ALSTON & BIRD

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May 15, 2020

By eFiling
Ms. Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
888 First Street, N.E.
Washington, DC 20426

Re: Trans-Allegheny Interstate Line Company
Informational Filing of 2020 Formula Rate Annual Update
Docket No. ER07-562-000

Dear Secretary Bose:

Pursuant to the Commission's order dated May 31, 2007 in Docket No. ER07-562-000¹ and the uncontested settlement approved by the Commission in an order dated July 21, 2008 in Docket No. ER07-562-004,² Trans-Allegheny Interstate Line Company ("TrAILCo") hereby submits for informational purposes its 2020 Annual Update to recalculate its annual transmission revenue requirements ("Annual Update").

The Annual Update includes (i) a reconciliation of the annual transmission revenue requirements for the 2019 Rate Year³ (Attachment 1), (ii) the annual transmission revenue requirements for the 2020 Rate Year to become effective on June 1, 2020 (Attachment 2), and (iii) a detailed accounting of transfers between construction work in progress ("CWIP") and Plant in Service as required by the May 31 Order (Attachment 3).

I. Background

TrAILCo's formula rate implementation protocols ("Protocols") on file with the Commission specify that:

b. On or before May 15 of each year, TrAILCo shall recalculate its Annual Transmission Revenue Requirements, producing the "Annual Update" for the upcoming Rate Year, and post such Annual Update on PJM's Internet website via link to the Transmission Services page or a similar successor page. The Annual Update, which shall show separately the transmission revenue requirement

¹ Trans-Allegheny Interstate Line Co., 119 FERC ¶ 61,219 at P 59 (2007) ("May 31 Order").

² Trans-Allegheny Interstate Line Co., 124 FERC ¶ 61,075 (2008).

The "Rate Year" begins on June 1 of a given calendar year and continues through May 31 of the subsequent calendar year.

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for each TrAILCo facility listed in Schedule 12 - Appendix as subject to these procedures, shall also be provided to FERC in an informational filing.

c. If the date for making the Annual Update posting/filing should fall on a weekend or a holiday recognized by the FERC, then the posting/filing shall be due on the next business day.⁴

II. Description of Filing

The Annual Update attached hereto and submitted to PJM for posting on its Internet website via link to the Transmission Services page includes a recalculation of TrAILCo's annual transmission revenue requirements. The Annual Update contains no expenses or costs that have been alleged or judged in any administrative or judicial proceeding to be illegal, duplicative, or unnecessary costs that are demonstrably the product of discriminatory employment practices, as defined in 18 C.F.R. § 35.13(b)(7) (2020). In addition, please note that TrAILCo has made no material changes in its accounting policies and practices from those in effect during the previous Rate Year and upon which the current rate is based.

As specified in Section 1 of the Protocols, this filing is informational only. Any challenges to the implementation of the TrAILCo formula rate must be made through the challenge procedures described in Sections 3 and 4 of the Protocols or in a separate complaint proceeding, and not in response to this Informational Filing.

III. Communications

Communications with respect to this Informational Filing should be directed to the following individuals whose names should be entered on the official service list for this docket.⁵

P. Nikhil Rao Senior Corporate Counsel FirstEnergy Service Company 76 South Main Street Akron, OH 44308 (330) 384-2422 pnrao@firstenergycorp.com Morgan E. Parke Associate General Counsel FirstEnergy Service Company 76 South Main Street Akron, OH 44308 (330) 384-4595 mparke@firstenergycorp.com

PJM Interconnection, L.L.C., Open Access Transmission Tariff as filed with the Commission in Docket No. ER10-2710 on September 17, 2010, Attachment H-18B, Sections 1(b), (c), as amended in Docket No. ER11-2801 (effective Sept. 17, 2010). As provided in Section 1(b) of the Protocols, this 2020 Annual Update is an Informational Filing and therefore does not require any Commission action.

ATSI requests waiver of 18 C.F.R. § 385.203(b)(3) (2020) to the extent necessary to include more than two names on the official service list.

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IV. Conclusion

Thank you for your attention to this matter. Please direct any questions to the undersigned.

Respectfully submitted,

/s/ Richard P. Sparling

Morgan E. Parke Associate General Counsel P. Nikhil Rao Senior Corporate Counsel FirstEnergy Service Company 76 South Main Street Akron, OH 44308 (330) 384-2422 Richard P. Sparling Alston & Bird LLP 950 F Street, NW Washington, DC 20004 (202) 239-3300

Attorneys for Trans-Allegheny Interstate Line Company

Enclosures

ATTACHMENT 1

Reconciliation of 2019

Annual Transmission Revenue Requirements

ATTACHMENT H-18A

Tra	ns-Allegheny Interstate Line Company			
Forr	nula Rate Appendix A	Notes	FERC Form 1 Page # or Instruction	TrAILCo
	ided cells are input cells			-
	·			2019 Reconciliation
Alloca	ators			
	Wages & Salary Allocation Factor			
1	Transmission Wages Expense		p354.21.b	0
2	Total Wages Expense		p354.28.b	0
3	Less A&G Wages Expense Total Wages Less A&G Wages Expense		p354.27.b (Line 2 - Line 3)	<u> </u>
-			,	<u> </u>
5	Wages & Salary Allocator		(Line 1 / Line 4), if line 2 = 0, then 100%	100.0000%
	Plant Allocation Factors			
6 7	Electric Plant in Service Total Plant In Service	(Note B)	Attachment 5 (Line 6)	2,179,764,620 2,179,764,620
1	Total Plant in Service		(Line 6)	2,179,764,620
8	Accumulated Depreciation (Total Electric Plant)		Attachment 5	302,618,322
9	Total Accumulated Depreciation		(Line 8)	302,618,322
10	Net Plant		(Line 7 - Line 9)	1,877,146,298
11	Transmission Gross Plant		(Line 15 + Line 21)	2,179,764,620
12	Gross Plant Allocator		(Line 11 / Line 7, if Line 7=0, enter 100%)	100.0000%
13	Transmission Net Plant		(Line 11 - Line 29)	1,877,146,298
14	Net Plant Allocator		(Line 13 / Line 10, if line 10=0, enter 100%)	100.0000%
Plant	Calculations			
15	Transmission Plant Transmission Plant In Service	(Note B)	Attachment 5	2,072,035,178
16	New Trans. Plant Adds. for Current Calendar Year (13 average balance)	(Note B)	Attachment 6	0
17	Total Transmission Plant		(Line 15 + Line 16)	2,072,035,178
18	General & Intangible		Attachment 5	107,729,442
19	Total General & Intangible		(Line 18)	107,729,442
20 21	Wage & Salary Allocator Transmission Related General and Intangible Plant		(Line 5) (Line 19 * Line 20)	100.0000% 107,729,442
-00	·		,	, ,
22	Transmission Related Plant		(Line 17 + Line 21)	2,179,764,620
	Accumulated Depreciation			
23	Transmission Accumulated Depreciation	(Note B)	Attachment 5	275,769,423
24	Accumulated General Depreciation		Attachment 5	11,001,281
25 26	Accumulated Intangible Amortization Total Accumulated General and Intangible Depreciation		Attachment 5 (Sum Lines 24 to 25)	15,847,619 26,848,900
27	Wage & Salary Allocator		(Sum Lines 24 to 25) (Line 5)	100.0000%
28	Transmission Related General & Intangible Accumulated Depreciation		(Line 26 * Line 27)	26,848,900
29	Total Transmission Related Accumulated Depreciation		(Line 23 + Line 28)	302,618,322
30	Total Transmission Related Net Property, Plant & Equipment		(Line 22 - Line 29)	1,877,146,298

ADIT net of FASB 106 and 109 Enter Negative			
ADIT net of FASB 106 and 109 Enter Negative Transmission Related Accumulated Deferred Income Taxes		Attachment 1 (Line 31)	-409,344, - 409.344 .
Transmission Related Accumulated Deferred income Taxes		(Line 31)	-403,344,
Transmission Related CWIP (Current Year 13 Month weighted average balances)	(Note B)	p216.b.43 as shown on Attachment 6	10,
Transmission Related Land Held for Future Use	(Note C)	Attachment 5	
Transmission Related Pre-Commercial Costs Capitalized			
Unamortized Capitalized Pre-Commercial Costs		Attachment 5	
Prepayments			
Transmission Related Prepayments	(Note A)	Attachment 5	124,
Materials and Supplies			
Undistributed Stores Expense Wage & Salary Allocator	(Note A)	Attachment 5 (Line 5)	100.000
Total Undistributed Stores Expense Allocated to Transmission		(Line 37 * Line 38)	100.000
Transmission Materials & Supplies		Attachment 5	
Transmission Related Materials & Supplies		(Line 39 + Line 40)	
Cash Working Capital		# D	
Operation & Maintenance Expense 1/8th Rule		(Line 74) 1/8	16,039, 12
Transmission Related Cash Working Capital		(Line 42 * Line 43)	2,004,9
Total Adjustment to Rate Base		(Lines 32 + 33 + 34 + 35+ 36 + 41 + 44)	-407,204,
Rate Base		(Line 30 + Line 45)	1,469,941,
Transmission O&M Transmission O&M		p321.112.b	8,238,
Less Account 566 Misc Trans Exp listed on line 73 below.)		(line 73)	1,351,
Less Account 565		p321.96.b	
Plus Schedule 12 Charges billed to Transmission Owner and booked to Account 565 Plus Property Under Capital Leases	(Note M)	PJM Data p200.4.c	
Transmission O&M		(Lines 47 - 48 - 49 + 50 + 51)	6,886,
A&G Expenses			
Total A&G		p323.197.b	7,800,
Less Property Insurance Account 924		p323.185.b	34,
Less Regulatory Commission Exp Account 928	(Note E)	p323.189.b	
Less General Advertising Exp Account 930.1		p323.191.b	
Less PBOP Adjustment Less EPRI Dues	(Note D)	Attachment 5 p352 & 353	
A&G Expenses	(Note D)	(Line 53) - Sum (Lines 54 to 58)	7,765,
Wage & Salary Allocator		(Line 5)	100.000
Transmission Related A&G Expenses		(Line 59 * Line 60)	7,765
Directly Assigned A&G			
Regulatory Commission Exp Account 928	(Note G)	Attachment 5	
General Advertising Exp Account 930.1 Subtotal - Accounts 928 and 930.1 - Transmission Related	(Note J)	Attachment 5 (Line 62 + Line 63)	
		_	
Property Insurance Account 924 General Advertising Exp Account 930.1	(Note F)	p323.185.b Attachment 5	34,
Total Accounts 928 and 930.1 - General	(Note F)	(Line 65 + Line 66)	34
Net Plant Allocator		(Line 14)	100.000
A&G Directly Assigned to Transmission		(Line 67 * Line 68)	34,
Account 566 Miscellaneous Transmission Expense			
Amortization Expense on Pre-Commercial Cost	Account 566	Attachment 5	
Pre-Commercial Expense	Account 566	Attachment 5	
Miscellaneous Transmission Expense	Account 566	Attachment 5	1,351,
Total Account 566		Sum (Lines 70 to 72)	1,351,7
Total Transmission O&M		(Lines 52 + 61 + 64 + 69 + 73)	16,039,

