	DA		(7,041,000)
120	Tax Effect of Permanent and Flow-Through Differences	(Note U)	3,129,000	DA		1,089,000
121	Income Tax Calculation	(ln 114 * ln 126)	76,120,442			23,463,354
122	ITC adjustment	(ln 117 * ln 118)	(1,277)	GP	0.30626	(391)
123	Excess Deferred Income Tax	(ln 117 * ln 119)	(34,950,669)			(8,990,489)
124	Tax Effect of Permanent and Flow-Through Differences	(ln 117 * ln 120)	3,995,347			1,390,519
125	TOTAL INCOME TAXES	(sum lns 121 to 124)	45,163,844			15,862,993
126	RETURN ON RATE BASE (Rate Base*WACC)	(ln 68 * ln 157)	402,873,458			124,181,656
127	INTEREST ON IPP CONTRIBUTION FOR CONST. (Note F) (Worksheet D, ln 2.(B))		-	DA	1.00000	-
128	(Gains) / Losses on Sales of Plant Held for Future Use (Worksheet N, ln 4, Cols. ((F) & (H))		-			-
129	Tax Impact on Net Loss / (Gain) on Sales of Plant Held for Future Use (ln 128 * ln114)		-			-
130	TOTAL REVENUE REQUIREMENT (sum lns 96, 103, 111, 125, 126, 127, 128, 129)		1,343,093,871			356,279,420

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SUPPORTING CALCULATIONS

ln No.	TRANSMISSION PLANT INCLUDED IN PJM TARIFF			
131	Total transmission plant	(ln 21)		2,893,082,538
132	Less transmission plant excluded from PJM Tariff (Worksheet A, ln 42, Col. (d)) (Note P)			-
133	Less transmission plant included in OATT Ancillary Services (Worksheet A, ln 42, Col. (b)) (Note Q)			-
134	Transmission plant included in PJM Tariff	(ln 131 - ln 132 - ln 133)		2,893,082,538
135	Percent of transmission plant in PJM Tariff	(ln 134 / ln 131)	**TP=**	**1.00000**

ln No.			Direct Payroll	Payroll Billed from AEP Service Corp.	Total			
136	WAGES & SALARY ALLOCATOR (W/S)	(Note R)						
137	Production	354.20.b	41,000	59,000	100,000	NA	0.00000	-
138	Transmission	354.21.b	112,000	13,047,000	13,159,000	TP	1.00000	13,159,000
139	Regional Market Expenses	354.22.b	0	0	-	NA	0.00000	-
140	Distribution	354.23.b	57,931,000	8,483,000	66,414,000	NA	0.00000	-
141	Other (Excludes A&G)	354.24,25,26.b	18,213,000	15,846,000	34,059,000	NA	0.00000	-
142	Total	(sum lns 137 to 141)	76,297,000	37,435,000	113,732,000			13,159,000
143	Transmission related amount						**W/S=**	**0.11570**

ln No.							
144	WEIGHTED AVERAGE COST OF CAPITAL (WACC)						$
145	Long Term Interest	(Worksheet M, ln. 37, col. (d))					131,851,000
146	Preferred Dividends	(Worksheet M, ln. 71)					-
147	Development of Common Stock:						
148	Proprietary Capital	(Worksheet M, ln. 14, col. (b))					2,741,539,000
149	Less: Preferred Stock	(Worksheet M, ln. 14, col. (c))					-
150	Less: Account 216.1	(Worksheet M, ln. 14, col. (d))					4,916,000
151	Less: Account 219	(Worksheet M, ln. 14, col. (e))					(689,000)
152	Common Stock	(ln 148 - ln 149 - ln 150 - ln 151)					2,737,312,000
				Capital Structure Percentages		Cost	
153			$	Actual	Cap Limit	(Note S)	Weighted
154	Long Term Debt (Note T) Worksheet M, ln 28, col. (g), ln 38, col. (d))		2,889,344,538	51.35%	51.35%	4.56%	0.0234
155	Preferred Stock (ln 149)		-	0.00%	0.00%	-	0.0000
156	Common Stock (ln 152)		2,737,312,000	48.65%	48.65%	10.35%	0.0504
157	Total (Sum lns 154 to 156)		5,626,656,538			**WACC=**	**0.0738**
158	Capital Structure Equity Limit (Note Z)	55%					

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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 East companies have any directly assigned transmission facilities, the revenue credits in the AEP East 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 Q 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 of 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 flowthrough 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 the calculation of ADIT in the annual projection will be performed in accordance with IRS regulation Section1.167(I)-I(h)(6)(ii).
RM02-7-000, Asset Retirement Obligation deferrals have been removed from ratebase. Transmission ADIT allocations are shown on WS B.
The company will not include the ADIT portion of deferred hedge gains and losses in rate base. Detailed balances for the projected or actual period, distinguished between utility and non-utility balances, will be filed and posted as part of the information filing.

E Cash Working Capital assigned to transmission is one-eighth of O&M allocated to transmission, as shown on line 78. It excludes:
1) Load Scheduling & Dispatch Charges in account 561 that are collected in the OATT Ancillary Services Revenue, as shown on line 75.
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 77
4) All A&G Expenses, as shown on line 93.

F Consistent with Paragraph 657 of Order 2003-A, the amount on line 67 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 127.

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 78. To the extent such service is incurred to provide the PJM service at issue, e.g. lease payments to affiliates, such cost is added back on line 95 to determine the total O&M collected in the formula. The amounts on line 95 is also excluded in the calculation of the FCR percentage calculated on lines 6 through 12.
The addbacks on line 95 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 line 95 is the Ohio Power 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 These deductions on lines 81 through 83 are to remove from the cost of service the expenses recorded by the company for Postemployment Benefits Other than Pensions (PBOP). See Note M below for the recoverable PBOP expense.

L Expenses recorded in FERC Accounts 928 (Regulatory Commission Expense), 930.1 (Safety Related Advertising) and 930.2 (Miscellaneous General Expenses) that are not directly related to or properly allocable to transmission service will be removed from the TCOS. If AEP includes any expenses booked to these accounts in future ATRR updates, AEP must provide supporting information demonstrating that the underlying activities are directly related to providing transmission service. 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. Per the settlement in Docket ER08-1329, recoverable PBOP expense is based on an annual total for the operating companies that is ratioed to them based on the total of actual annual PBOP costs, including charges from the AEP Service Corportation. The calculation of the recoverable amount for each company is shown on Worksheet O.

N Includes only FICA, unemployment, highway, property and other assessments charged in the current year. 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) (ln 118) multiplied by (1/1-T) . If the applicable tax rates are zero enter 0.

Inputs Required:			
	FIT =	21.00%	
	SIT=	0.87%	(State Income Tax Rate or Composite SIT. Worksheet G))
	p =	0.00%	(percent of federal income tax deductible for state purposes)

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.

P 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.

Q 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.

R Includes functional wages & salaries billed by AEP Service Corporation for support of the operating company.

S Long Term Debt cost rate = Long-Term Interest (ln 145) / Long-Term Debt (ln 154). Preferred Stock cost rate = preferred dividends (ln 146) / preferred outstanding (ln 155).
Common Stock cost rate (ROE) = 10.35%, per the Settlement in FERC Docket No. EL17-13. It includes an additional 50 basis points for PJM RTO Membership.
The amount of eligible hedging gains or losses included in total interest expense is limited to five basis points of the capital structure. Details and calculations of the weighted average cost of captial are shown on Worksheet M.
Eligible Hedging Gains and Losses are computed on Worksheet M.The unamortized balance of eligible hedge gains/losses and related ADIT amounts shall not flow through the formula rate.

T The Long Term Debt balance for I&M includes the accumulated balance of principle and related interest for Spent Nuclear Fuel Disposal Costs collected prior to April 7, 1983.
This total balance of $265,249,280 at 12/31/12 is not included in the balance in line 154 above.
The cost rates for long-term debt shall include interest expense and related periodic expenses (such as remarketing and letter of credit fees) as recorded in FERC Account 427 or 430, amortization of issuance costs (including insurance) and discounts as recorded in FERC Account 428, issuance premiums as recorded in FERC Account 429 and losses or gains on reacquired debt as recorded in FERC Accounts 428.1 or 429.1, respectively. The cost rates for preferred stock (if applicable) shall include the dividends.

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 other prepayments recorded in FERC Account 165 are directly assigned to the transmission function, allocated or excludable balances detailed on Worksheet C.

W The formula rate shall allocate property tax expense based on the as filed net plant cost allocation method detailed on Worksheet H.

X 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.

Y The cost of service will make a rate base adjustment to remove unfunded reserves associated with contingent liabilites recorded to Accounts 228.1-228.4 from rate base.

Z Per the settlement in EL17-13, equity is limited to 55% in 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.

AEP East Companies
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet A Rate Base
Ohio Power Company

		Gross Plant In Service								
Line No	Month (a)	Production (b)	Production ARO (c)	Transmission (d)	Transmission ARO (e)	Distribution (f)	Distribution ARO (g)	General (h)	General ARO (i)	Intangible (j)
	(Note A)	FF1, page 205 Col.(g) & pg. 204 Col. (b), ln 46	FF1, page 205&204, Col.(g)&(b), lns 15,24,34,44	FF1, page 207 Col.(g) & pg. 206 Col. (b), ln 58	Acct. 359.1 FF1, page 207 Col.(g) & pg. 206 Col. (b), ln 57	FF1, page 207 Col.(g) & pg. 206 Col. (b), ln 75	FF1, page 207 Col.(g) & pg. 206 Col. (b), ln 74	FF1, page 207 Col.(g) & pg. 206 Col. (b), ln 99	Acct. 399.1 FF1, page 207 Col.(g) & pg. 206 Col. (b), ln 98	FF1, page 205 Col.(g) & pg. 204 Col. (b), ln 5
1	December Prior to Rate Year	-	-	2,831,519,000	3,000	5,797,352,000		655,514,000	772,000	204,385,000
2	January	-	-	2,835,406,000	3,000	5,826,373,000		656,953,000	772,000	204,167,000
3	February	-	-	2,837,830,000	3,000	5,853,709,000		658,368,000	772,000	209,825,000
4	March	-	-	2,840,992,000	3,000	5,888,706,000		659,821,000	772,000	211,528,000
5	April	-	-	2,852,427,000	3,000	5,918,379,000		685,855,000	772,000	216,346,000
6	May	-	-	2,862,823,000	3,000	5,955,302,000		688,372,000	772,000	221,170,000
7	June	-	-	2,879,169,000	3,000	5,991,527,000		690,895,000	772,000	221,050,000
8	July	-	-	2,898,452,000	3,000	6,025,320,000		693,597,000	772,000	225,877,000
9	August	-	-	2,917,999,000	3,000	6,055,294,000		696,495,000	772,000	230,692,000
10	September	-	-	2,932,143,000	3,000	6,085,835,000		699,600,000	772,000	231,751,000
11	October	-	-	2,948,557,000	3,000	6,117,877,000		702,706,000	772,000	236,535,000
12	November	-	-	2,968,383,000	3,000	6,152,115,000		705,799,000	772,000	241,302,000
13	December of Rate Year	-	-	3,004,373,000	3,000	6,193,053,000		708,875,000	772,000	239,570,000
14	Average of the 13 Monthly Balances	-	-	2,893,082,538	3,000	5,989,295,538	-	684,834,615	772,000	222,630,615

		Accumulated Depreciation								
Line No	Month (a)	Production (b)	Production ARO (c)	Transmission (d)	Transmission ARO (e)	Distribution (f)	Distribution ARO (g)	General (h)	General ARO (i)	Intangible (j)
	(Note A)	FF1, page 219, lns 20-24, Col. (b)	Company Records (Included in total in Column (b))	FF1, page 219, ln 25, Col. (b)	Company Records (Included in total in Column (d))	FF1, page 219, ln 26, Col. (b)	Company Records (Included in total in Column (f))	FF1, page 219, ln 28, Col. (b)	Company Records (Included in total in Column (h))	FF1, page 200, ln 21, Col. (b)
15	December Prior to Rate Year	-	-	881,443,000	3,000	1,721,369,000		124,053,000	351,000	94,330,000
16	January	-	-	880,338,000	3,000	1,728,524,000		125,172,000	354,000	90,267,000
17	February	-	-	881,546,000	3,000	1,735,889,000		126,294,000	357,000	93,098,000
18	March	-	-	882,759,000	3,000	1,743,340,000		127,420,000	360,000	92,879,000
19	April	-	-	883,977,000	3,000	1,750,901,000		128,549,000	363,000	95,838,000
20	May	-	-	885,216,000	3,000	1,758,559,000		129,726,000	366,000	98,877,000
21	June	-	-	886,475,000	3,000	1,766,337,000		130,910,000	369,000	97,034,000
22	July	-	-	887,766,000	3,000	1,774,231,000		132,100,000	372,000	100,166,000
23	August	-	-	889,092,000	3,000	1,782,236,000		133,296,000	375,000	103,377,000
24	September	-	-	890,456,000	3,000	1,790,343,000		134,500,000	378,000	102,941,000
25	October	-	-	891,847,000	3,000	1,798,556,000		135,711,000	380,000	106,259,000
26	November	-	-	893,269,000	3,000	1,806,882,000		136,930,000	383,000	109,657,000
27	December of Rate Year	-	-	894,728,000	3,000	1,815,329,000		138,158,000	386,000	106,651,000
28	Average of the 13 Monthly Balances	-	-	886,839,385	3,000	1,767,115,077	-	130,986,077	368,769	99,336,462

Line No	Month (a) (Note A)	OATT Ancillary Services (GSU) Plant In Service (b) Company Records (included in total in column (d) of gross plant above)	OATT Ancillary Services (GSU) Accumulated Depreciation (c) Company Records (included in total in column (b) of accumulated depreciation above)	Excluded Plant - Plant In Service (d) Company Records	Excluded Plant - Accumulated Depreciation (e) 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 Accum Depreciation net of GSU		886,839,385		

	Plant Held For Future Use (a)	Source of Data (b)	Balance @ December 31, 2021 (c)	Balance @ December 31, 2020 (d)	Average Balance for 2021 (e)
44	**Plant Held For Future Use**	FF1, page 214, ln 47, Col. (d)	4,823,000	4,824,000	4,823,500
45	**Transmission Plant Held For Future Use (Included in total on line 44)**	Company Records - Note 1	2,525,000	2,525,000	2,525,000

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)

52	Description	Account			
53a	Accum Prv I/D Worker's Com		81,000	81,000	81,000
53b					-
54		Total	81,000	81,000	81,000

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.

AEP East Companies
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet B Supporting ADIT and ITC Balances
Ohio Power Company

	(A)	(B)	(C)	(D)	(E)
Line Number	**Description**	**Source**	**Balance @ December 31, 2021**	**Balance @ December 31, 2020**	**Average Balance for 2021**
1	**Account 281**				
2	Year End Utility Deferrals	FF1, p. 272 - 273, ln 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 - ln 3 - ln 4	-	-	-
6	**Account 282**				
7	Year End Utility Deferrals	FF1, p. 274 - 275, ln 5, Col. (k)	1,419,487,000	1,373,799,000	1,396,643,000
8	Less: ARO Related Deferrals	WS B-1 - Actual Stmt. AF Ln. 7 (Note 1)	484,000	484,000	484,000
9	Less: Other Excluded Deferrals	WS B-1 - Actual Stmt. AF Ln. 6 (Note 1)	981,880,000	942,785,000	962,332,500
10	Transmission Related Deferrals	Ln 7 - ln 8 - ln 9	437,123,000	430,530,000	433,826,500
11	**Account 283**				
12	Year End Utility Deferrals	FF1, p. 276 - 277, ln 9, Col. (k)	153,589,000	150,091,000	151,840,000
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)	129,810,000	126,632,000	128,221,000
15	Transmission Related Deferrals	Ln 12 - ln 13 - ln 14	23,779,000	23,459,000	23,619,000
16	**Account 190**				
17	Year End Utility Deferrals	FF1, p. 234, ln 8, Col. (c)	81,933,000	82,918,000	82,425,500
18	Less: ARO Related Deferrals	WS B-2 - Actual Stmt. AG Ln. 4 (Note 1)	371,000	371,000	371,000
19	Less: Other Excluded Deferrals	WS B-2 - Actual Stmt. AG Ln. 3 (Note 1)	65,776,000	66,571,000	66,173,500
20	Transmission Related Deferrals	Ln 17 - ln 18 - ln 19	15,786,000	15,977,000	15,881,000
21	**Account 255**				
22	Year End ITC Balances	FF1, p. 266-267, ln 8, Col. (h)	5,000	-	2,500
23	Less: Balances Not Qualified for Ratebase	Company Records - Note 1	-	-	-
24	ITC Balances Includeable Ratebase	Ln 22 - ln 23	5,000	-	2,500
25	Transmission Related Deferrals	WS B-1 - Actual Stmt. AF Ln. 20 (Note 1)	1,000	-	500

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.I67(l)-l(h)(6)(ii). Line item detail of actual deferred tax items will be included on Worksheets B-1 and B-2.

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

Ohio Power Company
SPECIFIED DEFERRED CREDITS - Actual Cycle Only
PERIOD ENDED DECEMBER 31, 2021

(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	FUNCTIONALIZATION AVERAGE			FUNCTIONALIZATION 12/31/2020			FUNCTIONALIZATION 12/31/2021		
	ACCUMULATED DEFERRED FIT ITEMS	BALANCE AS OF 12-31-2020	BALANCE AS OF 12-31-2021	BALANCE AS OF 12-31-2020	BALANCE AS OF 12-31-2021	ELECTRIC UTILITY (B+C+D+E)/2	GENERATION	TRANSMISSION	DISTRIBUTION	GENERATION	TRANSMISSION	DISTRIBUTION	GENERATION	TRANSMISSION	DISTRIBUTION
1.00	ACCOUNT 281:														
2.01															
2.02		0	0			0	0	0	0						
2.03															
2.04		0	0	0	0	0									
2.05		0	0	0	0	0									
2.06		0	0	0	0	0									
3	TOTAL ACCOUNT 281	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	ACCOUNT 281 - ARO-Related Deferrals	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	ACCOUNT 282:														
5.01		0	0			0	0	0	0						
5.02		0	0			0	0	0	0						
5.03		0	0			0	0	0	0						
5.04		0	0			0	0	0	0						
5.05		0	0			0	0	0	0						
5.06		0	0			0	0	0	0						
5.07		0	0			0	0	0	0						
5.08		0	0			0	0	0	0						
5.09		0	0			0	0	0	0						
5.10		0	0			0	0	0	0						
5.38		0	0			0	0	0	0						
5.39				0	0	0									
5.40				0	0	0									
5.41				0	0	0									
6	TOTAL ACCOUNT 282	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	ACCOUNT 282 - ARO-Related Deferals	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	ACCOUNT 283:														
9.01		0	0			0	0	0	0						
9.02		0	0			0	0	0	0						
9.03		0	0			0	0	0	0						
9.04		0	0			0	0	0	0						
9.05		0	0			0	0	0	0						
9.06		0	0			0	0	0	0						
9.07		0	0			0	0	0	0						
9.08		0	0			0	0	0	0						
9.94				0	0	0									
9.95				0	0	0									
9.96				0	0	0									
9.97				0	0	0									
9.98				0	0	0									
9.99				0	0	0									
10		0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	DEFD STATE INCOME TAXES	0	0			0	0	0	0						
11.01				0	0	0									
12	TOTAL ACCOUNT 283	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	ACCOUNT 283 - ARO-Related Deferals	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	JURISDICTIONAL AMOUNTS FUNCTIONALIZED														
15	TOTAL COMPANY AMOUNTS FUNCTIONALIZED														
16	REFUNCTIONALIZED BASED ON JURISDICTIONAL PLANT														
17	NOTE: POST 1970 ACCUMULATED DEFERRED														
18	INV TAX CRED. (JDITC) IN A/C 255														
18.01		0	0			0	0	0	0						
18.02		0	0			0	0	0	0						
19															
20	TOTAL ACCOUNT 255	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Ohio Power Company
ACCUMULATED DEFERRED INCOME TAX IN ACCOUNT 190 - Actual Cycle Only
PERIOD ENDED DECEMBER 31, 2021

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	FUNCTIONALIZATION AVERAGE			FUNCTIONALIZATION 12/31/2020			FUNCTIONALIZATION 12/31/2021		
	ACCUMULATED DEFERRED FIT ITEMS	BALANCE AS OF 12-31-2020	BALANCE AS OF 12-31-2021	BALANCE AS OF 12-31-2020	BALANCE AS OF 12-31-2021	(B+C+D+E)/2	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						
2.03		0	0			0	0	0	0						
2.04		0	0			0	0	0	0						
2.05		0	0			0	0	0	0						
2.06		0	0			0	0	0	0						
2.07		0	0			0	0	0	0						
2.08		0	0			0	0	0	0						
2.09		0	0			0	0	0	0						
2.10		0	0			0	0	0	0						
2.79		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 Deferals	0	0	0	0	0	0	0	0	0	0	0	0	0	0

OHIO POWER COMPANY, INC.
Worksheet B-3
Excess/ Deficient ADIT Worksheet for Total Company and Functional Balances
For Year Ended December 31, 2019
Debit/(Credit)

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
TOTAL COMPANY BALANCES								1/1/2019 Beginning Balances		Balance Sheet Entries			Tax Expense Entries		12/31/2019 Ending Balance		
Line No.	Account (NOTE A)	Description of Account	Protected Unprotected	Tax Rate Change Act	Excess Balance at Remeasurement (NOTE C)	Amortization Methodology (NOTE D)	Amotization Period	Excess ADIT Regulatory Offset	Excess ADIT in Utility Deferrals	Balance Sheet Account Reclassifications	182.3	254	410/411 Excess Amortization	410/411 Deferred Tax Expense/ (Benefit)	Excess ADIT Regulatory Offset	Excess ADIT in Utility Deferrals	Reference
															Sum of Cols (I) - (O)		-
	Deferred Tax Account (NOTE B)																
1a	1904001	ADFIT - FAS 109 Excess	N/A	TCJA 2017				130,935,908				(732,732)			130,203,176		WS B - 2 Col B/C, ADIT item 3.11
1b	2811001	ADFIT - Accel Amortization Property	Protected	TCJA 2017					-							-	
1c	2814001	ADFIT - Accel Amort FAS 109 Excess	Protected	TCJA 2017				-							-		
1d	2821001	ADFIT - Utility Property	Protected	TCJA 2017	(344,594,481)	**ARAM**	**Life of Asset**		(356,441,100)				7,543,423	82,200,887		(266,696,790)	WS B - 1 Cols M+N+O , ADIT Item 5.36
1e	2821001	ADFIT - Utility Property	Unprotected	TCJA 2017	(150,814,921)	**10 Years**	**1/2018 - 12/2027**		(113,810,922)				16,507,058	(67,991,667)		(165,295,531)	
1f	2824001	ADFIT - Utility Property FAS 109 Excess	Protected	TCJA 2017				356,441,100				(89,744,310)			266,696,790		WS B - 1 Col C/D, ADIT Item 5.36
1g	2824001	ADFIT - Utility Property FAS 109 Excess	Unprotected	TCJA 2017				113,810,922				51,484,609			165,295,531		
1h	2831001	ADFIT - Other Utility Deferrals	Unprotected	TCJA 2017	(31,309,465)	**10 Years**	**1/2018 - 12/2027**		(22,316,394)				3,263,028	(12,611,447)		(31,664,813)	WS B - 1 Col C, ADIT Item 9.89
1i	2834001	ADFIT - Other FAS 109 Excess	Unprotected	TCJA 2017				28,369,217				4,036,013			32,405,230		WS B - 1 Col B/C, ADIT Item 9.92
1j	**NOTE E**																
	Regulatory Deferral Accounts																
2a	182.3	Regulatory Asset		TCJA 2017				(740,417)							(740,417)		Company Records
2b	254	Regulatory Liability		TCJA 2017				(628,816,730)				34,956,420			(593,860,310)		FERC Form 1 p. 278 Ln. 3 Cols, (b) /(f)
2c	**NOTE E**																
3		Total For Accounting Entires (Sum of Lines 1a through 2b)						0	(492,568,416)	-	-	-	(27,313,509)	(1,597,773)	-	(463,657,134)	
													NOTE F				
TRANSMISSION FUNCTION BALANCES																	
															Sum of Cols (I) - (O)		
	Deferred Tax Account (NOTE B)																
4a	1904001	ADFIT - FAS 109 Excess	N/A	TCJA 2017				42,111,074				27,848			42,138,922		Company Records
4b	2821001	ADFIT - Utility Property	Protected	TCJA 2017	(123,296,457)	**ARAM**	**Life of Asset**		(122,949,335)				1,156,909	18,896,978		(102,895,448)	WS B - 1 Col N, ADIT 5.36
4c	2821001	ADFIT - Utility Property	Unprotected	TCJA 2017	(36,241,536)	**10 Years**	**1/2018 - 12/2027**		(32,626,887)				5,598,504	(17,523,027)		(44,551,410)	
4d	2824001	ADFIT - Utility Property FAS 109 Excess	Protected	TCJA 2017				122,949,335				(20,053,887)			102,895,448		Company Records
4e	2824001	ADFIT - Utility Property FAS 109 Excess	Unprotected	TCJA 2017				32,626,887				11,924,523			44,551,410		
4f	2831001	ADFIT - Other Utility Deferrals	Unprotected	TCJA 2017	(5,504,494)	**10 Years**	**1/2018 - 12/2027**		(2,841,628)				429,497	(214,492)		(2,626,623)	WS B - 1 Col N, item 9.89
4g	2834001	ADFIT - Other FAS 109 Excess	Unprotected	TCJA 2017				5,267,961				(2,166,458)			3,101,503		Company Records
4h	**NOTE E**																
	Regulatory Deferral Accounts																
5a	182.3	Regulatory Asset		TCJA 2017				(474,881)							(474,881)		Company Records
5b	254	Regulatory Liability		TCJA 2017				(202,480,376)				10,267,974			(192,212,402)		Company Records
5c	**NOTE E**																
6		Total For Accounting Entires (Sum of Lines 4a through 5b)						0	(158,417,850)	-	-	-	(7,184,910)	(1,159,459)	-	(150,073,481)	
													NOTE F				

GENERAL NOTE: ADIT Tax balances provided in the formula presented in Attachment H-14B are maintained on both a total company and transmission functional basis. Because both sets of numbers are presented in the formula, the information for excess and deficient ADIT is also presented for both total company and the transmission function on this worksheet. Account 281 only applies to the generation function, so is not presented in the transmission functional summary.

