

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

For Twelve Months Ended

2021

AEP Kentucky Transmission Company

Line No.						Transmission Amount
1	REVENUE REQUIREMENT (w/o incentives)	(In 113)				\$17,489,878
			Total			
2	REVENUE CREDITS	(Worksheet E, In 8) (Note A)	-	DA	1.00000	\$ -
3	Facility Credits under PJM OATT Section 30.9	Worksheet E, In 9) (Note X)				0
4	REVENUE REQUIREMENT For All Company Facilities	(In 1 less In 2 plus In 3)				\$ 17,489,878

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)	4,259,251	DA	1.00000	\$ 4,259,251
6	NET PLANT CARRYING CHARGE w/o intra-AEP charges or credits or ROE incentives (Note B)				
7	Annual Rate	((In 1 - In 80)/((In 33) x 100))			12.47%
8	Monthly Rate	(In 7 / 12)			1.04%
9	NET PLANT CARRYING CHARGE ON LINE 7 , w/o depreciation or ROE incentives (Note B)				
10	Annual Rate	((In 1 - In 80 - In 83)/((In 33) x 100))			10.13%
11	NET PLANT CARRYING CHARGE ON LINE 10, w/o Return, income taxes or ROE incentives (Note B)				
12	Annual Rate	((In 1 - In 80 - In 83 - In 108 - In 109) /((In 33) x 100))			2.34%
13	ADDITIONAL REVENUE REQUIREMENT for projects w/ incentive ROE's (Note B) (Worksheet J/K)				-
14	REVENUE REQUIREMENT FOR SCHEDULE 1A CHARGES				
15	Total Load Dispatch & Scheduling (Account 561)	Line 63 Below			82,000
16	Less: Load Dispatch - Scheduling, System Control and Dispatch Services (321.88.b)				-
17	Less: Load Dispatch - Reliability, Planning & Standards Development Services (321.92.b)				-
18	Total 561 Internally Developed Costs	(Line 15 - Line 16 - Line 17)			82,000

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	(1)	(2)	(3)	(4)	(5)
	RATE BASE CALCULATION	Data Sources (See "General Notes")	TO Total NOTE C	Allocator	Total Transmission
Line No.					
19	GROSS PLANT IN SERVICE				
20	Transmission	(Worksheet A in 14.(d) & Ln 117)	150,817,000	DA 1.00000	150,817,000
21	Less: Transmission ARO (Enter Negative)	(Worksheet A in 14.(e))	-	TP 1.00000	-
22	General Plant	(Worksheet A in 14.(h))	-	W/S 1.00000	-
23	Less: General Plant ARO (Enter Negative)	(Worksheet A in 14.(i))	-	W/S 1.00000	-
24	Intangible Plant	(Worksheet A in 14.(j))	1,677,000	W/S 1.00000	1,677,000
25	TOTAL GROSS PLANT	(Sum of Lines: 19 to 23)	152,494,000	GP= 1.000000 GTD= 1.00000	152,494,000
26	ACCUMULATED DEPRECIATION AND AMORTIZATION				
27	Transmission	(Worksheet A in 28.(d) & Ln 43.(b))	10,610,000	TP1= 1.00000	10,610,000
28	Less: Transmission ARO (Enter Negative)	(Worksheet A in 28.(e))	-	TP1= 1.00000	-
29	General Plant	(Worksheet A in 28.(h))	-	W/S 1.00000	-
30	Less: General Plant ARO (Enter Negative)	(Worksheet A in 28.(i))	-	W/S 1.00000	-
31	Intangible Plant	(Worksheet A in 28.(j))	848,000	W/S 1.00000	848,000.00
32	TOTAL ACCUMULATED DEPRECIATION	(Sum of Lines: 26 to 30)	11,458,000		11,458,000
33	NET PLANT IN SERVICE				
34	Transmission	(In 19 + In 20 - In 26 - In 27)	140,207,000		140,207,000
35	General Plant	(In 21 + In 22 - In 28 - In 29)	-		-
36	Intangible Plant	(In 23 - In 30)	829,000		829,000
37	TOTAL NET PLANT IN SERVICE	(Sum of Lines: 33 to 35)	141,036,000	NP= 1.000000	141,036,000
38	DEFERRED TAX ADJUSTMENTS TO RATE BASE	(Note D)			
39	Account No. 281.1 (enter negative)	(Worksheet B, in 2 & in 5.E)	-	NA	-
40	Account No. 282.1 (enter negative)	(Worksheet B, in 7 & in 10.E)	(19,980,000)	DA	(19,747,000)
41	Account No. 283.1 (enter negative)	(Worksheet B, in 12 & in 15.E)	(1,086,500)	DA	(1,086,500)
42	Account No. 190.1	(Worksheet B, in 17 & in 20.E)	451,000	DA	451,000
43	Account No. 255 (enter negative)	(Worksheet B, in 24 & in 25.E)	-	DA	-
44	TOTAL ADJUSTMENTS	(sum Ins 38 to 42)	(20,615,500)		(20,382,500)
45	PLANT HELD FOR FUTURE USE	(Worksheet A in 44.(e)) in 45.(e)	-	DA	-
46	REGULATORY ASSETS	(Worksheet A in 51.(e))	-	DA	-
47	UNFUNDED RESERVES (ENTER NEGATIVE) (NOTE Y)	(Worksheet A in 54.(e))	-	W/S 1.00000	-
48	WORKING CAPITAL	(Note E)			
49	Cash Working Capital	(1/8 * In 66)	207,250		207,250
50	Transmission Materials & Supplies	(Worksheet C, in 2.(F))	-	TP 1.00000	-
51	A&G Materials & Supplies	(Worksheet C, in 3.(F))	-	W/S 1.00000	-
52	Stores Expense	(Worksheet C, in 4.(F))	-	GP 1.00000	-
53	Prepayments (Account 165) - Labor Allocated	(Worksheet C, in 8.(G))	-	W/S 1.00000	-
54	Prepayments (Account 165) - Gross Plant	(Worksheet C, in 8.(F))	30,000	GP 1.00000	30,000
55	Prepayments (Account 165) - Transmission Only	(Worksheet C, in 8.(E))	-	DA 1.00000	-
56	Prepayments (Account 165) - Unallocable	(Worksheet C, in 8.(D))	-	NA 0.00000	-
57	TOTAL WORKING CAPITAL	(sum Ins 48 to 55)	237,250		237,250
58	IPP CONTRIBUTIONS FOR CONSTRUCTION	(Note F) (Worksheet D, in 8.B)	-	DA 1.00000	-
59	RATE BASE (sum Ins 36, 43, 44, 45, 46, 56, 57)		120,657,750		120,890,750