126,264,220

epre	ciation & Amortization Expense				
	Depreciation Expense				
75	Transmission Depreciation Expense			Attachment 5	44,096,294
76	General Depreciation			Attachment 5	2,345,101
77	Intangible Amortization		(Note A)	Attachment 5	3,177,866
78	Total			(Line 76 + Line 77)	5,522,967
79	Wage & Salary Allocator			(Line 5)	100.0000%
80	Transmission Related General Depreciation and Intangible	Amortization		(Line 78 * Line 79)	5,522,967
81	Total Transmission Depreciation & Amortization			(Lines 75 + 80)	49,619,261
axes	Other than Income				
82	Transmission Related Taxes Other than Income			Attachment 2	14,413,947
83	Total Taxes Other than Income			(Line 82)	14,413,947
Retur	n / Capitalization Calculations				
84	Preferred Dividends		enter positive	p118.29.c	0
85	Common Stock Proprietary Capital			p112.16.c	934,033,865
86	Less Accumulated Other Comprehensive Income Account 21	10		p112.15.c	934,033,665
87	Less Preferred Stock	19		(Line 95)	0
88	Less Account 216.1			p112.12.c	
89	Common Stock			(Line 85 - 86 - 87 - 88)	934,033,865
	Capitalization				
90	Long Term Debt		(Note N)		624,783,740
91	Less Unamortized Loss on Reacquired Debt			p111.81.c	0
92 93	Plus Unamortized Gain on Reacquired Debt Less ADIT associated with Gain or Loss			p113.61.c Attachment 1	0
94	Total Long Term Debt			(Line 90 - 91 + 92 - 93)	624,783,740
95	Preferred Stock			p112.3.c	024,763,740
96	Common Stock			(Line 89)	934,033,865
97	Total Capitalization			(Sum Lines 94 to 96)	1,558,817,605
98		otal Long Term Debt	(Note N)	(Line 94 /Line 97)	40.0806%
99		Preferred Stock	(Note N)	(Line 95 /Line 97)	0.0000%
100	Common %	Common Stock	(Note N)	(Line 96 /Line 97)	59.9194%
101		otal Long Term Debt		(1) 04 (1) 05)	0.0394
		Preferred Stock Common Stock	(Note I)	(Line 84 / Line 95) The most recent FERC approved ROE	0.0000 0.1170
102 103				• •	
103	Weighted Cost of Deht	otal Long Term Debt (WCLTD)		(Line 98 * Line 101)	0.0158
103 104		otal Long Term Debt (WCLTD)		(Line 98 * Line 101) (Line 99 * Line 102)	0.0158 0.0000
103	Weighted Cost of Preferred F	otal Long Term Debt (WCLTD) Preferred Stock Common Stock		(Line 98 * Line 101) (Line 99 * Line 102) (Line 100 * Line 103)	0.0158 0.0000 0.0701

(Line 46 * Line 107)

108 Investment Return = Rate Base * Rate of Return

	Network Service Rate (\$/MW/Year)		(Line 152)	N/A
151 152	1 CP Peak Rate (\$/MW-Year)	(Note K)	PJM Data (Line 150 / 151)	N/A N/A
	Network Zonal Service Rate		,	, ,
150	Net Zonal Revenue Requirement		(Line 146 + 147 + 148 + 149)	248,756,431.1
148 149	Plus any increased ROE calculated on Attach 7 other than PJM S Facility Credits under Section 30.9 of the PJM OATT	ch. 12 projects not paid by other PJM trans zones	Attachment 7 Attachment 5	6,259,159 0
147	Reconciliation amount		Attachment 6	0
146	Net Revenue Requirement		(Line 132)	242,497,271
145	FCR with Incentive ROE without Depreciation and Pre-Com	mercial	(Line 141 - Line 70 - Line 71 - Line 75) / Line 142	11.715
143	FCR with Incentive ROE FCR with Incentive ROE without Depreciation		(Line 141 / Line 142) (Line 141 - Line 75) / Line 142	11.715
142 143	Net Transmission Plant + CWIP FCR with Incentive ROE		(Line 17 - Line 23+ Line 33) (Line 141 / Line 142)	1,796,276,7 14.170
141	Net Revenue Requirement with Incentive ROE		(Line 139 + Line 140)	254,538,4
139 140	Net Plant Carrying Charge Calculation with Incentive ROE Net Revenue Requirement Less Return and Taxes Increased Return and Taxes		(Line 132 - Line 122 - Line 123) Attachment 4	78,402,1 176,136,3
138	FCR without Depreciation, Return, nor Income Taxes		(Line 133 - Line 75 - Line 108 - Line 115) / Line 134	1.909
136 137	FCR without Depreciation FCR without Depreciation and Pre-Commercial Costs		(Line 133 - Line 75) / Line 134 (Line 133 - Line 70 - Line 71 - Line 75) / Line 134	11.045 11.045
35	FCR		(Line 133 / Line 134)	13.500
34	Net Transmission Plant + CWIP		(Line 17 - Line 23 + Line 33)	1,796,276,
133	Net Plant Carrying Charge Net Revenue Requirement		(Line 132)	242,497,
32	Net Revenue Requirement		(Line 130 - Line 131)	242,497,2
31	Revenue Credits Revenue Credits		Attachment 3	1,670,
30	Adjusted Gross Revenue Requirement		(Line 128 * Line 129)	244,167,
29	Gross Revenue Requirement		(Line 124)	244,167,
28	Inclusion Ratio		(Line 127 / Line 125)	100.0
27	Included Transmission Facilities		(Line 125 - Line 126)	2,179,764,
26	Excluded Transmission Facilities	(Note L)	Attachment 5	
25	Adjustment to Remove Revenue Requirements Associated Transmission Plant In Service	with Excluded Transmission Facilities	(Line 22)	2,179,764,
24	Gross Revenue Requirement		(Sum Lines 119 to 123)	244,167,5
23	Income Taxes		(Line 115)	37,830,
22	Investment Return		(Line 108)	126,264,
21	Taxes Other than Income		(Line 83)	14,413,
19 20	Total Transmission O&M Total Transmission Depreciation & Amortization		(Line 74) (Line 81)	16,039, 49,619,
40	Total Tananasiasias ORM		(1: 74)	40,000
17 18	Total Adjustment to Rate Base Rate Base		(Line 45) (Line 46)	-407,204, 1,469,941 ,
16	Summary Net Property, Plant & Equipment		(Line 30)	1,877,146,
VE	NUE REQUIREMENT			
15	Total Income Taxes		(Line 114)	37,830,9
14	Income Tax Component =	CIT=(T/1-T) * Investment Return * (1-(WCLTD/R)) =	[Line 113 * Line 108 * (1- (Line 104 / Line 107))]	37,830,9
13	T/ (1-T)	1-1-11((1 ΘΠ) (1-1Π))/(1-ΘΠ ΤΠ Ρ))-		36.7
11 12	p T	(percent of federal income tax deductible for state pur T=1 - {[(1 - SIT) * (1 - FIT)] / (1 - SIT * FIT * p)} =	rpcPer State Tax Code	0.0 26.8
10	SIT=State Income Tax Rate or Composite	(D Ct-t- T C1-	7.4
09	FIT=Federal Income Tax Rate	(Note H)		21.0
109		(Note H)		

Notes

- A Electric portion only

 B For both the estimate and the reconciliation, Construction Work In Progress ("CWIP") and leases that are expensed as O&M (rather than amortized) are excluded. For the Estimate Process:

Transmission plant in service will show the end of year balance and is linked to Attachment 5 which shows detail support by project.

The transmission plant will agree to or be reconciled to the FERC Form 1 balance for the transmission plant.

New Transmission Plant expected to be placed in service in the current calendar year will be based on the average of 13 monthly investment costs and shown separately detailed by project on Attachment 6.

Accumulated depreciation will show the end of year balance and is linked to Attachment 5 which shows detail support by project.

CWIP will be linked to Attachment 6 which shows detail support by project (incentive and non-incentive).

For the Reconciliation Process:

Transmission plant in service will be calculated using a 13 month average balance and will be detailed on Attachment 5. This includes

new transmission plant added to plant-in-service

Accumulated depreciation will be calculated using a 13 month average balance and will be detailed on Attachment 5. This includes accumulated depreciation associated with current year transmission plant.

- CWIP will be linked to Attachment 6 which shows detail support by project (incentive and non-incentive).

 C Includes Transmission portion only and (i) only land that has an estimated in-service date within 10 years may be included and (ii) a plan for the land's use is required to be included in the filing whenever the cost of the land is proposed to be included in rates.

 D Excludes all EPRI Annual Membership Dues
- Excludes all Regulatory Commission Expenses
- Includes Safety related advertising included in Account 930.1
- G Includes Regulatory Commission Expenses directly related to transmission service, RTO filings, or transmission siting itemized in Form 1 at 351.h.

 H The currently effective income tax rate where FIT is the Federal income tax rate; SIT is the State income tax rate, and p =
- the percentage of federal income tax deductible for state income taxes. If the utility includes taxes in more than one state, it must explain in Attachment 5 the name of each state and how the blended or composite SIT was developed.

- ROE will be established in the Commission order accepting the settlement in Docket No. ER07-562 and no change in ROE will be made absent a Section 205 or Section 206 filing at FERC. Education and outreach expenses relating to transmission, for example siting or billing
- K As provided for in Section 34.1 of the PJM OATT; the PJM established billing determinants will not be revised or updated in the annual rate reconciliations. L Amount of transmission plant excluded from rates per Attachment 5.
- M Payments and an under Schedule 12 of the PJM OATT that are not directly assessed to load in the Zone under Schedule 12 are included in Transmission O&M on Line 47.

 If they are booked to Acct 565, they are included on Line 50. Copies of PJM invoices will be provided upon request.

 N The capital structure will remain 50% equity and 50% debt until construction of all of the segments of the TrAIL Project is completed and the entire TrAIL Project is placed in service. The first
- year that these projects are in service the formula will be run based on the 50/50 capital structure and on the actual year end capital structure. The two results will be weighted based on: the number of days the last project was in service and 365 day minus the numbers of days the last project was in service divided by 365 days. This can be illustrated using the following example:

Example:

Assume Last Project goes into service on day 260. Hypothetical Capital Structure until the last project goes into service is 50/50. Assume Year End actual capital structure is 60% equity and 40% debt.

Therefore: Weighted Equity = [50%*260+60%*(365-260)]/365

Attachment 1 - Accumulated Deferred Income Taxes (ADIT) Worksheet

			Ti	ans-Alleghen	y Interstate Company	1		
Line	B1	B2	B3 End of Year for	С	D	E	F	G
	Beg of Year Total	End of Year Total	Est. Average for Final Total	Retail Related	Only Transmission Related	Plant Related	Labor Related	Total ADIT
1 ADIT- 282 From Account Total Below 2 ADIT-283 From Account Total Below	568,563,524 92,932,803	569,936,139 88.318.035	569,249,832 90,625,419		569,249,832 89,460,939	<u>.</u>	-	569,249,832 89.460,939
3 ADIT-190 From Account Total Below 4 Subtotal	(259,063,205)	(242,077,005)	(250,570,105)		(249,366,101) 409,344,670	-	-	(249,366,101) 409,344,670
5 Wages & Salary Allocator					409,344,670		100.0000%	409,344,670
6 Gross Plant Allocator 7 ADIT					409,344,670	100.0000%	-	409,344,670

Note: ADIT associated with Gain or Loss on Reacquired Debt is included in Column A here and included in Cost of Debt on Appendix A, Line 93.

Amount 0 < From Acct 283, below

In filling out this attachment, a full and complete description of each item and justification for the allocation to Columns C-F and each separate ADIT item will be listed, Dissimilar items with amounts exceeding \$100,000 will be listed separately.