NOTE A In order to ensure ratebase neutrality, AEP utilizes the fourth digit of its seven digit FERC Tax subaccount numbers to identify balances associated with utility operations vs regulatory reporting requirements. A "1" in the fourth digit of a FERC tax account refers to the utility operations balances or activity. Accounts with the "1" designation will be included in the determination of ratebase to be recovered in the formula rate. A "4" in the fourth position of the account number indicates accounts used to track regulatory accounting requirements. The excess ADIT amounts recorded in accounts with the "4" designation will be contra to the "1" balance, which will ensure that in the formula rate the excess or deficiency amounts will be part of ratebase, but at the total FERC account level the tax liability or asset will be recorded at the current Federal FIT rate. The amounts recorded in the "4" accounts will be offset on a net basis in the regulatory asset or liability subaccount established for this purpose.

NOTE B: The amount of the FIT gross up to recorded on regulatory assets and liabilities will be reported on the first line of ADIT accounts provided for each specific change in tax rates.

NOTE C: The amounts of the remeasurement shown here are as of the effective date of the change in tax rates and will remain static on this workpaper.

NOTE D: The ten year amortization period for unprotected excess ADIT is consistent with the period agreed upon by the Company and its customers and approved for the Company's PJM formula rates. *Appalachian Power Company, et al, 166 FERC ¶ 61,135 (2019).*

NOTE E: In the event of future tax rate changes, additional lines will be inserted in both the Total Company and Transmission Functional sections above as required to reflect any new ADIT or regulatory deferral accounts that may be necessary to track that tax rate change.

NOTE F: The amount of excess amortization entries shown in lines 1a through 1j and 4a through 4h are shown as a debit or credit to the ADIT account from which it is being amortized. The total in line 3 and 6 is the offset recorded to the 410/411 account and will tie to the total company and transmission functional amounts of excess or deficient ADIT amortization shown on line 119 of the cost of service.

AEP East Companies
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet C Supporting Working Capital Rate Base Adjustments
Ohio Power Company

Materials & Supplies

Line Number	(A)	(B)	(C) Source	(D) Balance @ December 31, 2021	(E) Balance @ December 31, 2020	(F) Average Balance for 2021
1						
2		Transmission Materials & Supplies	FF1, p. 227, ln 8, Col. (c) & (b)	2,566,568	2,566,568	2,566,568
3		General Materials & Supplies	FF1, p. 227, ln 11, Col. (c) & (b)	220,000	220,000	220,000
4		Stores Expense (Undistributed) - Account 163	FF1, p. 227, ln 16, Col. (c) & (b)			-

Prepayment Balance Summary (Note 1)

Line		(C) Average of YE Balance	(D) Excludable Balances	(E) 100% Transmission Related	(F) Transmission Plant Related	(G) Transmission Labor Related	(H) Total Included in Ratebase (E)+(F)+(G)
5							
6	Totals as of December 31, 2021	9,526,000	(255,085,000)	0	4,709,000	259,902,000	264,611,000
7	Totals as of December 31, 2020	9,526,000	(246,081,000)		4,709,000	250,898,000	255,607,000
8	**Average Balance**	9,526,000	(250,583,000)	-	4,709,000	255,400,000	260,109,000

Prepayments Account 165 - Balance @ 12/31/2021

9	Acc. No.	Description	2021 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	2,078,000	-		2,078,000		2,078,000	Plant Related Insurance Policies
11	1650003	Prepaid Rents	0	-				-	
12	1650004	Prepaid Interest	0	-				-	
13	1650005	Prepaid Employee Benefits	0	-				-	
14	1650006	Other Prepayments	877,000	877,000				-	Distribution
15	1650009	Prepaid Carry Cost-Factored AR	689,000	689,000				-	AR Factoring - Retail Only
16	1650010	Prepaid Pension Benefits	186,537,000	-			186,537,000	186,537,000	Prepaid Pension Expense
17	165001219	Prepaid Use Taxes	445,000	445,000				-	Prepaid Taxes-Distribution
18	1650013	Gavin JMG ST Prepaid Exp - Aff	0	-				-	
19	1650014	FAS 158 Qual Contra Asset	(186,537,000)	(186,537,000)				-	FAS 158 Liability
20	1650016	FAS 112 ASSETS	0	-				-	
21	1650017	Prepayments - Coal	0	-				-	
22	1650019	Prepaid Pension Expense - CG&E	0	-				-	
23	1650020	Prepaid Pension Expense - DP&L	0	-				-	
24	1650021	Prepaid Insurance - EIS	2,631,000	-		2,631,000		2,631,000	Energy EIS Services
25	1650023	Prepaid Lease	369,000	369,000				-	
26	1650030	Other Prepayments-Long Term	2,437,000	2,437,000				-	Other - Distribution
27	1650035	PRW Without Med-D Benefits	73,365,000	-			73,365,000	73,365,000	Prepaid Pension Expense
28	1650036	PRW for Med-D Benefits	0	-					
29	1650037	FAS158 Contra-PRW Exc Med-D	(73,365,000)	(73,365,000)	-			-	FAS 158 Liability
30									
		Subtotal - Form 1, p 111.57.c	9,526,000	(255,085,000)	0	4,709,000	259,902,000	264,611,000	

Prepayments Account 165 - Balance @ 12/31/ 2020

31	Acc. No.	Description	2020 YE Balance	Excludable Balances	100% Transmission Related	Transmission Plant Related	Transmission Labor Related	Total Included in Ratebase (E)+(F)+(G)	Explanation
32	1650001	Prepaid Insurance	2,078,000	-		2,078,000		2,078,000	Plant Related Insurance Policies
33	1650003	Prepaid Rents	0	-				-	
34	1650004	Prepaid Interest	0	-				-	
35	1650005	Prepaid Employee Benefits	0	-				-	
36	1650006	Other Prepayments	877,000	877,000				-	Distribution
37	1650009	Prepaid Carry Cost-Factored AR	689,000	689,000				-	AR Factoring - Retail Only
38	1650010	Prepaid Pension Benefits	186,537,000	-			186,537,000	186,537,000	Prepaid Pension Expense
39	165001219	Prepaid Use Taxes	445,000	445,000				-	Prepaid Taxes-Distribution
40	1650013	Gavin JMG ST Prepaid Exp - Aff	0	-				-	
41	1650014	FAS 158 Qual Contra Asset	(186,537,000)	(186,537,000)				-	FAS 158 Liability
42	1650016	FAS 112 ASSETS	0	-				-	
43	1650017	Prepayments - Coal	0	-				-	
44	1650019	Prepaid Pension Expense - CG&E	0	-				-	
45	1650020	Prepaid Pension Expense - DP&L	0	-				-	
46	1650021	Prepaid Insurance - EIS	2,631,000	-		2,631,000		2,631,000	Energy EIS Services
47	1650023	Prepaid Lease	369,000	369,000				-	
48	1650030	Other Prepayments-Long Term	2,437,000	2,437,000				-	Other - Distribution
49	1650035	PRW Without Med-D Benefits	64,361,000	-			64,361,000	64,361,000	Prepaid Pension Expense
50	1650036	PRW for Med-D Benefits	0	-					
51	1650037	FAS158 Contra-PRW Exc Med-D	(64,361,000)	(64,361,000)	-			-	FAS 158 Liability
52									
		Subtotal - Form 1, p 111.57.d	9,526,000	(246,081,000)		4,709,000	250,898,000	255,607,000	

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 the 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).

AEP East Companies
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet D Supporting IPP Credits
Ohio Power Company

Line Number	(A) Description	(B) 2021
1	Net Funds from IPP Customers 12/31/2020 (2021 FORM 1, P269)	0
2	Interest Accrual (Company Records - Note 1)	0
3	Revenue Credits to Generators (Company Records - Note 1)	
4	Other Adjustments	
5	Accounting Adjustment (Company Records - Note 1)	
6		-
7	Net Funds from IPP Customers 12/31/2021 (2021 FORM 1, P269)	-
8	Average Balance for Year as Indicated in Column B ((ln 1 + ln 7)/2)	-

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

AEP East Companies
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet E Supporting Revenue Credits
Ohio Power Company

Line Number	Description	Total Company	Non-Transmission	Transmission
1	**Account 450, Forfeited Discounts (FF1 p.300.16.(b); Company Records - Note 1)**	2,400,000	2,400,000	-
2	**Account 451,Miscellaneous Service Revenues (FF1 p.300.17.(b); Company Records - Note 1)**	8,400,000	8,300,000	100,000
3	**Account 454, Rent from Electric Property (FF1 p.300.19.(b); Company Records - Note 1)**	35,378,000	26,745,000	8,633,000
4	**Account 4560015, Associated Business Development - (Company Records - Notes 1, 2)**	4,148,000	3,463,000	685,000
5	**Account 456 - Other Electric Revenues - (Company Records - Notes 1,2)**	91,638,000	91,459,000	179,000
5a	**Account 457.1, Regional Control Service Revenues (FF1 p.300.23.(b); Company Records - Note 1)**		-	
5b	**Account 457.2, Miscellaneous Revenues (FF1p.300.24.(b); Company Records - Note 1)**		-	
6	**Subtotal - Other Operating Revenues (Company Total equals (FF1 p. 300.26.(b))**	141,964,000	132,367,000	9,597,000
7	**Accounts 4470004 & 5, Revenues from Grandfathered Transmission Contracts - (Company Records - Note 1)**		-	
8	**Total Other Operating Revenues To Reduce Revenue Requirement**	141,964,000	132,367,000	9,597,000

Note 1 The total company data on this worksheet comes from the indicated FF1 source, or Ohio Power 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)

9	**Facility Credits under PJM OATT Section 30.9**	6,097,445

AEP East Companies
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet F Supporting Allocation of Specific O&M or A&G Expenses
Ohio Power Company

Line Number (A)	Item No.	(B) Description	(C) 2021 Expense	(D) 100% Non-Transmission	(E) 100% Transmission Specific	(F) Explanation
		Regulatory O&M Deferrals & Amortizations				
1	5660005	Ohio Transmn Rider Under/Recovery	(53,095,000)			
2						
3						
4		**Total**	(53,095,000)			
		Detail of Account 561 Per FERC Form 1				
5						
6	FF1 p 321.85.b	561.1 - Load Dispatch - Reliability	0			
7	FF1 p 321.86.b	561.2 - Load Dispatch - Monitor & Operate Trans System	876,000			
8	FF1 p 321.87.b	561.3 - Load Dispatch - Trans Service & Scheduling	0			
9	FF1 p 321.88.b	561.4 - Scheduling, System Control & Dispatch	1,137,000			
10	FF1 p 321.89.b	561.5 - Reliability, Planning and Standards Development	590,000			
11	FF1 p 321.90.b	561.6 - Transmission Service Studies	4,000			
12	FF1 p 321.91.b	561.7 - Generation Interconnection Studies	0			
13	FF1 p 321.92.b	561.8 - Reliability, Planning and Standards Development Services	0			
14		**Total of Account 561**	2,607,000			
		Account 928				
15	9280000	Regulatory Commission Exp	5,000	5,000	-	
16	9280001	Regulatory Commission Exp-Adm	-	-	-	
17	9280002	Regulatory Commission Exp-Case	722,000	722,000	-	
18	9280005	Reg Com Exp-FERC Trans Cases	26,000	-	26,000	
19						
20		**Total (FERC Form 1 p.323.189.b)**	753,000	727,000	26,000	
		Account 930.1				
21	9301000	General Advertising Expenses	8,000	8,000	-	
22	9301001	Newspaper Advertising Space	-	-	-	
23	9301006	Spec Corporate Comm Info Proj	-	-	-	
24	9301007	Special Adv Space & Prod Exp	19,000	19,000	-	
25	9301009	Fairs, Shows, and Exhibits	-	-	-	
26	9301010	Publicity	-	-	-	
27	9301011	Dedications, Tours, & Openings	-	-	-	
28	9301012	Public Opinion Surveys	8,000	8,000	-	
29	9301015	Other Corporate Comm Exp	220,000	220,000	-	
30				-	-	
31				-	-	
32				-	-	
33				-	-	
34				-	-	
35				-	-	
36				-	-	
37		**Total (FERC Form 1 p.323.191.b)**	255,000	255,000	-	
		Account 930.2				
38	9302000	Misc General Expenses	4,987,000	4,987,000		
39	9302003	Corporate & Fiscal Expenses	145,000	145,000		
40	9302004	Research, Develop&Demonstr Exp	2,000	2,000		
41	9302006	Assoc Business Development Materials Sold	-	-	-	
42	9302007	Assoc Business Development Exp	3,941,000	2,996,000	945,000	
43		**Total (FERC Form 1 p.323.192.b)**	9,075,000	8,130,000	945,000	

AEP East Companies
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet G Supporting - Development of Composite State Income Tax Rate
Ohio Power Company

West Virginia Corporate Income Tax	6.5000%	
Apportionment Factor - Note 2	0.4456%	
Effective State Tax Rate		0.03%
Illinois Corporation Income Tax	9.5000%	
Apportionment Factor - Note 2	0.4840%	
Effective State Tax Rate		0.05%
Michigan Business Income Tax	6.0000%	
Apportionment Factor - Note 2	0.0217%	
Effective State Tax Rate		0.00%
Kentucky Business Income Tax	5.0000%	
Apportionment Factor - Note 2	0.0941%	
Effective State Tax Rate		0.00%
Ohio Municipal Net Income Tax	1.3700%	
Apportionment Factor - Note 2	57.2778%	
Effective State Tax Rate		0.78%
Ohio Franchise Tax Rate	0.0000%	
Phase-out Factor Note 1	0.0000%	
Apportionment Factor - Note 2	0.0000%	
Effective State Tax Rate		0.00%
Total Effective State Income Tax Rate		0.8657%

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

AEP East Companies
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet H Supporting Taxes Other than Income
Ohio Power 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	149,188,000				149,188,000
3	**Real Estate and Personal Property Taxes**					
4	Real and Personal Property - Ohio	320,431,000	320,431,000			
5	Real and Personal Property - Other Jurisdictions	1,098,000	1,098,000			
6	Real and Personal Property - Tennessee	-	-			
7	Real and Personal Property - Other Jurisdictions	-	-			
8	**Payroll Taxes**					
9	Federal Insurance Contribution (FICA)	6,485,000		6,485,000		
10	Federal Unemployment Tax	44,000		44,000		
11	State Unemployment Insurance	120,000		120,000		
12	**Production Taxes**					
13	State Severance Taxes	-				-
14	**Miscellaneous Taxes**					
15	State Business & Occupation Tax	-				-
16	State Public Service Commission Fees	4,567,000			4,567,000	
17	State Franchise Taxes	4,000			4,000	
18	State Lic/Registration Fee	-			-	
19	Misc. State and Local Tax	-			-	
20	Sales & Use	-				-
21	Federal Excise Tax	-				-
22	Michigan Single Business Tax	(474,000)				(474,000)
23						
24	Total Taxes by Allocable Basis	481,463,000	321,529,000	6,649,000	4,571,000	148,714,000

(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

Line No.	Account	Production	Transmsission	Distribution	General	Total
25	Functionalized Net Plant (TCOS, Lns 41 thru 46)	-	2,006,243,154	4,222,180,462	553,445,308	6,781,868,923
	OHIO JURISDICTION					
26	Percentage of Plant in OHIO JURISDICTION	0.00%	95.94%	100.00%	99.11%	
27	Net Plant in OHIO JURISDICTION (Ln 25 * Ln 26)	-	1,924,789,682	4,222,180,462	548,519,644	6,695,489,788
28	Less: Net Value of Exempted Generation Plant	-				
29	Taxable Property Basis (Ln 27 - Ln 28)	-	1,924,789,682	4,222,180,462	548,519,644	6,695,489,788
30	Relative Valuation Factor	24.00%	85.00%	85.00%	24.00%	
31	Weighted Net Plant (Ln 29 * Ln 30)	-	1,636,071,230	3,588,853,392	131,644,715	
32	General Plant Allocator (Ln 31 / (Total - General Plant))	0.00%	31.31%	68.69%	-100.00%	
33	Functionalized General Plant (Ln 32 * General Plant)	-	41,221,672	90,423,042	(131,644,715)	-
34	Weighted OHIO JURISDICTION Plant (Ln 31 + 33)	-	1,677,292,902	3,679,276,434	(0)	5,356,569,337
35	Functional Percentage (Ln 34/Total Ln 34)	0.00%	31.31%	68.69%		
	WEST VA JURISDICTION					
36	Net Plant in WEST VA JURISDICTION (Ln 25 - Ln 27)	-	81,453,472	-	4,925,663	86,379,135
37	Less: Net Value of Exempted Generation Plant	-				
38	Taxable Property Basis (Ln 36 - Ln 37)	-	81,453,472	-	4,925,663	86,379,135
39	Relative Valuation Factor	100.00%	100.00%	100.00%	100.00%	
40	Weighted Net Plant (Ln 38 * Ln 39)	-	81,453,472	-	4,925,663	
41	General Plant Allocator (Ln 40 / (Total - General Plant))	0.00%	100.00%	0.00%	-100.00%	
42	Functionalized General Plant (Ln 41 * General Plant)	-	4,925,663	-	(4,925,663)	-
43	Weighted WEST VA JURISDICTION Plant (Ln 40 + 42)	-	86,379,135	-	0	86,379,135
44	Functional Percentage (Ln 43/Total Ln 43)	0.00%	100.00%	0.00%		

AEP East Companies
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet H-1 Form 1 Source Reference of Company Amounts on WS H
Ohio Power Company

Line No.	(A) Annual Tax Expenses by Type (Note 1)	(B) Total Company	(C) FERC FORM 1 Tie-Back	(D) FERC FORM 1 Reference
1	**Revenue Taxes**			
2	Gross Receipts Tax	149,188,000		
			149,188,000	

Line No.	(A) Real Estate and Personal Propety Tax Detail Annual Tax Expenses by Type (Note 1)	(B) Tax Year	(C) Total Company	(D) FERC FORM 1 Tie-Back	(E) FERC FORM 1 Reference	(F) Tax Year Factor (Note 2)	(G) Transmission Function (Note 2)
3	**Real Estate and Personal Property Taxes Total (Ln 4 + Ln 5 + Ln 6 + Ln 7)**		**321,529,000**				**100,672,253**
4	Real and Personal Property - Ohio		320,431,000				100,335,981
		2021		320,431,000		31.31%	100,335,981
							-
							-
							-
							-
5	Real and Personal Property - W VA		1,098,000				336,272
		2021		1,098,000		30.63%	336,272
							-
							-
							-
							-
							-
							-
							-
							-
6	Real and Personal Property - Other		-				-
				-			-
							-
							-
							-
							-
			-				-
7	Real and Personal Property - Other Jurisdictions			-			-
							-
							-

Line No.	(A) Annual Tax Expenses by Type (Note 1)	(B) Total Company	(C) FERC FORM 1 Tie-Back	(D) FERC FORM 1 Reference
8	**Payroll Taxes**			
9	Federal Insurance Contribution (FICA)	6,485,000		
			6,485,000	
10	Federal Unemployment Tax	44,000		
			44,000	
11	State Unemployment Insurance	120,000		
			120,000	
12	**Production Taxes**	-		
13	State Severance Taxes		-	
14	**Miscellaneous Taxes**			
15	State Business & Occupation Tax	-		
			-	
16	State Public Service Commission Fees	4,567,000		
			4,567,000	
17	State Franchise Taxes	4,000		
			4,000	
18	State Lic/Registration Fee	-		
			-	
19	Misc. State and Local Tax	-		
			-	
20	Sales & Use	-		
			-	
21	Federal Excise Tax	-		
			-	
22	Michigan Single Business Tax	(474,000)		
			(474,000)	
23	Total Taxes by Allocable Basis (Total Company Amount Ties to FFI p.114, Ln 14,(c))	481,463,000	481,463,000	

Note 1: The taxes assessed on each operating company can differ from year to year and between operating 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 operating 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 assesed. Real and Personal Property - Other Jurisdictions will be allocated using the Gross Plant Allocator from the applicable year.