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	(1)	(2)	(3)	(4)	(5)
	EXPENSE, TAXES, RETURN & REVENUE REQUIREMENTS CALCULATION	Data Sources (See "General Notes")	TO Total	Allocator	Total Transmission
Line					
No.	OPERATION & MAINTENANCE EXPENSE				
59	Customer Related Expense	322 & 323.164,171,178.b			
60	Regional Marketing Expenses	322.131.b			
61	Transmission	321.112.b	1,740,000		
62	TOTAL O&M EXPENSES	(sum Ins 59 to 61)	1,740,000		
63	Less: Total Account 561	(Note G) (Worksheet F, In 14.C)	82,000		
64	Less: Account 565	(Note H) 321.98.b	-		
65	Less: Regulatory Deferrals & Amortizations	(Note I) (Worksheet F, In 4.C)	-		
66	Total O&M Allocable to Transmission	(Ins 61 - 63 - 64 - 65)	1,658,000	TP 1.00000	1,658,000
67	Administrative and General	323.197.b (Notes J & M)	650,000		
68	Less: Acct. 924, Property Insurance	323.185.b	10,000		
69	Acct. 928, Reg. Com. Exp.	323.189.b	-		
70	Acct. 930.1, Gen. Advert. Exp.	323.191.b	-		
71	Acct. 930.2, Misc. Gen. Exp.	323.192.b	1,000		
72	Balance of A & G	(In 67 - sum In 68 to In 71)	639,000	W/S 1.00000	639,000
73	Plus: Acct. 924, Property Insurance	(In 68)	10,000	GP(h) 1.00000	10,000
74	Acct. 928 - Transmission Specific	Worksheet F In 21.(E) (Note L)	-	TP 1.00000	-
75	Acct 930.1 - Only safety related ads -Direct	Worksheet F In 38.(E) (Note L)	-	TP 1.00000	-
76	Acct 930.2 - Misc Gen. Exp. - Trans	Worksheet F In 42.(E) (Note L)	(2,000)	DA 1.00000	(2,000)
77	PBOP Adjustment	Worksheet O Ln 16.(B), (Note K & M)	23,000	W/S 1.00000	23,000
78	A & G Subtotal	(sum Ins 72 to 77)	670,000		670,000
79	O & M EXPENSE SUBTOTAL	(In 66 + In 78)	2,328,000		2,328,000
80	Plus: Transmission Lease Payments To Affiliates in Acct 565 (Company Records) (Note H)		-	DA 1.00000	-
81	TOTAL O & M EXPENSE	(In 79 + In 80)	2,328,000		2,328,000
82	DEPRECIATION AND AMORTIZATION EXPENSE				
83	Transmission	336.7.f	3,288,000	TP1 1.00000	3,288,000
84	General	336.10.f	-	W/S 1.00000	-
85	Intangible	336.1.f	292,000	W/S 1.00000	292,000
86	TOTAL DEPRECIATION AND AMORTIZATION	(Ln 83+84+85)	3,580,000		3,580,000
87	TAXES OTHER THAN INCOME	(Note N)			
88	Labor Related				
89	Payroll	Worksheet H In 23.(D)	-	W/S 1.00000	-
90	Plant Related				
91	Property	Worksheet H-p2 In 3.(C) & In 3.(G)	665,000	DA 1.00000	665,000
92	Gross Receipts/Sales & Use	Worksheet H In 23.(F)	-	NA 0.00000	-
93	Other	Worksheet H In 23.(E)	-	GP 1.00000	-
94	TOTAL OTHER TAXES	(sum Ins 89 to 93)	665,000		665,000
95	INCOME TAXES	(Note O)			
96	$T = 1 - ((1 - SIT) * (1 - FIT)) / (1 - SIT * FIT * p)) =$		24.91%		
97	$EIT = (T / (1 - T)) * (1 - (WCLTD / WACC)) =$ (In 139)		25.00%		
98	where WCLTD=(In 136) and WACC = (In 139)				
99	and FIT, SIT & p are as given in Note O.				
100	$GRCF = 1 / (1 - T) =$ (from In 96)		1.3317		
101	Amortized Investment Tax Credit (enter negative)	(FF1 p.114, In 19.c)	-		
102	Excess Deferred Income Tax	(Note T)	15,000	NP(h) 1.00000	15,000
103	Tax Effect of Permanent and Flow-Through Differences	(Note T)	24,000	NP(h) 1.00000	24,000
104	Income Tax Calculation	(In 97 * In 109)	2,168,975		2,173,164
105	ITC adjustment	(In 100 * In 101)	-	NP(h) 1.00000	-
106	Excess Deferred Income Tax	(In 100 * In 102)	19,976		19,976
107	Tax Effect of Permanent and Flow-Through Differences	(In 100 * In 103)	31,962		31,962
108	TOTAL INCOME TAXES	(sum Ins 104 to 107)	2,220,913		2,225,102
109	RETURN ON RATE BASE (Rate Base*WACC)	(In 58 * In 139)	8,675,024		8,691,776
110	INTEREST ON IPP CONTRIBUTION FOR CONST. (Note F) (Worksheet D, In 2.(B))		-	DA 1.00000	-
111	(Gains) / Losses on Sales of Plant Held for Future Use (Worksheet N, In 4, Cols. ((F) & (H))		-		-
112	Tax Impact on Net Loss / (Gain) on Sales of Plant Held for Future Use (In 111 * In97)		-		-
113	TOTAL REVENUE REQUIREMENT (sum Ins 81, 86, 94, 108, 109, 110, 111, 112)		17,468,938		17,469,878

No.	TRANSMISSION PLANT INCLUDED IN PJM TARIFF									
114	Total transmission plant (In 19)									150,817,000
115	Less transmission plant excluded from PJM Tariff (Worksheet A, In 42.(d)) (Note P)									-
116	Less transmission plant included in OATT Ancillary Services (Worksheet A, In 42, Col. (b)) (Note Q)									-
117	Transmission plant included in PJM Tariff (In 114 - In 115 - In 116)									150,817,000
118	Percent of transmission plant in PJM Tariff (In 117 / In 114)									TP= 1.00000
119	WAGES & SALARY ALLOCATOR (W/S)		(Note R)		Direct Payroll	Payroll Billed from AEP Service Corp.		Total		
120	Line Deliberately Left Blank									
121	Transmission	354.21.b			0	575,000		575,000	TP	1.00000
122	Regional Market Expenses	354.22.b			0	0		-	NA	0.00000
123	Line Deliberately Left Blank									
124	Other (Excludes A&G)	354.24,25,26.b			0	0		-	NA	0.00000
125	Total	(sum Ins 121, 122, & 124)			-	575,000		575,000		575,000
126	Transmission related amount									WS= 1.00000
	Actual (Uncapped) Capital Structure									
127	WEIGHTED AVERAGE COST OF CAPITAL (WACC)									\$
128	Long Term Interest	(Worksheet M, In.36, col.(d))								2,379,000
129	Preferred Dividends	(Worksheet M, In. 45, col.(d))								-
130	<u>Development of Common Stock:</u>									
131	Proprietary Capital	(Worksheet M, In. 14, col.(b))								70,326,000
132	Less: Preferred Stock	(Worksheet M, In. 14, col.(c))								-
133	Less: Account 216.1	(Worksheet M, In. 14, col.(d))								-
134	Less: Account 219	(Worksheet M, In. 14, col.(e))								-
135	Common Stock	(In 131 - In 132 - In 133 - In 134)								70,326,000
	Capital Structure Percentages									
					\$	%	Cap Limit	Cost (Note S)		Weighted
136	Long Term Debt (Note S) Worksheet M, In 28, col. (g), In 37, col. (d)				64,000,000	47.65%	47.65%	3.72%		0.0177
137	Preferred Stock (In 132)				-	0.00%	0.00%	0.00%		0.0000
138	Common Stock (In 135)				70,326,000	52.35%	52.35%	10.35%		0.0542
139	Total (Sum Ins 136 to 138)				134,326,000	100.00%				WACC= 0.0719
140	Capital Structure Equity Limit (Note Z)				55.00%					

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Letter

Notes

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

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

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

The company records referenced on line80 is the AEP Kentucky Transmission Company general ledger.
- I Removes the impact of state regulatory deferrals or their amortization from Transmission O&M expense.
- J General Plant and Administrative & General expenses, other than in accounts 924, 928, and 930, will be functionalized based on the Wages & Salaries "W/S" allocator. The allocation basis for accounts 924, 928 and 930 are separately presented in the formula. A change in the allocation method for an account must be approved via a 205 filing with the FERC.
- K The Post-employment Benefit Other than Pension (PBOP) expense is fixed based on an approved ratio of PBOP expense to direct labor expense.
- L Expenses reported for these A&G accounts will be included in the cost of service only to the extent they are directly assignable to transmission service. Worksheet F allocates these expense items. Acct 928 includes Regulatory Commission expenses itemized in FERC Form-1 at page 351, column H. FERC Assessment Fees and Annual Charges shall not be allocated to transmission. Only safety-related and educational advertising costs in Account 930.1 are included in the TCOS. Account 930.2 includes the expenses incurred by the transmission function for Associated Business Development revenues given as a credit to the TCOS on Worksheet E.
- M See note K above. Recoverable PBOP expense is based on a rate of \$(0.058) cents per dollar of direct labor. This rate may be adjusted up or down every four years based on a comparison of the Allowable TransCo PBOP Expense and the Actual PBOP Expense for a four year Historic and four year Projected period. If the over or under collection is greater than plus or minus 20% of the recoverable amount, an adjustment will be proposed in a Section 205 rate filing.
- N Includes only FICA, unemployment, highway, property and other assessments. Gross receipts, sales & use and taxes related to income are excluded.
- O The currently effective income tax rate, where FIT is the Federal income tax rate; SIT is the State income tax rate, and p = the percentage of federal income tax deductible for state income taxes. See Worksheet G for the development of the Company's composite SIT.
A utility that elected to utilize amortization of tax credits against taxable income, rather than book tax credits to Account No. 255 and reduce rate base, must reduce its income tax expense by the amount of the Amortized Investment Tax Credit (Form 1, 266.8.f)
(in 101) multiplied by (1/1-T). If the applicable tax rates are zero enter 0.

Inputs Required:
- | | | |
|-------|--------|---|
| FIT = | 21.00% | |
| SIT = | 4.95% | (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 128)/average long term debt (Ln 136). Preferred Stock cost rate = preferred dividends (Ln 129)/preferred outstanding (ln 137).
Common Stock cost rate (ROE) = 11.49%, the rate accepted by FERC in Docket No. ER10-355. It includes an additional 50 basis points for PJM RTO membership. All Transmission Companies other than AEP Appalachian Transmission Company utilize their own capital structure and costs as shown on Worksheet M. The calculations on Worksheet M will use the projected or actual 13 month average balances of long-term debt, common and preferred equity and calendar year long term debt interest expenses, preferred dividends and approved ROE. The long term debt balances and long term debt cost rate shall not include any amounts related to hedging activity. As shown on Worksheet Q, the AEP Appalachian Transmission Company capital structure and weighted cost of capital (WACC) shall be based on the weighted composite of the AEP East Operating Companies beginning and ending average outstanding LTD and PS issuances with the common equity portion in Docket No. ER08-1329, and (2) the weighted composite LTD and PS cost using projected or actual calendar year LTD expense and PS dividends of the AEP East Operating Companies excluding all interest rate hedging costs and/or gains, until the Company establishes its own actual capital structure.
- 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.
- T
- U 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
- V The formula rate shall allocate property tax expense based on the as filed net plant cost allocation method detailed on Worksheet H.
- W AEP Transmission Companies will record depreciation expense using composites of the depreciation rates shown on Worksheet P which rates will not be changed absent a Section 205 or 206 filing at FERC to seek a change in depreciation rates. No other changes to the formula rate may be included in that filing.