A	B1	B2	В3	C C	D Interstate Compa	E	F	G	
ADIT-190	Beg of Year	End of Year	End of Year for Est. Average for Final	Retail	Gas. Prod	Only			
	Balance p234.18.b	Balance p234.18.c	Total	Related	Or Other Related	Transmission Related	Plant Related	Labor Related	JUSTIFICATION
Accelerated Tax Depr-FED-Norm	(3)	3	-			-			Additional tax deprecation over book
AMT Carryforward	815,017	641,329	728,173			728,173			Paid AMT tax which generates a credit
Charitable Contribution - VA RTA	135	182	159			159			Disallowance in current year for charitable deduction due to tax loss, tax attribute carries forward five years
Charitable Contribution - WV RTA	1.761	1,636	1.698			1.698			Disallowance in current year for charitable deduction due to tax loss, tax attribute carries forward five years
Citalitable Contribution - WV KIA	1,701	1,000	1,000			1,050			Disallowance in current year for charitable deduction due to tax loss, tax attribute
Charitable Contribution Carryforward		2,436	1,218			1,218			carries forward five years
CIAC-Fed-Norm	1,330,290	1,401,210	1,365,750			1,365,750			Taxable CIAC
CIAC-Fed-Norm-Incurred-CWIP	1,892,585	1,892,585	1,892,585			1,892,585			Taxable CIAC
CIAC-MD-Norm-Incurred-CWIP	21,594	21,595	21,595			21,595			Taxable CIAC
CIAC-PA-Norm	103,436	110,050	106,743			106,743			Taxable CIAC
CIAC-PA-Norm-Incurred-CWIP CIAC-VA-Norm	71,176	71,176	71,176 (35.465)			71,176			Taxable CIAC Taxable CIAC
CIAC-VA-Norm CIAC-VA-Norm-Incurred-CWIP	(36,945) 20,558	(33,985)	(35,465)			(35,465) 20,558			Taxable CIAC Taxable CIAC
CIAC-WV-Norm	100.900	113.461	107.181			107.181			Taxable CIAC
CIAC-WV-Norm-Incurred-CWIP	157.677	157.678	157,678			157.678			Taxable CIAC
Deferral Amortization of Excess Def Income Taxes	2,049,003	4,109,966	3,079,485			3,079,485			Resulting from deferral of refund of excess ADIT due to customers
FASB 109 Gross-UP	(7,531,112)	(5,648,441)	(6,589,777)			(6,589,777)			Reclass of the tax portion (gross-up) for property items included in account 190
Federal NOL	157,650,152	139,550,451	148,600,301			148,600,301			Result of bonus depreciation
									Costs incurred as a result of Allegheny merging with FirstEnergy which are not to be
Merger Costs: D&O Insurance	1,003	674	838		838				included within the revenue requirement
									Costs incurred as a result of Allegheny merging with FirstEnergy which are not to be
Merger Costs: Licenses NOL Deferred Tax Asset - LT PA	46,271 2,847,069	31,102 1,939,726	38,686 2,393,398		38,686	2.393.398			included within the revenue requirement Result of bonus depreciation
NOL Deferred Tax Asset - LT PA NOL Deferred Tax Asset - LT WV	17,926,330	1,939,726	18,021,829			18,021,829			Result of bonus depreciation
NOL Deletted Tax Asset - ET WV	17,920,330	10,117,327	10,021,029			10,021,029			result of bonus depreciation
Pension/OPEB : Other Def Cr. or Dr.	1,456,511	2,135,099	1,795,805			1,795,805			Pension related temporary difference associated with Service Company allocations
									Reflects the adjustments and subsequent amortization of the regulatory asset
									associated with the adjusted debt balances resulting from the FE/AYE merger (Offset
Purch Acct-LTD FMV	1,186,908	1,142,050	1,164,479		1,164,479				is PAA - LT Regulatory Asset Amort below in 283)
State Income Tax Deductible	1,557,234	1,324,983	1,441,109			1,441,109			Deductions related to state income taxes
Tax Interest Capitalized-Fed-Norm	28,837,213	28,215,976	28,526,595			28,526,595			Actual amount of tax interest capitalized
Tax Interest Capitalized-Fed-Norm-Incurred-CWIP	32,573,737	32,695,354	32,634,546			32,634,546			Actual amount of tax interest capitalized
Tax Interest Capitalized-MD-Norm	408,742	399,855	404,299			404,299			Actual amount of tax interest capitalized Actual amount of tax interest capitalized
Tax Interest Capitalized-MD-Norm-Incurred-CWIP Tax Interest Capitalized-PA-Norm	311,239 683,025	313,896 678.184	312,567 680.604			312,567 680,604			Actual amount of tax interest capitalized Actual amount of tax interest capitalized
Tax Interest Capitalized-PA-Norm-Incurred-CWIP	1.031.080	1.042.130	1.036.605			1.036.605			Actual amount of tax interest capitalized
Tax Interest Capitalized-VA-Norm	488.748	478,967	483.858			483.858			Actual amount of tax interest capitalized
Tax Interest Capitalized-VA-Norm-Incurred-CWIP	334.330	337.100	335.715			335.715			Actual amount of tax interest capitalized
Tax Interest Capitalized-WV-Norm	2,616,645	2.568.386	2.592.515			2.592.515			Actual amount of tax interest capitalized
Tax Interest Capitalized-WV-Norm-Incurred-CWIP	2,579,782	2,595,865	2,587,824			2,587,824			Actual amount of tax interest capitalized
Subtotal	251,532,093	236,428,564	243,980,328	-	1,204,004	242,776,324	-	-	
Less FASB 109 included above	(7,531,112)	(5,648,441)	(6,589,777)	-	-	(6,589,777)	-	-	
Less FASB 106 included above									
Total	259,063,205	242,077,005	250,570,105	-	1,204,004	249,366,101	-	-	

- 1. ADIT items related only to Retail Related Operations are directly assigned to Column C.
 2. ADIT items related only to Non-Electric Operations (e.g., Gss., Water, Sweet) or Production are directly assigned to Column D.
 3. ADIT items related only to Transmission are directly assigned to Column E.
 4. ADIT items related to Plant and not in Column S. (D. & E are directly assigned to Column F.
 5. ADIT items related to Default and not in Column S. (D. & E are directly assigned to Column G.
 6. Deferred income taxes arise when items are included in taxable income in different periods than they are included in rates. Therefore, if the item giving rise to the ADIT is not included in the formula, the associated ADIT amount shall be excluded.

PJM TRANSMISSION OWNER

Attachment 1 - Accumulated Deferred Income Taxes (ADIT) Worksheet

A	B1	B2	В3	С	D	E	F	G	
			Ti	ans-Allegheny	Interstate Compa	any			
ADIT- 282	Beg of Year Balance p274.9.b	End of Year Balance p275.9.k	End of Year for Est. Average for Final Total	Retail Related	Gas, Prod Or Other Related	Only Transmission Related	Plant Related	Labor Related	JUSTIFICATION
A&G Expenses Capitalized Accelerated Tax Depreciation Additional State Depreciation MD	9,478,039 524,573,784 2,863,698	10,790,565 522,172,111 3,219,830	10,134,302 523,372,948 3,041,764			10,134,302 523,372,948 3,041,764			Basis difference relating to A&G expense Additional tax deprecation over bool Temporary difference for additional state depreciation allowed for MD tax retur
Additional State Depreciation PA Additional State Depreciation VA Additional State Depreciation WV	8,191,045 3,989,249 47.583.246	8,827,262 4,347,502 47.664,825	8,509,153 4,168,375 47,624,035			8,509,153 4,168,375 47.624.035			Temporary difference for additional state depreciation allowed for PA tax retur Temporary difference for additional state depreciation allowed for VA tax retur Temporary difference for additional state depreciation allowed for WV tax retur
AFUDC Debt	4,207,355	4,157,312	4,182,334			4,182,334			Portion of AFUDC Debt that relates to property and booked to account 28: Temporary difference that is capitalized for book purposes but deductible for tax
Capitalized Vertical Tree Trimming	113,822	136,389	125,105			125,105			purposes
Cost of Removal	(2,478,894)	(2,420,551)	(2,449,723)			(2,449,723)			Temporary difference arising for removal of plant/property
FASB 109 Gross-Up	(178,308,361)	(178,739,307)	(178,523,834)			(178,523,834)			Reclass of the tax portion (gross-up) for property items included in account 282
Other Basis Differences	(32,849,822)	(31,387,601)	(32,118,712)			(32,118,712)			Other property related temporary differences
Sale of Property - Book Gain or (Loss)	(167,759)	(338,594)	(253,177)			(253,177)			Temporary difference reversing book costs for selling property Repair deduction on capitalized book asset deductible for tax purposes under Rev.
T&D Repairs	3,246,731	3,019,105	3,132,918			3,132,918			Proc. 2011-43 Vegetation management transmission corridor capital cost and depreciation expenses
Vegetation Management - Transmission	(186,970)	(252,016)	(219,493)			(219,493)			required for the regulatory financial statement schedules
Subtotal	390,255,164	391,196,833	390,725,998	-	-	390,725,998	-	-	
Less FASB 109 included above Less FASB 106 included above	(178,308,361)	(178,739,307)	(178,523,834)			(178,523,834)			
Total	568,563,524	569,936,139	569,249,832			569,249,832			

Instructions for Account 282:

- 1. ADIT items related only to Retail Related Operations are directly assigned to Column C.
 2. ADIT items related only to Rome-Bertic Operations (e.g., Gas, Water, Sewer) or Production are directly assigned to Column D.
 3. ADIT items related only to Transmission are directly assigned to Column E.
 4. ADIT items related to Plant and not in Column C. D. 8 & are directly assigned to Column F.
 5. ADIT items related to Plant and not in Column C. D. 6 & The or directly assigned to Column G.
 6. Deferred income taxes arise when items are included in taxable income in different periods than they are included in rates. Therefore, if the item giving rise to the ADIT is not included in the formula, the associated ADIT amount shall be excluded.

PJM TRANSMISSION OWNER

Attachment 1 - Accumulated Deferred Income Taxes (ADIT) Worksheet

A	B1	B2	В3	С	D	E	F	G	
			Т	rans-Allegheny	Interstate Compa	ny			
ADIT-283	Beg of Year Balance p276.19.b	End of Year Balance p277.19.k	End of Year for Est. Average for Final Total	Retail Related	Gas, Prod Or Other Related	Only Transmission Related	Plant Related	Labor Related	JUSTIFICATION
AFUDC Debt-FED-Norm-Reversal-CWIP	-	1							
Charitable Contribution State & Local RTA CJAC-Fed-Norm-Revensal-CVIIP CJAC-JAD-Norm CJAC-JAD-Norm-Reversal-CVIIP CJAC-JAN-Sorm-Reversal-CVIIP CJAC-JAN-Sorm-Reversal-CVIIP CJAC-JAN-Sorm-Reversal-CVIIP CJAC-JAN-Sorm-Reversal-CVIIP CJAC-JAN-Sorm-Reversal-CVIIP Deferred Charge-E8 FASS 1996 Gross-Jo	2,853 1,892,583 (78,133) 21,814 121,734 14,553 135,495 20,739 17,820,512	3,330 1,993,378 (78,348; 23,936 130,792 16,595 150,367 22,065 24,438,439	1,942,981) (78,240) 22,875 126,263 15,574 142,931 21,402			3,092 1,942,981 (78,240) 22,875 126,263 15,574 142,931 21,402 21,129,476			Disallowance in current year for charitable deduction due to tax loss, tax attribute carries forward five years Taxable CIAC Allocated portion of total liabilities relating to captive insurance Reclass of the tax portion (gross-up) for property items included in account 28:
1765 105 0100 Op	17,020,012	24,400,400	21,120,410			21,120,470			Reflects the adjustments and subsequent amortization of adjusted debt balances
PAA. I TRegistary Asset Amort PUM Receivable SSOT Timing Allocation Tax Interest Capitalized-Fet-Norm-Reversal-CWIP Tax Interest Capitalized-Fet-Norm-Reversal-CWIP Tax Interest Capitalized-PANOR-Reversal-CWIP Tax Interest Capitalized-PANOR-Reversal-CWIP Tax Interest Capitalized-PANOR-Reversal-CWIP Tax Interest Capitalized-WIV-Norm-Reversal-CWIP Valuation Allowance NOL WV Vegitation Management	1,186,908 34,784,038 319,254 32,198,345 307,012 1,021,294 329,176 2,541,838 17,926,331	1,142,050 29,665,465 256,096 32,375,068 310,780 1,037,239 32,2913 2,566,965 18,117,327 252,016	32,224,751 287,675 32,286,706 308,896 1,029,266 331,045 2,554,402 18,021,829		1,164,479	32,224,751 287,675 32,286,706 308,896 1,029,266 331,045 2,554,402 18,021,829 219,493			associated with the FEAYE merger Comparison of actual to forecast revenues - non-property related Timing differences related to service company allocations Actual amount of tax interest capitalizes Valuation allowances recorded against state NOL carryforwards not expected to be realized Vegetation management transmission corridor capital cost and depreciation expenses required for the regulatory financial statement schedulors
Subtotal	110.753.315	112,756,474	111.754.894		1,164,479	110.590.415	-		
Less FASB 109 included above Less FASB 106 included above	17,820,512	24,438,439	21,129,476	-	-	21,129,476	-	-	
Total	92,932,803	88,318,035	90,625,419		1,164,479	89,460,939	-	-	

Instructions for Account 283:

- 1. ADIT items related only to Retail Related Operations are directly assigned to Column C.
 2. ADIT items related only to Non-Electric Operations (e.g., Clas, Water, Sewel) or Production are directly assigned to Column D.
 3. ADIT tems related only to Transmission are directly assigned to Column E.
 4. ADIT tems related to Plant and not in Columns C. D. 8 E are directly assigned to Column F.
 5. ADIT tems related to blazed and not in Columns C. 0, 8 E are directly assigned to Column G.
 6. ADIT tems related to blazed and not in Columns C. 0, 8 E are directly assigned to Column G.

6. Deferred income taxes arise when items are included in taxable income in different periods than they are included in rates. Therefore, if the item giving rise to the ADIT is not included in the formula, the associated ADIT amount shall be excluded.