AEP East Companies
Cost of Service Formula Rate Using 2021 FF1 Balances
Worksheet I RESERVED FOR FUTURE USE
Ohio Power Company

AEP East Companies
Cost of Service Formula Rate Using 2021 FF1 Balances
Worksheet J Supporting Calculation of PROJECTED PJM RTEP Project Revenue Requirement Billed to Benefiting Zones
Ohio Power Company

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

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

ROE w/o incentives (TCOS, ln 156)			10.35%
Project ROE Incentive Adder			
ROE with additional basis point incentive			10.35%

Determine R (cost of long term debt, cost of preferred stock and equity percentage is from the TCOS, lns 154 through156)

	%	Cost	Weighted cost
Long Term Debt	51.35%	4.56%	2.343%
Preferred Stock	0.00%	0.00%	0.000%
Common Stock	48.65%	10.35%	5.035%
		R =	7.378%

SUMMARY OF PROJECTED ANNUAL RTEP REVENUE REQUIREMENTS				
		Rev Require	W Incentives	Incentive Amounts
PROJECTED YEAR	2021	9,544,413	9,544,413	$ -

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

Rate Base (TCOS, ln 68)	1,683,020,588
R (from A. above)	7.378%
Return (Rate Base x R)	124,181,656

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

Return (from B. above)	124,181,656
Effective Tax Rate (TCOS, ln 114)	18.89%
Income Tax Calculation (Return x CIT)	23,463,354
ITC Adjustment	(391)
Excess Deferred Income Tax	(8,990,489)
Tax Affect of Permanent Differences	1,390,519
Income Taxes	15,862,993

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

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

Annual Revenue Requirement (TCOS, ln 1)	356,279,420
Lease Payments (TCOS, Ln 95)	2,686,000
Return (TCOS, ln 126)	124,181,656
Income Taxes (TCOS, ln 125)	15,862,993
Annual Revenue Requirement, Less Lease Payments, Return and Taxes	213,548,771

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

Annual Revenue Requirement, Less Lease Payments, Return and Taxes	213,548,771
Return (from I.B. above)	124,181,656
Income Taxes (from I.C. above)	15,862,993
Annual Revenue Requirement, with Basis Point ROE increase	353,593,420
Depreciation (TCOS, ln 100)	65,998,000
Annual Rev. Req, w/ Basis Point ROE increase, less Depreciation	287,595,420

C. Determine FCR with hypothetical basis point ROE increase.

Net Transmission Plant (TCOS, ln 42)	2,006,243,154
Annual Revenue Requirement, with Basis Point ROE increase	353,593,420
FCR with Basis Point increase in ROE	17.62%
Annual Rev. Req, w / Basis Point ROE increase, less Dep.	287,595,420
FCR with Basis Point ROE increase, less Depreciation	14.34%
FCR less Depreciation (TCOS, ln 10)	14.34%
Incremental FCR with Basis Point ROE increase, less Depreciation	0.00%

III. Calculation of Composite Depreciation Rate

Average Transmission Plant Balance for 2021 (TCOS, ln 21)	2,893,082,538
Annual Depreciation and Amortization Expense (TCOS, ln 100)	65,998,000
Composite Depreciation Rate	2.28%
Depreciable Life for Composite Depreciation Rate	43.84
Round to nearest whole year	44

OPCo 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: b504 (765 kV circuit breaker installations at Hanging Rock)**

Current Projected Year ARR	**701,370**
Current Projected Year ARR w/ Incentive	**701,370**
Current Projected Year Incentive ARR	-

Details			
Investment	5,559,037	Current Year	**2021**
Service Year (yyyy)	2009	ROE increase accepted by FERC (Basis Points)	-
Service Month (1-12)	3	FCR w/o incentives, less depreciation	14.34%
Useful life	44	FCR w/incentives approved for these facilities, less dep.	14.34%
CIAC (Yes or No)	No	Annual Depreciation Expense	126,342

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.

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 **		
2009	5,559,037	94,756	5,464,281	884,854	####### #######	$ -	$ 894,796		$ 894,796		
2010	5,464,281	126,342	5,337,939	900,592	900,592	$ -	$ 1,094,271		$ 1,094,271		
2011	5,337,939	126,342	5,211,597	882,481	882,481	$ -	$ 1,210,680		$ 1,210,680		
2012	5,211,597	126,342	5,085,255	864,370	864,370	$ -	$ 1,057,666		$ 1,057,666		
2013	5,085,255	126,342	4,958,914	846,259	846,259	$ -	$ 1,051,933		$ 1,051,933		
2014	4,958,914	126,342	4,832,572	828,148	828,148	$ -	$ 1,050,369		$ 1,050,369		
2015	4,832,572	126,342	4,706,230	810,036	810,036	$ -	$ 1,028,335		$ 1,028,335		
2016	4,706,230	126,342	4,579,888	791,925	791,925	$ -	$ 989,594		$ 989,594		
2017	4,579,888	126,342	4,453,547	773,814	773,814	$ -	$ 996,311		$ 996,311		
2018	4,453,547	126,342	4,327,205	755,703	755,703	$ -	$ 790,538		$ 790,538		
2019	4,327,205	126,342	4,200,863	737,592	737,592	$ -	$ 766,759		$ 766,759		
2020	4,200,863	126,342	4,074,521	719,481	719,481	$ -	$ 736,885		$ 736,885		
2021	4,074,521	126,342	3,948,180	701,370	701,370	$ -					
2022	3,948,180	126,342	3,821,838	683,259	683,259	$ -					
2023	3,821,838	126,342	3,695,496	665,148	665,148	$ -					
2024	3,695,496	126,342	3,569,154	647,036	647,036	$ -					
2025	3,569,154	126,342	3,442,813	628,925	628,925	$ -					
2026	3,442,813	126,342	3,316,471	610,814	610,814	$ -					
2027	3,316,471	126,342	3,190,129	592,703	592,703	$ -					
2028	3,190,129	126,342	3,063,787	574,592	574,592	$ -					
2029	3,063,787	126,342	2,937,446	556,481	556,481	$ -					
2030	2,937,446	126,342	2,811,104	538,370	538,370	$ -					
2031	2,811,104	126,342	2,684,762	520,259	520,259	$ -					
2032	2,684,762	126,342	2,558,420	502,147	502,147	$ -					
2033	2,558,420	126,342	2,432,079	484,036	484,036	$ -					
2034	2,432,079	126,342	2,305,737	465,925	465,925	$ -					
2035	2,305,737	126,342	2,179,395	447,814	447,814	$ -					
2036	2,179,395	126,342	2,053,053	429,703	429,703	$ -					
2037	2,053,053	126,342	1,926,712	411,592	411,592	$ -					
2038	1,926,712	126,342	1,800,370	393,481	393,481	$ -					
2039	1,800,370	126,342	1,674,028	375,370	375,370	$ -					
2040	1,674,028	126,342	1,547,686	357,259	357,259	$ -					
2041	1,547,686	126,342	1,421,345	339,147	339,147	$ -					
2042	1,421,345	126,342	1,295,003	321,036	321,036	$ -					
2043	1,295,003	126,342	1,168,661	302,925	302,925	$ -					
2044	1,168,661	126,342	1,042,319	284,814	284,814	$ -					
2045	1,042,319	126,342	915,978	266,703	266,703	$ -					
2046	915,978	126,342	789,636	248,592	248,592	$ -					
2047	789,636	126,342	663,294	230,481	230,481	$ -					
2048	663,294	126,342	536,952	212,370	212,370	$ -					
2049	536,952	126,342	410,611	194,258	194,258	$ -					
2050	410,611	126,342	284,269	176,147	176,147	$ -					
2051	284,269	126,342	157,927	158,036	158,036	$ -					
2052	157,927	126,342	31,585	139,925	139,925	$ -					
2053	31,585	31,585	-	33,849	33,849	$ -					
2054	-	-	-	-	-	$ -					
2055	-	-	-	-	-	$ -					
2056	-	-	-		-	$ -					
2057	-	-	-	-	-	$ -					
2058	-	-	-	-	-	$ -					
2059	-	-	-	-	-	$ -					
2060	-	-	-	-	-	$ -					
2061	-	-	-	-	-	$ -					
2062	-	-	-	-	-	$ -					
2063	-	-	-	-	-	$ -					
2064	-	-	-	-	-	$ -					
2065	-	-	-	-	-	$ -					
2066	-	-	-	-	-	$ -					
2067	-	-	-	-	-	$ -					
2068	-	-	-	-	-	$ -					
Project Totals				23,289,823	23,289,823	-					

** 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.

OPCo 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 (Replace the existing 138/69-12 kV transformer at West Moulton Station with a 138/69 kV transformer and a 69/12 kV transformer)**

Current Projected Year ARR	**901,778**
Current Projected Year ARR w/ Incentive	**901,778**
Current Projected Year Incentive ARR	-

Details			
Investment	6,529,259	Current Year	**2021**
Service Year (yyyy)	2012	ROE increase accepted by FERC (Basis Points)	-
Service Month (1-12)	11	FCR w/o incentives, less depreciation	14.34%
Useful life	44	FCR w/incentives approved for these facilities, less dep.	14.34%
CIAC (Yes or No)	No	Annual Depreciation Expense	148,392

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.

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 **		
2012	6,529,259	12,366	6,516,893	947,450	####### #######	$ -	$ 832,082		$ 832,082		
2013	6,516,893	148,392	6,368,501	1,071,954	1,071,954	$ -	$ 1,210,587		$ 1,210,587		
2014	6,368,501	148,392	6,220,108	1,050,682	1,050,682	$ -	$ 1,247,628		$ 1,247,628		
2015	6,220,108	148,392	6,071,716	1,029,410	1,029,410	$ -	$ 1,279,512		$ 1,279,512		
2016	6,071,716	148,392	5,923,324	1,008,138	1,008,138	$ -	$ 1,233,365		$ 1,233,365		
2017	5,923,324	148,392	5,774,932	986,866	986,866	$ -	$ 1,245,646		$ 1,245,646		
2018	5,774,932	148,392	5,626,539	965,594	965,594	$ -	$ 1,010,825		$ 1,010,825		
2019	5,626,539	148,392	5,478,147	944,322	944,322	$ -	$ 982,301		$ 982,301		
2020	5,478,147	148,392	5,329,755	923,050	923,050	$ -	$ 945,781		$ 945,781		
2021	5,329,755	148,392	5,181,363	901,778	901,778	$ -					
2022	5,181,363	148,392	5,032,970	880,506	880,506	$ -					
2023	5,032,970	148,392	4,884,578	859,234	859,234	$ -					
2024	4,884,578	148,392	4,736,186	837,962	837,962	$ -					
2025	4,736,186	148,392	4,587,794	816,690	816,690	$ -					
2026	4,587,794	148,392	4,439,401	795,418	795,418	$ -					
2027	4,439,401	148,392	4,291,009	774,145	774,145	$ -					
2028	4,291,009	148,392	4,142,617	752,873	752,873	$ -					
2029	4,142,617	148,392	3,994,225	731,601	731,601	$ -					
2030	3,994,225	148,392	3,845,832	710,329	710,329	$ -					
2031	3,845,832	148,392	3,697,440	689,057	689,057	$ -					
2032	3,697,440	148,392	3,549,048	667,785	667,785	$ -					
2033	3,549,048	148,392	3,400,656	646,513	646,513	$ -					
2034	3,400,656	148,392	3,252,263	625,241	625,241	$ -					
2035	3,252,263	148,392	3,103,871	603,969	603,969	$ -					
2036	3,103,871	148,392	2,955,479	582,697	582,697	$ -					
2037	2,955,479	148,392	2,807,087	561,425	561,425	$ -					
2038	2,807,087	148,392	2,658,694	540,153	540,153	$ -					
2039	2,658,694	148,392	2,510,302	518,881	518,881	$ -					
2040	2,510,302	148,392	2,361,910	497,609	497,609	$ -					
2041	2,361,910	148,392	2,213,518	476,337	476,337	$ -					
2042	2,213,518	148,392	2,065,125	455,064	455,064	$ -					
2043	2,065,125	148,392	1,916,733	433,792	433,792	$ -					
2044	1,916,733	148,392	1,768,341	412,520	412,520	$ -					
2045	1,768,341	148,392	1,619,949	391,248	391,248	$ -					
2046	1,619,949	148,392	1,471,556	369,976	369,976	$ -					
2047	1,471,556	148,392	1,323,164	348,704	348,704	$ -					
2048	1,323,164	148,392	1,174,772	327,432	327,432	$ -					
2049	1,174,772	148,392	1,026,380	306,160	306,160	$ -					
2050	1,026,380	148,392	877,987	284,888	284,888	$ -					
2051	877,987	148,392	729,595	263,616	263,616	$ -					
2052	729,595	148,392	581,203	242,344	242,344	$ -					
2053	581,203	148,392	432,811	221,072	221,072	$ -					
2054	432,811	148,392	284,418	199,800	199,800	$ -					
2055	284,418	148,392	136,026	178,528	178,528	$ -					
2056	136,026	136,026	-	145,776	145,776	$ -					
2057	-	-	-	-	-	$ -					
2058	-	-	-	-	-	$ -					
2059	-	-	-	-	-	$ -					
2060	-	-	-	-	-	$ -					
2061	-	-	-	-	-	$ -					
2062	-	-	-	-	-	$ -					
2063	-	-	-	-	-	$ -					
2064	-	-	-	-	-	$ -					
2065	-	-	-	-	-	$ -					
2066	-	-	-	-	-	$ -					
2067	-	-	-	-	-	$ -					
2068	-	-	-	-	-	$ -					
2069	-	-	-	-	-	$ -					
2070	-	-	-	-	-	$ -					
2071	-	-	-	-	-	$ -					
Project Totals				27,978,590	27,978,590	-					

** 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.

OPCo 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: b0570 (Reconductor EAST LIMA-STERLING 138 KV LINE)**

Current Projected Year ARR	**172,566**
Current Projected Year ARR w/ Incentive	**172,566**
Current Projected Year Incentive ARR	**-**

Details			
Investment	1,232,494	Current Year	2021
Service Year (yyyy)	2013	ROE increase accepted by FERC (Basis Points)	-
Service Month (1-12)	6	FCR w/o incentives, less depreciation	14.34%
Useful life	44	FCR w/incentives approved for these facilities, less dep.	14.34%
CIAC (Yes or No)	No	Annual Depreciation Expense	28,011

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	1,232,494	14,006	1,218,489	189,680	####### #######	$ -
2014	1,218,489	28,011	1,190,477	200,674	200,674	$ -
2015	1,190,477	28,011	1,162,466	196,659	196,659	$ -
2016	1,162,466	28,011	1,134,455	192,643	192,643	$ -
2017	1,134,455	28,011	1,106,444	188,628	188,628	$ -
2018	1,106,444	28,011	1,078,432	184,612	184,612	$ -
2019	1,078,432	28,011	1,050,421	180,597	180,597	$ -
2020	1,050,421	28,011	1,022,410	176,582	176,582	$ -
2021	1,022,410	28,011	994,399	172,566	172,566	$ -
2022	994,399	28,011	966,388	168,551	168,551	$ -
2023	966,388	28,011	938,376	164,535	164,535	$ -
2024	938,376	28,011	910,365	160,520	160,520	$ -
2025	910,365	28,011	882,354	156,505	156,505	$ -
2026	882,354	28,011	854,343	152,489	152,489	$ -
2027	854,343	28,011	826,331	148,474	148,474	$ -
2028	826,331	28,011	798,320	144,458	144,458	$ -
2029	798,320	28,011	770,309	140,443	140,443	$ -
2030	770,309	28,011	742,298	136,427	136,427	$ -
2031	742,298	28,011	714,286	132,412	132,412	$ -
2032	714,286	28,011	686,275	128,397	128,397	$ -
2033	686,275	28,011	658,264	124,381	124,381	$ -
2034	658,264	28,011	630,253	120,366	120,366	$ -
2035	630,253	28,011	602,242	116,350	116,350	$ -
2036	602,242	28,011	574,230	112,335	112,335	$ -
2037	574,230	28,011	546,219	108,320	108,320	$ -
2038	546,219	28,011	518,208	104,304	104,304	$ -
2039	518,208	28,011	490,197	100,289	100,289	$ -
2040	490,197	28,011	462,185	96,273	96,273	$ -
2041	462,185	28,011	434,174	92,258	92,258	$ -
2042	434,174	28,011	406,163	88,242	88,242	$ -
2043	406,163	28,011	378,152	84,227	84,227	$ -
2044	378,152	28,011	350,140	80,212	80,212	$ -
2045	350,140	28,011	322,129	76,196	76,196	$ -
2046	322,129	28,011	294,118	72,181	72,181	$ -
2047	294,118	28,011	266,107	68,165	68,165	$ -
2048	266,107	28,011	238,095	64,150	64,150	$ -
2049	238,095	28,011	210,084	60,135	60,135	$ -
2050	210,084	28,011	182,073	56,119	56,119	$ -
2051	182,073	28,011	154,062	52,104	52,104	$ -
2052	154,062	28,011	126,051	48,088	48,088	$ -
2053	126,051	28,011	98,039	44,073	44,073	$ -
2054	98,039	28,011	70,028	40,057	40,057	$ -
2055	70,028	28,011	42,017	36,042	36,042	$ -
2056	42,017	28,011	14,006	32,027	32,027	$ -
2057	14,006	14,006	-	15,009	15,009	$ -
2058	-	-	-	-	-	$ -
2059	-	-	-	-	-	$ -
2060	-	-	-	-	-	$ -
2061	-	-	-	-	-	$ -
2062	-	-	-	-	-	$ -
2063	-	-	-	-	-	$ -
2064	-	-	-	-	-	$ -
2065	-	-	-	-	-	$ -
2066	-	-	-	-	-	$ -
2067	-	-	-	-	-	$ -
2068	-	-	-	-	-	$ -
2069	-	-	-	-	-	$ -
2070	-	-	-	-	-	$ -
2071	-	-	-	-	-	$ -
2072	-	-	-	-	-	$ -
Project Totals				5,207,757	5,207,757	-

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.

Investment Year	RTEP Projected Rev. Req't.From Prior Year Template w/o Incentives		RTEP Projected Rev. Req't.From Prior Year Template with Incentives **		
2013	$ 219,263		$ 219,263		
2014	$ 203,042		$ 203,042		
2015	$ 228,159		$ 228,159		
2016	$ 81,330		$ 81,330		
2017	$ 222,274		$ 222,274		
2018	$ 147,062		$ 147,062		
2019	$ 142,952		$ 142,952		
2020	$ 137,674		$ 137,674		

** 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.

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	**806,620**
Current Projected Year ARR w/ Incentive	**806,620**
Current Projected Year Incentive ARR	-

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

Details			
Investment	5,705,686	Current Year	**2021**
Service Year (yyyy)	2013	ROE increase accepted by FERC (Basis Points)	-
Service Month (1-12)	11	FCR w/o incentives, less depreciation	14.34%
Useful life	44	FCR w/incentives approved for these facilities, less dep.	14.34%
CIAC (Yes or No)	No	Annual Depreciation Expense	129,675

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	5,705,686	10,806	5,694,880	827,943	####### #######	$ -
2014	5,694,880	129,675	5,565,205	936,743	936,743	$ -
2015	5,565,205	129,675	5,435,530	918,154	918,154	$ -
2016	5,435,530	129,675	5,305,856	899,565	899,565	$ -
2017	5,305,856	129,675	5,176,181	880,976	880,976	$ -
2018	5,176,181	129,675	5,046,506	862,387	862,387	$ -
2019	5,046,506	129,675	4,916,832	843,798	843,798	$ -
2020	4,916,832	129,675	4,787,157	825,209	825,209	$ -
2021	4,787,157	129,675	4,657,482	806,620	806,620	$ -
2022	4,657,482	129,675	4,527,808	788,031	788,031	$ -
2023	4,527,808	129,675	4,398,133	769,443	769,443	$ -
2024	4,398,133	129,675	4,268,458	750,854	750,854	$ -
2025	4,268,458	129,675	4,138,784	732,265	732,265	$ -
2026	4,138,784	129,675	4,009,109	713,676	713,676	$ -
2027	4,009,109	129,675	3,879,434	695,087	695,087	$ -
2028	3,879,434	129,675	3,749,760	676,498	676,498	$ -
2029	3,749,760	129,675	3,620,085	657,909	657,909	$ -
2030	3,620,085	129,675	3,490,410	639,320	639,320	$ -
2031	3,490,410	129,675	3,360,736	620,731	620,731	$ -
2032	3,360,736	129,675	3,231,061	602,142	602,142	$ -
2033	3,231,061	129,675	3,101,386	583,554	583,554	$ -
2034	3,101,386	129,675	2,971,711	564,965	564,965	$ -
2035	2,971,711	129,675	2,842,037	546,376	546,376	$ -
2036	2,842,037	129,675	2,712,362	527,787	527,787	$ -
2037	2,712,362	129,675	2,582,687	509,198	509,198	$ -
2038	2,582,687	129,675	2,453,013	490,609	490,609	$ -
2039	2,453,013	129,675	2,323,338	472,020	472,020	$ -
2040	2,323,338	129,675	2,193,663	453,431	453,431	$ -
2041	2,193,663	129,675	2,063,989	434,842	434,842	$ -
2042	2,063,989	129,675	1,934,314	416,253	416,253	$ -
2043	1,934,314	129,675	1,804,639	397,665	397,665	$ -
2044	1,804,639	129,675	1,674,965	379,076	379,076	$ -
2045	1,674,965	129,675	1,545,290	360,487	360,487	$ -
2046	1,545,290	129,675	1,415,615	341,898	341,898	$ -
2047	1,415,615	129,675	1,285,941	323,309	323,309	$ -
2048	1,285,941	129,675	1,156,266	304,720	304,720	$ -
2049	1,156,266	129,675	1,026,591	286,131	286,131	$ -
2050	1,026,591	129,675	896,917	267,542	267,542	$ -
2051	896,917	129,675	767,242	248,953	248,953	$ -
2052	767,242	129,675	637,567	230,365	230,365	$ -
2053	637,567	129,675	507,893	211,776	211,776	$ -
2054	507,893	129,675	378,218	193,187	193,187	$ -
2055	378,218	129,675	248,543	174,598	174,598	$ -
2056	248,543	129,675	118,868	156,009	156,009	$ -
2057	118,868	118,868	-	127,388	127,388	$ -
2058	-	-	-	-	-	$ -
2059	-	-	-	-	-	$ -
2060	-	-	-	-	-	$ -
2061	-	-	-	-	-	$ -
2062	-	-	-	-	-	$ -
2063	-	-	-	-	-	$ -
2064	-	-	-	-	-	$ -
2065	-	-	-	-	-	$ -
2066	-	-	-	-	-	$ -
2067	-	-	-	-	-	$ -
2068	-	-	-	-	-	$ -
2069	-	-	-	-	-	$ -
2070	-	-	-	-	-	$ -
2071	-	-	-	-	-	$ -
2072	-	-	-	-	-	$ -
Project Totals				24,449,489	24,449,489	-

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 **		
$ 528,784		$ 528,784		
$ 1,017,894		$ 1,017,894		
$ 953,651		$ 953,651		
$ 919,468		$ 919,468		
$ 929,340		$ 929,340		
$ 902,942		$ 902,942		
$ 877,873		$ 877,873		
$ 845,618		$ 845,618		

** 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.

OPCo 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: b1034.6 (138kV circuit breakers at South Canton Station)**

Current Projected Year ARR	**295,885**
Current Projected Year ARR w/ Incentive	**295,885**
Current Projected Year Incentive ARR	-

Details			
Investment	2,088,951	Current Year	**2021**
Service Year (yyyy)	2013	ROE increase accepted by FERC (Basis Points)	-
Service Month (1-12)	12	FCR w/o incentives, less depreciation	14.34%
Useful life	44	FCR w/incentives approved for these facilities, less dep.	14.34%
CIAC (Yes or No)	No	Annual Depreciation Expense	47,476

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.