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
Y 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,
Z shall be addressed in either the Network Customer's Service Agreement or any other agreement between the parties.
The cost of service will make a rate base adjustment to remove unfunded reserves associated with contingent liabilities recorded to Accounts 228.1-228.4 from rate base.
Per the settlement in EL17-13, equity is limited to 55% 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.

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

Line No	Month (a)	Gross Plant In Service				
		Transmission (d)	Transmission ARO (e)	General (h)	General ARO (i)	Intangible (j)
		FF1, page 207 Col.(g) & pg. 206 Col. (b), In 58	FF1, page 207 Col.(g) & pg. 206 Col. (b), In 57	FF1, page 207 Col.(g) & pg. 206 Col. (b), In 99	FF1, page 207 Col.(g) & pg. 206 Col. (b), In 98	FF1, page 205 Col.(g) & pg. 204 Col. (b), In 5
	(Note A)					
1	December Prior to Rate Year	128,865,000	-	-	-	1,614,000
2	January	128,838,000	-	-	-	1,621,000
3	February	128,965,000	-	-	-	1,631,000
4	March	150,770,000	-	-	-	1,643,000
5	April	150,848,000	-	-	-	1,655,000
6	May	153,054,000	-	-	-	1,666,000
7	June	154,366,000	-	-	-	1,677,000
8	July	155,256,000	-	-	-	1,688,000
9	August	156,146,000	-	-	-	1,699,000
10	September	156,959,000	-	-	-	1,710,000
11	October	158,126,000	-	-	-	1,721,000
12	November	168,132,000	-	-	-	1,732,000
13	December of Rate Year	170,301,000	-	-	-	1,743,000
14	Average of the 13 Monthly Balances	150,817,000	-	-	-	1,677,000

Line No	Month (a)	Accumulated Depreciation				
		Transmission (d)	Transmission ARO (e)	General (h)	General ARO (i)	Intangible (j)
		FF1, page 219, In 25, Col. (b)	Company Records (Included in total in Column (d))	FF1, page 219, In 28, Col. (b)	Company Records (Included in total in Column (h))	FF1, page 200, In 21, Col. (b)
	(Note A)					
15	December Prior to Rate Year	9,037,000	-	-	-	704,000
16	January	9,273,000	-	-	-	727,000
17	February	9,510,000	-	-	-	751,000
18	March	9,746,000	-	-	-	774,000
19	April	10,022,000	-	-	-	798,000
20	May	10,298,000	-	-	-	822,000
21	June	10,578,000	-	-	-	846,000
22	July	10,860,000	-	-	-	871,000
23	August	11,143,000	-	-	-	895,000
24	September	11,429,000	-	-	-	920,000
25	October	11,715,000	-	-	-	945,000
26	November	12,004,000	-	-	-	970,000
27	December of Rate Year	12,311,000	-	-	-	995,000
28	Average of the 13 Monthly Balances	10,610,000	-	-	-	848,000

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

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

43 Transmission Accumulated Depreciation net of GSU 10,610,000

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

Regulatory Assets and Liabilities Approved for Recovery In Ratebase

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

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

Unfunded Reserves Summary (Company Records)

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

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

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

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

<u>Line Number</u>	<u>(A) Description</u>	<u>(B) Source</u>	<u>(C) Balance @ December</u>		<u>(D) Balance @ December</u>		<u>(E) Average Balance for</u>
			<u>31, 2021</u>		<u>31, 2020</u>		<u>2021</u>
1	<u>Account 281</u>						
2	Year End Utility Deferrals	FF1, p. 272 - 273, In 8, Col. (k)	-		-		-
3	Less: ARO Related Deferrals	WS B-1 - Actual Stmt. AF Ln. 4 (Note 1)	-		-		-
4	Less: Other Excluded Deferrals	WS B-1 - Actual Stmt. AF Ln. 3 (Note 1)	-		-		-
5	Transmission Related Deferrals	Ln 2 - In 3 - In 4	-		-		-
6	<u>Account 282</u>						
7	Year End Utility Deferrals	FF1, p. 274 - 275, In 5, Col. (k)	20,412,000		19,548,000		19,980,000
8	Less: ARO Related Deferrals	WS B-1 - Actual Stmt. AF Ln. 7 (Note 1)	-		-		-
9	Less: Other Excluded Deferrals	WS B-1 - Actual Stmt. AF Ln. 6 (Note 1)	466,000		-		233,000
10	Transmission Related Deferrals	Ln 7 - In 8 - In 9	19,946,000		19,548,000		19,747,000
11	<u>Account 283</u>						
12	Year End Utility Deferrals	FF1, p. 276 - 277, In 9, Col. (k)	1,073,000		1,100,000		1,086,500
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)	-		-		-
15	Transmission Related Deferrals	Ln 12 - In 13 - In 14	1,073,000		1,100,000		1,086,500
16	<u>Account 190</u>						
17	Year End Utility Deferrals	FF1, p. 234, In 8, Col. (c)	555,000		347,000		451,000
18	Less: ARO Related Deferrals	WS B-2 - Actual Stmt. AG Ln. 4 (Note 1)	-		-		-
19	Less: Other Excluded Deferrals	WS B-2 - Actual Stmt. AG Ln. 3 (Note 1)	-		-		-
20	Transmission Related Deferrals	Ln 17 - In 18 - In 19	555,000		347,000		451,000
21	<u>Account 255</u>						
22	Year End ITC Balances	FF1, p. 266-267, In 8, Col. (h)	-		-		-
23	Less: Balances Not Qualified for Ratebase	Company Records - Note 1	-		-		-
24	ITC Balances Includeable in Ratebase	Ln 22 - In 23	-		-		-
25	Transmission Related Deferrals	WS B-1 - Actual Stmt. AF Ln. 20 (Note 1)	-		-		-

NOTE 1 On this worksheet, "Company Records" refers to AEP's tax forecast and accounting ledger. The PTRR will use projected ending balances and reflect proration required by IRS Letter Rule Section 1.167(l)-(h)(6)(ii). Line item detail of actual deferred tax items will be included on Worksheet B.

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

[illegible]

[illegible]

AEP KENTUCKY TRANSMISSION COMPANY, INC.
Worksheet B-3
Excess/ Deficient ADIT Worksheet
For Year Ended December 31, 2019
Debit/(Credit)

A	B	C	D	E
Line No.	Account (NOTE A)	Description of Account	Protected Unprotected	Tax Rate Change Act
Deferred Tax Account (NOTE B)				
1a	1904001	ADFIT - FAS 109 Excess	N/A	TCJA 2017
1b	2821001	ADFIT - Utility Property	Protected	TCJA 2017
1c	2821001	ADFIT - Utility Property	Unprotected	TCJA 2017
1d	2824001	ADFIT - Utility Property FAS 109 Excess	Protected	TCJA 2017
1e	2824001	ADFIT - Utility Property FAS 109 Excess	Unprotected	TCJA 2017
1f	2831001	ADFIT - Other Utility Deferrals	Unprotected	TCJA 2017
1g	2834001	ADFIT - Other FAS 109 Excess	Unprotected	TCJA 2017
1h	NOTE D			
Regulatory Deferral Accounts				
2a	182.3	Regulatory Asset		TCJA 2017
2b	254	Regulatory Liability		TCJA 2017
2c	NOTE D			
3	Total For Accounting Entries (Sum of Lines 1a through 2b)			

NOTE A: In order to ensure ratebase neutrality, AEP utilizes the fourth digit of its seven digit FERC Tax subaccount number. The fourth digit of a FERC tax account refers to the utility operations balance or entry. Accounts with the "1" in the fourth place of the account number indicates accounts used to track regulatory accounting requirements. This will ensure that in the formula rate the excess amount will be part of ratebase, but at the total FERC account in the "4" 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 be recorded on regulatory assets and liabilities will be reported on the first line.

NOTE C: The ten year amortization period for unprotected excess ADIT is consistent with the period agreed upon by the Company, et al, 166 FERC ¶ 61,135 (2019).

NOTE D: In the event of future tax rate changes, additional lines will be inserted as required to reflect any new ADIT or

NOTE E: The amount of excess amortization entries shown in lines 1a through 1h are shown as a debit or credit to the charged to the 410/411 account.

F	G	H	I	J
			1/1/2019 Beginning Balances	

Excess Balance at Remeasurement	Amortization Methodology (NOTE C)	Amortization Period	Excess ADIT Regulatory Offset	Excess ADIT in Utility Deferrals
(171,531,496)	ARAM	Life of Asset	1,473,732	-
-	10 Years	1/2018 - 12/2027	-	(5,780,159)
			5,780,162	
2,463,331	10 Years	1/2018 - 12/2027		236,120
			253,784	
			(42,092)	
			(7,465,586)	
			0	(5,544,039)

numbers to identify balances associated with utility operations vs regulatory reporting requirements. A "1" in designation will be included in the determination of ratebase to be recovered in the formula rate. A "4" in the excess ADIT amounts recorded in accounts with the "4" designation will be contra to the "1" balance, account level the tax asset or liability will be recorded at the current Federal FIT rate. The amounts recorded are.

of ADIT accounts provided for each specific change in tax rates.

the Company and its customers and approved for the Company's PJM formula rates. *Appalachian Power*

for regulatory deferral accounts that may be necessary to track that tax rate change.