Trans-Allegheny Interstate Line Company

Attachment 2 - Taxes Other Than Income Worksheet

Other T	axes	FERC Form No.1 page, line & Col	Amount	Allocator	Allocated Amount	
Pla	ant Related		Gro	ss Plant Allocato	or	
1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0	2018 State Property WV 2019 State Property PA (PURTA) 2019 State Property PA (PURTA) 2019 State Property PA (PURTA) 2018 Local Property WV 2019 Local Property WV 2019 Local Property VA 2019 Local Property PA 2018 Local Property MD 2019 Local Property MD	p263.32(i) p263.33(i) p263.21(i) p263.22(i) p263.1.2(i) p263.1.2(i) p263.1.5(i) p263.1.8(i) p263.1.11(i) p263.1.11(i)	5,488,280 5,644,783 (1,526) 33,526 4,749 5,157 1,686,135 4,730 731,317 777,394	100.0000% 100.0000% 100.0000% 100.0000% 100.0000% 100.0000% 100.0000% 100.0000% 100.0000%	\$ 5,488,280 5,644,783 (1,526) 33,526 4,749 5,157 1,686,135 4,730 731,317 777,394	
3 T o	tal Plant Related	<u>.</u>	14,374,545	100.0000%	14,374,545	
La	bor Related		Wages	s & Salary Alloca	itor	
4 5 6 7	Accrued Federal FICA MD Filing Fee Federal - Excise Federal - Other		0 300 1,591 37,403			
8 T o	tal Labor Related	<u> </u>	39,294	100.0000%	39,294	
Ot	her Included		Gro	ss Plant Allocato	or	
9 10 11	State Sales/Use Tax PA	p263.18(i)	108 0 0	100.0000%	108 0 0	
12 T o	tal Other Included	_	108	100.0000%	108	
13 T o	tal Included (Lines 4 + 9 + 13)	-	14,413,947	=	14,413,947	nput to Appendix A, Line 82
Re	stail Related Other Taxes to be Excluded					
14 15 16 17 18	Federal Income Tax Corporate Net Income Tax MD Corporate Net Income Tax PA Corporate Net Income Tax VA Corporate Net Income Tax WV	p263.2(i) p263.10(i) p263.16(i) p263.26(i) p263.30(i)	10,337,733 204,162 1,510,556 203,969 4,568,872			
19	Subtotal, Excluded	_	16,825,292			
20 T o	tal, Included and Excluded (Line 14 + Line 20		31,239,239			
21 T o	tal Other Taxes from p114.14.c		14,413,947			
22	Difference (Line 20 - Line 21)		16,825,292			

Criteria for Allocation:

- eria for Allocation:

 Other taxes that are incurred through ownership of plant including transmission plant will be allocated based on the Gross Plant Allocator. If the taxes are 100% recovered at retail they shall not be included.

 Other taxes that are incurred through ownership of only general or intangible plant will be allocated based on the Wages and Salary Allocator. If the taxes are 100% recovered at retail they shall not be included.

 Other taxes that are assessed based on labor will be allocated based on the Wages and Salary Allocator.

 Other taxes avecates provided for in A. B. and C. shows that are incurred and (1) are not fully recovered at retail or (2) are В
- Other taxes except as provided for in A, B and C above, that are incurred and (1) are not fully recovered at retail or (2) are directly or indirectly related to transmission service will be allocated based on the Gross Plant Allocator; provided, however, that overheads shall be treated as in footnote B above.
- Е Excludes prior period adjustments in the first year of the formula's operation and reconciliation for the first year.

	Attachment 3 - Revenue Credit Workpaper		Amount	FERC Form No.1 page, line & Col
	Account 454 - Rent from Electric Property			
1 2	Rent from Electric Property - Transmission Related (Note 3) Total Rent Revenues	(Line 1)	:	Page 300 Line: 19 Column: b
	Account 456 - Other Electric Revenues (Note 1)			
3 4	Schedule 1A Net revenues associated with Network Integration Transmission Service (NITS) for which the load is not included in the divisor (difference between NITS credits from PJM and PJM NITS charges paid by Transmission Owner) (Note 4)		-	p328-330 Footnote Data Schedule Page:
8 9	Point to Point Service revenues for which the load is not included in the divisor received by Trans PJM Transitional Revenue Neutrality (Note 1) PJM Transitional Market Expansion (Note 1) Professional Services (Note 3) Revenues from Directly Assigned Transmission Facility Charges (Note 2) Rent or Attachment Fees associated with Transmission Facilities (Note 3)	smission Owner	1,670,301 - -	328 Line: 1 Column: m
	Gross Revenue Credits	(Sum Lines 2-10)	1,670,301	
	Less line 14g Total Revenue Credits	(Line 11 - Line 12)	1,670,301	Input to Appendix A, Line 131
	Revenue Adjustment to determine Revenue Credit			
	Revenues associated with lines 14b-g are to be included in lines 2-10 and total of those revenues entered here		-	
	Costs associated with revenues in line 14a Net Revenues (14a - 14b)		-	
14d	50% Share of Net Revenues (14c / 2)		-	
14e	Costs associated with revenues in line 14a that are included in FERC accounts recovered through the formula times the allocator used to functionalize the amounts in the FERC account to the transmission service at issue.		_	
	Net Revenue Credit (14d + 14e)		-	
149	Line 14a less line 14f		-	
15	Amount offset in line 4 above		-	
16	Total Account 454 and 456		1,670,301	
17	Note 1: All revenues related to transmission that are received as a transmission owner (i.e., not			

- 17 Note 1: All revenues related to transmission that are received as a transmission owner (i.e., not received as a LSE), for which the cost of the service is recovered under this formula, except as specifically provided for elsewhere in this Attachment or elsewhere in the formula will be included as a revenue credit or included in the peak on line 178 of Appendix A.
- 18 Note 2: If the costs associated with the Directly Assigned Transmission Facility Charges are included in the Rates, the associated revenues are included in the Rates. If the costs associated with the Directly Assigned Transmission Facility Charges are not included in the Rates, the associated revenues are not included in the Rates.
- Note 3: Ratemaking treatment for the following specified secondary uses of transmission assets: (1) right-of-way leases and leases for space on transmission facilities for telecommunications; (2) transmission tower licenses for wireless antennas; (3) right-of-way property leases for farming, grazing or nurseries; (4) licenses of intellectual property (including a portable oil degasification process and scheduling software); and (5) transmission maintenance and consulting services (including energized circuit maintenance, high-voltage substation maintenance, safety training, transformer oil testing, and circuit breaker testing) to other utilities and large customers (collectively, products). Company will retain 50% of net revenues consistent with Pacific Gas and Electric Company, 90 FERC ¶ 61,314. Note: in order to use lines 14a 14g, the utility must track in separate subaccounts the revenues and costs associated with each secondary use (except for the cost of the associated income taxes).
- 20 Note 4: If the facilities associated with the revenues are not included in the formula, the revenue is shown here, but not included in the total above and explained in the Cost Support. For example revenues associated with distribution facilities. In addition Revenues from Schedule 12 of the PJM OATT are not included in the total above to the extent they are credited under Schedule 12 of the PJM OATT.

Attachment 4 - Calculation with Incentive ROE

Return and Taxes at High End of the range of Reasonableness Return and Taxes at High End of the range of Reasonableness Input to Appendix A, Line 140 176,136,337 (Sum Lines 26 and 33 from below) Α Difference between Base ROE and Incentive ROE

Dotum C	Calculation			
Return C	ALCUIATION		Source Reference	
1	Rate Base		Appendix A, Line 46	1,469,941,603
2	Preferred Dividends	enter positive	Appendix A, Line 84	0
	Common Stock			
3	Proprietary Capital		Appendix A, Line 85	934,033,865
4	Less Accumulated Other Comprehensive Income Accour	nt 219	Appendix A, Line 86	0
5	Less Preferred Stock		Appendix A, Line 87	0
6	Less Account 216.1		Appendix A, Line 88	0
7	Common Stock		Appendix A, Line 89	934,033,865
	Capitalization			
8	Long Term Debt		Appendix A, Line 90	624,783,740
9	Less Unamortized Loss on Reacquired Debt		Appendix A, Line 90 Appendix A, Line 91	024,703,740
10	Plus Unamortized Gain on Reacquired Debt		Appendix A, Line 92	0
11	Less ADIT associated with Gain or Loss		Appendix A, Line 93	0
12	Total Long Term Debt		Appendix A, Line 93 Appendix A, Line 94	624,783,740
13	Preferred Stock		Appendix A, Line 94 Appendix A, Line 95	024,763,740
14	Common Stock		Appendix A, Line 96	934.033.865
15	Total Capitalization		Appendix A, Line 90 Appendix A, Line 97	1,558,817,605
16	Debt %	Total Long Term Debt	Appendix A. Line 98	40.0806%
17	Preferred %	Preferred Stock		0.0000%
18	Common %	Common Stock	Appendix A, Line 99	59.9194%
10	Common %	Common Stock	Appendix A, Line 100	59.9194%
19	Debt Cost	Total Long Term Debt	Appendix A, Line 101	0.0394
20	Preferred Cost	Preferred Stock	Appendix A, Line 102	0.0000
21	Common Cost	Common Stock	12.70%	0.1270
22	Weighted Cost of Debt	Total Long Term Debt (WCLTD)	(Line 16 * 19)	0.0158
23	Weighted Cost of Preferred	Preferred Stock	(Line 17 * 20)	0.0000
24	Weighted Cost of Common	Common Stock	(Line 18 * 21)	0.0761
25	Rate of Return on Rate Base (ROR)		(Sum Lines 22 to 24)	0.0919
26	Investment Return = Rate Base * Rate of Return		(Line 1 * Line 25)	135,072,020
Composi	ite Income Taxes			
	Income Tax Rates			
27	FIT=Federal Income Tax Rate		Appendix A, Line 109	21.00%
28	SIT=State Income Tax Rate or Composite		Appendix A, Line 110	7.41%
29	p = percent of federal income tax deductible for state purpor	ses	Appendix A, Line 111	0.00%
30		SIT) * (1 - FIT)] / (1 - SIT * FIT * p)} =	Appendix A, Line 112	26.85%
31	T/ (1-T)	, (. /··///, 5 · · · · Þ/) -	Appendix A, Line 113	36.71%
32	Income Tax Component = CIT=(T/1-T) * Investment Return * (1-(WCLTD/R)) =		41,064,317
33	Total Income Taxes		(Line 32)	41,064,317
აა	Total income Taxes		(Line 32)	41,064,317