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 **
2013	2,088,951	-	2,088,951	299,452	####### #######	$ -	$ 424,916	$ 424,916
2014	2,088,951	47,476	2,041,475	343,525	343,525	$ -	$ 372,954	$ 372,954
2015	2,041,475	47,476	1,993,999	336,719	336,719	$ -	$ 375,622	$ 375,622
2016	1,993,999	47,476	1,946,523	329,913	329,913	$ -	$ 363,235	$ 363,235
2017	1,946,523	47,476	1,899,046	323,108	323,108	$ -	$ 367,158	$ 367,158
2018	1,899,046	47,476	1,851,570	316,302	316,302	$ -	$ 331,181	$ 331,181
2019	1,851,570	47,476	1,804,094	309,496	309,496	$ -	$ 321,999	$ 321,999
2020	1,804,094	47,476	1,756,618	302,691	302,691	$ -	$ 310,179	$ 310,179
2021	1,756,618	47,476	1,709,142	295,885	295,885	$ -		
2022	1,709,142	47,476	1,661,666	289,079	289,079	$ -		
2023	1,661,666	47,476	1,614,189	282,273	282,273	$ -		
2024	1,614,189	47,476	1,566,713	275,468	275,468	$ -		
2025	1,566,713	47,476	1,519,237	268,662	268,662	$ -		
2026	1,519,237	47,476	1,471,761	261,856	261,856	$ -		
2027	1,471,761	47,476	1,424,285	255,051	255,051	$ -		
2028	1,424,285	47,476	1,376,809	248,245	248,245	$ -		
2029	1,376,809	47,476	1,329,332	241,439	241,439	$ -		
2030	1,329,332	47,476	1,281,856	234,633	234,633	$ -		
2031	1,281,856	47,476	1,234,380	227,828	227,828	$ -		
2032	1,234,380	47,476	1,186,904	221,022	221,022	$ -		
2033	1,186,904	47,476	1,139,428	214,216	214,216	$ -		
2034	1,139,428	47,476	1,091,952	207,411	207,411	$ -		
2035	1,091,952	47,476	1,044,476	200,605	200,605	$ -		
2036	1,044,476	47,476	996,999	193,799	193,799	$ -		
2037	996,999	47,476	949,523	186,993	186,993	$ -		
2038	949,523	47,476	902,047	180,188	180,188	$ -		
2039	902,047	47,476	854,571	173,382	173,382	$ -		
2040	854,571	47,476	807,095	166,576	166,576	$ -		
2041	807,095	47,476	759,619	159,771	159,771	$ -		
2042	759,619	47,476	712,142	152,965	152,965	$ -		
2043	712,142	47,476	664,666	146,159	146,159	$ -		
2044	664,666	47,476	617,190	139,353	139,353	$ -		
2045	617,190	47,476	569,714	132,548	132,548	$ -		
2046	569,714	47,476	522,238	125,742	125,742	$ -		
2047	522,238	47,476	474,762	118,936	118,936	$ -		
2048	474,762	47,476	427,285	112,130	112,130	$ -		
2049	427,285	47,476	379,809	105,325	105,325	$ -		
2050	379,809	47,476	332,333	98,519	98,519	$ -		
2051	332,333	47,476	284,857	91,713	91,713	$ -		
2052	284,857	47,476	237,381	84,908	84,908	$ -		
2053	237,381	47,476	189,905	78,102	78,102	$ -		
2054	189,905	47,476	142,428	71,296	71,296	$ -		
2055	142,428	47,476	94,952	64,490	64,490	$ -		
2056	94,952	47,476	47,476	57,685	57,685	$ -		
2057	47,476	47,476	-	50,879	50,879	$ -		
2058	-	-	-	-	-	$ -		
2059	-	-	-	-	-	$ -		
2060	-	-	-	-	-	$ -		
2061	-	-	-	-	-	$ -		
2062	-	-	-	-	-	$ -		
2063	-	-	-	-	-	$ -		
2064	-	-	-	-	-	$ -		
2065	-	-	-	-	-	$ -		
2066	-	-	-	-	-	$ -		
2067	-	-	-	-	-	$ -		
2068	-	-	-	-	-	$ -		
2069	-	-	-	-	-	$ -		
2070	-	-	-	-	-	$ -		
2071	-	-	-	-	-	$ -		
2072	-	-	-	-	-	$ -		
Project Totals				8,976,338	8,976,338	-		

** 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.

OPCo 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: b1864.1 (Add two additional 345/138 kV transformers at Kammer)**

Current Projected Year ARR	**824,945**
Current Projected Year ARR w/ Incentive	**824,945**
Current Projected Year Incentive ARR	-

Details			
Investment	5,507,426	Current Year	**2021**
Service Year (yyyy)	2016	ROE increase accepted by FERC (Basis Points)	-
Service Month (1-12)	6	FCR w/o incentives, less depreciation	14.34%
Useful life	44	FCR w/incentives approved for these facilities, less dep.	14.34%
CIAC (Yes or No)	No	Annual Depreciation Expense	125,169

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.

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 **		
2016	5,507,426	62,584	5,444,842	847,589	####### #######	$ -	$ 42,109		$ 42,109		
2017	5,444,842	125,169	5,319,673	896,717	896,717	$ -	$ 41,186		$ 41,186		
2018	5,319,673	125,169	5,194,504	878,774	878,774	$ -	$ (7,120)		$ (7,120)		
2019	5,194,504	125,169	5,069,335	860,831	860,831	$ -	$ 25,082		$ 25,082		
2020	5,069,335	125,169	4,944,167	842,888	842,888	$ -	$ 863,948		$ 863,948		
2021	4,944,167	125,169	4,818,998	824,945	824,945	$ -					
2022	4,818,998	125,169	4,693,829	807,002	807,002	$ -					
2023	4,693,829	125,169	4,568,660	789,059	789,059	$ -					
2024	4,568,660	125,169	4,443,491	771,116	771,116	$ -					
2025	4,443,491	125,169	4,318,323	753,173	753,173	$ -					
2026	4,318,323	125,169	4,193,154	735,230	735,230	$ -					
2027	4,193,154	125,169	4,067,985	717,287	717,287	$ -					
2028	4,067,985	125,169	3,942,816	699,344	699,344	$ -					
2029	3,942,816	125,169	3,817,648	681,401	681,401	$ -					
2030	3,817,648	125,169	3,692,479	663,458	663,458	$ -					
2031	3,692,479	125,169	3,567,310	645,515	645,515	$ -					
2032	3,567,310	125,169	3,442,141	627,572	627,572	$ -					
2033	3,442,141	125,169	3,316,972	609,629	609,629	$ -					
2034	3,316,972	125,169	3,191,804	591,686	591,686	$ -					
2035	3,191,804	125,169	3,066,635	573,743	573,743	$ -					
2036	3,066,635	125,169	2,941,466	555,800	555,800	$ -					
2037	2,941,466	125,169	2,816,297	537,857	537,857	$ -					
2038	2,816,297	125,169	2,691,129	519,914	519,914	$ -					
2039	2,691,129	125,169	2,565,960	501,971	501,971	$ -					
2040	2,565,960	125,169	2,440,791	484,028	484,028	$ -					
2041	2,440,791	125,169	2,315,622	466,085	466,085	$ -					
2042	2,315,622	125,169	2,190,454	448,142	448,142	$ -					
2043	2,190,454	125,169	2,065,285	430,199	430,199	$ -					
2044	2,065,285	125,169	1,940,116	412,256	412,256	$ -					
2045	1,940,116	125,169	1,814,947	394,313	394,313	$ -					
2046	1,814,947	125,169	1,689,778	376,370	376,370	$ -					
2047	1,689,778	125,169	1,564,610	358,427	358,427	$ -					
2048	1,564,610	125,169	1,439,441	340,484	340,484	$ -					
2049	1,439,441	125,169	1,314,272	322,541	322,541	$ -					
2050	1,314,272	125,169	1,189,103	304,598	304,598	$ -					
2051	1,189,103	125,169	1,063,935	286,656	286,656	$ -					
2052	1,063,935	125,169	938,766	268,713	268,713	$ -					
2053	938,766	125,169	813,597	250,770	250,770	$ -					
2054	813,597	125,169	688,428	232,827	232,827	$ -					
2055	688,428	125,169	563,259	214,884	214,884	$ -					
2056	563,259	125,169	438,091	196,941	196,941	$ -					
2057	438,091	125,169	312,922	178,998	178,998	$ -					
2058	312,922	125,169	187,753	161,055	161,055	$ -					
2059	187,753	125,169	62,584	143,112	143,112	$ -					
2060	-	-	-	-	-	$ -					
2061	-	-	-	-	-	$ -					
2062	-	-	-	-	-	$ -					
2063	-	-	-	-	-	$ -					
2064	-	-	-	-	-	$ -					
2065	-	-	-	-	-	$ -					
2066	-	-	-	-	-	$ -					
2067	-	-	-	-	-	$ -					
2068	-	-	-	-	-	$ -					
2069	-	-	-	-	-	$ -					
2070	-	-	-	-	-	$ -					
2071	-	-	-	-	-	$ -					
2072	-	-	-	-	-	$ -					
2073	-	-	-	-	-	$ -					
2074	-	-	-	-	-	$ -					
2075	-	-	-	-	-	$ -					
Project Totals				23,203,899	23,203,899	-					

** 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.

OPCo 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	**565,534**
Current Projected Year ARR w/ Incentive	**565,534**
Current Projected Year Incentive ARR	**-**

Details			
Investment	4,008,040	Current Year	**2021**
Service Year (yyyy)	2013	ROE increase accepted by FERC (Basis Points)	-
Service Month (1-12)	10	FCR w/o incentives, less depreciation	14.34%
Useful life	44	FCR w/incentives approved for these facilities, less dep.	14.34%
CIAC (Yes or No)	No	Annual Depreciation Expense	91,092

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.

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 **		
2013	4,008,040	15,182	3,992,858	588,647	####### #######	$ -	$ 0		$ 0		
2014	3,992,858	91,092	3,901,766	656,940	656,940	$ -	$ 7,389,592		$ 7,389,592		
2015	3,901,766	91,092	3,810,674	643,882	643,882	$ -	$ 583,939		$ 583,939		
2016	3,810,674	91,092	3,719,582	630,824	630,824	$ -	$ 662,503		$ 662,503		
2017	3,719,582	91,092	3,628,491	617,766	617,766	$ -	$ 750,034		$ 750,034		
2018	3,628,491	91,092	3,537,399	604,708	604,708	$ -	$ 633,061		$ 633,061		
2019	3,537,399	91,092	3,446,307	591,650	591,650	$ -	$ 682,446		$ 682,446		
2020	3,446,307	91,092	3,355,215	578,592	578,592	$ -	$ 597,311		$ 597,311		
2021	3,355,215	91,092	3,264,123	565,534	565,534	$ -					
2022	3,264,123	91,092	3,173,031	552,476	552,476	$ -					
2023	3,173,031	91,092	3,081,940	539,418	539,418	$ -					
2024	3,081,940	91,092	2,990,848	526,360	526,360	$ -					
2025	2,990,848	91,092	2,899,756	513,302	513,302	$ -					
2026	2,899,756	91,092	2,808,664	500,243	500,243	$ -					
2027	2,808,664	91,092	2,717,572	487,185	487,185	$ -					
2028	2,717,572	91,092	2,626,481	474,127	474,127	$ -					
2029	2,626,481	91,092	2,535,389	461,069	461,069	$ -					
2030	2,535,389	91,092	2,444,297	448,011	448,011	$ -					
2031	2,444,297	91,092	2,353,205	434,953	434,953	$ -					
2032	2,353,205	91,092	2,262,113	421,895	421,895	$ -					
2033	2,262,113	91,092	2,171,022	408,837	408,837	$ -					
2034	2,171,022	91,092	2,079,930	395,779	395,779	$ -					
2035	2,079,930	91,092	1,988,838	382,721	382,721	$ -					
2036	1,988,838	91,092	1,897,746	369,663	369,663	$ -					
2037	1,897,746	91,092	1,806,654	356,605	356,605	$ -					
2038	1,806,654	91,092	1,715,562	343,547	343,547	$ -					
2039	1,715,562	91,092	1,624,471	330,489	330,489	$ -					
2040	1,624,471	91,092	1,533,379	317,431	317,431	$ -					
2041	1,533,379	91,092	1,442,287	304,373	304,373	$ -					
2042	1,442,287	91,092	1,351,195	291,315	291,315	$ -					
2043	1,351,195	91,092	1,260,103	278,257	278,257	$ -					
2044	1,260,103	91,092	1,169,012	265,199	265,199	$ -					
2045	1,169,012	91,092	1,077,920	252,141	252,141	$ -					
2046	1,077,920	91,092	986,828	239,083	239,083	$ -					
2047	986,828	91,092	895,736	226,025	226,025	$ -					
2048	895,736	91,092	804,644	212,967	212,967	$ -					
2049	804,644	91,092	713,553	199,909	199,909	$ -					
2050	713,553	91,092	622,461	186,851	186,851	$ -					
2051	622,461	91,092	531,369	173,793	173,793	$ -					
2052	531,369	91,092	440,277	160,735	160,735	$ -					
2053	440,277	91,092	349,185	147,677	147,677	$ -					
2054	349,185	91,092	258,093	134,619	134,619	$ -					
2055	258,093	91,092	167,002	121,561	121,561	$ -					
2056	167,002	91,092	75,910	108,503	108,503	$ -					
2057	75,910	75,910	-	81,351	81,351	$ -					
2058	-	-	-	-	-	$ -					
2059	-	-	-	-	-	$ -					
2060	-	-	-	-	-	$ -					
2061	-	-	-	-	-	$ -					
2062	-	-	-	-	-	$ -					
2063	-	-	-	-	-	$ -					
2064	-	-	-	-	-	$ -					
2065	-	-	-	-	-	$ -					
2066	-	-	-	-	-	$ -					
2067	-	-	-	-	-	$ -					
2068	-	-	-	-	-	$ -					
2069	-	-	-	-	-	$ -					
2070	-	-	-	-	-	$ -					
2071	-	-	-	-	-	$ -					
2072	-	-	-	-	-	$ -					
Project Totals				17,127,010	17,127,010	-					

** 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.

OPCo 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	**16,407**
Current Projected Year ARR w/ Incentive	**16,407**
Current Projected Year Incentive ARR	**-**

Details			
Investment	118,332	Current Year	**2021**
Service Year (yyyy)	2013	ROE increase accepted by FERC (Basis Points)	-
Service Month (1-12)	1	FCR w/o incentives, less depreciation	14.34%
Useful life	44	FCR w/incentives approved for these facilities, less dep.	14.34%
CIAC (Yes or No)	No	Annual Depreciation Expense	2,689

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.

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 **		
2013	118,332	2,465	115,867	19,251	###### ########	$ -	$ -		$ -		
2014	115,867	2,689	113,177	19,106	19,106	$ -	$ 25,862		$ 25,862		
2015	113,177	2,689	110,488	18,721	18,721	$ -	$ 17,942		$ 17,942		
2016	110,488	2,689	107,799	18,335	18,335	$ -	$ 22,706		$ 22,706		
2017	107,799	2,689	105,109	17,950	17,950	$ -	$ 22,935		$ 22,935		
2018	105,109	2,689	102,420	17,564	17,564	$ -	$ 18,387		$ 18,387		
2019	102,420	2,689	99,731	17,179	17,179	$ -	$ 17,870		$ 17,870		
2020	99,731	2,689	97,041	16,793	16,793	$ -	$ 17,207		$ 17,207		
2021	97,041	2,689	94,352	16,407	16,407	$ -					
2022	94,352	2,689	91,662	16,022	16,022	$ -					
2023	91,662	2,689	88,973	15,636	15,636	$ -					
2024	88,973	2,689	86,284	15,251	15,251	$ -					
2025	86,284	2,689	83,594	14,865	14,865	$ -					
2026	83,594	2,689	80,905	14,480	14,480	$ -					
2027	80,905	2,689	78,216	14,094	14,094	$ -					
2028	78,216	2,689	75,526	13,709	13,709	$ -					
2029	75,526	2,689	72,837	13,323	13,323	$ -					
2030	72,837	2,689	70,148	12,938	12,938	$ -					
2031	70,148	2,689	67,458	12,552	12,552	$ -					
2032	67,458	2,689	64,769	12,167	12,167	$ -					
2033	64,769	2,689	62,079	11,781	11,781	$ -					
2034	62,079	2,689	59,390	11,396	11,396	$ -					
2035	59,390	2,689	56,701	11,010	11,010	$ -					
2036	56,701	2,689	54,011	10,625	10,625	$ -					
2037	54,011	2,689	51,322	10,239	10,239	$ -					
2038	51,322	2,689	48,633	9,854	9,854	$ -					
2039	48,633	2,689	45,943	9,468	9,468	$ -					
2040	45,943	2,689	43,254	9,083	9,083	$ -					
2041	43,254	2,689	40,565	8,697	8,697	$ -					
2042	40,565	2,689	37,875	8,312	8,312	$ -					
2043	37,875	2,689	35,186	7,926	7,926	$ -					
2044	35,186	2,689	32,496	7,541	7,541	$ -					
2045	32,496	2,689	29,807	7,155	7,155	$ -					
2046	29,807	2,689	27,118	6,769	6,769	$ -					
2047	27,118	2,689	24,428	6,384	6,384	$ -					
2048	24,428	2,689	21,739	5,998	5,998	$ -					
2049	21,739	2,689	19,050	5,613	5,613	$ -					
2050	19,050	2,689	16,360	5,227	5,227	$ -					
2051	16,360	2,689	13,671	4,842	4,842	$ -					
2052	13,671	2,689	10,982	4,456	4,456	$ -					
2053	10,982	2,689	8,292	4,071	4,071	$ -					
2054	8,292	2,689	5,603	3,685	3,685	$ -					
2055	5,603	2,689	2,913	3,300	3,300	$ -					
2056	2,913	2,689	224	2,914	2,914	$ -					
2057	224	224	-	240	240	$ -					
2058	-	-	-	-	-	$ -					
2059	-	-	-	-	-	$ -					
2060	-	-	-	-	-	$ -					
2061	-	-	-	-	-	$ -					
2062	-	-	-	-	-	$ -					
2063	-	-	-	-	-	$ -					
2064	-	-	-	-	-	$ -					
2065	-	-	-	-	-	$ -					
2066	-	-	-	-	-	$ -					
2067	-	-	-	-	-	$ -					
2068	-	-	-	-	-	$ -					
2069	-	-	-	-	-	$ -					
2070	-	-	-	-	-	$ -					
2071	-	-	-	-	-	$ -					
2072	-	-	-	-	-	$ -					
Project Totals				492,930	492,930	-					

** 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.

OPCo 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	**504,122**
Current Projected Year ARR w/ Incentive	**504,122**
Current Projected Year Incentive ARR	-

Details			
Investment	3,459,640	Current Year	**2021**
Service Year (yyyy)	2015	ROE increase accepted by FERC (Basis Points)	-
Service Month (1-12)	3	FCR w/o incentives, less depreciation	14.34%
Useful life	44	FCR w/incentives approved for these facilities, less dep.	14.34%
CIAC (Yes or No)	No	Annual Depreciation Expense	78,628

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	3,459,640	58,971	3,400,669	550,685	####### #######	$ -
2016	3,400,669	78,628	3,322,041	560,479	560,479	$ -
2017	3,322,041	78,628	3,243,413	549,208	549,208	$ -
2018	3,243,413	78,628	3,164,784	537,936	537,936	$ -
2019	3,164,784	78,628	3,086,156	526,665	526,665	$ -
2020	3,086,156	78,628	3,007,528	515,394	515,394	$ -
2021	3,007,528	78,628	2,928,900	504,122	504,122	$ -
2022	2,928,900	78,628	2,850,272	492,851	492,851	$ -
2023	2,850,272	78,628	2,771,643	481,580	481,580	$ -
2024	2,771,643	78,628	2,693,015	470,308	470,308	$ -
2025	2,693,015	78,628	2,614,387	459,037	459,037	$ -
2026	2,614,387	78,628	2,535,759	447,765	447,765	$ -
2027	2,535,759	78,628	2,457,131	436,494	436,494	$ -
2028	2,457,131	78,628	2,378,503	425,223	425,223	$ -
2029	2,378,503	78,628	2,299,874	413,951	413,951	$ -
2030	2,299,874	78,628	2,221,246	402,680	402,680	$ -
2031	2,221,246	78,628	2,142,618	391,409	391,409	$ -
2032	2,142,618	78,628	2,063,990	380,137	380,137	$ -
2033	2,063,990	78,628	1,985,362	368,866	368,866	$ -
2034	1,985,362	78,628	1,906,733	357,595	357,595	$ -
2035	1,906,733	78,628	1,828,105	346,323	346,323	$ -
2036	1,828,105	78,628	1,749,477	335,052	335,052	$ -
2037	1,749,477	78,628	1,670,849	323,780	323,780	$ -
2038	1,670,849	78,628	1,592,221	312,509	312,509	$ -
2039	1,592,221	78,628	1,513,593	301,238	301,238	$ -
2040	1,513,593	78,628	1,434,964	289,966	289,966	$ -
2041	1,434,964	78,628	1,356,336	278,695	278,695	$ -
2042	1,356,336	78,628	1,277,708	267,424	267,424	$ -
2043	1,277,708	78,628	1,199,080	256,152	256,152	$ -
2044	1,199,080	78,628	1,120,452	244,881	244,881	$ -
2045	1,120,452	78,628	1,041,823	233,609	233,609	$ -
2046	1,041,823	78,628	963,195	222,338	222,338	$ -
2047	963,195	78,628	884,567	211,067	211,067	$ -
2048	884,567	78,628	805,939	199,795	199,795	$ -
2049	805,939	78,628	727,311	188,524	188,524	$ -
2050	727,311	78,628	648,683	177,253	177,253	$ -
2051	648,683	78,628	570,054	165,981	165,981	$ -
2052	570,054	78,628	491,426	154,710	154,710	$ -
2053	491,426	78,628	412,798	143,439	143,439	$ -
2054	412,798	78,628	334,170	132,167	132,167	$ -
2055	334,170	78,628	255,542	120,896	120,896	$ -
2056	255,542	78,628	176,913	109,624	109,624	$ -
2057	176,913	78,628	98,285	98,353	98,353	$ -
2058	98,285	78,628	19,657	87,082	87,082	$ -
2059	19,657	19,657	-	21,066	21,066	$ -
2060	-	-	-	-	-	$ -
2061	-	-	-	-	-	$ -
2062	-	-	-	-	-	$ -
2063	-	-	-	-	-	$ -
2064	-	-	-	-	-	$ -
2065	-	-	-	-	-	$ -
2066	-	-	-	-	-	$ -
2067	-	-	-	-	-	$ -
2068	-	-	-	-	-	$ -
2069	-	-	-	-	-	$ -
2070	-	-	-	-	-	$ -
2071	-	-	-	-	-	$ -
2072	-	-	-	-	-	$ -
2073	-	-	-	-	-	$ -
2074	-	-	-	-	-	$ -
Project Totals				14,494,309	14,494,309	-

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 **		
$ 652,736		$ 652,736		
$ 666,514		$ 666,514		
$ 674,329		$ 674,329		
$ 563,359		$ 563,359		
$ 548,044		$ 548,044		
$ 528,210		$ 528,210		

** 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.

OPCo 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: b1034.7 (Replace all obsolete 138kV circuit breakers at the Torrey and Wagenhals stations)**

Current Projected Year ARR	**630,069**
Current Projected Year ARR w/ Incentive	**630,069**
Current Projected Year Incentive ARR	-

Details			
Investment	4,474,020	Current Year	**2021**
Service Year (yyyy)	2013	ROE increase accepted by FERC (Basis Points)	-
Service Month (1-12)	9	FCR w/o incentives, less depreciation	14.34%
Useful life	44	FCR w/incentives approved for these facilities, less dep.	14.34%
CIAC (Yes or No)	No	Annual Depreciation Expense	101,682

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.