ADIT account from which it is being amortized. The total in line 3 is the offset as

K	L	M	N	O	P
	Balance Sheet Entries		Tax Expense Entries		12/31/2019 Er

Balance Sheet Account Reclassifications	182.3	254	410/411 Excess Amortization NOTE C	410/411 Deferred Tax Expense/ (Benefit)	Excess ADIT Regulatory Offset	Sum of Cc
		367,939				1,841,671
			204	(5,681,829)		
			59,752	5,242,326		
		5,681,625				5,681,625
		(5,302,078)				478,084
			(75,062)	456,716		
		(829,466)				(575,682)
						(42,092)
		81,980				(7,383,606)
-	-	-	15,106	(17,213)	-	

NOTE E

Q

Ending Balance

R

Excess ADIT in Utility
Deferrals

ols (I) - (O)

Reference

	WS B - 2 Col B/C, ADIT Item 2.10
(5,681,625)	
(478,081)	WS B - 1 Col N, ADIT Items 5.11 & 5.12
	WS B - 1 Col B/C, ADIT Item 5.15
617,774	WS B - 1 Col N, ADIT Item 9.03
	WS B - 1 Col B/C, ADIT Item 9.06

Company Records
FERC Form 1 p. 278 Ln. 3 Cols, (b) /(f)

(5,541,932)

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

(A)

(B)

(C)

(D)

(E)

(F)

(G)

(H)

(I)

Materials & Supplies

Line Number

Source

Balance @ December 31, 2021

Balance @ December 31, 2020

Average Balance for 2021

1

Transmission Materials & Supplies

FF1, p. 227, ln 8, Col. (c) & (b)

0

0

-

3

General Materials & Supplies

FF1, p. 227, ln 11, Col. (c) & (b)

-

4

Stores Expense (Undistributed) - Account 163

FF1, p. 227, ln 16, Col. (c) & (b)

-

Prepayment Balance Summary (Note 1)

Average of YE Balance

Excludable Balances

100% Transmission Related

Transmission Plant Related

Transmission Labor Related

Total Included in Ratebase (E)+(F)+(G)

5

Totals as of December 31, 2021

30,000

0

0

30,000

0

30,000

7

Totals as of December 31, 2020

30,000

0

0

30,000

0

30,000

8

Average Balance

30,000

-

-

30,000

-

30,000

Prepayments Account 165 - Balance @ 12/31/2021

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

10,000

-

10,000

10,000

11

165000219

Prepaid Taxes

0

-

-

-

12

1650006

Other Prepayments

0

-

-

-

13

165001219

Prepaid Use Taxes

0

-

-

-

14

1650021

Prepaid Insurance EIS

11,000

-

11,000

11,000

15

1650023

Prepaid Lease

9,000

-

9,000

9,000

16

17

18

19

20

21

22

23

24

25

Subtotal - Form 1, p 111.57.c

30,000

0

0

30,000

0

30,000

Prepayments Account 165 - Balance @ 12/31/ 2020

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

27

1650001

Prepaid Insurance

10,000

-

10,000

10,000

28

165000219

Prepaid Taxes

0

-

-

-

29

1650006

Other Prepayments

0

-

-

-

30

165001219

Prepaid Use Taxes

0

-

-

-

31

1650021

Prepaid Insurance EIS

11,000

-

11,000

11,000

32

1650023

Prepaid Lease

9,000

-

9,000

9,000

33

34

35

36

37

38

39

40

Subtotal - Form 1, p 111.57.d

30,000

0

0

30,000

0

30,000

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 [company] resulting (or expected to result) from prior federal or state audits or from the filing of one or more amended income tax returns; or (iii) prepayments of federal or state income taxes which are attributable to income earned during periods prior to January 1 of the year depicted in the Balance Sheet (as described in USofA Account 236).

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

<u>Line Number</u>	<u>(A) Description</u>	<u>(B) 2021</u>
1	Net Funds from IPP Customers 12/31/2020 (2021 FORM 1, P269)	-
2	Interest Expense (Company Records - Note 1)	-
3	Revenue Credits to Generators (Company Records - Note 1)	-
4	<u>Other Adjustments</u>	
5	Accounting Adjustment (Company Records - Note 1)	-
6		-
7	Net Funds from IPP Customers 12/31/2021 (2021 FORM 1, P269)	-
8	Average Balance for Year as Indicated in Column $((\text{Ln } 1 + \text{Ln } 7)/2)$	-

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

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

<u>Line Number</u>	<u>Description</u>	<u>Total Company</u>	<u>Non- Transmission</u>	<u>Transmission</u>
1	Account 450, Forfeited Discounts (FF1 p.300.16.(b); Company Records - Note 1)		-	
2	Account 451, Miscellaneous Service Revenues (FF1 p.300.17.(b); Company Records - Note 1)		-	
3	Account 454, Rent from Electric Property (FF1 p.300.19.(b); Company Records - Note 1)		-	
4	Account 4560015, Associated Business Development - (Company Records - Notes 1, 2)		-	
5	Account 456 - Other Electric Revenues - (Company Records - Notes 1,2)	15,779,000	15,779,000	
5a	Account 457.1, Regional Control Service Revenues (FF1 p.300.23.(b); Company Records - Note 1)		-	
5b	Account 457.2, Miscellaneous Revenues (FF1 p.300.24.(b); Company Records - Note 1)		-	
6	Subtotal - Other Operating Revenues (Company Total equals (FF1 p. 300.26.(b))	15,779,000	15,779,000	-
7	Accounts 4470004 & 5, Revenues from Grandfathered Transmission Contracts - (Company Records - Note 1)		-	
8	Total Other Operating Revenues To Reduce Revenue Requirement	15,779,000	15,779,000	-
9	Facility Credits under PJM OATT Section 30.9			

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

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

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

Formula Rate
WS F Misc Exp
Page 20 of 38

	(A)	(B)	(C)	(D)	(E)	(F)
<u>Line</u>	<u>Number</u>	<u>Item No.</u>	<u>Description</u>	<u>2021</u>	<u>100%</u>	<u>100%</u>
				<u>Expense</u>	<u>Non-Transmission</u>	<u>Transmission</u>
						<u>Specific</u>
						<u>Explanation</u>
			Regulatory O&M Deferrals & Amortizations			
1						
2						
3						
4			Total	-		
			Detail of Account 561 Per FERC Form 1			
5						
6		FF1 p 321.85.b	561.1 - Load Dispatch - Reliability	-		
7		FF1 p 321.86.b	561.2 - Load Dispatch - Monitor & Operate Trans System	70,000		
8		FF1 p 321.87.b	561.3 - Load Dispatch - Trans Service & Scheduling	-		
9		FF1 p 321.88.b	561.4 - Scheduling, System Control & Dispatch	-		
10		FF1 p 321.89.b	561.5 - Reliability, Planning and Standards Development	12,000		
11		FF1 p 321.90.b	561.6 - Transmission Service Studies	-		
12		FF1 p 321.91.b	561.7 - Generation Interconnection Studies	-		
13		FF1 p 321.92.b	561.8 - Reliability, Planning and Standards Development Services	-		
14			Total of Account 561	82,000		
			Account 928			
15					-	-
16					-	-
17					-	-
18					-	-
19					-	-
20					-	-
21			Total (FERC Form 1 p.323.189.b)	-	-	-
			Account 930.1			
22					-	-
23					-	-
24					-	-
25					-	-
26					-	-
27					-	-
28					-	-
29					-	-
30					-	-
31					-	-
32					-	-
33					-	-
34					-	-
35					-	-
36					-	-
37					-	-
38			Total (FERC Form 1 p.323.191.b)	-	-	-
			Account 930.2			
39		9302000	Misc General Expenses	3,000	3,000	-
40		9302003	Corporate & Fiscal Expenses	-	-	-
41		9302007	Assoc Business Development Exp	(2,000)	-	(2,000)
42			Total (FERC Form 1 p.323.192.b)	1,000	3,000	(2,000)

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

1	Kentucky State Tax Rate	5.00%	
	Apportionment Factor - Note 1	99.10%	
	Effective State Tax Rate		4.95%
2	_____ Tax Rate		
	Apportionment Factor - Note 1		
	Effective State Tax Rate		0.00%
3	_____ Tax Rate		
	Apportionment Factor - Note 1		
	Effective State Tax Rate		0.00%
4	_____ Tax Rate		
	Apportionment Factor - Note 1		
	Effective State Tax Rate		0.00%
5	_____ Tax Rate		
	Apportionment Factor - Note 1		
	Effective State Tax Rate		0.00%
	Total Effective State Income Tax Rate		<u>4.95%</u>