Attachment 5 - Cost Support

Attachment A Line	fs, Descriptions, Notes, Form 1 Page #s and Instructions		13 Month Balance for Reconciliation	EOY Balance for Estimate													
Calculation of Transmission Plant In Service	Source		Total	Total	Black Oak	Wylie Ridge	62 Junction - Territorial Line	Potter SS	OsageWhiteley	Meadowbrook Transformer	North Shenandoah	Bedington Transformer	Meadowbrook Capacitor	Kammer	Doubs #2 Trans	Doubs #3 Trans	Doubs #4 Trans
December	p206.58.b	For 2018	2.064.865.510	***	48.015.763	17.653.081	1.077.052.743	2.022.554	24.555.348	8.206.718	1.923.902	7.723.538	6.486.620	39,590,645	5.149.271	4.686.053	5.691.3
January	company records	For 2019	2.064.979.040		48,016,355	17,653,081	1,077,067,151	2,022,554	24,555,348	8.206.718	1.923.902	7,723,538	6.486.620	39,590,645	5.149.271	4.686.053	5.691.38
February	company records	For 2019	2,065,243,790		48,016,355	17,653,081	1,077,095,461	2,022,554	24,555,348	8,206,718	1,923,902	7,723,538	6,486,620	39,590,645	5,149,271	4,686,053	5,691,3
March	company records	For 2019	2,065,437,803		48,016,355	17,653,081	1,077,053,385	2,022,554	24,555,348	8,206,718	1,923,902	7,723,538	6,486,620	39,590,645	5,149,271	4,686,053	5,691,38
April	company records	For 2019	2.066.190.561		48,601,167	17,653,081	1,077,076,550	2,022,554	24,555,348	8.206.718	1.923.902	7,723,538	6.486.620	39,590,645	5.149.271	4.686.053	5.691.3
May	company records	For 2019	2,076,367,489		48,666,046	17,691,806	1,076,933,967	2,022,554	24,555,348	8,206,718	1,923,902	7,723,538	6,486,620	39,590,645	5,149,271	4,686,053	5,691,38
June	company records	For 2019	2,077,271,835		48,677,385	17,892,285	1,076,974,216	2,022,554	24,555,348	8,206,718	1,923,902	7,723,538	6,486,620	39,590,645	5,149,271	4,686,053	5,691,38
July	company records	For 2019	2,073,738,935		48,678,125	17,694,616	1,071,752,683	2,022,554	24,555,348	8,206,718	1,923,902	7,723,538	6,486,620	39,590,645	5,149,271	4,686,053	
August	company records	For 2019	2,076,968,783		48,678,449	17,693,615	1,071,819,098	2,022,554	24,555,348	8,206,718	1,923,902	7,723,538	6,486,620	39,590,645	5,149,271	4,686,053	5,691,38
September	company records	For 2019	2,075,002,187		48,678,449	17,893,615	1,071,772,359	2,022,554	24,555,348	8,206,718	1,923,902	7,723,538	6,486,620	39,590,645	5,149,271	4,686,053	
October	company records	For 2019	2,076,028,393		48,680,082	17,797,663	1,071,782,050	2,022,554	24,555,348	8,206,718	1,923,902	7,723,538	6,486,620	39,590,645	5,149,271	4,686,053	
November	company records	For 2019	2,077,033,685		48,682,026	17,798,987	1,071,740,737	2,022,554	24,555,718	8,206,718	1,923,902	7,723,538	6,486,620	39,590,645	5,149,271	4,686,053	5,691,38
December	p207.58.g	For 2019	2,077,329,305	2,077,329,305	48,682,193	17,800,890	1,071,693,494	2,022,554	24,556,015	8,206,718	1,923,902	7,723,538	6,486,620	39,613,808	5,149,271	4,686,053	
Transmission Plant In Service			2.072.035.178	2.077.329.305	48,468,365	17,702,222	1.074.601.067	2.022.554	24,555,428	8,206,718	1.923.902	7.723.538	6.486.620	39,592,427	5.149.271	4,686,053	5,691,35

					Details												
		Farmers Valley	Harvey Run			Grandview				Grandpoint &	Handsome Lake -						
Cabot SS	Armstrong	Capacitor	Capacitor	Doubs SS	Meadowbrook SS	Capacitor	502 Jct Substation C	onemaugh-Seward	Luxor	Guilford	Homer City	Altoona	Blairsville	Carbon Center	Hunterstown	Johnstown	Buffalo Road
7,119,470	15,623,574	2,067,321	832,202	5,037,644	61,700,885	657,191	14,045,826	27,749,628	1,199,446	1,781,380	12,863,994	36,258,335	3,327,672	569,408	43,993,222	4,942,684	438,837
7,119,470	15,623,574	2,067,321	832,202	5,037,644	61,701,346	657,191	14,104,069	27,749,628	1,199,446	1,781,380	12,863,994	36,258,335	3,327,672	569,408	43,993,222	4,942,684	438,837
7,119,470	15,623,574	2,067,321	832,202	5,037,644	61,701,384	657,191	14,219,320	27,753,858	1,199,446	1,781,380	12,863,994	36,258,335	3,327,672	569,408	43,993,222	4,942,684	438,837
7,119,470	15,623,574	2,067,321	832,202	5,037,644	61,701,384	657,191	14,228,429	27,754,909	1,199,446	1,781,380	12,863,994	36,258,335	3,327,672	569,408	43,993,222	4,942,684	438,837
7,119,470	15,623,574	2,067,321	832,202	5,037,644	61,701,384	657,191	14,227,117	27,754,909	1,199,446	1,781,380	12,863,994	36,258,335	3,327,672	569,408	43,993,222	4,942,684	438,837
7,119,470	15,623,574	2,067,321	832,202	5,037,644	61,701,384	657,191	14,227,182	27,754,909	1,199,446	1,781,380	12,863,994	36,258,335	3,327,672	569,408	43,993,222	4,942,684	438,837
7,290,133	15,623,574	2,067,321	832,202	5,037,644	61,701,758	657,191	14,406,461	27,754,909	1,199,446	1,781,380	12,863,994	36,258,335	3,327,672	569,408	43,993,222	4,942,684	438,837
7,293,343	15,623,574	2,067,321	832,202	5,037,644	61,522,461	657,191	14,689,532	27,754,909	1,199,446	1,781,380	12,863,994	36,258,335	3,327,672	569,408	43,993,222	4,942,684	438,837
7,294,074	15,623,574	2,067,321	832,202	5,037,644	61,522,461	657,191	14,698,144	27,754,909	1,199,446	1,781,380	12,863,994	36,258,335	3,327,672	569,408	43,993,222	4,942,684	438,837
7,294,083	15,623,574	2,067,321	832,202	5,024,491	61,508,542	657,191	14,701,061	27,754,909	1,199,446	1,781,380	12,863,994	36,258,335	3,327,672	569,408	43,982,577	4,942,684	438,837
7,294,083	15,623,574	2,067,321	832,202	5,024,491	61,508,542	657,191	14,708,062	27,754,909	1,199,446	1,781,380	12,863,994	36,258,335	3,327,672	569,408	43,982,577	4,942,684	438,837
7,294,083	15,623,574	2,067,321	832,202	5,024,491	61,508,542	657,191	14,709,645	28,187,936	1,199,446	1,781,380	12,863,994	36,258,335	3,327,672	569,408	43,982,577	4,942,684	438,837
7,294,216	15,623,574	2,067,321	832,202	5,024,491	61,511,353	657,191	14,710,388	28,310,807	1,199,446	1,781,380	12,863,994	36,258,335	3,327,672	569,408	43,982,577	4,942,684	438,837

										Johnstown SS											Farmers Valley				1	
Moshannon	Waldo Run	Four Mile Junction	West Union SS	Shuman Hill/Mobley	Bartonville	Squab Hollow SS	Squab Hollow SVC	Shingletown	Claysburg Ring Bus	Capacitor	Grover Sub	Rider Sub	Shawville	Monocacy SS	Mainsburg SS	Yeagertown	Nyswaner	Oak Mound	Joffre SS	Erie South	Substation	Richwood Hill	Damascus SS	Warren Substation	Piercebrook SS	Total
7,527,658	56,898,736	9,675,169	891,283	1,490,386	692,272	18,700,194	31,318,256	1,754,277	7,730,920	1,368,881	885,549	17,051,809	2,268,540	38,181,684	24,406,615	1,135,027	936,641	109,702,735	47,527,235	46,559,408	39,329,186	74,371,634	1,258,969	23,983,202	10,252,935	2,064,865,510
7,527,658	56,939,270	9,675,169	891,283	1,490,386	692,272	18,700,194	31,318,256	1,754,277	7,730,920	1,368,881	885,549	17,051,936	2,268,540	38,181,684	24,406,615	1,135,027	936,641	109,699,373	47,527,264	46,559,408	39,330,955	74,372,639	1,258,969	23,983,202	10,252,659	2,064,979,040
7,527,658	56,921,278	9,675,169	891,283	1,490,386	692,272	18,700,194	31,318,256	1,754,277	7,730,920	1,368,881	885,549	17,051,936	2,268,540	38,181,684	24,508,417	1,135,027	936,641	109,727,630	47,530,713	46,559,619	39,331,309	74,373,579	1,258,969	23,983,202	10,252,559	2,065,243,790
7,527,658	56,955,395	9,675,169	891,283	1,490,386	692,272	18,700,194	31,318,256	1,754,277	7,730,920	1,368,881	885,549	17,054,807	2,268,540	38,181,684	24,547,839	1,135,027	936,641	109,871,566	47,530,742	46,559,704	39,334,521	74,374,519	1,258,969	23,983,202	10,253,898	2,065,437,803
7,407,254	56,952,818	9,675,169	891,283	1,490,386	692,272	18,700,194	31,318,256	1,754,277	7,730,920	1,368,881	885,549	17,063,218	2,268,540	38,181,684	24,544,702	1,135,027	936,641	110,131,150	47,531,631	46,560,706	39,333,640	74,375,459	1,258,969	23,983,202	10,256,142	2,066,190,561
7,527,658	56,954,783	9,675,169	891,283	1,490,386	692,272	18,700,194	31,318,256	1,754,277	7,730,920	1,368,881	885,549	17,069,893	2,268,540	38,181,684	34,318,057	1,135,027	936,641	110,380,300	47,531,831	46,561,598	39,333,293	74,376,399	1,258,969	23,983,202	10,318,749	2,076,367,489
7,527,658	56,957,162	9,675,169	891,283	1,490,386	692,272	18,700,194	31,318,256	1,754,277	7,730,920	1,368,881	885,549	17,070,244	2,268,540	38,181,684	34,369,810	1,135,027	936,641	110,722,288	47,540,905	46,560,937	39,333,553	74,377,339	1,258,969	23,983,202	10,414,630	2,077,271,835
7,527,658	58,119,235	9,675,169	891,283	1,490,386	692,272	18,700,194	31,318,256	1,754,277	7,730,920	1,368,881	885,549	17,070,244	2,268,540	38,181,684	34,623,005	1,135,027	936,641	111,073,790	47,540,962	46,562,068	39,113,424	74,378,279	1,258,969	23,981,837	10,445,805	2,073,738,935
7,527,658	58,390,445	9,675,169	891,283	1,490,386	692,272	18,700,194	31,318,256	1,754,277	7,730,920	1,368,881	885,549	18,472,708	2,268,540	38,181,684	34,767,814	1,135,027	936,641	111,598,404	47,540,991	46,562,068	39,113,424	74,379,219	2,081,326	23,981,837	10,434,147	2,076,968,783
7,527,658	58,589,741	9,675,169	891,283	1,490,386	692,272	18,700,194	31,318,256	1,754,277	7,730,920	1,368,881	885,549	18,587,639	2,268,540	38,181,684	32,537,825	1,135,027	936,641	111,628,308	47,541,019	46,561,543	39,113,424	74,380,159	2,081,326	23,981,837	10,434,495	2,075,002,187
7,527,658	58,928,602	9,675,169	891,283	1,490,386	692,272	18,700,194	31,318,256	1,754,277	7,730,920	1,368,881	885,549	18,750,561	2,268,540	38,181,684	32,625,847	1,135,027	936,641	111,941,389	47,541,048	46,561,543	39,113,424	74,381,035	2,081,326	23,981,837	10,434,539	2,076,028,393
7,527,658	59,342,866	9,675,169	891,283	1,490,386	692,272	18,700,194	31,318,256	1,754,277	7,730,920	1,368,881	885,549	18,766,375	2,268,540	38,181,684	32,685,596	1,135,027	936,641	112,059,107	47,541,076	46,561,543	39,113,989	74,382,269	2,081,326	23,980,835	10,434,526	2,077,033,685
7,527,658	59,422,060	9,675,169	891,283	1,490,386	692,272	18,700,194	31,318,256	1,754,277	7,730,920	1,368,881	885,549	18,774,188	2,268,540	38,181,684	32,723,289	1,135,027	936,641	112,108,084	47,541,270	46,563,951	39,113,989	74,383,145	2,081,326		10,434,551	2,077,329,305
7,518,396	57,797,876	9,675,169	891,283	1,490,386	692,272	18,700,194	31,318,256	1,754,277	7,730,920	1,368,881	885,549	17,679,658	2,268,540	38,181,684	30,081,956	1,135,027	936,641	110,818,779	47,535,899	46,561,084	39,231,395	74,377,360	1,575,260	23,983,464	10,355,357	2,072,035,178