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 **		
2013	4,474,020	25,421	4,448,599	664,950	####### #######	$ -	$ 0		$ 0		
2014	4,448,599	101,682	4,346,917	732,102	732,102	$ -	$ 95,797		$ 95,797		
2015	4,346,917	101,682	4,245,235	717,526	717,526	$ -	$ 660,744		$ 660,744		
2016	4,245,235	101,682	4,143,553	702,950	702,950	$ -	$ 821,901		$ 821,901		
2017	4,143,553	101,682	4,041,870	688,373	688,373	$ -	$ 828,442		$ 828,442		
2018	4,041,870	101,682	3,940,188	673,797	673,797	$ -	$ 652,807		$ 652,807		
2019	3,940,188	101,682	3,838,506	659,221	659,221	$ -	$ 685,825		$ 685,825		
2020	3,838,506	101,682	3,736,824	644,645	644,645	$ -	$ 660,577		$ 660,577		
2021	3,736,824	101,682	3,635,141	630,069	630,069	$ -					
2022	3,635,141	101,682	3,533,459	615,493	615,493	$ -					
2023	3,533,459	101,682	3,431,777	600,916	600,916	$ -					
2024	3,431,777	101,682	3,330,094	586,340	586,340	$ -					
2025	3,330,094	101,682	3,228,412	571,764	571,764	$ -					
2026	3,228,412	101,682	3,126,730	557,188	557,188	$ -					
2027	3,126,730	101,682	3,025,048	542,612	542,612	$ -					
2028	3,025,048	101,682	2,923,365	528,035	528,035	$ -					
2029	2,923,365	101,682	2,821,683	513,459	513,459	$ -					
2030	2,821,683	101,682	2,720,001	498,883	498,883	$ -					
2031	2,720,001	101,682	2,618,319	484,307	484,307	$ -					
2032	2,618,319	101,682	2,516,636	469,731	469,731	$ -					
2033	2,516,636	101,682	2,414,954	455,155	455,155	$ -					
2034	2,414,954	101,682	2,313,272	440,578	440,578	$ -					
2035	2,313,272	101,682	2,211,589	426,002	426,002	$ -					
2036	2,211,589	101,682	2,109,907	411,426	411,426	$ -					
2037	2,109,907	101,682	2,008,225	396,850	396,850	$ -					
2038	2,008,225	101,682	1,906,543	382,274	382,274	$ -					
2039	1,906,543	101,682	1,804,860	367,698	367,698	$ -					
2040	1,804,860	101,682	1,703,178	353,121	353,121	$ -					
2041	1,703,178	101,682	1,601,496	338,545	338,545	$ -					
2042	1,601,496	101,682	1,499,814	323,969	323,969	$ -					
2043	1,499,814	101,682	1,398,131	309,393	309,393	$ -					
2044	1,398,131	101,682	1,296,449	294,817	294,817	$ -					
2045	1,296,449	101,682	1,194,767	280,240	280,240	$ -					
2046	1,194,767	101,682	1,093,084	265,664	265,664	$ -					
2047	1,093,084	101,682	991,402	251,088	251,088	$ -					
2048	991,402	101,682	889,720	236,512	236,512	$ -					
2049	889,720	101,682	788,038	221,936	221,936	$ -					
2050	788,038	101,682	686,355	207,360	207,360	$ -					
2051	686,355	101,682	584,673	192,783	192,783	$ -					
2052	584,673	101,682	482,991	178,207	178,207	$ -					
2053	482,991	101,682	381,309	163,631	163,631	$ -					
2054	381,309	101,682	279,626	149,055	149,055	$ -					
2055	279,626	101,682	177,944	134,479	134,479	$ -					
2056	177,944	101,682	76,262	119,902	119,902	$ -					
2057	76,262	76,262	-	81,728	81,728	$ -					
2058	-	-	-	-	-	$ -					
2059	-	-	-	-	-	$ -					
2060	-	-	-	-	-	$ -					
2061	-	-	-	-	-	$ -					
2062	-	-	-	-	-	$ -					
2063	-	-	-	-	-	$ -					
2064	-	-	-	-	-	$ -					
2065	-	-	-	-	-	$ -					
2066	-	-	-	-	-	$ -					
2067	-	-	-	-	-	$ -					
2068	-	-	-	-	-	$ -					
2069	-	-	-	-	-	$ -					
2070	-	-	-	-	-	$ -					
2071	-	-	-	-	-	$ -					
2072	-	-	-	-	-	$ -					
Project Totals				19,064,773	19,064,773	-					

** 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.

OPCo 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			
Investment	-	Current Year	**2021**
Service Year (yyyy)	2014	ROE increase accepted by FERC (Basis Points)	-
Service Month (1-12)	12	FCR w/o incentives, less depreciation	14.34%
Useful life	44	FCR w/incentives approved for these facilities, less dep.	14.34%
CIAC (Yes or No)	No	Annual Depreciation Expense	-

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.

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	-	-	-	-	-	$ -	$ 99,055		$ 99,055		
2015	-	-	-	-	-	$ -	$ 178,664		$ 178,664		
2016	-	-	-	-	-	$ -	$ 174,005		$ 174,005		
2017	-	-	-	-	-	$ -	$ 176,014		$ 174,014		
2018	-	-	-	-	-	$ -	$ 137,768		$ 137,768		
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				-	-	-					

** 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.

OPCo 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	**1,042,817**
Current Projected Year ARR w/ Incentive	**1,042,817**
Current Projected Year Incentive ARR	-

Details			
Investment	7,169,898	Current Year	**2021**
Service Year (yyyy)	2015	ROE increase accepted by FERC (Basis Points)	-
Service Month (1-12)	2	FCR w/o incentives, less depreciation	14.34%
Useful life	44	FCR w/incentives approved for these facilities, less dep.	14.34%
CIAC (Yes or No)	No	Annual Depreciation Expense	162,952

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.

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 **
2015	7,169,898	135,794	7,034,104	1,153,867	######### #####	$ -	$ 250,071	$ 250,071
2016	7,034,104	162,952	6,871,152	1,159,613	1,159,613	$ -	$ 77,068	$ 77,068
2017	6,871,152	162,952	6,708,200	1,136,254	1,136,254	$ -	$ 123,326	$ 123,326
2018	6,708,200	162,952	6,545,248	1,112,895	1,112,895	$ -	$ 1,165,473	$ 1,165,473
2019	6,545,248	162,952	6,382,296	1,089,535	1,089,535	$ -	$ 1,133,749	$ 1,133,749
2020	6,382,296	162,952	6,219,343	1,066,176	1,066,176	$ -	$ 1,092,679	$ 1,092,679
2021	6,219,343	162,952	6,056,391	1,042,817	1,042,817	$ -		
2022	6,056,391	162,952	5,893,439	1,019,458	1,019,458	$ -		
2023	5,893,439	162,952	5,730,487	996,098	996,098	$ -		
2024	5,730,487	162,952	5,567,534	972,739	972,739	$ -		
2025	5,567,534	162,952	5,404,582	949,380	949,380	$ -		
2026	5,404,582	162,952	5,241,630	926,021	926,021	$ -		
2027	5,241,630	162,952	5,078,678	902,661	902,661	$ -		
2028	5,078,678	162,952	4,915,726	879,302	879,302	$ -		
2029	4,915,726	162,952	4,752,773	855,943	855,943	$ -		
2030	4,752,773	162,952	4,589,821	832,584	832,584	$ -		
2031	4,589,821	162,952	4,426,869	809,225	809,225	$ -		
2032	4,426,869	162,952	4,263,917	785,865	785,865	$ -		
2033	4,263,917	162,952	4,100,964	762,506	762,506	$ -		
2034	4,100,964	162,952	3,938,012	739,147	739,147	$ -		
2035	3,938,012	162,952	3,775,060	715,788	715,788	$ -		
2036	3,775,060	162,952	3,612,108	692,428	692,428	$ -		
2037	3,612,108	162,952	3,449,155	669,069	669,069	$ -		
2038	3,449,155	162,952	3,286,203	645,710	645,710	$ -		
2039	3,286,203	162,952	3,123,251	622,351	622,351	$ -		
2040	3,123,251	162,952	2,960,299	598,991	598,991	$ -		
2041	2,960,299	162,952	2,797,347	575,632	575,632	$ -		
2042	2,797,347	162,952	2,634,394	552,273	552,273	$ -		
2043	2,634,394	162,952	2,471,442	528,914	528,914	$ -		
2044	2,471,442	162,952	2,308,490	505,554	505,554	$ -		
2045	2,308,490	162,952	2,145,538	482,195	482,195	$ -		
2046	2,145,538	162,952	1,982,585	458,836	458,836	$ -		
2047	1,982,585	162,952	1,819,633	435,477	435,477	$ -		
2048	1,819,633	162,952	1,656,681	412,117	412,117	$ -		
2049	1,656,681	162,952	1,493,729	388,758	388,758	$ -		
2050	1,493,729	162,952	1,330,777	365,399	365,399	$ -		
2051	1,330,777	162,952	1,167,824	342,040	342,040	$ -		
2052	1,167,824	162,952	1,004,872	318,680	318,680	$ -		
2053	1,004,872	162,952	841,920	295,321	295,321	$ -		
2054	841,920	162,952	678,968	271,962	271,962	$ -		
2055	678,968	162,952	516,015	248,603	248,603	$ -		
2056	516,015	162,952	353,063	225,244	225,244	$ -		
2057	353,063	162,952	190,111	201,884	201,884	$ -		
2058	190,111	162,952	27,159	178,525	178,525	$ -		
2059	27,159	27,159	-	29,105	29,105	$ -		
2060	-	-	-	-	-	$ -		
2061	-	-	-	-	-	$ -		
2062	-	-	-	-	-	$ -		
2063	-	-	-	-	-	$ -		
2064	-	-	-	-	-	$ -		
2065	-	-	-	-	-	$ -		
2066	-	-	-	-	-	$ -		
2067	-	-	-	-	-	$ -		
2068	-	-	-	-	-	$ -		
2069	-	-	-	-	-	$ -		
2070	-	-	-	-	-	$ -		
2071	-	-	-	-	-	$ -		
2072	-	-	-	-	-	$ -		
2073	-	-	-	-	-	$ -		
2074	-	-	-	-	-	$ -		
Project Totals				29,952,943	29,952,943	-		

** 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.

OPCo 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 (Loop the existing South Canton - Wayview 138kV circuit in-and-out of West Canton)**

Current Projected Year ARR	**177,978**
Current Projected Year ARR w/ Incentive	**177,978**
Current Projected Year Incentive ARR	**-**

Details			
Investment	1,214,619	Current Year	**2021**
Service Year (yyyy)	2015	ROE increase accepted by FERC (Basis Points)	-
Service Month (1-12)	6	FCR w/o incentives, less depreciation	14.34%
Useful life	44	FCR w/incentives approved for these facilities, less dep.	14.34%
CIAC (Yes or No)	No	Annual Depreciation Expense	27,605

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.

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 **
2015	1,214,619	13,802	1,200,817	186,929	####### #######	$ -	$ 247,850	$ 247,850
2016	1,200,817	27,605	1,173,212	197,764	197,764	$ -	$ 216,823	$ 216,823
2017	1,173,212	27,605	1,145,607	193,807	193,807	$ -	$ 219,628	$ 219,628
2018	1,145,607	27,605	1,118,002	189,849	189,849	$ -	$ 198,829	$ 198,829
2019	1,118,002	27,605	1,090,397	185,892	185,892	$ -	$ 193,445	$ 193,445
2020	1,090,397	27,605	1,062,792	181,935	181,935	$ -	$ 186,463	$ 186,463
2021	1,062,792	27,605	1,035,187	177,978	177,978	$ -		
2022	1,035,187	27,605	1,007,582	174,021	174,021	$ -		
2023	1,007,582	27,605	979,977	170,063	170,063	$ -		
2024	979,977	27,605	952,372	166,106	166,106	$ -		
2025	952,372	27,605	924,767	162,149	162,149	$ -		
2026	924,767	27,605	897,162	158,192	158,192	$ -		
2027	897,162	27,605	869,557	154,235	154,235	$ -		
2028	869,557	27,605	841,952	150,278	150,278	$ -		
2029	841,952	27,605	814,347	146,320	146,320	$ -		
2030	814,347	27,605	786,742	142,363	142,363	$ -		
2031	786,742	27,605	759,137	138,406	138,406	$ -		
2032	759,137	27,605	731,532	134,449	134,449	$ -		
2033	731,532	27,605	703,927	130,492	130,492	$ -		
2034	703,927	27,605	676,322	126,534	126,534	$ -		
2035	676,322	27,605	648,717	122,577	122,577	$ -		
2036	648,717	27,605	621,112	118,620	118,620	$ -		
2037	621,112	27,605	593,507	114,663	114,663	$ -		
2038	593,507	27,605	565,902	110,706	110,706	$ -		
2039	565,902	27,605	538,297	106,749	106,749	$ -		
2040	538,297	27,605	510,692	102,791	102,791	$ -		
2041	510,692	27,605	483,087	98,834	98,834	$ -		
2042	483,087	27,605	455,482	94,877	94,877	$ -		
2043	455,482	27,605	427,877	90,920	90,920	$ -		
2044	427,877	27,605	400,272	86,963	86,963	$ -		
2045	400,272	27,605	372,667	83,005	83,005	$ -		
2046	372,667	27,605	345,062	79,048	79,048	$ -		
2047	345,062	27,605	317,457	75,091	75,091	$ -		
2048	317,457	27,605	289,852	71,134	71,134	$ -		
2049	289,852	27,605	262,247	67,177	67,177	$ -		
2050	262,247	27,605	234,642	63,220	63,220	$ -		
2051	234,642	27,605	207,037	59,262	59,262	$ -		
2052	207,037	27,605	179,432	55,305	55,305	$ -		
2053	179,432	27,605	151,827	51,348	51,348	$ -		
2054	151,827	27,605	124,222	47,391	47,391	$ -		
2055	124,222	27,605	96,617	43,434	43,434	$ -		
2056	96,617	27,605	69,012	39,477	39,477	$ -		
2057	69,012	27,605	41,407	35,519	35,519	$ -		
2058	41,407	27,605	13,802	31,562	31,562	$ -		
2059	13,802	13,802	-	14,792	14,792	$ -		
2060	-	-	-	-	-	$ -		
2061	-	-	-	-	-	$ -		
2062	-	-	-	-	-	$ -		
2063	-	-	-	-	-	$ -		
2064	-	-	-	-	-	$ -		
2065	-	-	-	-	-	$ -		
2066	-	-	-	-	-	$ -		
2067	-	-	-	-	-	$ -		
2068	-	-	-	-	-	$ -		
2069	-	-	-	-	-	$ -		
2070	-	-	-	-	-	$ -		
2071	-	-	-	-	-	$ -		
2072	-	-	-	-	-	$ -		
2073	-	-	-	-	-	$ -		
2074	-	-	-	-	-	$ -		
Project Totals				5,132,227	5,132,227	-		

** 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.

OPCo 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	**453,236**
Current Projected Year ARR w/ Incentive	**453,236**
Current Projected Year Incentive ARR	-

Details			
Investment	3,059,126	Current Year	**2021**
Service Year (yyyy)	2015	ROE increase accepted by FERC (Basis Points)	-
Service Month (1-12)	12	FCR w/o incentives, less depreciation	14.34%
Useful life	44	FCR w/incentives approved for these facilities, less dep.	14.34%
CIAC (Yes or No)	No	Annual Depreciation Expense	69,526

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	3,059,126	-	3,059,126	438,526	####### #######	$ -
2016	3,059,126	69,526	2,989,600	503,069	503,069	$ -
2017	2,989,600	69,526	2,920,075	493,102	493,102	$ -
2018	2,920,075	69,526	2,850,549	483,136	483,136	$ -
2019	2,850,549	69,526	2,781,024	473,169	473,169	$ -
2020	2,781,024	69,526	2,711,498	463,203	463,203	$ -
2021	2,711,498	69,526	2,641,972	453,236	453,236	$ -
2022	2,641,972	69,526	2,572,447	443,270	443,270	$ -
2023	2,572,447	69,526	2,502,921	433,303	433,303	$ -
2024	2,502,921	69,526	2,433,396	423,337	423,337	$ -
2025	2,433,396	69,526	2,363,870	413,370	413,370	$ -
2026	2,363,870	69,526	2,294,345	403,404	403,404	$ -
2027	2,294,345	69,526	2,224,819	393,437	393,437	$ -
2028	2,224,819	69,526	2,155,293	383,471	383,471	$ -
2029	2,155,293	69,526	2,085,768	373,504	373,504	$ -
2030	2,085,768	69,526	2,016,242	363,538	363,538	$ -
2031	2,016,242	69,526	1,946,717	353,571	353,571	$ -
2032	1,946,717	69,526	1,877,191	343,605	343,605	$ -
2033	1,877,191	69,526	1,807,665	333,638	333,638	$ -
2034	1,807,665	69,526	1,738,140	323,672	323,672	$ -
2035	1,738,140	69,526	1,668,614	313,705	313,705	$ -
2036	1,668,614	69,526	1,599,089	303,739	303,739	$ -
2037	1,599,089	69,526	1,529,563	293,772	293,772	$ -
2038	1,529,563	69,526	1,460,037	283,806	283,806	$ -
2039	1,460,037	69,526	1,390,512	273,839	273,839	$ -
2040	1,390,512	69,526	1,320,986	263,873	263,873	$ -
2041	1,320,986	69,526	1,251,461	253,906	253,906	$ -
2042	1,251,461	69,526	1,181,935	243,940	243,940	$ -
2043	1,181,935	69,526	1,112,409	233,973	233,973	$ -
2044	1,112,409	69,526	1,042,884	224,006	224,006	$ -
2045	1,042,884	69,526	973,358	214,040	214,040	$ -
2046	973,358	69,526	903,833	204,073	204,073	$ -
2047	903,833	69,526	834,307	194,107	194,107	$ -
2048	834,307	69,526	764,782	184,140	184,140	$ -
2049	764,782	69,526	695,256	174,174	174,174	$ -
2050	695,256	69,526	625,730	164,207	164,207	$ -
2051	625,730	69,526	556,205	154,241	154,241	$ -
2052	556,205	69,526	486,679	144,274	144,274	$ -
2053	486,679	69,526	417,154	134,308	134,308	$ -
2054	417,154	69,526	347,628	124,341	124,341	$ -
2055	347,628	69,526	278,102	114,375	114,375	$ -
2056	278,102	69,526	208,577	104,408	104,408	$ -
2057	208,577	69,526	139,051	94,442	94,442	$ -
2058	139,051	69,526	69,526	84,475	84,475	$ -
2059	69,526	69,526	0	74,509	74,509	$ -
2060	0	0	-	0	0	$ -
2061	-	-	-	-	-	$ -
2062	-	-	-	-	-	$ -
2063	-	-	-	-	-	$ -
2064	-	-	-	-	-	$ -
2065	-	-	-	-	-	$ -
2066	-	-	-	-	-	$ -
2067	-	-	-	-	-	$ -
2068	-	-	-	-	-	$ -
2069	-	-	-	-	-	$ -
2070	-	-	-	-	-	$ -
2071	-	-	-	-	-	$ -
2072	-	-	-	-	-	$ -
2073	-	-	-	-	-	$ -
2074	-	-	-	-	-	$ -
Project Totals				13,145,234	13,145,234	-

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.