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

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	-				-
3	Real Estate and Personal Property Taxes					
4	Real and Personal Property - Kentucky	665,000	665,000			
5	Real and Personal Property - Virginia	-	-			
6	Real and Personal Property - Tennessee	-	-			
7	Real and Personal Property - Other Jurisdictions	-	-			
8	Payroll Taxes					
9	Federal Insurance Contribution (FICA)	-		-		
10	Federal Unemployment Tax	-		-		
11	State Unemployment Insurance	-		-		
12	<i>Line Deliberately Left Blank</i>					
13	State Severance Taxes	-				-
14	Miscellaneous Taxes					
15	State Business & Occupation Tax	-				-
16	State Public Service Commission Fees	-			-	
17	State Franchise Taxes	-			-	
18	State Lic/Registration Fee	-			-	
19	Misc. State and Local Tax	-			-	
20	Sales & Use	-				-
21	Federal Excise Tax	-				-
22	Michigan Single Business Tax	-				-
23	Total Taxes by Allocable Basis (Total Company Amount Ties to FFI p.114, Ln 14,(c))	665,000	665,000	-	-	-

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

Functional Property Tax Allocation						
		Lines 24-58 Column (B) Deliberately Left Blank	Transmission	Lines 24-58 Column (D) Deliberately Left Blank	General	Total
24	Functionalized Net Plant (TCOS, Lns 33 thru 36)	-	140,207,000	-	-	140,207,000
	KENTUCKY JURISDICTION					
25	Percentage of Plant in KENTUCKY JURISDICTION		100.00%		100.00%	
26	Net Plant in KENTUCKY JURISDICTION (Ln 24 * Ln 25)	-	140,207,000	-	-	140,207,000
27	Less: Net Value of Exempted Generation Plant					
28	Taxable Property Basis (Ln 26 - Ln 27)	-	140,207,000	-	-	140,207,000
29	Relative Valuation Factor					
30	Weighted Net Plant (Ln 28 * Ln 29)	-	-	-	-	
31	General Plant Allocator (Ln 30 / (Total - General Plant))	0.00%	100.00%	0.00%	-100.00%	
32	Functionalized General Plant (Ln 31 * General Plant)	-	-	-	-	
33	Weighted KENTUCKY JURISDICTION Plant (Ln 30 + 32)	-	-	-	-	
34	Functional Percentage (Ln 33/Total Ln 33)	0.00%	100.00%	0.00%		
	JURISDICTION					
35	Net Plant in JURISDICTION (Ln 24 - Ln 26)	-	-	-	-	
36	Less: Net Value Exempted Generation Plant					
37	Taxable Property Basis	-	-	-	-	
38	Relative Valuation Factor					
39	Weighted Net Plant (Ln 37 * Ln 38)	-	-	-	-	
40	General Plant Allocator (Ln 39 / (Total - General Plant))	0.00%	100.00%	0.00%	-100.00%	
41	Functionalized General Plant (Ln 41 * General Plant)	-	-	-	-	
42	Weighted JURISDICTION Plant (Ln 39 + 41)	-	-	-	-	
43	Functional Percentage (Ln 42/Total Ln 42)	0.00%	100.00%	0.00%		

AEPTCo subsidiaries in PJM
Cost of Service Formula Rate Using Actual/Projected FF1 Balances
Worksheet H page 2 Form 1 Source Reference of Company Amounts on WS H
AEP Kentucky Transmission Company

	(A)	(B)	(C)	(D)		(D)	
Line No.	Annual Tax Expenses by Type (Note 1)	Total Company	FERC FORM 1 Tie-Back	FERC FORM 1 Reference			
1	Revenue Taxes						
2	Gross Receipts Tax	-	-				
	(A)	(B)	(C)	(D)	(E)	(F)	(G)
	"Real Estate and Personal Property Tax Detail Annual Tax Expenses by Type (Note 1)"	Tax Year	Total Company	FERC FORM 1 Tie-Back	FERC FORM 1 Reference	Tax Year Factor (Note 2)	Transmission Function (Note 2)
<u>Real Estate and Personal Property Taxes Total (Ln 4 + Ln 5 + Ln 6 + Ln 7)</u>							
3			665,000				665,000
4	Real and Personal Property - Kentucky		665,000	665,000		100%	665,000
							-
							-
							-
5	Real and Personal Property - Virginia		-	-			-
							-
							-
							-
							-
6	Real and Personal Property - Tennessee		-	-			-
							-
							-
7	Real and Personal Property - Other Jurisdictions		-	-			-
							-

(A)	(B)	(C)	(D)
Line No.	Annual Tax Expenses by Type (Note 1)	Total Company	FERC FORM 1 Tie-Back
8	Payroll Taxes		
9	Federal Insurance Contribution (FICA)	-	-
10	Federal Unemployment Tax	-	-
11	State Unemployment Insurance	-	-
12	<i>Line Left Deliberately Blank</i>		
13	State Severance Taxes	-	-
14	Miscellaneous Taxes		
15	State Business & Occupation Tax	-	-
16	State Public Service Commission Fees	-	-
17	State Franchise Taxes	-	-
18	State Lic/Registration Fee	-	-
19	Misc. State and Local Tax	-	-
20	Sales & Use	-	-
21	Federal Excise Tax	-	-
22	Michigan Single Business Tax	-	-
23	Total Taxes by Allocable Basis (Total Company Amount Ties to FFI p.114, Ln 14.(c))	665,000	665,000

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

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

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

Reserved for Future Use

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

Page 1 of 2

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

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

ROE w/o incentives (TCOS, ln 138)		10.35%
Project ROE Incentive Adder	0	
ROE with additional 0 basis point incentive		10.35%
Determine R (cost of long term debt, cost of preferred stock and equity percentage is from the TCOS, lns 136 through 138)		
	%	Cost
Long Term Debt	47.65%	3.72%
Preferred Stock	0.00%	0.00%
Common Stock	52.35%	10.35%
	R =	7.190%

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

Rate Base (TCOS, ln 58)	120,890,750
R (from A. above)	7.190%
Return (Rate Base x R)	8,691,776

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

Return (from B. above)	8,691,776
Effective Tax Rate (TCOS, ln 97)	25.00%
Income Tax Calculation (Return x CIT)	2,173,164
ITC Adjustment	-
Excess Deferred Income Tax	19,976
Tax Affect of Permanent Differences	31,962
Income Taxes	2,225,102

SUMMARY OF PROJECTED ANNUAL RTEP REVENUE REQUIREMENTS				
	Rev Require	W Incentives	Incentive Amounts	
PROJECTED YEAR	2021	4,259,251	4,259,251	\$ -

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

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

Annual Revenue Requirement (TCOS, ln 1)	17,489,878
Lease Payments (TCOS, Ln 80)	-
Return (TCOS, ln 109)	8,691,776
Income Taxes (TCOS, ln 108)	2,225,102
Annual Revenue Requirement, Less Return and Taxes	6,573,000

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

Annual Revenue Requirement, Less Return and Taxes	6,573,000
Return (from I.B. above)	8,691,776
Income Taxes (from I.C. above)	2,225,102
Annual Revenue Requirement, with 0 Basis Point ROE increase	17,489,878
Depreciation & Amortization (TCOS, ln 83)	3,288,000
Annual Rev. Req. w/0 Basis Point ROE increase, less Depreciation	14,201,878

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

Net Transmission Plant (Projected TCOS, ln 33)	140,207,000
Annual Revenue Requirement, with 0 Basis Point ROE increase	17,489,878
FCR with 0 Basis Point increase in ROE	12.47%
Annual Rev. Req. w / 0 Basis Point ROE increase, less Dep.	14,201,878
FCR with 0 Basis Point ROE increase, less Depreciation	10.13%
FCR less Depreciation (TCOS, ln 10)	10.13%
Incremental FCR with 0 Basis Point ROE increase, less Depreciation	0.00%

III. Calculation of Composite Depreciation Rate

Average Transmission Plant Balance for 2021 TCOS, ln 19	150,817,000
Annual Depreciation and Amortization Expense (TCOS, ln 83)	3,288,000
Composite Depreciation Rate	2.18%
Depreciable Life for Composite Depreciation Rate	45.87
Average Life in Whole Years	46

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

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

Page 2 of 2

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: b1495 (Add an additional 765/345 kV transformer at Baker Station)

Current Projected Year ARR	4,259,25
Current Projected Year ARR w/ Incentive	4,259,25
Current Projected Year Incentive ARR	-

Details			
Investment	38,021,786	Current Year	2021
Service Year (v/vv)	2016	ROE increase accepted by FERC (Basis Points)	
Service Month (1-12)	6	FCR w/o incentives, less depreciation	10.13%
Useful life	46	FCR w/incentives approved for these facilities, less dep.	10.13%
CIAC (Yes or No)	No	Annual Depreciation Expense	826,561