Trans-Allegheny Interstate Line (

Description				AL	tachment 5 - Cost Si Link to Appendix A, I
Description				Link to Appendix A. line 15	15
	Calculation of Distribution Plant In Service	Source			
Fabrical Fabrica Fab	December	p206.75.b	For 2018		
Fabruary Company records	January		For 2019		
Aget company records F 2 279			For 2019		
May	March	company records	For 2019		
June	April	company records			
Aug.	May	company records	For 2019		
August Company records Fig. 2018 Company records Fig. 2018 Company records Fig. 2018 Company records Fig. 2018 Company records Fig. 2019 Company records Fig. 20					
Experiment				-	
Colored Company records				-	
Description Page 118 Page 1	September		For 2019	-	
Calculation Prest in Service Calculation Prest in Service				-	
Calculation of Hangshire Part in Service				-	
Concentration of Managinia Prior In Service		p207.75.g	For 2019		
Descriptor DOS-5-5-2 F-2-2018 23,683,005 41,739	Distribution Plant In Service				
	Calculation of Intancible Blant In Service	Saura			
Part			F 2040	22 450 225	
					41 700 0
Calculations of General Plant in Service Source Sou		proces	1 0 2015		
Link Septembr. Link	mangiore riant at dervice			07,124,112	
Debut Debu				Link to Appendix A. Spe 19	
December D207-99-0	Calculation of Gonoral Plant In Service	Source		Link to Appendix A, tine 10	
Page			Eor 2019	64 630 346	
TABLES T					70 500
Link to Appoints A Link to		p201.99.g	POI 2019		
Calculation of Production Plant in Barrica Source DCA 450- Por 25th	General Flant III Generice			10,000,001	
Delacation of Production Panet. In Service DOLACO,				Link to Annendix A line 18	
December D204 450 For 2018 -	Calculation of Production Plant In Service	Source		Citix to Appendix A, time 10	
January company records			F 2040		
February company records Fig. 2019					
Mater				-	
April company secords F-2 2019					I
May					I
June					I
July			For 2019	_	I
Septimber Company secords Fig. 2010 Control	July		For 2019	_	I
Signimber Company records Fiz 2/19 Collider Company records Fiz 2/19 Collider Collider Company records Fiz 2/19 Collider Company records Fiz 2/19 Collider Co	August	company records	For 2019		
Noncolor			For 2019	-	
December Policy	October	company records	For 2019	-	I
Production Plant in Service Total Plant in Service Sum of averages above 2,179,764,620 2,195,698,300	November		For 2019	-	I
Total Plant in Service Sum of averages above 2,179,764,620 2,195,698,3		p205.46.g	For 2019	-	
	Production Plant In Service				
	Total Plant In Service	Sum of averages above		2,179,764,620	2,195,698,5

Attachment 5 - Cost Support

ent A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions			13 Month Balance for Reconciliation	EOY Balance for Estimate													
Calculation of Transmission Accumulated Depreciation	Source				Black Oak	Wylie Ridge	502 Junction - Territorial Line	Potter SS	Osage Whiteley	Meadowbrook Transformer	North Shenandosh	Bedington Transformers	Meadowbrook Capacitor	Kammer	Doubs #2 Trans	Doubs #3 Trans	Doubs #4 Trans
December	Prior year FERC Form 1 p219.25.b	For 2018	256,283,793		14,932,722	(318,151	165,527,638	208,059	3,139,821	1,730,351	322,372	1,598,481	1,310,402	7,659,200	793,356	650,544	1,192,718
January	company records	For 2019	260,016,780		15,049,468	(270,062	167,372,359	210,924	3,187,397	1,744,502	325,739	1,611,998	1,322,492	7,728,484		657,463	1,205,18
February	company records	For 2019	263,677,911		15,166,214	(221,973	169,145,078	213,789	3,234,974	1,758,654	329,106	1,625,514	1,334,582	7,797,767		664,383	1,217,64
March	company records	For 2019	267,330,968		15,282,980	(173,884	170,909,398	216,655	3,282,551	1,772,806	332,473	1,639,030	1,346,672	7,867,051		671,302	1,230,110
April	company records	For 2019	270,974,936		15,400,221	(125,795	172,663,674	219,520	3,330,215	1,786,958	335,840	1,652,546	1,358,762	7,938,334		678,221	1,242,575
May	company records	For 2019	274,603,061		15,518,054	(77,672	174,392,307	222,385	3,377,969	1,801,110	339,206	1,666,062	1,370,853	8,005,618		685,141	1,255,039
June	company records	For 2019	278,574,031		15,635,954	(29,515	176,454,091	225,250	3,425,730	1,815,261	342,573	1,679,579	1,382,943	8,074,902		692,060	1,267,503
July	company records	For 2019	276,333,058		15,742,363	18,644	172,543,670	228,116	3,473,501	1,829,413	345,940	1,693,095	1,395,033	8,144,185		698,980	1,279,963
August	company records	For 2019	280,158,178		15,880,274	66,805	174,333,345	230,981	3,521,287	1,843,265	349,307	1,706,611	1,407,123	8,213,469		705,899	1,292,431
September	company records	For 2019	283,755,359		15,976,961	114,965	176,126,286	233,846	3,569,085	1,856,817	352,674	1,720,127	1,419,213	8,282,753	884,523	697,677	1,304,895
October	company records	For 2019	287,408,100		16,094,874	163,216	177,875,771	236,711	3,616,888	1,870,389	356,040	1,733,643	1,431,303	8,352,036		704,589	1,317,360
November	company records	For 2019	291,088,830		16,212,791	211,559	179,639,439	239,577	3,664,702	1,883,920	359,407	1,747,159	1,443,394	8,421,320		711,501	1,329,824
December	p219.25.b	For 2019	294,797,494	294,797,494		259,905	181,429,776	242,442	3,712,541	1,897,472	362,774	1,760,676	1,455,484	8,490,624		718,413	1,342,288
Transmission Accumulated Depreciation			275 769 423	294,797,494	15.631.043	(29,381)	173,724,064	225,250	3,425,897	1.814.684	342,573	1,679,579	1,382,943	8.074.903	840.801	687.398	1,267,503

				Details												
	Farmers Valley Capacitor	Harvey Run Capacitor			Grandview Capacitor	502 Jct Substation 4		Luxor	Grandpoint & Guilford	Handsome Lake - Homer City	Altoona	Blairsville	Carbon Center	Hunterstown	Johnstown	Buffalo Road
Armstrong			Doubs SS	Meadowbrook SS												
1,506,209	97,608	83,739	497,383	5,777,670	72,678	751,548	2,737,477	108,844	169,707	1,288,106	3,418,252	315,517	52,552	4,188,927	465,989	40,491
1,533,920	99,249	85,195	506,068	5,883,913	73,829	761,926	2,791,623	110,956	172,813	1,311,154	3,481,704	321,340	53,548	4,265,915	474,639	41,259
1,561,632	100,890	86,652	514,753	5,990,158	74,980	772,303	2,845,772	113,068	175,919	1,334,202	3,545,158	327,164	54,545	4,342,903	483,289	42,027
1,589,343	102,531	88,108	523,438	6,096,400	76,132	782,681	2,899,925	115,180	179,025	1,357,250	3,608,608	332,987	55,541	4,419,891	491,938	42,795
1,617,055	104,172	89,564	532,123	6,202,643	77,283	793,059	2,954,080	117,292	182,130	1,380,299	3,672,060	338,810	56,538	4,496,879	500,588	43,563
1,644,766	105,813	91,021	540,808	6,303,886	78,434	803,436	3,008,235	119,404	185,236	1,403,347	3,735,512	344,634	57,534	4,573,867	509,238	44,331
1,672,478	107,454	92,477	549,493	6,415,129	79,585	813,814	3,062,389	121,516	188,342	1,426,395	3,798,964	350,457	58,531	4,650,856	517,888	45,099
1,700,189	109,094	93,934	558,178	6,521,373	80,738	824,192	3,116,544	123,628	191,448	1,449,444	3,862,416	356,281	59,527	4,727,844	526,537	45,867
1,727,901	110.735	95.390	566.863	6.627.616	81.887	834.569	3,170,698	125.740	194,554	1,472,492	3,925,868	362,104	60.524	4.804.832	535.187	46.635
1,755,612	112.376	96.846	575.548	6.694.473	83.038	844.947	3.224.853	127.853	197.660	1,495,540	3,989,320	367.927	61,520	4.881.811	543.837	47,403
1.783.324	114.017	98.303	584.218	6.800.717	84.190	855,325	3,279,008	129,965	200.766	1,518,589	4.052.772	373.751	62.517	4.958.780	552,486	48.171
1.811.035	115.658	99.759	592.887	6,906,960	85.341	865.702	3.333.541	132.077	203.872	1.541.637	4,116,224	379.574	63.513	5.035.750	561,136	48,939
1.838.747	117,299	101,215	601,557	7.013.203	86.492	876.080	3,388,561	134,189	206,977	1,564,686	4,179,676	385.398	64,509	5.112.719	569.786	49.707

										Johnstown SS											Farmers Valley					
Moshannon	Waldo Run	Four Mile Junction	West Union SS	Shuman Hill/Mobley	Bartonville	Squab Hollow SS	Squab Hollow SVC	Shingletown	Claysburg Ring Bus	Capacitor	Grover Sub	Rider Sub	Shawville	Monocacy SS	Mainsburg SS	Yeagertown	Nyswaner	Oak Mound	Joffre SS	Erie South	Substation	Richwood Hill	Damascus SS	Warren Substation	Piercebrook SS	Total
585,593	5,599,960	777,589	76,759	104,244	41,924	1,598,554	3,031,510	149,594	578,547	98,770	40,381	1,395,044	161,817	2,584,308	1,325,014	74,701	59,956	4,038,734	2,127,724	3,577,260	2,107,930	3,884,687	41,580	778,088	131,976	256,283,793
598,767	5,724,550	793,482	78,318		43,135	1,638,743	3,108,353	153,272	592,146	101,166	41,323	1,438,144	165,735	2,651,126	1,359,984	76,688	61,595	4,211,262	2,231,804	3,691,955	2,177,314	4,039,222	43,783		149,919	260,016,780
611,940	5,849,161	1 809,375	79,878	109,490	44,347	1,678,932	3,185,197	158,949	605,746	103,561	42,266	1,477,245	169,652	2,717,944	1,395,043	78,674	63,234	4,383,813	2,335,887	3,806,650	2,246,701	4,193,760	45,986	862,044	167,861	263,677,911
625,114	5,973,788	825,268	81,438	112,113	45,558	1,719,121	3,262,040	160,627	619,345	105,957	43,208	1,518,351	173,570	2,784,761	1,430,226	80,660	64,873	4,556,530	2,439,973	3,921,345	2,316,091	4,348,299	48,189	904,022	185,803	267,330,968
638,182	6,098,442	2 841,161	82,998	114,738	46,770	1,759,310	3,338,884	164,304	632,945	108,352	44,150	1,559,465	177,487	2,851,579	1,465,441	82,646	66,512	4,729,630	2,544,060	4,038,042	2,385,482	4,502,839	50,393	946,000	203,749	270.974.936
651.250	6.223.096	857.054	84.557	117.359	47.981	1.799.499	3.415.728	167.982	646.544	110.748	45.092	1,600,586	181.405	2.918.397	1,509,205	84.633	68.151	4.903.217	2.648.148	4.150.741	2.454.872	4.657.381	52,596	987.978	221.752	274.603.061
664,423	6,347,755	5 872,947	86,117	119,982	49,193	1,839,689	3,492,571	171,659	660,144	113,143	46,034	1,641,715	185,323	2,985,215	1,561,565	86,619	69,790	5,077,378	2,752,244	4,265,440	2,524,262	4,811,925	54,799	1,029,956	239,894	278.574.031
677.596	6.473.434	888.840	87.677	122.605	50.404	1.879.878	3,569,415	175.337	673.743	115.539	46,977	1.682.844	189.240	3.052.033	1.614.193	88.605	71.430	5.252.220	2.856.347	4.380.138	2.593.652	4.966.470	57.002	1.071.933	27.648	276.333.058
690,770	6.600.367	7 904.732	89.237	125.228	51.616	1.920.067	3.646.258	179.014	687.343	117.934	47.919	1,725,095	193,158	3.118.851	1.667.168	90.502	73.069	5.427.938	2,960,451	4.494.839	2.662.657	5.121.017	179,940	1.113.908	46.226	280.158.178
703.943	6.727.712	2 920.625	90.796	127.851	52.827	1.960.256	3,723,102	182.691	700.942	120.330	48.861	1.768.561	197.076	3,185,669	1.662.227	92,578	74.708	5.604.325	3.084.555	4.609.540	2.731.662	5.275.565	183.582	1.155.884	64,559	283,755,359
717.117	6.855.529	936.518	92,356	130,474	54,039	2,000,445	3,787,918	186,369	714.542	122,726	49.803	1.812.250	200,993	3.252.487	1.711.504	94,564	76.347	5.781,100	3,168,659	4.724.239	2.800.667	5.430.115	187.224	1,197,859	82.819	287.408.100
730,290	6.984.004	952,411	93,916	133.097	55,250	2.040.634	3.864.762	190,046	728.141	125.121	50.746	1.856.084	204.911	3,319,305	1,760,910	96,551	77,986	5,958,235	3.272.763	4.838.939	2.869.672	5.584.688	190.867	1,239,834	101,080	291.088.830
743.463	7 112 912	968.304	95,476		56.462	2 080 824	3 941 605	193.724	741 741	127.517	51,688	1,899,998	208.828	3.386.123	1,810,402	98.537	79.625	6.135.540	3,376,867	4,953,642	2 938 678	5,739,219	194,509		119,344	294,797,494
664,496	6,351,593	872,947	86,117	119,982	49,193	1,839,689	3,489,796	171,659	660,144	113,143	46,034	1,644,101	185,323	2,985,215	1,559,453	86,619	69,790	5,081,532	2,752,268	4,265,444	2,523,818	4,811,936	102,342	1,029,953	134,048	275,769,423