Investment Year	RTEP Projected Rev. Req't.From Prior Year Template w/o Incentives	RTEP Projected Rev. Req't.From Prior Year Template with Incentives **
2015	$ 559,098	$ 559,098
2016	$ 620,362	$ 620,362
2017	$ 646,844	$ 646,844
2018	$ 506,029	$ 506,029
2019	$ 492,430	$ 492,340
2020	$ 474,754	$ 474,754

** 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.

OPCo 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	**321,383**
Current Projected Year ARR w/ Incentive	**321,383**
Current Projected Year Incentive ARR	-

Details			
Investment	2,169,182	Current Year	**2021**
Service Year (yyyy)	2015	ROE increase accepted by FERC (Basis Points)	-
Service Month (1-12)	12	FCR w/o incentives, less depreciation	14.34%
Useful life	44	FCR w/incentives approved for these facilities, less dep.	14.34%
CIAC (Yes or No)	No	Annual Depreciation Expense	49,300

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	2,169,182	-	2,169,182	310,953	####### #######	$ -
2016	2,169,182	49,300	2,119,882	356,719	356,719	$ -
2017	2,119,882	49,300	2,070,583	349,652	349,652	$ -
2018	2,070,583	49,300	2,021,283	342,585	342,585	$ -
2019	2,021,283	49,300	1,971,984	335,517	335,517	$ -
2020	1,971,984	49,300	1,922,684	328,450	328,450	$ -
2021	1,922,684	49,300	1,873,384	321,383	321,383	$ -
2022	1,873,384	49,300	1,824,085	314,316	314,316	$ -
2023	1,824,085	49,300	1,774,785	307,249	307,249	$ -
2024	1,774,785	49,300	1,725,486	300,182	300,182	$ -
2025	1,725,486	49,300	1,676,186	293,115	293,115	$ -
2026	1,676,186	49,300	1,626,887	286,048	286,048	$ -
2027	1,626,887	49,300	1,577,587	278,981	278,981	$ -
2028	1,577,587	49,300	1,528,287	271,913	271,913	$ -
2029	1,528,287	49,300	1,478,988	264,846	264,846	$ -
2030	1,478,988	49,300	1,429,688	257,779	257,779	$ -
2031	1,429,688	49,300	1,380,389	250,712	250,712	$ -
2032	1,380,389	49,300	1,331,089	243,645	243,645	$ -
2033	1,331,089	49,300	1,281,789	236,578	236,578	$ -
2034	1,281,789	49,300	1,232,490	229,511	229,511	$ -
2035	1,232,490	49,300	1,183,190	222,444	222,444	$ -
2036	1,183,190	49,300	1,133,891	215,377	215,377	$ -
2037	1,133,891	49,300	1,084,591	208,310	208,310	$ -
2038	1,084,591	49,300	1,035,291	201,242	201,242	$ -
2039	1,035,291	49,300	985,992	194,175	194,175	$ -
2040	985,992	49,300	936,692	187,108	187,108	$ -
2041	936,692	49,300	887,393	180,041	180,041	$ -
2042	887,393	49,300	838,093	172,974	172,974	$ -
2043	838,093	49,300	788,793	165,907	165,907	$ -
2044	788,793	49,300	739,494	158,840	158,840	$ -
2045	739,494	49,300	690,194	151,773	151,773	$ -
2046	690,194	49,300	640,895	144,706	144,706	$ -
2047	640,895	49,300	591,595	137,638	137,638	$ -
2048	591,595	49,300	542,296	130,571	130,571	$ -
2049	542,296	49,300	492,996	123,504	123,504	$ -
2050	492,996	49,300	443,696	116,437	116,437	$ -
2051	443,696	49,300	394,397	109,370	109,370	$ -
2052	394,397	49,300	345,097	102,303	102,303	$ -
2053	345,097	49,300	295,798	95,236	95,236	$ -
2054	295,798	49,300	246,498	88,169	88,169	$ -
2055	246,498	49,300	197,198	81,102	81,102	$ -
2056	197,198	49,300	147,899	74,034	74,034	$ -
2057	147,899	49,300	98,599	66,967	66,967	$ -
2058	98,599	49,300	49,300	59,900	59,900	$ -
2059	49,300	49,300	0	52,833	52,833	$ -
2060	0	0	-	0	0	$ -
2061	-	-	-	-	-	$ -
2062	-	-	-	-	-	$ -
2063	-	-	-	-	-	$ -
2064	-	-	-	-	-	$ -
2065	-	-	-	-	-	$ -
2066	-	-	-	-	-	$ -
2067	-	-	-	-	-	$ -
2068	-	-	-	-	-	$ -
2069	-	-	-	-	-	$ -
2070	-	-	-	-	-	$ -
2071	-	-	-	-	-	$ -
2072	-	-	-	-	-	$ -
2073	-	-	-	-	-	$ -
2074	-	-	-	-	-	$ -
Project Totals				9,321,095	9,321,095	-

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.

Investment Year	**RTEP Projected Rev. Req't.From Prior Year Template w/o Incentives**		**RTEP Projected Rev. Req't.From Prior Year Template with Incentives ****		
2015	$ 265,269		$ 265,269		
2016	$ 405,050		$ 405,050		
2017	$ 419,228		$ 419,228		
2018	$ 326,706		$ 326,706		
2019	$ 349,175		$ 349,175		
2020	$ 336,641		$ 336,641		

** 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.

OPCo 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: b1962 (Add four 765 kV breakers at Kammer)**

Current Projected Year ARR	**91,971**
Current Projected Year ARR w/ Incentive	**91,971**
Current Projected Year Incentive ARR	-

Details			
Investment	620,757	Current Year	**2021**
Service Year (yyyy)	2,015	ROE increase accepted by FERC (Basis Points)	-
Service Month (1-12)	12	FCR w/o incentives, less depreciation	14.34%
Useful life	44	FCR w/incentives approved for these facilities, less dep.	14.34%
CIAC (Yes or No)	No	Annual Depreciation Expense	14,108

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	620,757	-	620,757	88,986	###### ########	$ -
2016	620,757	14,108	606,649	102,083	102,083	$ -
2017	606,649	14,108	592,541	100,060	100,060	$ -
2018	592,541	14,108	578,433	98,038	98,038	$ -
2019	578,433	14,108	564,325	96,015	96,015	$ -
2020	564,325	14,108	550,216	93,993	93,993	$ -
2021	550,216	14,108	536,108	91,971	91,971	$ -
2022	536,108	14,108	522,000	89,948	89,948	$ -
2023	522,000	14,108	507,892	87,926	87,926	$ -
2024	507,892	14,108	493,784	85,903	85,903	$ -
2025	493,784	14,108	479,676	83,881	83,881	$ -
2026	479,676	14,108	465,568	81,859	81,859	$ -
2027	465,568	14,108	451,460	79,836	79,836	$ -
2028	451,460	14,108	437,352	77,814	77,814	$ -
2029	437,352	14,108	423,243	75,791	75,791	$ -
2030	423,243	14,108	409,135	73,769	73,769	$ -
2031	409,135	14,108	395,027	71,747	71,747	$ -
2032	395,027	14,108	380,919	69,724	69,724	$ -
2033	380,919	14,108	366,811	67,702	67,702	$ -
2034	366,811	14,108	352,703	65,679	65,679	$ -
2035	352,703	14,108	338,595	63,657	63,657	$ -
2036	338,595	14,108	324,487	61,635	61,635	$ -
2037	324,487	14,108	310,379	59,612	59,612	$ -
2038	310,379	14,108	296,270	57,590	57,590	$ -
2039	296,270	14,108	282,162	55,567	55,567	$ -
2040	282,162	14,108	268,054	53,545	53,545	$ -
2041	268,054	14,108	253,946	51,523	51,523	$ -
2042	253,946	14,108	239,838	49,500	49,500	$ -
2043	239,838	14,108	225,730	47,478	47,478	$ -
2044	225,730	14,108	211,622	45,455	45,455	$ -
2045	211,622	14,108	197,514	43,433	43,433	$ -
2046	197,514	14,108	183,405	41,411	41,411	$ -
2047	183,405	14,108	169,297	39,388	39,388	$ -
2048	169,297	14,108	155,189	37,366	37,366	$ -
2049	155,189	14,108	141,081	35,343	35,343	$ -
2050	141,081	14,108	126,973	33,321	33,321	$ -
2051	126,973	14,108	112,865	31,299	31,299	$ -
2052	112,865	14,108	98,757	29,276	29,276	$ -
2053	98,757	14,108	84,649	27,254	27,254	$ -
2054	84,649	14,108	70,541	25,231	25,231	$ -
2055	70,541	14,108	56,432	23,209	23,209	$ -
2056	56,432	14,108	42,324	21,187	21,187	$ -
2057	42,324	14,108	28,216	19,164	19,164	$ -
2058	28,216	14,108	14,108	17,142	17,142	$ -
2059	14,108	14,108	-	15,119	15,119	$ -
2060	-	-	-	-	-	$ -
2061	-	-	-	-	-	$ -
2062	-	-	-	-	-	$ -
2063	-	-	-	-	-	$ -
2064	-	-	-	-	-	$ -
2065	-	-	-	-	-	$ -
2066	-	-	-	-	-	$ -
2067	-	-	-	-	-	$ -
2068	-	-	-	-	-	$ -
2069	-	-	-	-	-	$ -
2070	-	-	-	-	-	$ -
2071	-	-	-	-	-	$ -
2072	-	-	-	-	-	$ -
2073	-	-	-	-	-	$ -
2074	-	-	-	-	-	$ -
Project Totals				2,667,427	2,667,427	-

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 **		
$ 63,382		$ 63,382		
$ -		$ -		
$ 28,232		$ 28,232		
$ -		$ -		
$ 99,924		$ 99,924		
$ 96,337		$ 96,337		

** 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.

OPCo 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: b2019 (Establish Burger 345/138 kV station)**

Current Projected Year ARR	**1,015,315**
Current Projected Year ARR w/ Incentive	**1,015,315**
Current Projected Year Incentive ARR	-

Details			
Investment	6,852,888	Current Year	**2021**
Service Year (yyyy)	2015	ROE increase accepted by FERC (Basis Points)	-
Service Month (1-12)	12	FCR w/o incentives, less depreciation	14.34%
Useful life	44	FCR w/incentives approved for these facilities, less dep.	14.34%
CIAC (Yes or No)	No	Annual Depreciation Expense	155,747

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.

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 **		
2015	6,852,888	-	6,852,888	982,363	####### #######	$ -	$ 1,039,339		$ 1,039,339		
2016	6,852,888	155,747	6,697,141	1,126,947	1,126,947	$ -	$ 1,387,490		$ 1,387,490		
2017	6,697,141	155,747	6,541,393	1,104,621	1,104,621	$ -	$ 1,411,523		$ 1,411,523		
2018	6,541,393	155,747	6,385,646	1,082,294	1,082,294	$ -	$ 1,133,578		$ 1,133,578		
2019	6,385,646	155,747	6,229,898	1,059,968	1,059,968	$ -	$ 1,103,114		$ 1,103,114		
2020	6,229,898	155,747	6,074,151	1,037,642	1,037,642	$ -	$ 1,063,519		$ 1,063,519		
2021	6,074,151	155,747	5,918,403	1,015,315	1,015,315	$ -					
2022	5,918,403	155,747	5,762,656	992,989	992,989	$ -					
2023	5,762,656	155,747	5,606,908	970,662	970,662	$ -					
2024	5,606,908	155,747	5,451,161	948,336	948,336	$ -					
2025	5,451,161	155,747	5,295,413	926,009	926,009	$ -					
2026	5,295,413	155,747	5,139,666	903,683	903,683	$ -					
2027	5,139,666	155,747	4,983,919	881,357	881,357	$ -					
2028	4,983,919	155,747	4,828,171	859,030	859,030	$ -					
2029	4,828,171	155,747	4,672,424	836,704	836,704	$ -					
2030	4,672,424	155,747	4,516,676	814,377	814,377	$ -					
2031	4,516,676	155,747	4,360,929	792,051	792,051	$ -					
2032	4,360,929	155,747	4,205,181	769,724	769,724	$ -					
2033	4,205,181	155,747	4,049,434	747,398	747,398	$ -					
2034	4,049,434	155,747	3,893,686	725,072	725,072	$ -					
2035	3,893,686	155,747	3,737,939	702,745	702,745	$ -					
2036	3,737,939	155,747	3,582,191	680,419	680,419	$ -					
2037	3,582,191	155,747	3,426,444	658,092	658,092	$ -					
2038	3,426,444	155,747	3,270,697	635,766	635,766	$ -					
2039	3,270,697	155,747	3,114,949	613,439	613,439	$ -					
2040	3,114,949	155,747	2,959,202	591,113	591,113	$ -					
2041	2,959,202	155,747	2,803,454	568,786	568,786	$ -					
2042	2,803,454	155,747	2,647,707	546,460	546,460	$ -					
2043	2,647,707	155,747	2,491,959	524,134	524,134	$ -					
2044	2,491,959	155,747	2,336,212	501,807	501,807	$ -					
2045	2,336,212	155,747	2,180,464	479,481	479,481	$ -					
2046	2,180,464	155,747	2,024,717	457,154	457,154	$ -					
2047	2,024,717	155,747	1,868,969	434,828	434,828	$ -					
2048	1,868,969	155,747	1,713,222	412,501	412,501	$ -					
2049	1,713,222	155,747	1,557,475	390,175	390,175	$ -					
2050	1,557,475	155,747	1,401,727	367,849	367,849	$ -					
2051	1,401,727	155,747	1,245,980	345,522	345,522	$ -					
2052	1,245,980	155,747	1,090,232	323,196	323,196	$ -					
2053	1,090,232	155,747	934,485	300,869	300,869	$ -					
2054	934,485	155,747	778,737	278,543	278,543	$ -					
2055	778,737	155,747	622,990	256,216	256,216	$ -					
2056	622,990	155,747	467,242	233,890	233,890	$ -					
2057	467,242	155,747	311,495	211,564	211,564	$ -					
2058	311,495	155,747	155,747	189,237	189,237	$ -					
2059	155,747	155,747	0	166,911	166,911	$ -					
2060	0	0	-	0	0	$ -					
2061	-	-	-	-	-	$ -					
2062	-	-	-	-	-	$ -					
2063	-	-	-	-	-	$ -					
2064	-	-	-	-	-	$ -					
2065	-	-	-	-	-	$ -					
2066	-	-	-	-	-	$ -					
2067	-	-	-	-	-	$ -					
2068	-	-	-	-	-	$ -					
2069	-	-	-	-	-	$ -					
2070	-	-	-	-	-	$ -					
2071	-	-	-	-	-	$ -					
2072	-	-	-	-	-	$ -					
2073	-	-	-	-	-	$ -					
2074	-	-	-	-	-	$ -					
Project Totals				29,447,239	29,447,239	-					

** 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.

OPCo 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: b2017 (Reconductor or rebuild Sporn - Waterford - Muskingum River 345 kV line)**

Current Projected Year ARR	**891,359**
Current Projected Year ARR w/ Incentive	**891,359**
Current Projected Year Incentive ARR	-

Details			
Investment	6,094,421	Current Year	**2021**
Service Year (yyyy)	2015	ROE increase accepted by FERC (Basis Points)	-
Service Month (1-12)	5	FCR w/o incentives, less depreciation	14.34%
Useful life	44	FCR w/incentives approved for these facilities, less dep.	14.34%
CIAC (Yes or No)	No	Annual Depreciation Expense	138,510

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	6,094,421	80,797	6,013,624	948,643	####### #######	$ -
2016	6,013,624	138,510	5,875,114	990,636	990,636	$ -
2017	5,875,114	138,510	5,736,605	970,781	970,781	$ -
2018	5,736,605	138,510	5,598,095	950,925	950,925	$ -
2019	5,598,095	138,510	5,459,585	931,070	931,070	$ -
2020	5,459,585	138,510	5,321,076	911,215	911,215	$ -
2021	5,321,076	138,510	5,182,566	891,359	891,359	$ -
2022	5,182,566	138,510	5,044,057	871,504	871,504	$ -
2023	5,044,057	138,510	4,905,547	851,649	851,649	$ -
2024	4,905,547	138,510	4,767,038	831,793	831,793	$ -
2025	4,767,038	138,510	4,628,528	811,938	811,938	$ -
2026	4,628,528	138,510	4,490,019	792,082	792,082	$ -
2027	4,490,019	138,510	4,351,509	772,227	772,227	$ -
2028	4,351,509	138,510	4,212,999	752,372	752,372	$ -
2029	4,212,999	138,510	4,074,490	732,516	732,516	$ -
2030	4,074,490	138,510	3,935,980	712,661	712,661	$ -
2031	3,935,980	138,510	3,797,471	692,806	692,806	$ -
2032	3,797,471	138,510	3,658,961	672,950	672,950	$ -
2033	3,658,961	138,510	3,520,452	653,095	653,095	$ -
2034	3,520,452	138,510	3,381,942	633,239	633,239	$ -
2035	3,381,942	138,510	3,243,432	613,384	613,384	$ -
2036	3,243,432	138,510	3,104,923	593,529	593,529	$ -
2037	3,104,923	138,510	2,966,413	573,673	573,673	$ -
2038	2,966,413	138,510	2,827,904	553,818	553,818	$ -
2039	2,827,904	138,510	2,689,394	533,963	533,963	$ -
2040	2,689,394	138,510	2,550,885	514,107	514,107	$ -
2041	2,550,885	138,510	2,412,375	494,252	494,252	$ -
2042	2,412,375	138,510	2,273,865	474,396	474,396	$ -
2043	2,273,865	138,510	2,135,356	454,541	454,541	$ -
2044	2,135,356	138,510	1,996,846	434,686	434,686	$ -
2045	1,996,846	138,510	1,858,337	414,830	414,830	$ -
2046	1,858,337	138,510	1,719,827	394,975	394,975	$ -
2047	1,719,827	138,510	1,581,318	375,119	375,119	$ -
2048	1,581,318	138,510	1,442,808	355,264	355,264	$ -
2049	1,442,808	138,510	1,304,298	335,409	335,409	$ -
2050	1,304,298	138,510	1,165,789	315,553	315,553	$ -
2051	1,165,789	138,510	1,027,279	295,698	295,698	$ -
2052	1,027,279	138,510	888,770	275,843	275,843	$ -
2053	888,770	138,510	750,260	255,987	255,987	$ -
2054	750,260	138,510	611,751	236,132	236,132	$ -
2055	611,751	138,510	473,241	216,276	216,276	$ -
2056	473,241	138,510	334,731	196,421	196,421	$ -
2057	334,731	138,510	196,222	176,566	176,566	$ -
2058	196,222	138,510	57,712	156,710	156,710	$ -
2059	57,712	57,712	-	61,849	61,849	$ -
2060	-	-	-	-	-	$ -
2061	-	-	-	-	-	$ -
2062	-	-	-	-	-	$ -
2063	-	-	-	-	-	$ -
2064	-	-	-	-	-	$ -
2065	-	-	-	-	-	$ -
2066	-	-	-	-	-	$ -
2067	-	-	-	-	-	$ -
2068	-	-	-	-	-	$ -
2069	-	-	-	-	-	$ -
2070	-	-	-	-	-	$ -
2071	-	-	-	-	-	$ -
2072	-	-	-	-	-	$ -
2073	-	-	-	-	-	$ -
2074	-	-	-	-	-	$ -
Project Totals				25,678,443	25,678,443	-

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 **		
$ 805,154		$ 805,154		
$ 1,159,062		$ 1,159,062		
$ 1,177,370		$ 1,177,370		
$ 974,758		$ 974,758		
$ 948,328		$ 948,328		
$ 914,070		$ 914,070		

** 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.

OPCo 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: b1032.3 (Convert Ross - Circleville 69kV to 138kV)**

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

Details			
Investment	-	Current Year	**2021**
Service Year (yyyy)	2015	ROE increase accepted by FERC (Basis Points)	-
Service Month (1-12)	6	FCR w/o incentives, less depreciation	14.34%
Useful life	44	FCR w/incentives approved for these facilities, less dep.	14.34%
CIAC (Yes or No)	No	Annual Depreciation Expense	-

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.

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 **		
2015	-	-	-	-	-	$ -	$ -		$ -		
2016	-	-	-	-	-	$ -	$ 935,319		$ 935,319		
2017	-	-	-	-	-	$ -	$ 1,027,649		$ 1,024,649		
2018	-	-	-	-	-	$ -	$ -		$ -		
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	-	-	-	-	-	$ -					
2074	-	-	-	-	-	$ -					
Project Totals				-	-	-					

** 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.

OPCo 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 (Two 138kV outlets to Delano and Camp Sherman)**

Current Projected Year ARR	**93,566**
Current Projected Year ARR w/ Incentive	**93,566**
Current Projected Year Incentive ARR	-

Details			
Investment	598,619	Current Year	**2021**
Service Year (yyyy)	2018	ROE increase accepted by FERC (Basis Points)	-
Service Month (1-12)	6	FCR w/o incentives, less depreciation	14.34%
Useful life	44	FCR w/incentives approved for these facilities, less dep.	14.34%
CIAC (Yes or No)	No	Annual Depreciation Expense	13,605

Investment Year	Beginning Balance	Depreciation Expense	Ending Balance	RTEP Rev. Req't. w/o Incentives	RTEP Rev. Req't. with Incentives **	Incentive Rev. Requirement ##
2018	598,619	6,802	591,817	92,127	###### ########	$ -
2019	591,817	13,605	578,212	97,467	97,467	$ -
2020	578,212	13,605	564,607	95,517	95,517	$ -
2021	564,607	13,605	551,002	93,566	93,566	$ -
2022	551,002	13,605	537,397	91,616	91,616	$ -
2023	537,397	13,605	523,792	89,666	89,666	$ -
2024	523,792	13,605	510,187	87,715	87,715	$ -
2025	510,187	13,605	496,582	85,765	85,765	$ -
2026	496,582	13,605	482,977	83,815	83,815	$ -
2027	482,977	13,605	469,372	81,865	81,865	$ -
2028	469,372	13,605	455,767	79,914	79,914	$ -
2029	455,767	13,605	442,162	77,964	77,964	$ -
2030	442,162	13,605	428,557	76,014	76,014	$ -
2031	428,557	13,605	414,952	74,064	74,064	$ -
2032	414,952	13,605	401,347	72,113	72,113	$ -
2033	401,347	13,605	387,742	70,163	70,163	$ -
2034	387,742	13,605	374,137	68,213	68,213	$ -
2035	374,137	13,605	360,532	66,262	66,262	$ -
2036	360,532	13,605	346,927	64,312	64,312	$ -
2037	346,927	13,605	333,322	62,362	62,362	$ -
2038	333,322	13,605	319,717	60,412	60,412	$ -
2039	319,717	13,605	306,112	58,461	58,461	$ -
2040	306,112	13,605	292,507	56,511	56,511	$ -
2041	292,507	13,605	278,902	54,561	54,561	$ -
2042	278,902	13,605	265,297	52,611	52,611	$ -
2043	265,297	13,605	251,692	50,660	50,660	$ -
2044	251,692	13,605	238,087	48,710	48,710	$ -
2045	238,087	13,605	224,482	46,760	46,760	$ -
2046	224,482	13,605	210,877	44,809	44,809	$ -
2047	210,877	13,605	197,272	42,859	42,859	$ -
2048	197,272	13,605	183,667	40,909	40,909	$ -
2049	183,667	13,605	170,062	38,959	38,959	$ -
2050	170,062	13,605	156,457	37,008	37,008	$ -
2051	156,457	13,605	142,852	35,058	35,058	$ -
2052	142,852	13,605	129,247	33,108	33,108	$ -
2053	129,247	13,605	115,642	31,157	31,157	$ -
2054	115,642	13,605	102,037	29,207	29,207	$ -
2055	102,037	13,605	88,432	27,257	27,257	$ -
2056	88,432	13,605	74,827	25,307	25,307	$ -
2057	74,827	13,605	61,222	23,356	23,356	$ -
2058	61,222	13,605	47,617	21,406	21,406	$ -
2059	47,617	13,605	34,012	19,456	19,456	$ -
2060	34,012	13,605	20,407	17,506	17,506	$ -
2061	20,407	13,605	6,802	15,555	15,555	$ -
2062	6,802	6,802	-	7,290	7,290	$ -
2063	-	-	-	-	-	$ -
2064	-	-	-	-	-	$ -
2065	-	-	-	-	-	$ -
2066	-	-	-	-	-	$ -
2067	-	-	-	-	-	$ -
2068	-	-	-	-	-	$ -
2069	-	-	-	-	-	$ -
2070	-	-	-	-	-	$ -
2071	-	-	-	-	-	$ -
2072	-	-	-	-	-	$ -
2073	-	-	-	-	-	$ -
2074	-	-	-	-	-	$ -
2075	-	-	-	-	-	$ -
2076	-	-	-	-	-	$ -
2077	-	-	-	-	-	$ -
Project Totals				2,529,393	2,529,393	-

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 **		
$ 836,737		$ 836,737		
$ 2,185		$ 2,185		
$ 97,920		$ 97,920		

** 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.

OPCo 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/ 345/138 kV xfmr. and cut in double circuit tower li**

Current Projected Year ARR	**36,251**
Current Projected Year ARR w/ Incentive	**36,251**
Current Projected Year Incentive ARR	-

Details			
Investment	242,015	Current Year	**2021**
Service Year (yyyy)	2016	ROE increase accepted by FERC (Basis Points)	-
Service Month (1-12)	6	FCR w/o incentives, less depreciation	14.34%
Useful life	44	FCR w/incentives approved for these facilities, less dep.	14.34%
CIAC (Yes or No)	No	Annual Depreciation Expense	5,500

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.