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		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		38,021,786	413,280	37,608,506	4,243,660	4,243,660	\$	\$ 3,748,292	\$ 3,748,292
2017		37,608,506	826,561	36,781,945	4,594,148	4,594,148	\$	\$ 5,097,838	\$ 5,097,838
2018		36,781,945	826,561	35,955,383	4,510,423	4,510,423	\$	\$ 4,201,672	\$ 4,201,672
2019		35,955,383	826,561	35,128,824	4,426,699	4,426,699	\$	\$ 4,412,111	\$ 4,412,111
2020		35,128,824	826,561	34,302,263	4,342,975	4,342,975	\$	\$ 4,517,756	\$ 4,517,756
2021		34,302,263	826,561	33,475,703	4,259,251	4,259,251	\$		
2022		33,475,703	826,561	32,649,142	4,175,527	4,175,527	\$		
2023		32,649,142	826,561	31,822,582	4,091,803	4,091,803	\$		
2024		31,822,582	826,561	30,996,021	4,008,078	4,008,078	\$		
2025		30,996,021	826,561	30,169,461	3,924,354	3,924,354	\$		
2026		30,169,461	826,561	29,342,900	3,840,630	3,840,630	\$		
2027		29,342,900	826,561	28,516,340	3,756,906	3,756,906	\$		
2028		28,516,340	826,561	27,689,779	3,673,182	3,673,182	\$		
2029		27,689,779	826,561	26,863,218	3,589,458	3,589,458	\$		
2030		26,863,218	826,561	26,036,658	3,505,734	3,505,734	\$		
2031		26,036,658	826,561	25,210,097	3,422,009	3,422,009	\$		
2032		25,210,097	826,561	24,383,537	3,338,285	3,338,285	\$		
2033		24,383,537	826,561	23,556,976	3,254,561	3,254,561	\$		
2034		23,556,976	826,561	22,730,416	3,170,837	3,170,837	\$		
2035		22,730,416	826,561	21,903,855	3,087,113	3,087,113	\$		
2036		21,903,855	826,561	21,077,294	3,003,389	3,003,389	\$		
2037		21,077,294	826,561	20,250,734	2,919,664	2,919,664	\$		
2038		20,250,734	826,561	19,424,173	2,835,940	2,835,940	\$		
2039		19,424,173	826,561	18,597,613	2,752,216	2,752,216	\$		
2040		18,597,613	826,561	17,771,052	2,668,492	2,668,492	\$		
2041		17,771,052	826,561	16,944,492	2,584,768	2,584,768	\$		
2042		16,944,492	826,561	16,117,931	2,501,044	2,501,044	\$		
2043		16,117,931	826,561	15,291,370	2,417,320	2,417,320	\$		
2044		15,291,370	826,561	14,464,810	2,333,596	2,333,596	\$		
2045		14,464,810	826,561	13,638,249	2,249,871	2,249,871	\$		
2046		13,638,249	826,561	12,811,689	2,166,147	2,166,147	\$		
2047		12,811,689	826,561	11,985,128	2,082,423	2,082,423	\$		
2048		11,985,128	826,561	11,158,568	1,998,699	1,998,699	\$		
2049		11,158,568	826,561	10,332,007	1,914,975	1,914,975	\$		
2050		10,332,007	826,561	9,505,447	1,831,250	1,831,250	\$		
2051		9,505,447	826,561	8,678,886	1,747,526	1,747,526	\$		
2052		8,678,886	826,561	7,852,325	1,663,802	1,663,802	\$		
2053		7,852,325	826,561	7,025,765	1,580,078	1,580,078	\$		
2054		7,025,765	826,561	6,199,204	1,496,354	1,496,354	\$		
2055		6,199,204	826,561	5,372,644	1,412,630	1,412,630	\$		
2056		5,372,644	826,561	4,546,083	1,328,905	1,328,905	\$		
2057		4,546,083	826,561	3,719,523	1,245,181	1,245,181	\$		
2058		3,719,523	826,561	2,892,962	1,161,457	1,161,457	\$		
2059		2,892,962	826,561	2,066,401	1,077,733	1,077,733	\$		
2060		2,066,401	826,561	1,239,841	994,009	994,009	\$		
2061		1,239,841	826,561	413,280	910,285	910,285	\$		
2062		413,280			434,211	434,211	\$		
2063		-	-	-	-	-	\$		
2064		-	-	-	-	-	\$		
2065		-	-	-	-	-	\$		
2066		-	-	-	-	-	\$		
2067		-	-	-	-	-	\$		
2068		-	-	-	-	-	\$		
2069		-	-	-	-	-	\$		
2070		-	-	-	-	-	\$		
2071		-	-	-	-	-	\$		
2072		-	-	-	-	-	\$		
2073		-	-	-	-	-	\$		
2074		-	-	-	-	-	\$		
2075		-	-	-	-	-	\$		
Project Totals			38,021,786		128,527,597	128,527,597	-		

** 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.

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

RESERVED FOR FUTURE USE

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

Line No	Month (a)	Average Balance of Common Equity				Average Balance of Common Equity (f)=(b)-(c)-(d)-(e)
		Proprietary Capital (b)	Less: Preferred Stock (c)	Less Undistributed Sub Earnings (Acct 216.1) (d)	Less AOCI (Acct 219.1) (e)	
	(Note A)	(FF1 112.16)	(FF1 250-251)	(FF1 112.12)	(FF1 112.15)	
1	December Prior to Rate Year	60,946,000	-	-	-	60,946,000
2	January	61,603,000	-	-	-	61,603,000
3	February	62,188,000	-	-	-	62,188,000
4	March	63,819,000	-	-	-	63,819,000
5	April	65,849,000	-	-	-	65,849,000
6	May	67,608,000	-	-	-	67,608,000
7	June	69,514,000	-	-	-	69,514,000
8	July	71,677,000	-	-	-	71,677,000
9	August	73,250,000	-	-	-	73,250,000
10	September	74,801,000	-	-	-	74,801,000
11	October	78,383,000	-	-	-	78,383,000
12	November	80,527,000	-	-	-	80,527,000
13	December of Rate Year	84,069,000	-	-	-	84,069,000
14	Average of the 13 Monthly Balances	70,326,000	-	-	-	70,326,000

Line No	Month (a)	Average Balance of Long Term Debt					Gross Proceeds Outstanding Long-Term Debt (g)=(b)-(c)+(d)+(e)-(f)
		Bonds (b)	Less: Recquired Bonds (c)	Acct 223 LT Advances from Assoc. Companies (d)	Acct 224 Senior Unsecured Notes (e)	Less: Fair Value Hedges (f)	
	(Note A)	(FF1 112.18)	(FF1 112.19)	(FF1 112.20)	(FF1 112.21)	FF1, page 257, Col. (h) - Note 1	
15	December Prior to Rate Year	-	-	64,000,000	-	-	64,000,000
16	January	-	-	64,000,000	-	-	64,000,000
17	February	-	-	64,000,000	-	-	64,000,000
18	March	-	-	64,000,000	-	-	64,000,000
19	April	-	-	64,000,000	-	-	64,000,000
20	May	-	-	64,000,000	-	-	64,000,000
21	June	-	-	64,000,000	-	-	64,000,000
22	July	-	-	64,000,000	-	-	64,000,000
23	August	-	-	64,000,000	-	-	64,000,000
24	September	-	-	64,000,000	-	-	64,000,000
25	October	-	-	64,000,000	-	-	64,000,000
26	November	-	-	64,000,000	-	-	64,000,000
27	December of Rate Year	-	-	64,000,000	-	-	64,000,000
28	Average of the 13 Monthly Balances	-	-	64,000,000	-	-	64,000,000

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

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

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

	(a)	(b)	(c)	(d)	(e)	(f)	(g)
29	Annual Interest Expense for 2021						
30	Interest on Long Term Debt - Accts 221 - 224 (256-257.33.i)			2,379,000			
	Less: Total Hedge Gain/Expense Accumulated from p 256-257, col. (i) of FERC Form 1						
31	included in Ln 30 and shown in 43 below.			-			
32	Amort of Debt Discount & Expense - Acct 428 (117.63.c)						
33	Amort of Loss on Reacquired Debt - Acct 428.1 (117.64.c)						
34	Less: Amort of Premium on Debt - Acct 429 (117.65.c)						
35	Less: Amort of Gain on Reacquired Debt - Acct 429.1 (117.66.c)						
36	Total Interest Expense (Ln 30 - 31 + 32 + 33 - 34 - 35)			2,379,000			
37	Average Cost of Debt for 2021 (Ln 36/ Ln 28 (g))			3.72%			

CALCULATION OF HEDGE GAINS/LOSSES TO BE EXCLUDED FROM TCOS

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

	HEDGE AMOUNTS BY ISSUANCE (FROM p. 256-257 (i) of the FERC Form 1)	(Amortization of (Gain)/Loss for 2021	Remaining Unamortized Balance	Amortization Period	
				Beginning	Ending
39					
40					
41					
42					
43	Net (Gain)/Loss Hedge Amortization To Be Removed	-	-	-	-

Development of Cost of Preferred Stock

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

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

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

	(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		-		-	

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

PBOP	(A)	(B)
1	<u>Calculation of PBOP Expenses</u>	
2	<u>AEP System PBOP Rate</u>	
3	Total AEP System PBOP expenses	-\$80,136,000
4	Base Year relating to retired personnel	\$0
5	Amount allocated on Labor	-\$80,136,000
6	Total AEP System Direct Labor Expense	\$1,454,108,000
7	AEP System PBOP expense per dollar of direct labor (PBOP Rate)	-\$0.055
8	Currently Approved PBOP Rate	-\$0.043
9	Base PBOP TransCo labor expensed in current year	\$514,000
10	Allowable TransCo PBOP Expense for current year (Ln 8 * Ln 9)	-\$22,000
11	Direct PBOP Expense per Actuarial Report	\$0
12	Additional PBOP Ledger Entry (From Company Records)	\$0
13	Medicare Credit	\$0
14	PBOP Expenses From AEP Affiliates (From Company Records)	-\$45,000
15	Actual PBOP Expense (Sum Lines 11-14)	-\$45,000
16	PBOP Adjustment Line 10 less Line 15	\$23,000