Trans-Allegheny Interstate Line (

December Part 2019 Part	_		At	tachment 5 - Cost Sup
Part		For 2018		
March	company records	For 2019		
March		For 2019		
April	. ,			
May				
Anne company records For 2019 August company records For 2019 Equitable Company records For 2019 Equitable Company records For 2019 Collabor c	. ,			
April	company records	For 2019		
Agost September For 2019 September	company records	For 2019		
Segretation	company records	For 2019		
Colorer	company records	For 2019		
November Part 2019	company records	For 2019		
November	company records	For 2019		
December Part 2019 Part	. ,	For 2019		
Calculation of Intergible Accumulated Depreciation Decimination of Service Se	p219.26.B	For 2019		
December				
Trial Accommission Trial A				
Accumulation of Consental Accumulation Depreciation Education of Production Accumulation Depreciation Education of Consense of Produc				
Cabicidation of Central Accountained Detectation Documber Prop user FEIO Form 1 p19.28b For 2018 Consented Properties of Central Depreciation Prop user FEIO Form 1 p19.28b For 2018 Catalization of Production Accountained Depreciation Documber Prop user FEIO Form 1 p19.20b Libb to Appendix A, line 32 Libb to Appendix A, lin	p200.21b	For 2019		17,444,43
Description of Security Accountains Description Security Sec				Link to Appendix A, lin
Documber Prior year PRE/ From 1 p219.28b For 2019 \$882.707 \$1.5 12.5			Link to Appendix A, line 25	25
Documber of Production Accumulated Depreciation Polymer company records For 2019 Links to Appendix A, Bio 24 Links				
Table 287 Tabl				
Described on differential A committed Depreciation Documber Documber Documber Prior year FERC Form 1 p193.20.5-24 b For 2018 Juney Company records For 2019 April Company records For 2019 Described Desc	p219.28.b	For 2019		
Concludion of Production Accomulated Depreciation Biorce Fig. 2019 Fig. 20			11,001,281	
Description of Production Accumulated Depreciation			Link to Annondix A line 24	
December Per year PRE/ Form 1 g191 20-24 b For 2018	Source		Citik to Appendix A, time 24	-7
January	Prior year FERC Form 1 p219.20.b-24.b	For 2018	-	
March				
April		For 2019	-	
Sky	company records	For 2019	-	
June company records For 2019 Adjust For 2019 - Separate For 2019 - Separate Company records For 2019 Separate Company records For 2019 Company records For 2019 Post Conformation of Company records For 2019 Production Accoundated Depreciation p219.2019 Res 219.24.b For 2019 Test Ascoundated Depreciation Sum of averages above 302.818.322 336.361.5.22				
20				
August company records For 2019 Signification For 2019				
September Company records For 2019			-	
Oxidate company records For 2019 November company records For 2019 Production Accommitated Depreciation p219.20.b thru 219.24.b Por 2019 Treat Accommitated Depreciation Sum of averages above 302,918.202 334,941.7 Test Accommitated Depreciation Sum of averages above 302,918.202 334,941.7			-	
November			-	
December				
Production Accumulated Depreciation Total Accumulated Depreciation Burn of averages above 302,518,322 32,3361,77 Lists to Appoint A.1 Lists to Appoint A.1			-	
Total Accumulated Depreciation Sum of averages above 302,618,322 324,361,77 Link to Appendix A.*	p219.20.b thru 219.24.b	For 2019		
Link to Appendix A, li				1
Link to Appendix A, li				001 001 70
Link to Appendix A, line 8 8	Sum of averages above		302,618,322	
Total Accumulated Depreciation		соптрилу посотав соптрилу посота	Plor year FERIC From 1 p2/19 28.b Fe 2018 company records Fe 2019 p2/19 28.b Fe 2019 company records Fe 2019 p2/19 28.b P2/19/24.b Fe 2019 p2/19/24.b Fe 2019 p2/19/24.b Fe 2019	Боское Рего уван FERC Form 1 p2 19.2 lb. b Faz 2018

Attachment 5 - Cost Support

Electric / Non-electric Cost Support				
Link to Appendix A, line #s, Descriptions, Notes, Form 1 Page #s and Instruction	15	Form 1 Amount Electric Portion	Non-electric Portion	Details
Middels are Septila. 30 Internation Memoria. In Suprim 31 Underlighted Steer Expense Allocated General Expenses Allocated General Expenses 51 Push Percyl, Under Capital Lasses 0	p227.8 p227.16 p200.4.c	Beg of year End of Year (for estim	Average of Beginning and Ending Balances	
Transmission / Non-transmission Cost Support		Į.		
Link to Appendix A, line #s, Descriptions, Notes, Form 1 Page #s and Instruction 3. Transmission Related Land Held for Future Use	Total	Beg of year End of Year (for estim	Average of Beginning and Ending Balances	Coulds East Pools Nove
	Non-transmission Related Transmission Related	:	1	
CWIP & Expensed Lease Worksheel				
Link to Appendix A, line #s, Descriptions, Notes, Form 1 Page #s and Instruction	15	Beg of year CWIP In Form 1 Amoun	Expensed Lease in Form 1 Amount	Code
6 Electric Plant in Service (Note B) Plant in Service	Attachment 5	2,161,955,160	•	
15 Transmission Plant In Service (Note B) Accumulated Depreciation	Attachment 5	2,064,865,510	•	
23 Transmission Accumulated Depreciatio (Note B)	Attachment 5	256,283,793		
Pre-Commercial Costs Capitalized				
Link to Appendix A, line #s, Descriptions, Notes, Form 1 Page #s and Instruction	ıs	EOY for Estimate and BOY for Amortization Amount (6 Final 4 Years)	Average of Beginning and Ending Balances Over Calculated End of Year (for estimate and reconciliation)	
35 Unamortized Capitalized Pre-Commercial Costs		s - s	. s . s .	
EPRI Dues Cost Support				
Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions Allocated General & Common Expenses		Beg of year EPRI Dues		Details
	p352 & 353	0 0		Enter Debits Here
Regulatory Expense Related to Transmission Cost Support		l		
Link to Appendix A, line #s, Descriptions, Notes, Form 1 Page #s and Instruction Directly Assigned AAG	15	Form 1 Amount Transmission Related		Databa
	p323.189.b		Link to Appendix A, . line 62	Enter Details Here
Safety Related Advertising Cost Support				
Link to Appendix A, line #s, Descriptions, Notes, Form 1 Page #s and Instruction Directly Assigned A&G	15	Form 1 Amount Safety Related	Non-safety Related	Details
66 General Advertising Exp Account 930.1 (Note F)	p323.191.b		Link to Appendix A, Ine 66	Enter Octails Here
The second of th	p===.101.0			

Attachment 5 - Cost Support

MultiState Workpaper	tacililent 3 - cost support	
Link to Appendix A, line #s, Descriptions, Notes, Form 1 Page #s and Instructions	State 1 State 2 State 3	State 4 State 5 Details
Income Tax Rates	MD 8.25% WV 6.5% PA 9.99% Composite Composite is calculated based on sales, payroll and property for each jurisdiction	VA 6.0%
110 SIT=State Income Tax Rate or Composite (Note H)	7.4087% Composite is carculated based on sales, payroit and properly for each jurisdiction	
Education and Out Reach Cost Support		
Link to Appendix A, line #s, Descriptions, Notes, Form 1 Page #s and Instructions	Form 1 Amount Februarion & Outreach Other	Details
Directly Assigned A&G		
63 General Advertising Exp Account 930. (Note J) p323.191.b	· · · · · · · · · · · · · · · · · · ·	Enter Details Here
Excluded Plant Cost Support		
Link to Appendix A, line #s, Descriptions, Notes, Form 1 Page #s and Instructions	Excluded Transmission	
Link to Appendix A, line #s, Descriptions, Notes, Form 1 Page #s and Instructions Adjustment to Remove Revenue Requirements Associated with Excluded Transmission Facilities	Facilities	Description of the Facilities
126 Excluded Transmission Facilities (Note L)		General Description of the Facilities
Step Up Facilities		General Description of the Landes
Instructions:	Enter \$	
1 Remove all investment below 69 kV or generator step up transformers included in transmission plant in service that		
are not a result of the RTEP Process		
If unable to determine the investment below 69kV in a substation with investment of 69 kV and higher as well as below 69 kV,	Or	
the following formula will be used: Example A Total investment in substation 1,000,000	Enter \$	
B Identifiable investment in Transmission (provide workpaper 500,000		
C Identifiable investment in Distribution (provide workpaper: 400,000		
D Amount to be excluded (A x (C / (B + C))) 444,444		Add more lines if necessary
		Add titled title it microstary
Prepayments		
	Average of	
	Beginning and	Transmission
Link to Appendix A, line #s, Descriptions, Notes, Form 1 Page #s and Instructions 36 Prepsyments	Beg of year End of Year Ending Balances Enter S	s Allocation Ralated Details Amount
30 Prepayments Prepayments Prepayments Prepayments	1,080 247,084 124,08	
Prepaid Pensions if not included in Prepayments	- 0	0 100% 0
Total Prepayments	1,080 247,084 124,08	124,082
	<u> </u>	
Detail of Account 566 Miscellaneous Transmission Expenses		
Link to Appendix A, line #s, Descriptions, Notes, Form 1 Page #s and Instructions	Total	Details
70 Amortization Expense on Pre-Commercial Cost	s	Summary of Pre-Commercial Expenses
// Amortization Expense on Pre-Commercial Cost 71 Pre-Commercial Expense	\$ -	Summary of Pre-Commercial Expenses
72 Miscellaneous Transmission Expense	1,351,737	Cost Element Name Total
Total Account 566 Miscellaneous Transmission Expenses p.321.97.b	\$ 1,351,737	
		Labor & Overhead (1)
		Miscolareous (2) Outside Services Legal (3)
		Custade Services Other (4)
		Outside Services Rates (5)
		Advertising (6)
		Travel, Lodging and Meals (7)
		Travel, Lodging and Makis (7) Total -
		Total (1) Labor 8 overhead amount includes costs allocated to preparation of the preliminary survey and investigation.
		Total (1) Labor So included amount includes coals absoluted to preparation of the proliminary survey and investigation. (3) Modulitaneous amount includes certail of valuator for department to billion for open broase. For
		Total (1) About Sun
		Total (1) Lidor I commission amount includes cools allocate to preparation of the priminary survey and inestigation. (3) Modulinances amount includes used and oriented the department facilities for open bosses. Facilities there is vision anality from laugh Facinismos Facinismos Facinismos and Facinismos and Facinismos and Amount Amounted analities and Amounted Amoun
		Total 11. Mode in Sandard service of colorises costs administration of the proteinings serving and investigation. (3) Modelmane amend findings service of colorises the dispetiment findings of the originations. Find St. Mack for various military for Mack placement for Marchael for Parchael for the origination of t
		Total (1) Lindo is confident amount includes costs advanced to preparation of the preliminary average and investigation. (3) Modellineaus amount includes sent self-orienter the department Ecololies for open bosses. For EX bests in virticis making their large if reconsence Commission in Firence, the for section best in the virticis making their large if reconsence Commission in Firence, the for section best in the contraction of the commission in Firence Commission in Firence best in the contraction in the contraction of the firence contraction trace making the contraction in the contraction of the firence contraction trace making the contraction in the form which the description of the firence contraction to the contraction of the contraction of the contraction of the firence contraction to the contraction of the cont
		Total (1) Label So softward emoral circles costs skelute it to paparation of the preliminary sounce and investigation. (2) Modelmance amount foliation sent of volume the department foliation for the preliminary sounce and for EX tests for vacious multiples of long self-procurents (Carellande France, for EX tests for vacious multiples of long self-procurents (Carellande France, for long self-procurents) (Carellande France, for long self-procurents) (Carellande Franc
		Total (1) Libro Exemble amount includes costs advanted to preparation of the preliminary purely and investigation. (a) Mandatherous amount includes sent and or clusters the department bottles for open bosses. Fed EX bests broken making throst large Air-processors, Exemption, the for works conference and serve and play places has been conferenced and serve all play places and the conference and serve and play places have been advanted to the first play and play allowed and the conference and serve exclude the seat for the maximum of play and describes in conference and the serve excludes the seat for the seat for seatern and evidence and existence services, companying management copen focus and seatern services. (a) Couldes services services that the seat of the seatern services.
		Total (1) Abor & Contracted amount divides costs admissful to papeation of the princising survey and montingiate. (3) Installments amount findings setted or observed the department findings of the or open bosons, find EX tests for subson surface but settly for but sept findings of the order to set the cost of the order of the order of the order of the order conference under set FM appeatable time. (3) Contracting settle excellent the local fire markets and proposation of the filing to determine incention (4) Other services of the montion from the order opened, mode settlements outcome contracting to the order of the order opened order of the order opened order or opened order or opened or opened order order.
		Total 1. Lindo Southerd control circles could actual to propertion of the preliminary priving and investigation. 3. Model on the control could be supported to the preliminary priving the CET. See for vision and significant for longer for control control for the control control could be supported to the control con
Mr France Southeast		Total (1) Abor Excellent amount divides costs admissful to pagaration of the princising soung and investigation. (3) Modifications amount foliable settled ordered the department foliable for open focuse, find EX tests for sound multiple of the pagaration for the sound to open focus, find EX tests for sound multiple of the pagaration for the sound conference out an ext PM application for the sound conference out an ext PM application for the sound or the sound conference out an extra find application for the sound or the sound of the sound or t
Net Revenue Magnitement 180 Fairly Ocels under Sector 36.9 of the PAN CATT		Total (1) Abor & Contracted amount divides costs admissful to papeation of the princising survey and montingiate. (3) Installments amount findings setted or observed the department findings of the or open bosons, find EX tests for subson surface but settly for but sept findings of the order to set the cost of the order of the order of the order of the order conference under set FM appeatable time. (3) Contracting settle excellent the local fire markets and proposation of the filing to determine incention (4) Other services of the montion from the order opened, mode settlements outcome contracting to the order of the order opened order of the order opened order or opened order or opened or opened order order.