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 **		
2016	242,015	2,750	239,265	37,246	###### ########	$ -	$ -		$ -		
2017	239,265	5,500	233,764	39,405	39,405	$ -	$ 51,695		$ 51,695		
2018	233,764	5,500	228,264	38,616	38,616	$ -	$ 40,449		$ 40,449		
2019	228,264	5,500	222,764	37,828	37,828	$ -	$ 39,370		$ 39,370		
2020	222,764	5,500	217,263	37,039	37,039	$ -	$ 37,965		$ 37,965		
2021	217,263	5,500	211,763	36,251	36,251	$ -					
2022	211,763	5,500	206,263	35,462	35,462	$ -					
2023	206,263	5,500	200,762	34,674	34,674	$ -					
2024	200,762	5,500	195,262	33,885	33,885	$ -					
2025	195,262	5,500	189,762	33,097	33,097	$ -					
2026	189,762	5,500	184,261	32,308	32,308	$ -					
2027	184,261	5,500	178,761	31,520	31,520	$ -					
2028	178,761	5,500	173,261	30,732	30,732	$ -					
2029	173,261	5,500	167,760	29,943	29,943	$ -					
2030	167,760	5,500	162,260	29,155	29,155	$ -					
2031	162,260	5,500	156,760	28,366	28,366	$ -					
2032	156,760	5,500	151,259	27,578	27,578	$ -					
2033	151,259	5,500	145,759	26,789	26,789	$ -					
2034	145,759	5,500	140,259	26,001	26,001	$ -					
2035	140,259	5,500	134,758	25,212	25,212	$ -					
2036	134,758	5,500	129,258	24,424	24,424	$ -					
2037	129,258	5,500	123,758	23,635	23,635	$ -					
2038	123,758	5,500	118,257	22,847	22,847	$ -					
2039	118,257	5,500	112,757	22,058	22,058	$ -					
2040	112,757	5,500	107,257	21,270	21,270	$ -					
2041	107,257	5,500	101,756	20,481	20,481	$ -					
2042	101,756	5,500	96,256	19,693	19,693	$ -					
2043	96,256	5,500	90,756	18,904	18,904	$ -					
2044	90,756	5,500	85,255	18,116	18,116	$ -					
2045	85,255	5,500	79,755	17,327	17,327	$ -					
2046	79,755	5,500	74,255	16,539	16,539	$ -					
2047	74,255	5,500	68,754	15,751	15,751	$ -					
2048	68,754	5,500	63,254	14,962	14,962	$ -					
2049	63,254	5,500	57,754	14,174	14,174	$ -					
2050	57,754	5,500	52,253	13,385	13,385	$ -					
2051	52,253	5,500	46,753	12,597	12,597	$ -					
2052	46,753	5,500	41,253	11,808	11,808	$ -					
2053	41,253	5,500	35,752	11,020	11,020	$ -					
2054	35,752	5,500	30,252	10,231	10,231	$ -					
2055	30,252	5,500	24,752	9,443	9,443	$ -					
2056	24,752	5,500	19,251	8,654	8,654	$ -					
2057	19,251	5,500	13,751	7,866	7,866	$ -					
2058	13,751	5,500	8,251	7,077	7,077	$ -					
2059	8,251	5,500	2,750	6,289	6,289	$ -					
2060	2,750	2,750	-	2,947	2,947	$ -					
2061	-	-	-	-	-	$ -					
2062	-	-	-	-	-	$ -					
2063	-	-	-	-	-	$ -					
2064	-	-	-	-	-	$ -					
2065	-	-	-	-	-	$ -					
2066	-	-	-	-	-	$ -					
2067	-	-	-	-	-	$ -					
2068	-	-	-	-	-	$ -					
2069	-	-	-	-	-	$ -					
2070	-	-	-	-	-	$ -					
2071	-	-	-	-	-	$ -					
2072	-	-	-	-	-	$ -					
2073	-	-	-	-	-	$ -					
2074	-	-	-	-	-	$ -					
2075	-	-	-	-	-	$ -					
Project Totals				1,022,605	1,022,605	-					

** 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.

OPCo 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 the Ohio Central transformer #1 450 MVA for 675 MVA transformer)**

Current Projected Year ARR	**1,240**
Current Projected Year ARR w/ Incentive	**1,240**
Current Projected Year Incentive ARR	**-**

Details			
Investment	8,640	Current Year	**2021**
Service Year (yyyy)	2014	ROE increase accepted by FERC (Basis Points)	-
Service Month (1-12)	7	FCR w/o incentives, less depreciation	14.34%
Useful life	44	FCR w/incentives approved for these facilities, less dep.	14.34%
CIAC (Yes or No)	No	Annual Depreciation Expense	196

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.

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	8,640	82	8,558	1,315	##### #########	$ -	$ -	$ -
2015	8,558	196	8,362	1,409	1,409	$ -	$ -	$ -
2016	8,362	196	8,166	1,381	1,381	$ -		
2017	8,166	196	7,969	1,353	1,353	$ -		
2018	7,969	196	7,773	1,325	1,325	$ -	$ 1,387	$ 1,387
2019	7,773	196	7,576	1,297	1,297	$ -	$ 1,349	$ 1,349
2020	7,576	196	7,380	1,268	1,268	$ -	$ 2,796	$ 2,796
2021	7,380	196	7,184	1,240	1,240	$ -		
2022	7,184	196	6,987	1,212	1,212	$ -		
2023	6,987	196	6,791	1,184	1,184	$ -		
2024	6,791	196	6,595	1,156	1,156	$ -		
2025	6,595	196	6,398	1,128	1,128	$ -		
2026	6,398	196	6,202	1,099	1,099	$ -		
2027	6,202	196	6,006	1,071	1,071	$ -		
2028	6,006	196	5,809	1,043	1,043	$ -		
2029	5,809	196	5,613	1,015	1,015	$ -		
2030	5,613	196	5,416	987	987	$ -		
2031	5,416	196	5,220	959	959	$ -		
2032	5,220	196	5,024	931	931	$ -		
2033	5,024	196	4,827	902	902	$ -		
2034	4,827	196	4,631	874	874	$ -		
2035	4,631	196	4,435	846	846	$ -		
2036	4,435	196	4,238	818	818	$ -		
2037	4,238	196	4,042	790	790	$ -		
2038	4,042	196	3,845	762	762	$ -		
2039	3,845	196	3,649	734	734	$ -		
2040	3,649	196	3,453	705	705	$ -		
2041	3,453	196	3,256	677	677	$ -		
2042	3,256	196	3,060	649	649	$ -		
2043	3,060	196	2,864	621	621	$ -		
2044	2,864	196	2,667	593	593	$ -		
2045	2,667	196	2,471	565	565	$ -		
2046	2,471	196	2,275	536	536	$ -		
2047	2,275	196	2,078	508	508	$ -		
2048	2,078	196	1,882	480	480	$ -		
2049	1,882	196	1,685	452	452	$ -		
2050	1,685	196	1,489	424	424	$ -		
2051	1,489	196	1,293	396	396	$ -		
2052	1,293	196	1,096	368	368	$ -		
2053	1,096	196	900	339	339	$ -		
2054	900	196	704	311	311	$ -		
2055	704	196	507	283	283	$ -		
2056	507	196	311	255	255	$ -		
2057	311	196	115	227	227	$ -		
2058	115	115	-	123	123	$ -		
2059	-	-	-	-	-	$ -		
2060	-	-	-	-	-	$ -		
2061	-	-	-	-	-	$ -		
2062	-	-	-	-	-	$ -		
2063	-	-	-	-	-	$ -		
2064	-	-	-	-	-	$ -		
2065	-	-	-	-	-	$ -		
2066	-	-	-	-	-	$ -		
2067	-	-	-	-	-	$ -		
2068	-	-	-	-	-	$ -		
2069	-	-	-	-	-	$ -		
2070	-	-	-	-	-	$ -		
2071	-	-	-	-	-	$ -		
2072	-	-	-	-	-	$ -		
2073	-	-	-	-	-	$ -		
Project Totals				36,611	36,611	-		

** 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.

OPCo 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 the Maddox Creek - East Lima 345 kV circuit)**

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

Details			
Investment	-	Current Year	**2021**
Service Year (yyyy)	2019	ROE increase accepted by FERC (Basis Points)	-
Service Month (1-12)	7	FCR w/o incentives, less depreciation	14.34%
Useful life	44	FCR w/incentives approved for these facilities, less dep.	14.34%
CIAC (Yes or No)	No	Annual Depreciation Expense	-

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.

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 **		
2019	-	-	-	-	-	$ -	$ 787,895		$ 787,895		
2020	-	-	-	-	-	$ -	$ 1,123,919		$ 1,123,919		
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	-	-	-	-	-	$ -					
2074	-	-	-	-	-	$ -					
2075	-	-	-	-	-	$ -					
2076	-	-	-	-	-	$ -					
2077	-	-	-	-	-	$ -					
2078	-	-	-	-	-	$ -					
Project Totals				-	-	-					

** 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.

AEP East Companies
Cost of Service Formula Rate Using 2021 FF1 Balances
Worksheet L Reserved for Future Use
Ohio Power Company

AEP East Companies
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet M Supporting Calculation of Capital Structure and Weighted Average Cost of Capital
Ohio Power Company

Line No	Month (a)	Proprietary Capital (b)	Less: Preferred Stock (c)	Less Undistributed Sub Earnings (Acct 216.1) (d)	Less AOCI (Acct 219.1) (e)	Average Balance of Common Equity (f)=(b)-(c)-(d)-(e)
		Average Balance of Common Equity				
	(Note A)	(FF1 112.16)	(FF1 250-251)	(FF1 112.12)	(FF1 112.15)	
1	December Prior to Rate Year	2,689,049,000		4,916,000	(269,000)	2,684,402,000
2	January	2,714,793,000		4,916,000	(345,000)	2,710,222,000
3	February	2,711,842,000		4,916,000	(421,000)	2,707,347,000
4	March	2,731,814,000		4,916,000	(497,000)	2,727,395,000
5	April	2,743,622,000		4,916,000	(573,000)	2,739,279,000
6	May	2,714,258,000		4,916,000	(648,000)	2,709,990,000
7	June	2,744,704,000		4,916,000	(724,000)	2,740,512,000
8	July	2,770,441,000		4,916,000	(800,000)	2,766,325,000
9	August	2,751,503,000		4,916,000	(876,000)	2,747,463,000
10	September	2,765,683,000		4,916,000	(952,000)	2,761,719,000
11	October	2,778,592,000		4,916,000	(952,000)	2,774,628,000
12	November	2,750,694,000		4,916,000	(952,000)	2,746,730,000
13	December of Rate Year	2,773,010,000		4,916,000	(952,000)	2,769,046,000
14	Average of the 13 Monthly Balances	2,741,539,000	-	4,916,000	(689,000)	2,737,312,154

Line No	Month (a)	Acct 221 Bonds (b)	Less: Acct 222 Reacquired Bonds (c)	Acct 223 LT Advances from Assoc. Companies (d)	Acct 224 Senior Unsecured Notes (e)	Less: Fair Value Hedges (f)	Gross Proceeds Outstanding Long-Term Debt (g)=(b)-(c)+(d)+(e)-(f)
		Average Balance of Long Term Debt					
	(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				2,450,883,000		2,450,883,000
16	January				2,450,883,000		2,450,883,000
17	February				2,450,883,000		2,450,883,000
18	March				2,850,883,000		2,850,883,000
19	April				2,850,883,000		2,850,883,000
20	May				2,850,883,000		2,850,883,000
21	June				2,850,883,000		2,850,883,000
22	July				2,850,883,000		2,850,883,000
23	August				2,850,883,000		2,850,883,000
24	September				3,650,883,000		3,650,883,000
25	October				3,150,883,000		3,150,883,000
26	November				3,150,883,000		3,150,883,000
27	December of Rate Year				3,150,883,000		3,150,883,000
28	Average of the 13 Monthly Balances	-	-	-	2,889,345,000	-	2,889,344,538

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)

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

	(a)	(b)	(c)	(d)	(e)	(f)	(g)
29	**Annual Interest Expense for 2021**						
30	Interest on Long Term Debt - Accts 221 - 224 (256-257.33.i)			129,754,000			
31	Less: Total Hedge Gain/Expense Accumulated from p 256-257, col. (i) of FERC Form 1 included in Ln 30 and shown in 50 below.			1,189,000			
32	Plus: Allowed Hedge Recovery From Ln 55 below.			1,189,000			
33	Amort of Debt Discount & Expense - Acct 428 (117.63.c)			1,655,000			
34	Amort of Loss on Reacquired Debt - Acct 428.1 (117.64.c)			442,000			
35	Less: Amort of Premium on Debt - Acct 429 (117.65.c)						
36	Less: Amort of Gain on Reacquired Debt - Acct 429.1 (117.66.c)						
37	**Total Interest Expense (Ln 30 - 31 + 33 + 34 - 35 - 36)**			131,851,000			
38	**Average Cost of Debt for 2021 (Ln 37/ ln 28 (g))**			**4.56%**			

CALCULATION OF RECOVERABLE HEDGE GAINS/LOSSES

39 NOTE: The net amount of hedging gains or losses recorded in account 427 to be recovered in this formula rate should be limited to the effective portion of pre-issuance cash flow hedges that are amortized over the life of the underlying debt issuances. The recovery of a net loss or passback of a net gain will be limited to five basis points of the total Capital Structure. Amounts related to the ineffective portion of pre-issuance hedges, cash settlements of fair value hedges issued on Long Term Debt, post-issuance cash flow hedges, and cash flow hedges of variable rate debt issuances are not recoverable in this formula and are to be recorded in the "Excludable" column below.

	HEDGE AMOUNTS BY ISSUANCE (FROM p. 256-257 (i) of the FERC Form 1)	Total Hedge (Gain)/Loss for 2021	Less Excludable Amounts (See NOTE on Line 39)	Net Includable Hedge Amount	Remaining Unamortized Balance	Amortization Period Beginning	Ending
40	SUN Cash Flow Hedge - 6.000%	-	-	-	-	Jun-06	Jun-16
41	SUN Cash Flow Hedge - 5.375%	1,189,000	-	1,189,000	-	Sep-09	Sep-19
42				-			
43				-			
44				-			
45				-			
46				-			
47				-			
48				-			
49					-		
50	Total Hedge Amortization	1,189,000	-				

51	Hedge Gain or Loss Prior to Application of Recovery Limit (Sum of Lines 40 to 48)	1,189,000
52	Total Average Capital Structure Balance for 2021 (TCOS, Ln 157)	5,626,656,538
53	Financial Hedge Recovery Limit - Five Basis Points of Total Capital	0.0005
54	Limit of Recoverable Amount	2,813,328
55	**Recoverable Hedge Amortization (Lesser of Ln 51 or Ln 54)**	**1,189,000**

Development of Cost of Preferred Stock

	Preferred Stock			**Average**	
56	0% Series - 0 - Dividend Rate (p. 250-251)	0.000%	0.000%		
57	0% Series - 0 - Par Value (p. 250-251)	$ -	$ -		
58	0% Series - 0 - Shares O/S (p.250-251)	-	-		
59	0% Series - 0 - Monetary Value (Ln 57 * Ln 58)	-	-	-	
60	0% Series - 0 - Dividend Amount (Ln 56 * Ln 59)	-	-	-	
61	0% Series - 0 - Dividend Rate (p. 250-251)	0.000%	0.000%		
62	0% Series - 0 - Par Value (p. 250-251)	$ -	$ -		
63	0% Series - 0 - Shares O/S (p.250-251)	-	-		
64	0% Series - 0 - Monetary Value (Ln 62 * Ln 63)	-	-	-	
65	0% Series - 0 - Dividend Amount (Ln 61 * Ln 64)	-	-	-	
66	0% Series - 0 - Dividend Rate (p. 250-251)	0.000%	0.000%		
67	0% Series - 0 - Par Value (p. 250-251)	$ -	$ -		
68	0% Series - 0 - Shares O/S (p.250-251)	-	-		
69	0% Series - 0 - Monetary Value (Ln 67 * Ln 68)	-	-	-	
70	0% Series - 0 - Dividend Amount (Ln 66 * Ln 69)	-	-	-	
71	**Balance of Preferred Stock (Lns 59, 64, 69)**	-	-	-	Year End Total Agrees to FF1 p.112, Ln 3, col (c) & (d)
72	**Dividends on Preferred Stock (Lns 60, 65, 70)**	-	-	**-**	
73	**Average Cost of Preferred Stock (Ln 72/71)**	0.00%	0.00%	**0.00%**	

AEP East Companies
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet N - Gains (Losses) on Sales of Plant Held For Future Use
Ohio Power Company

Note: Gain or loss on plant held for future are recorded in accounts 411.6 or 411.7 respectiviely. 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.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
Line	**Date**	**Property Description**	**Function (T) or (G)** T = Transmission G = General	**Basis**	**Proceeds**	**(Gain) / Loss**	**Functional Allocator**	**Functionalized Proceeds (Gain) / Loss**	**FERC Account**
1						-	0.000%	-	
2						-	0.000%	-	
3						-	0.000%	-	
4				Net (Gain) or Loss for 2021		-		-	

AEP East Companies
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet O - Calculation of Postemployment Benefits Other than Pensions Expenses Allocable to Transmission Service
Ohio Power Company

1 Total AEP East Operating Company PBOP Settlement Amount (127,042,000)

Allocation of PBOP Settlement Amount for 2021

			Total Company Amount					
Line#	**Company**	**Actual Expense (Including AEPSC Billed OPEB)**	**Ratio of Company Actual to Total**	**Allocation of PBOB Recovery Allowance**	**Labor Allocator for 2021**	**Actual Expense**	**Allowable Expense**	**One Year Functional Expense (Over)/Under**
		(A) (Line 14)	**(B)=(A)/Total (A)**	**(C)=(B) * -127042000**	**(D)**	**(E)=(A) * (D)**	**(F)=(C) * (D)**	**(G)=(E) - (F)**
2	APCo	(16,579,000)	36.54%	(46,416,231)	9.207%	(1,526,430)	(4,273,546)	2,747,116
3	I&M	(12,009,000)	26.46%	(33,621,601)	4.475%	(537,358)	(1,504,441)	967,083
4	KPCo	(3,821,000)	8.42%	(10,697,655)	7.824%	(298,953)	(836,980)	538,026
5	KNGP	(376,000)	0.83%	(1,052,687)	11.212%	(42,157)	(118,027)	75,870
6	OPCo	(11,910,000)	26.25%	(33,344,430)	11.570%	(1,377,956)	(3,857,865)	2,479,909
7	WPCo	(682,000)	1.50%	(1,909,396)	3.184%	(21,718)	(60,803)	39,085
8	**Sum of Lines 2 to 7**	(45,377,000)		(127,042,000)		(3,804,572)	(10,651,662)	6,847,090

Detail of Actual PBOP Expenses to be Removed in Cost of Service

	APCo	I&M	KPCo	KNGSPT	OPCo	WPCo	AEP East Total
9 Direct Charged PBOP Expense per Actuarial Report	(12,806,000)	(10,920,000)	(3,094,000)	(262,000)	(8,879,000)	(329,000)	(36,290,000)
10 Additional PBOP Ledger Entries (from Company Records)	351,000	1,340,000	306,000	-	-	(263,000)	
11 Medicare Subsidy	-	-	-	-	-	-	-
12 Net Company Expense (Ln 9 + Ln 10 + Ln 11)	(12,455,000)	(9,580,000)	(2,788,000)	(262,000)	(8,879,000)	(592,000)	(34,556,000)
			-				
13 PBOP Expenses From AEP Service Corporation (from Company Records)	(4,124,000)	(2,429,000)	(1,033,000)	(114,000)	(3,031,000)	(89,000)	(10,820,000)
14 Company PBOP Expense (Ln 12 + Ln 13)	(16,579,000)	(12,009,000)	(3,821,000)	(376,000)	(11,910,000)	(681,000)	(45,376,000)

For the rate year 2017 and adjusted every four years thereafter, using the annual actuarial report produced for that year, filed as part of the informational filing, Worksheet O will be used to adjust PBOP costs for the next four years (i.e. 2017, 2018, 2019, 2020). If the annual actuarial report projects PBOP costs during the next four years, taken together with the then current cumulative PBOP cost/allowance position, will, absent a change in the PBOP allowance, cause the AEP Companies to over or under collect their cumulative PBOP costs by more than 20% of the projected next four year's total cost, the PBOP allowance shall be adjusted. Worksheet O will be used in the process of updating the PBOP allowance determining (a) the level of cumulative over or under collections during the period since the PBOP allowance was last set, including carrying costs based on the weighted average cost of capital ("WACC") each year from the actual formula rate; (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 formula rate weighted average cost of capital for the prior calendar year; and (c) the cumulative net present value of continued collections over the next four years based on the then effective PBOP allowance, assuming a discount rate equal to the prior year WACC. If the absolute value of (a)+(b)-(c) exceeds 20% of (b), then the PBOP allowance used in the formula rate calculation shall be changed to the value that will cause the projected result (a)+(b)-(c) to equal zero. If the projected over or under collection during the next four years will be less than 20% of (b), then the PBOP allowacance 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 expense stated in the formula rate shown on Worksheet O. No other changes to the formula rate may be included in that filing.