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

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

AEPTCo subsidiaries in PJM
Worksheet - P
DEPRECIATION RATES
FOR TRANSMISSION PLANT PROPERTY ACCOUNTS
EFFECTIVE AS OF 07/01/2015

AEP Kentucky Transmission Company

	PLANT ACCT.	RATES Note 1
<u>TRANSMISSION PLANT</u>		
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 Conductor	356.0	2.91%
Underground Conduit	357.0	2.99%
Underground Conductors	358.0	2.62%

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

<u>Composite Depreciation Rate</u>	<u>KPCo</u>	<u>TOTAL</u>
T-Plant (FF1 206.58.g)	438,744,866	438,744,866
T-Plant (FF1 206.58.b)	431,804,417	431,804,417
Average (Ln 1+ Ln 2)/2	435,274,642	435,274,642
Depreciation (FF1 336.7.f)	7,420,678	7,420,678
Composite Depreciation (Ln 3 / Ln 4)		1.70%

Note: AEP KENTUCKY TRANSMISSION COMPANY shall initially use the composite depreciation rate for KPCo shown above to estimate depreciation expense for transmission projects in Worksheets J and K until a composite depreciation rate based on transmission plant in service and depreciation expenses recorded by AEP KENTUCKY TRANSMISSION COMPANY for its own transmission facilities can be calculated in AEP KENTUCKY TRANSMISSION COMPANY's the first Annual Update including a True-Up TCOS.

Line	Appalachian Power Company	Indiana Michigan Power Company	Kentucky Power Company	Kingsport Power Company	Ohio Power Company	Wheeling Power Company	AEP East Operating Companies' Consolidated Capital Structure
<u>Development of Long Term Debt Balances at Year End</u>							
1 Bonds (112.18.c&d)							-
2 Less: Reacquired Bonds (112.19.c&d)							-
3 LT Advances from Assoc. Companies (112.20.c&d)							-
4 Senior Unsecured Notes (112.21.c&d) Excludes Spent Nuc Fuel Disp Fund							-
5 Less: Fair Value Hedges (See Note on Ln 7 below)							-
6 Total Long Term Debt Balance	-	-	-	-	-	-	-
7 NOTE: 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)							
<u>Development of Long Term Debt Interest Expense</u>							
8 Interest on Long Term Debt (256-257.33.i)							-
9 Amort of Debt Discount & Expense (117.63.c)							-
10 Amort of Loss on Reacquired Debt (117.64.c)							-
11 Less: Amort of Premium on Debt (117.65.c)							-
12 Less: Amort of Gain on Reacquired Debt (117.66.c)							-
13 Less: Hedge Interest on pp 256-257(i)							-
14 LTD Interest Expense	-	-	-	-	-	-	-
<u>Development of Cost of Preferred Stock and Preferred Dividends</u>							
15 Dividend Rate (p. 250-251. 7.a)							-
16 Par Value (p. 250-251. 8.c)							-
17 Shares Outstanding (p.250-251. 8.e)							-
18 Monetary Value (Ln 16 * Ln 17)	-	-	-	-	-	-	-
19 Dividend Amount (Ln 15 * Ln 18)	-	-	-	-	-	-	-
20 Dividend Rate (p. 250-251. 7.a)							-
21 Par Value (p. 250-251. 8.c)							-
22 Shares Outstanding (p.250-251. 8.e)							-
23 Monetary Value (Ln 21 * Ln 22)	-	-	-	-	-	-	-
24 Dividend Amount (Ln 20 * Ln 23)	-	-	-	-	-	-	-
25 Dividend Rate (p. 250-251. 7.a)							-
26 Par Value (p. 250-251. 8.c)							-
27 Shares Outstanding (p.250-251. 8.e)							-
28 Monetary Value (Ln 26 * Ln 27)	-	-	-	-	-	-	-
29 Dividend Amount (Ln 25 * Ln 28)	-	-	-	-	-	-	-
30 Dividend Rate (p. 250-251. 7.a)							-
31 Par Value (p. 250-251. 8.c)							-
32 Shares Outstanding (p.250-251. 8.e)							-
33 Monetary Value (Ln 31 * Ln 32)	-	-	-	-	-	-	-
34 Dividend Amount (Ln 30 * Ln 33)	-	-	-	-	-	-	-
35 Preferred Stock (Lns 18, 23, 28,33)	-	-	-	-	-	-	-
36 Preferred Dividends (Lns 19, 24, 29,34)	-	-	-	-	-	-	-
<u>Development of Common Equity</u>							
37 Proprietary Capital (112.16.c)							-
38 Less: Preferred Stock (Ln 35 Above)	-	-	-	-	-	-	-
39 Less: Account 216.1 (112.12.c)							-
40 Less: Account 219.1 (112.15.c)							-
41 Balance of Common Equity	-	-	-	-	-	-	-
<u>Calculation of Capital Shares</u>							
42 Long Term Debt (Ln 6 Above)	-	-	-	-	-	-	-
43 Preferred Stock (Ln 35 Above)	-	-	-	-	-	-	-
44 Common Equity (Ln 41 Above)	-	-	-	-	-	-	-
45 Total Company Structure	-	-	-	-	-	-	-
46 LTD Capital Shares (Ln 42 / Ln 45)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
47 Preferred Stock Capital Shares (Ln 43 / Ln 45)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
48 Common Equity Capital Shares (Ln 44 / Ln 45)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
49 Reserved							
50 Reserved							
51 Reserved							
52 Reserved							
<u>Calculation of Capital Cost Rate</u>							
53 LTD Capital Cost Rate (Ln 14 / Ln 6)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
54 Preferred Stock Capital Cost Rate (Ln 36 / Ln 35)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
55 Common Equity Capital Cost Rate	11.49%	11.49%	11.49%	11.49%			

	Appalachian Power Company	Indiana Michigan Power Company	Kentucky Power Company	Kingsport Power Company	Ohio Power Company	Wheeling Power Company	AEP East Operating Companies' Consolidated Capital Structure
Line							
<u>Development of Long Term Debt Balances at Year End</u>							
60 Bonds (112.18.c&d)							-
61 Less: Reacquired Bonds (112.19.c&d)							-
62 LT Advances from Assoc. Companies (112.20.c&d)							-
63 Senior Unsecured Notes (112.21.c&d) Excludes Spent Nuc Fuel Disp Fund							-
64 Less: Fair Value Hedges (See Note on Ln 66 below)							-
65 Total Long Term Debt Balance	-	-	-	-	-	-	-
66 NOTE: 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. (p. 257 , Column H of the FF1)							
<u>Development of Long Term Debt Interest Expense</u>							
67 Interest on Long Term Debt (256-257.33.i)							-
68 Amort of Debt Discount & Expense (117.63.c)							-
69 Amort of Loss on Reacquired Debt (117.64.c)							-
70 Less: Amort of Premium on Debt (117.65.c)							-
71 Less: Amort of Gain on Reacquired Debt (117.66.c)							-
72 Less: Hedge Interest on pp 256-257(i)							-
73 LTD Interest Expense	-	-	-	-	-	-	-
<u>Development of Cost of Preferred Stock and Preferred Dividends</u>							
74 Dividend Rate (p. 250-251. 7.a)							
75 Par Value (p. 250-251. 8.c)							
76 Shares Outstanding (p.250-251. 8.e)							
77 Monetary Value (Ln 75 * Ln 76)	-	-	-	-	-	-	-
78 Dividend Amount (Ln 74 * Ln 77)	-	-	-	-	-	-	-
79 Dividend Rate (p. 250-251. 7.a)							
80 Par Value (p. 250-251. 8.c)							
81 Shares Outstanding (p.250-251. 8.e)							
82 Monetary Value (Ln 80 * Ln 81)	-	-	-	-	-	-	-
83 Dividend Amount (Ln 79 * Ln 82)	-	-	-	-	-	-	-
84 Dividend Rate (p. 250-251. 7.a)							
85 Par Value (p. 250-251. 8.c)							
86 Shares Outstanding (p.250-251. 8.e)							
87 Monetary Value (Ln 85 * Ln 86)	-	-	-	-	-	-	-
88 Dividend Amount (Ln 84 * Ln 87)	-	-	-	-	-	-	-
89 Dividend Rate (p. 250-251. 7.a)							
90 Par Value (p. 250-251. 8.c)							
91 Shares Outstanding (p.250-251. 8.e)							
92 Monetary Value (Ln 90 * Ln 91)	-	-	-	-	-	-	-
93 Dividend Amount (Ln 89 * Ln 92)	-	-	-	-	-	-	-
94 Preferred Stock (Lns 77, 82, 87,92)	-	-	-	-	-	-	-
95 Preferred Dividends (Lns 78, 83, 88,93)	-	-	-	-	-	-	-
<u>Development of Common Equity</u>							
96 Proprietary Capital (112.16.c)							-
97 Less: Preferred Stock (Ln 94 Above)	-	-	-	-	-	-	-
98 Less: Account 216.1 (112.12.c)							-
99 Less: Account 219.1 (112.15.c)							-
100 Balance of Common Equity	-	-	-	-	-	-	-
<u>Calculation of Capital Shares</u>							
101 Long Term Debt (Ln 65 Above)	-	-	-	-	-	-	-
102 Preferred Stock (Ln 94 Above)	-	-	-	-	-	-	-
103 Common Equity (Ln 100 Above)	-	-	-	-	-	-	-
104 Total Company Structure	-	-	-	-	-	-	-
105 LTD Capital Shares (Ln 101 / Ln 104)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
106 Preferred Stock Capital Shares (Ln 102 / Ln 104)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
107 Common Equity Capital Shares (Ln 103 / Ln 104)	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
108 Reserved							
109 Reserved							
110 Reserved							
111 Reserved							
<u>Calculation of Capital Cost Rate</u>							

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

Reconciliation Revenue Requirement For Year 2019 Available May 25, 2020	-	2019 Forecasted Revenue Requirement For Year 2019	=	True-up Adjustment - Over (Under) Recovery
\$9,072,901		\$9,797,731		\$724,830

Interest Rate on Amount of Refunds or Surcharges (Note 1)	Over (Under) Recovery Plus Interest	Average Monthly Interest Rate	Months	Calculated Interest	Amortization	Surcharge (Refund) Owed
		0.4195%				
An over or under collection will be recovered prorata over 2018, held for 2019 and returned prorata over 2020						
<u>Calculation of Interest</u>				Monthly		
January	Year 2019	60,403	0.4195%	12	(3,041)	(63,443)
February	Year 2019	60,403	0.4195%	11	(2,787)	(63,190)
March	Year 2019	60,403	0.4195%	10	(2,534)	(62,936)
April	Year 2019	60,403	0.4195%	9	(2,280)	(62,683)
May	Year 2019	60,403	0.4195%	8	(2,027)	(62,430)
June	Year 2019	60,403	0.4195%	7	(1,774)	(62,176)
July	Year 2019	60,403	0.4195%	6	(1,520)	(61,923)
August	Year 2019	60,403	0.4195%	5	(1,267)	(61,669)
September	Year 2019	60,403	0.4195%	4	(1,014)	(61,416)
October	Year 2019	60,403	0.4195%	3	(760)	(61,163)
November	Year 2019	60,403	0.4195%	2	(507)	(60,909)
December	Year 2019	60,403	0.4195%	1	(253)	(60,656)
					(19,764)	(744,594)
				Annual		
January through December	Year 2019	(744,594)	0.4195%	12	(37,483)	(782,077)
<u>Over (Under) Recovery Plus Interest Amortized and Recovered Over 12 Months</u>				Monthly		
January	Year 2021	782,077	0.4195%		(3,281)	(718,394)
February	Year 2021	718,394	0.4195%		(3,014)	(654,444)
March	Year 2021	654,444	0.4195%		(2,745)	(590,226)
April	Year 2021	590,226	0.4195%		(2,476)	(525,738)
May	Year 2021	525,738	0.4195%		(2,205)	(460,979)
June	Year 2021	460,979	0.4195%		(1,934)	(395,949)
July	Year 2021	395,949	0.4195%		(1,661)	(330,646)
August	Year 2021	330,646	0.4195%		(1,387)	(265,070)
September	Year 2021	265,070	0.4195%		(1,112)	(199,218)
October	Year 2021	199,218	0.4195%		(836)	(133,090)
November	Year 2021	133,090	0.4195%		(558)	(66,684)
December	Year 2021	66,684	0.4195%		(280)	(0)
					(21,489)	
True-Up Adjustment with Interest					(803,566)	
Less Over (Under) Recovery					724,830	
Total Interest					(78,736)	

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 true-up through August 31 of the following year.

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

Reconciliation Revenue Requirement For Year 2019 Available May 25, 2020	-	2019 Forecasted Revenue Requirement For Year 2019	=	True-up Adjustment - Over (Under) Recovery
\$4,359,250		\$4,412,111		\$52,860

Interest Rate on Amount of Refunds or Surcharges (Note 1)	Over (Under) Recovery Plus Interest	Average Monthly Interest Rate	Months	Calculated Interest	Amortization	Surcharge (Refund) Owed
		0.4195%				
An over or under collection will be recovered prorata over 2018, held for 2019 and returned prorata over 2020						
<u>Calculation of Interest</u>				Monthly		
January	Year 2019	4,405	0.4195%	12	(222)	(4,627)
February	Year 2019	4,405	0.4195%	11	(203)	(4,608)
March	Year 2019	4,405	0.4195%	10	(185)	(4,590)
April	Year 2019	4,405	0.4195%	9	(166)	(4,571)
May	Year 2019	4,405	0.4195%	8	(148)	(4,553)
June	Year 2019	4,405	0.4195%	7	(129)	(4,534)
July	Year 2019	4,405	0.4195%	6	(111)	(4,516)
August	Year 2019	4,405	0.4195%	5	(92)	(4,497)
September	Year 2019	4,405	0.4195%	4	(74)	(4,479)
October	Year 2019	4,405	0.4195%	3	(55)	(4,460)
November	Year 2019	4,405	0.4195%	2	(37)	(4,442)
December	Year 2019	4,405	0.4195%	1	(18)	(4,424)
					(1,441)	(54,302)
January through December	Year 2019	(54,302)	0.4195%	12	Annual (2,734)	(57,035)
<u>Over (Under) Recovery Plus Interest Amortized and Recovered Over 12 Months</u>				Monthly		
January	Year 2021	57,035	0.4195%		(239)	4,884 (52,391)
February	Year 2021	52,391	0.4195%		(220)	4,884 (47,727)
March	Year 2021	47,727	0.4195%		(200)	4,884 (43,044)
April	Year 2021	43,044	0.4195%		(181)	4,884 (38,341)
May	Year 2021	38,341	0.4195%		(161)	4,884 (33,618)
June	Year 2021	33,618	0.4195%		(141)	4,884 (28,876)
July	Year 2021	28,876	0.4195%		(121)	4,884 (24,113)
August	Year 2021	24,113	0.4195%		(101)	4,884 (19,331)
September	Year 2021	19,331	0.4195%		(81)	4,884 (14,529)
October	Year 2021	14,529	0.4195%		(61)	4,884 (9,706)
November	Year 2021	9,706	0.4195%		(41)	4,884 (4,863)
December	Year 2021	4,863	0.4195%		(20)	4,884 0
					(1,567)	
True-Up Adjustment with Interest					(58,602)	
Less Over (Under) Recovery					52,860	
Total Interest					(5,742)	

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 true-up through August 31 of the following year.

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

Reconciliation Revenue Requirement For Year 2019 Available May 25, 2020	-	2019 Forecasted Revenue Requirement For Year 2019	=	True-up Adjustment - Over (Under) Recovery
\$110,989		\$69,000		(\$41,989)

Interest Rate on Amount of Refunds or Surcharges (Note 1)		Over (Under) Recovery Plus Interest	Average Monthly Interest Rate	Months	Calculated Interest	Amortization	Surcharge (Refund) Owed
			0.4195%				
An over or under collection will be recovered prorata over 2018, held for 2019 and returned prorata over 2020							
<u>Calculation of Interest</u>					Monthly		
January	Year 2019	(3,499)	0.4195%	12	176		3,675
February	Year 2019	(3,499)	0.4195%	11	161		3,661
March	Year 2019	(3,499)	0.4195%	10	147		3,646
April	Year 2019	(3,499)	0.4195%	9	132		3,631
May	Year 2019	(3,499)	0.4195%	8	117		3,617
June	Year 2019	(3,499)	0.4195%	7	103		3,602
July	Year 2019	(3,499)	0.4195%	6	88		3,587
August	Year 2019	(3,499)	0.4195%	5	73		3,572
September	Year 2019	(3,499)	0.4195%	4	59		3,558
October	Year 2019	(3,499)	0.4195%	3	44		3,543
November	Year 2019	(3,499)	0.4195%	2	29		3,528
December	Year 2019	(3,499)	0.4195%	1	15		3,514
					1,145		43,134
January through December					Annual		
Year 2019		43,134	0.4195%	12	2,171		45,305
<u>Over (Under) Recovery Plus Interest Amortized and Recovered Over 12 Months</u>					Monthly		
January	Year 2021	(45,305)	0.4195%		190	(3,879)	41,616
February	Year 2021	(41,616)	0.4195%		175	(3,879)	37,912
March	Year 2021	(37,912)	0.4195%		159	(3,879)	34,192
April	Year 2021	(34,192)	0.4195%		143	(3,879)	30,456
May	Year 2021	(30,456)	0.4195%		128	(3,879)	26,704
June	Year 2021	(26,704)	0.4195%		112	(3,879)	22,937
July	Year 2021	(22,937)	0.4195%		96	(3,879)	19,154
August	Year 2021	(19,154)	0.4195%		80	(3,879)	15,355
September	Year 2021	(15,355)	0.4195%		64	(3,879)	11,541
October	Year 2021	(11,541)	0.4195%		48	(3,879)	7,710
November	Year 2021	(7,710)	0.4195%		32	(3,879)	3,863
December	Year 2021	(3,863)	0.4195%		16	(3,879)	(0)
					1,245		
True-Up Adjustment with Interest						46,550	
Less Over (Under) Recovery						(41,989)	
Total Interest						4,561	

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 true-up through August 31 of the following year.