AEP EAST COMPANIES
Worksheet - P CALCULATION OF
TOTAL WEIGHTED AVERAGE DEPRECIATION RATES
FOR TRANSMISSION PLANT PROPERTY ACCOUNT
EFFECTIVE AS OF 3/6/2019
FOR MULTIPLE JURISDICTION COMPANIES
Appalachian Power Company

		VIRGINIA			WEST VIRGINIA			FERC WHOLESALE			FERC KINGSPORT			COMPANY
	PLANT ACCT.	*(1) VA SCC RATES*	*ALLOCATION FACTOR (5)*	*WTD AVG. DEPREC. RATE*	*(2) PSC OF WV APPROVED RATES*	*ALLOCATION FACTOR (5)*	*WTD AVG. DEPREC. RATE*	*(3) FERC RATES*	*ALLOCATION FACTOR (5)*	*WTD AVG. DEPREC. RATE*	*(4) FERC RATES*	*ALLOCATION FACTOR (5)*	*WTD AVG. DEPREC. RATE*	*WTD AVG. DEPREC. RATE*
TRANSMISSION PLANT														
Land Rights - Va.	350.1	0.66%	1.000000	0.66%										0.66%
Energy Storage Equip	351.0				14.22%	1.000000	14.22%							14.22%
Structures & Improvements	352.0	1.55%	0.492648	0.76%	1.62%	0.414603	0.67%	2.19%	0.033874	0.07%	2.19%	0.058874	0.13%	1.63%
Station Equipment	353.0	1.95%	0.492648	0.96%	2.37%	0.414603	0.98%	2.19%	0.033874	0.07%	2.19%	0.058874	0.13%	2.14%
Towers & Fixtures	354.0	1.14%	0.492648	0.56%	1.59%	0.414603	0.66%	2.19%	0.033874	0.07%	2.19%	0.058874	0.13%	1.42%
Poles & Fixtures	355.0	2.77%	0.492648	1.36%	2.71%	0.414603	1.12%	2.19%	0.033874	0.07%	2.19%	0.058874	0.13%	2.68%
Overhead Conductor	356.0	1.01%	0.492648	0.50%	1.53%	0.414603	0.63%	2.19%	0.033874	0.07%	2.19%	0.058874	0.13%	1.33%
Underground Conduit	351.0	1.23%	0.492648	0.61%	3.71%	0.414603	1.54%	2.19%	0.033874	0.07%	2.19%	0.058874	0.13%	2.35%
Underground Conductors	351.0	3.18%	0.492648	1.57%	5.24%	0.414603	2.17%	2.19%	0.033874	0.07%	2.19%	0.058874	0.13%	3.94%
GENERAL PLANT														
Structures & Improvements	390.0	1.50%	0.519557	0.78%	1.91%	0.425935	0.81%	3.43%	0.019780	0.07%	3.43%	0.034728	0.12%	1.78%
Office Furniture & Equipment	391.0	2.78%	0.519557	1.44%	3.17%	0.425935	1.35%	3.43%	0.019780	0.07%	3.43%	0.034728	0.12%	2.98%
Transportation Equipment	392.0	0.00%	0.519557	0.00%	3.40%	0.425935	1.45%	3.43%	0.019780	0.07%	3.43%	0.034728	0.12%	1.64%
Stores Equipment	393.0	1.60%	0.519557	0.83%	1.80%	0.425935	0.77%	3.43%	0.019780	0.07%	3.43%	0.034728	0.12%	1.79%
Tools Shop & Garage Equipment	394.0	2.07%	0.519557	1.08%	2.57%	0.425935	1.09%	3.43%	0.019780	0.07%	3.43%	0.034728	0.12%	2.36%
Laboratory Equipment	395.0	1.53%	0.519557	0.79%	4.01%	0.425935	1.71%	3.43%	0.019780	0.07%	3.43%	0.034728	0.12%	2.69%
Power Operated Equipment	396.0	0.00%	0.519557	0.00%	3.90%	0.425935	1.66%	3.43%	0.019780	0.07%	3.43%	0.034728	0.12%	1.85%
Communication Equipment	397.0	3.27%	0.519557	1.70%	4.98%	0.425935	2.12%	3.43%	0.019780	0.07%	3.43%	0.034728	0.12%	4.01%
Miscellaneous Equipment	398.0	2.51%	0.519557	1.30%	2.70%	0.425935	1.15%	3.43%	0.019780	0.07%	3.43%	0.034728	0.12%	2.64%

(1) As approved in VA Case No. PUE 2011-00037 on Nov. 30, 2011.
Depreciation rates were made effective on January 1, 2012.

(2) Approved by PSC of WV Order dated May 26, 2015 in
Case No. 14-1151-E-D effective June 1, 2015.

(3) Approved by FERC March 2, 1990 in Docket ER90-132.

(4) Approved by FERC March 2, 1990 in Docket ER90-133.

(5) Transmission allocation factors are changed annually in January based on
September factors as per the PJM tariff approved in FERC Docket ER08-1329
Attachment H-14B, Part II, pg. 15 of 21.

(6) Energy Storage Equipment is a new account established per FERC Order 784.

GENERAL NOTES:

The rates for each AEP company have been approved by their respective regulatory commissions.

APCo falls under the authority of Virginia, West Virginia and the FERC. Therefore, APCo's rates are a composite of the jurisdictions under which it operates. Each jurisdictions' rate is multiplied by an allocation factor, and the product for each jurisdiction is added with the other jurisdictions to derive the composite rate for the company.

AEP will make a 205 filing whenever a company's rates are changed by their commission(s), or if the methodology to calculate the jurisdictional allocator in multiple-state companies changes. Changes in the allocation factors will not necessitate a 205 filing.

AEP EAST COMPANIES
Worksheet - P CALCULATION OF
TOTAL WEIGHTED AVERAGE DEPRECIATION RATES
FOR TRANSMISSION PLANT PROPERTY ACCOUNT
EFFECTIVE AS OF October 31, 2018
FOR MULTIPLE JURISDICTION COMPANIES
INDIANA MICHIGAN POWER COMPANY

		INDIANA			**MICHIGAN**			**FERC WHOLESALE**			**COMPANY**
		(1)			*(2)*			*(3)*			
	PLANT ACCT.	*IURC RATES*	*ALLOCATION FACTOR (4)*	*WTD AVG. DEPREC. RATE*	*MPSC APPROVED RATES*	*ALLOCATION FACTOR (4)*	*WTD AVG. DEPREC. RATE*	*FERC RATES*	*ALLOCATION FACTOR (4)*	*WTD AVG. DEPREC. RATE*	*WTD AVG. DEPREC. RATE*
TRANSMISSION PLANT											
Land Improvements	350.1	1.4800%	0.652103	0.9651%	1.4400%	0.144206	0.2077%	1.4400%	0.203691	0.2933%	1.47%
Structures & Improvements	352.0	1.5500%	0.652103	1.0108%	1.5000%	0.144206	0.2163%	1.5000%	0.203691	0.3055%	1.53%
Station Equipment	353.0	1.8600%	0.652103	1.2129%	1.8400%	0.144206	0.2653%	1.8400%	0.203691	0.3748%	1.85%
Towers & Fixtures	354.0	1.6900%	0.652103	1.1021%	1.5700%	0.144206	0.2264%	1.5700%	0.203691	0.3198%	1.65%
Poles & Fixtures	355.0	2.8500%	0.652103	1.8585%	2.8300%	0.144206	0.4081%	2.8300%	0.203691	0.5764%	2.84%
Overhead Conductors	356.0	1.9700%	0.652103	1.2846%	1.8900%	0.144206	0.2725%	1.8900%	0.203691	0.3850%	1.94%
Underground Conduit	357.0	1.8600%	0.652103	1.2129%	1.7700%	0.144206	0.2552%	1.7700%	0.203691	0.3605%	1.83%
Underground Conductors	358.0	1.7000%	0.652103	1.1086%	1.6600%	0.144206	0.2394%	1.6600%	0.203691	0.3381%	1.69%
Trails & Roads	359.0	1.5000%	0.652103	0.9782%	1.4800%	0.144206	0.2134%	1.4800%	0.203691	0.3015%	1.49%

(1) As approved in Indiana Case No. 44967.
(2) As approved in MICHIGAN Case No. U18370.
(3) FERC wholesale formula rate agreements specify that the depreciation rates in the formula rates change upon approval of MPSC rates in the Michigan jurisdiction.
(4) The rates approved for each jurisdiction are updated when approved by that commission. These demand-based allocation factors for all jurisdictions are updated when new rates are approved in one of the jurisdictions. These allocation factors reflect I&M's 12 monthly Coincident Peaks during test year of the most recent rate case.

GENERAL NOTES:

The rates for each AEP company have been approved by their respective regulatory commissions.
I&M falls under the authority of Indiana, Michigan and the FERC. Therefore, I&M's rates are a composite of the jurisdictions under which it operates. Each jurisdictions' rate is multiplied by an allocation factor, and the product for each jurisdiction is added with the other jurisdictions to derive the composite rate for the company.
AEP will make a 205 filing whenever a company's rates are changed by their commission(s), or if the methodology to calculate the jurisdictional allocator in multiple-state companies changes. Changes in the allocation factors will not necessitate a 205 filing.

AEP EAST COMPANIES
PJM FORMULA RATE
WORKSHEET P - TRANSMISSION DEPRECIATION RATES
EFFECTIVE AS OF 09/1/2016
FOR SINGLE JURISDICTION COMPANIES
KINGSPORT POWER COMPANY

	PLANT ACCT.	RATES Note 1
TRANSMISSION PLANT		
Structures & Improvements	352.0	1.04%
Station Equipment	353.0	1.49%
Towers & Fixtures	354.0	0.12%
Poles & Fixtures	355.0	2.14%
Overhead Conductors	356.0	0.77%
Underground Conduit	357.0	Note 2
Underground Conductors	358.0	Note 2
Composite Transmission Depreciation Rate		**1.46%**
GENERAL PLANT		
Structures & Improvements	390.0	1.71%
Office Furniture & Equipment	391.0	2.82%
Stores Equipment	393.0	2.22%
Tools Shop & Garage Equipmen	394.0	3.12%
Laboratory Equipment	395.0	3.17%
Communication Equipment	397.0	3.32%
Miscellaneous Equipment	398.0	4.92%
Total General Plant		3.25%

Reference:

Note 1: Rates Approved In Tennessee Regulatory Authority Docket No. 16-00001.
K
Note 2: Kingsport Power Company does not have investment in plant accounts 357 or 358. Therefore, there are no depreciation rates approved for these plant accounts.

General Note

AEP will make a 205 filing whenever a company's rates are changed by their commission(s), or if the methodology to calculate the jurisdictional allocator in multiple-state companies changes. Changes in the allocation factors will not necessitate a 205 filing.

AEP EAST COMPANIES
PJM FORMULA RATE
WORKSHEET P - TRANSMISSION DEPRECIATION RATES
EFFECTIVE AS OF 07/1/2015
FOR SINGLE JURISDICTION COMPANIES
KENTUCKY POWER COMPANY

	PLANT ACCT.	**RATES** Note 1
TRANSMISSION PLANT		
Land Rights	350.1	1.44%
Structures & Improvements	352.0	2.08%
Station Equipment	353.0	2.15%
Towers & Fixtures	354.0	2.61%
Poles & Fixtures	355.0	3.95%
Overhead Conductors	356.0	2.91%
Underground Conduit	357.0	2.99%
Underground Conductors	358.0	2.62%

Reference:

Note 1: Rates Approved in KPSC Case No. 2014-00396.

General Note

AEP will make a 205 filing whenever a company's rates are changed by their commission(s), or if the methodology to calculate the jurisdictional allocator in multiple-state companies changes. Changes in the allocation factors will not necessitate a 205 filing.

AEP EAST COMPANIES
PJM FORMULA RATE
WORKSHEET P - TRANSMISSION DEPRECIATION RATES
EFFECTIVE AS OF 1/1/2012
FOR SINGLE JURISDICTION COMPANIES
OHIO POWER COMPANY

	PLANT ACCT.	**RATES** Note 1
TRANSMISSION PLANT		
Structures & Improvements	352.0	2.02%
Station Equipment	353.0	2.29%
Twrs and Fixtures Above 69 KV	354.0	1.88%
Twrs and Fixtures Below 69 KV	354.0	1.88%
Poles and Fixtures Above 69 KV	355.0	3.52%
Poles and Fixtures Below 69 KV	355.0	3.52%
Overhead Conductor & Devices Abov	356.0	1.91%
Overhead Conductor & Devices MSP	356.0	1.91%
Overhead Conductor & Devices 138K	356.0	1.91%
Overhead Conductor & Devices 69KV	356.0	1.91%
Overhead Conductor & Devices CLR	356.0	1.91%
Underground Conduit	357.0	2.26%
Underground Conductors	358.0	3.27%

Reference:

Note 1: These are the weighted average of the depreciation rates in effect for Columbus Southern Power and Ohio Power prior to the merger of Columbus Southern into Ohio Power.

General Note:
AEP will make a 205 filing whenever a company's rates are changed by their commission(s), or if the methodology to calculate the jurisdictional allocator in multiple-state companies changes. Changes in the allocation factors will not necessitate a 205 filing.

AEP EAST COMPANIES
PJM FORMULA RATE
WORKSHEET P - TRANSMISSION DEPRECIATION RATES
EFFECTIVE AS OF 3/6/2019
FOR SINGLE JURISDICTION COMPANIES
WHEELING POWER COMPANY

	PLANT ACCT.	RATES Note 1
TRANSMISSION PLANT		
Structures & Improvements	352.0	1.15%
Station Equipment	353.0	2.22%
Towers & Fixtures	354.0	2.65%
Poles & Fixtures	355.0	2.41%
Overhead Conductors	356.0	1.32%
Underground Conduit	351.0	9.94%
Underground Conductors	351.0	13.98%
Trails & Roads	359.0	-
GENERAL PLANT		
Structures & Improvements	390.0	1.08%
Office Furniture & Equipment	391.0	2.13%
Stores Equipment	393.0	1.78%
Tools Shop & Garage Equipment	394.0	1.65%
Communication Equipment	397.0	5.09%
Miscellaneous Equipment	398.0	2.76%

Note 1: Rates Approved in WV Public Service Commission Case No. 14-1151-E-D.

General Note:
AEP will make a 205 filing whenever a company's rates are changed by their commission(s), or if the methodology to calculate the jurisdictional allocator in multiple-state companies changes. Changes in the allocation factors will not necessitate a 205 filing.

AEP East Companies
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet Q - True-up With Interest

Reconciliation Revenue Requirement For Year 2019 Available May 25, 2020		2019 Forecasted Revenue Requirement For Year 2019		True-up Adjustment - Over (Under) Recovery
$313,769,784	-	$294,722,133	=	($19,047,650)

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

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

Calculation of Interest					Monthly		
January	Year 2019	(1,587,304)	0.4195%	12	79,905		1,667,209
February	Year 2019	(1,587,304)	0.4195%	11	73,246		1,660,550
March	Year 2019	(1,587,304)	0.4195%	10	66,587		1,653,892
April	Year 2019	(1,587,304)	0.4195%	9	59,929		1,647,233
May	Year 2019	(1,587,304)	0.4195%	8	53,270		1,640,574
June	Year 2019	(1,587,304)	0.4195%	7	46,611		1,633,915
July	Year 2019	(1,587,304)	0.4195%	6	39,952		1,627,257
August	Year 2019	(1,587,304)	0.4195%	5	33,294		1,620,598
September	Year 2019	(1,587,304)	0.4195%	4	26,635		1,613,939
October	Year 2019	(1,587,304)	0.4195%	3	19,976		1,607,280
November	Year 2019	(1,587,304)	0.4195%	2	13,317		1,600,622
December	Year 2019	(1,587,304)	0.4195%	1	6,659		1,593,963
					519,382		19,567,032
					Annual		
January through December	Year 2019	19,567,032	0.4195%	12	985,004		20,552,037
Over (Under) Recovery Plus Interest Amortized and Recovered Over 12 Months					Monthly		
January	Year 2021	(20,552,037)	0.4195%		86,216	(1,759,728)	18,878,524
February	Year 2021	(18,878,524)	0.4195%		79,195	(1,759,728)	17,197,991
March	Year 2021	(17,197,991)	0.4195%		72,146	(1,759,728)	15,510,408
April	Year 2021	(15,510,408)	0.4195%		65,066	(1,759,728)	13,815,746
May	Year 2021	(13,815,746)	0.4195%		57,957	(1,759,728)	12,113,975
June	Year 2021	(12,113,975)	0.4195%		50,818	(1,759,728)	10,405,065
July	Year 2021	(10,405,065)	0.4195%		43,649	(1,759,728)	8,688,986
August	Year 2021	(8,688,986)	0.4195%		36,450	(1,759,728)	6,965,708
September	Year 2021	(6,965,708)	0.4195%		29,221	(1,759,728)	5,235,200
October	Year 2021	(5,235,200)	0.4195%		21,962	(1,759,728)	3,497,434
November	Year 2021	(3,497,434)	0.4195%		14,672	(1,759,728)	1,752,377
December	Year 2021	(1,752,377)	0.4195%		7,351	(1,759,728)	(0)
					564,703		

True-Up Adjustment with Interest	21,116,740
Less Over (Under) Recovery	(19,047,650)
Total Interest	2,069,090

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.

AEP East Companies
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet Q - True-up With Interest

Reconciliation Revenue Requirement For Year 2019 Available May 25, 2020		2019 Forecasted Revenue Requirement For Year 2019		True-up Adjustment - Over (Under) Recovery
$4,689,331	-	$4,028,356	=	($660,975)

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

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

Calculation of Interest					Monthly		
January	Year 2019	(55,081)	0.4195%	12	2,773		57,854
February	Year 2019	(55,081)	0.4195%	11	2,542		57,623
March	Year 2019	(55,081)	0.4195%	10	2,311		57,392
April	Year 2019	(55,081)	0.4195%	9	2,080		57,161
May	Year 2019	(55,081)	0.4195%	8	1,849		56,930
June	Year 2019	(55,081)	0.4195%	7	1,617		56,699
July	Year 2019	(55,081)	0.4195%	6	1,386		56,468
August	Year 2019	(55,081)	0.4195%	5	1,155		56,237
September	Year 2019	(55,081)	0.4195%	4	924		56,006
October	Year 2019	(55,081)	0.4195%	3	693		55,774
November	Year 2019	(55,081)	0.4195%	2	462		55,543
December	Year 2019	(55,081)	0.4195%	1	231		55,312
					18,023		678,998
					Annual		
January through December	Year 2019	678,998	0.4195%	12	34,181		713,179
Over (Under) Recovery Plus Interest Amortized and Recovered Over 12 Months					Monthly		
January	Year 2021	(713,179)	0.4195%		2,992	(61,065)	655,106
February	Year 2021	(655,106)	0.4195%		2,748	(61,065)	596,790
March	Year 2021	(596,790)	0.4195%		2,504	(61,065)	538,229
April	Year 2021	(538,229)	0.4195%		2,258	(61,065)	479,422
May	Year 2021	(479,422)	0.4195%		2,011	(61,065)	420,369
June	Year 2021	(420,369)	0.4195%		1,763	(61,065)	361,068
July	Year 2021	(361,068)	0.4195%		1,515	(61,065)	301,518
August	Year 2021	(301,518)	0.4195%		1,265	(61,065)	241,718
September	Year 2021	(241,718)	0.4195%		1,014	(61,065)	181,667
October	Year 2021	(181,667)	0.4195%		762	(61,065)	121,365
November	Year 2021	(121,365)	0.4195%		509	(61,065)	60,809
December	Year 2021	(60,809)	0.4195%		255	(61,065)	(0)
					19,596		
True-Up Adjustment with Interest						732,775	
Less Over (Under) Recovery						(660,975)	
Total Interest						71,800	

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.

AEP East Companies
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet Q - True-up With Interest

Reconciliation Revenue Requirement For Year 2019 Available May 25, 2020		2019 Forecasted Revenue Requirement For Year 2019		True-up Adjustment - Over (Under) Recovery
$10,911,676	-	$10,202,114	=	($709,562)

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

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

<u>Calculation of Interest</u>					Monthly		
January	Year 2019	(59,130)	0.4195%	12	2,977		62,107
February	Year 2019	(59,130)	0.4195%	11	2,729		61,859
March	Year 2019	(59,130)	0.4195%	10	2,481		61,611
April	Year 2019	(59,130)	0.4195%	9	2,232		61,363
May	Year 2019	(59,130)	0.4195%	8	1,984		61,115
June	Year 2019	(59,130)	0.4195%	7	1,736		60,867
July	Year 2019	(59,130)	0.4195%	6	1,488		60,619
August	Year 2019	(59,130)	0.4195%	5	1,240		60,370
September	Year 2019	(59,130)	0.4195%	4	992		60,122
October	Year 2019	(59,130)	0.4195%	3	744		59,874
November	Year 2019	(59,130)	0.4195%	2	496		59,626
December	Year 2019	(59,130)	0.4195%	1	248		59,378
					19,348		728,910
					Annual		
January through December	Year 2019	728,910	0.4195%	12	36,693		765,604
<u>Over (Under) Recovery Plus Interest Amortized and Recovered Over 12 Months</u>					Monthly		
January	Year 2021	(765,604)	0.4195%		3,212	(65,553)	703,262
February	Year 2021	(703,262)	0.4195%		2,950	(65,553)	640,659
March	Year 2021	(640,659)	0.4195%		2,688	(65,553)	577,793
April	Year 2021	(577,793)	0.4195%		2,424	(65,553)	514,664
May	Year 2021	(514,664)	0.4195%		2,159	(65,553)	451,269
June	Year 2021	(451,269)	0.4195%		1,893	(65,553)	387,609
July	Year 2021	(387,609)	0.4195%		1,626	(65,553)	323,682
August	Year 2021	(323,682)	0.4195%		1,358	(65,553)	259,486
September	Year 2021	(259,486)	0.4195%		1,089	(65,553)	195,022
October	Year 2021	(195,022)	0.4195%		818	(65,553)	130,286
November	Year 2021	(130,286)	0.4195%		547	(65,553)	65,279
December	Year 2021	(65,279)	0.4195%		274	(65,553)	(0)
					21,036		

True-Up Adjustment with Interest	786,640
Less Over (Under) Recovery	(709,562)
Total Interest	77,078

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.

AEP East Companies
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet Q - True-up With Interest

Reconciliation Revenue Requirement For Year 2019 Available May 25, 2020		2019 Forecasted Revenue Requirement For Year 2019		True-up Adjustment - Over (Under) Recovery
$781,248	-	$6,089,725	=	$5,308,477

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

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

Calculation of Interest					Monthly		
January	Year 2019	442,373	0.4195%	12	(22,269)		(464,642)
February	Year 2019	442,373	0.4195%	11	(20,413)		(462,786)
March	Year 2019	442,373	0.4195%	10	(18,558)		(460,931)
April	Year 2019	442,373	0.4195%	9	(16,702)		(459,075)
May	Year 2019	442,373	0.4195%	8	(14,846)		(457,219)
June	Year 2019	442,373	0.4195%	7	(12,990)		(455,363)
July	Year 2019	442,373	0.4195%	6	(11,135)		(453,508)
August	Year 2019	442,373	0.4195%	5	(9,279)		(451,652)
September	Year 2019	442,373	0.4195%	4	(7,423)		(449,796)
October	Year 2019	442,373	0.4195%	3	(5,567)		(447,940)
November	Year 2019	442,373	0.4195%	2	(3,712)		(446,085)
December	Year 2019	442,373	0.4195%	1	(1,856)		(444,229)
					(144,749)		(5,453,226)
					Annual		
January through December	Year 2019	(5,453,226)	0.4195%	12	(274,515)		(5,727,742)
Over (Under) Recovery Plus Interest Amortized and Recovered Over 12 Months					Monthly		
January	Year 2021	5,727,742	0.4195%		(24,028)	490,427	(5,261,343)
February	Year 2021	5,261,343	0.4195%		(22,071)	490,427	(4,792,987)
March	Year 2021	4,792,987	0.4195%		(20,107)	490,427	(4,322,667)
April	Year 2021	4,322,667	0.4195%		(18,134)	490,427	(3,850,374)
May	Year 2021	3,850,374	0.4195%		(16,152)	490,427	(3,376,099)
June	Year 2021	3,376,099	0.4195%		(14,163)	490,427	(2,899,835)
July	Year 2021	2,899,835	0.4195%		(12,165)	490,427	(2,421,573)
August	Year 2021	2,421,573	0.4195%		(10,159)	490,427	(1,941,305)
September	Year 2021	1,941,305	0.4195%		(8,144)	490,427	(1,459,022)
October	Year 2021	1,459,022	0.4195%		(6,121)	490,427	(974,716)
November	Year 2021	974,716	0.4195%		(4,089)	490,427	(488,378)
December	Year 2021	488,378	0.4195%		(2,049)	490,427	(0)
					(157,380)		

True-Up Adjustment with Interest	(5,885,121)
Less Over (Under) Recovery	5,308,477
Total Interest	(576,644)

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.