Attachment 5 - Cost Support

Depreciation Rates

				Survivor	Salvage	Rate (Annual)											
TRANSMISSION PLANT		Life		Curve	Percent	Percent	Black Oak	Wylie Ridge	502 Junction - Territorial Mo. Line Tra		North Shenandoah	Bedington Transformer	Meadowbrook Capacitor	Kammer Transformers	Doubs Replacement D Transformer #2	oubs Replacement Transformer #3	: Rej Tran
350.2 352	Land & Land Rights - Easements Structures & Improvements SVC	70 50 35	:	R4 R3	0 (10)	1.43 2.20 2.86	18,083		2,474,432 1,305,949								
353	Station Equipment Other SVC SCADA	50 Note 1 15	Ė	R2 80 R2 - 35-yr truncation S3	(5) 0	2.10 2.96 6.67	1,392,630	578,056	868,922	167,122	40,402	162,194	144,892	831,424	94,934	82,962	
354 356	Towers & Fixtures Poles & Fixtures	65 55	:	R4 R2.5	(25) (20)	1.92 2.18			7,293,191 2,909,065								
356	Overhead Conductors & Devices Other Clearing	55 70	:	R2.5 R4	(40) 0	2.80 1.43			6,389,047								
357 358	Underground conduit Underground conductor and devices SVC	55 45 35	:	S3 R3	(5) (5)	1.91 2.33 2.86											
Total Transmission Plant Depreciation Total Transmission Depreciation Expense (must tie to p33	96.7.f) 44,096,294						1,410,713	578,056	21,240,606	167,122	40,402	162,194	144,892	831,424	94,934	82,982	

Grandsfere
152 281 14,882 2,596 1,255 13,450
913-04 13-03 34-08 110-314 320-756 91-056 17-076 184-080 12732-06 24-080 21-056 32-275 76-0
55,706 96,566 8,428 96,557
36,726 38,509 42,716
151.484 13.614 34.383 572.721 322.538 18.691 17.476 104.080 1.2773.246 124.522 651.084 25.345 37.270 276.580 761.

 lairsville	Carbon Center	Hunterstown	Johnstown	Buffalo Road	Moshannon	Waldo Run	Four Mile Junction	West Union SS	Shuman Hill/Mobley	Bartonville	Squab Hollow SS	Squab Hollow SVC	Shingletown	Claysburg Ring Bus	Johnstown SS Capacitor
						89,286	6,328		2,078		153,903			18,596	
69,881	11,958	923,792	103,796	9,216	157,870	1,313,452	184,387	18,717	29,399	14,538	328,367	922,123	44,130	144,608	28,746
						80,158									
						30,048									
69,881	11,958	923,792	103,796	9,216	157,870	1,512,945	190,716	18,717	31,477	14,538	482,269.92	922,123	44,13	163,194	28,746

over Sub	Rider Sub	Shawville	Monocacy SS	Mainsburg SS	Yeagertown	Nyswaner	Oak Mound	Joffre SS	Erie South	Farmers Valley Substation	Richwood Hill	Damascas SS	Warren Substation	Piercebrook SS	Total
	114,253 57,933							118,517	12,132	248,349	615,812		37,894		2,591,6 2,831,6
11,307	115,021	47,011	801,815	543,503	21,813	19,669	63,162	1,130,625	1,364,251	580,332	1,238,721	33,634	465,838	219,356	18,602
	11,386 (644)						866,764								7,42 4,07
	206,961						1,166,880								8,57
11,307	504,900	47,011	801,815	543,503	21,813	19,669	2,096,806	1,249,142	1,376,384	828,681	1,854,533	33,634	503,732	219,356	44,0

Attachment 5 - Cost Support

GENERAL PLANT		Life	Survivor Curve	Net Salvage Percent	Accrual Rate (Annual) Percent	Total
390	Structures & Improvements	50	R1	0	2.00	962,5
391	Office Furniture & Equipment	20	SQ	0	5.00	109,9
	Information Systems	10	SQ	0	10.00	452,7
	Data Handling	10	SQ	0	10.00	
392	Transportation Equipment					
	Other	15	SQ	20	5.33	
	Autos	7	S3	20	11.43	
	Light Trucks	11.5	L4	20	6.96	1,
	Medium Truck	11.5	L4	20	6.96	
	Trailers	18	L1	20	4.44	
	ATV	15	SQ	20	5.33	
393	Stores Equipment	20	SQ	0	5.00	
394	Tools, Shop & Garage Equipment	20	SQ	0	5.00	
396	Power Operated Equipment	18	L1	25	4.17	
397	Communication Equipment	15	SQ	0	6.67	817
398	Miscellaneous Equipment	15	SQ	0	6.67	
Total General Plant Total General Plant Depreciation Expense (must tie to p336.10.b & c)	2,345,101					2,345,
	·		Survivor	Net Salvage	Accrual Rate (Annual)	
INTANGIBLE PLANT		Life	Curve	Percent	Percent	Total
303	Miscellaneous Intangible Plant	5	SQ	0	20.00	3,177,
Total Intangible Plant						3,177,
Total Intangible Plant Amoritization (must tie to p336.1 d & e)	3,177,866					

PBOP Expenses

1 Total PBOP expenses	22,856,433
2 Amount relating to retired personnel	8,786,372
3 Amount allocated on FTEs	14,070,061
4 Number of FTEs for Allegheny	4,408
5 Cost per FTE	3,192
6 TrAlLCo FTEs (labor not capitalized) current year	0.000
7 TrAILCo PBOP Expense for base year	
8 TrAILCo PBOP Expense in Account 926 for current year	0
9 PROP Adjustment for Annendix A. Line 57	

Attachment 5a - Pre-Commercial Costs and CWIP

Step 1 Totals reported below are by project with the amounts to be expensed reported separately from those to be deferred and amortized (note, deferred costs related to 2006 include AFUDC).

For Forecasting purposes, Pre-Commercial expenses will be estimated. Total deferred and amortized Pre-commercial costs will be the actual amount agreeing to FERC Form 1 and Attachment 5.

For each project, where CWIP is to be recovered in rate base, CWIP will be estimated and the totals reported below by project. For the Reconciliation, for each project where CWIP is to be recovered in rate base the CWIP will be itemized by project below. Additionally, the amount of AFUDC that would have been capitalized for projects where CWIP is included in rate base will be reported in the FERC Form No. 1. Step 2

For the Reconcilitation, the total additions to plant in service for that year will be summarized by project to demonstrate no Pre-Commercial costs expensed were included in the additions to plant in service and AFUDC on projects where CW was recovered in rate base was included in the additions to plant in service. The Pre-commercial expenses are actual expenses incurred for the reconcilitation year. Total deferred and amortized Pre-commercial costs will be the actual amount agreeing to FERC Form 1 and Attachment 5.

	Column A	Column B Pre-	Column C Commercial (Column D Costs		Column E CWIP	Column F	Column G
Step 1	For Estimate: Prexy - 502 Junction 138 kV (CWIP) Prexy - 502 Junction 500 kV (CWIP) 502 Junction - Territorial Line (CWIP) Total	Expensed (Estimated)	Deferred -	Amount of Deferred Amortized in Year - - -	Estimate Step	Average of 13 Monthly 2 Balances		
Step 3	For Reconciliation:		-Commercial	Amount of Deferred	For Reconciliation	on CWIP	AFUDC In CWIP	AFUDC (If CWIP was not in Rate Base)
	Prexy - 502 Junction 138 kV (CWIP)	Expensed (Actual)	Deferred	Amortized in Year				
	2		- 1	1		1	1	
	3	-	-	-		-	-	
	4	-		•		-		
	Total	-	-			-	-	
	Prexy - 502 Junction 500 kV (CWIP)							
	1 2	-		-		-	-	
	3							
	4	-	-	-		-	-	
	 Total							
	502 Junction - Territorial Line (CWIP)							
	1 2		1			1	1	1
	3	-		-		-		-
	4	-	-	-		-	-	-
	 Total	-				-		-
-	Total Additions to Plant In Service (sum of the above f		Plan Refer to	Attachment 5 - Cost Sunt in Service Workshee Attachment 5 - Cost Sunt in Service Workshee	et upport			
Notes:	Difference (must be zero) 1 Small projects may be combined into larger projects where rate tr on the estimated plant in service of each project.		-Commercial	costs benefiting multipl	le projects will be allocated to	projects based		

Allocation of Pre-Commercial Costs	Plant in Service (Estimated 2/12/2008)	Allocation
Prexy - 502 Junction 138 kV (CWIP)	94,140,000	0.10734
Prexy - 502 Junction 500 Kv (CWIP)	121,260,000	0.13827
502 Junction - Territorial Line (CWIP)	661,600,000	0.75439
Total	877 000 000	1,00000

Attachment 6 - Estimate and Reconciliation Worksheet

Reconciliation Details 1 April Year 2

TO populates the formula with Year 1 data

Rev Req based on Year 1 data

Must run Appendix A to get this number (without any cap adds in Appendix A line 16 and without CWIP in Appendix A line 33)

2 April Year 2

TO estimates all transmission Cap Adds and CWIP for Year 2 based on each project's cost using the average of 13 monthly balances. Cap Adds are the projects expected to be in service in Year 2.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(1)
		Richwood Hill	Erie South	Joffre Sub	Oak Mound	Damascus Substation	Warren Substation	Kammer	502 Junction - Territorial Line (monthly additions)
		(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)
Dec (Prior Year CWIP) p216.b.43	Actual	=	-	_		_		-	
Jan 2019	Actual	1,006		29	(3,362)				(812,095)
Feb	Actual	940	212	3,450	28,257				28,310
Mar	Actual	940	84	29	143,936				14,497
Apr	Actual	940	1,002	889	259,584	-		-	23,185
May	Budget	-	-	-	629,365	-		-	1,680,941
Jun	Budget			-	863,547				283,923
Jul	Budget	-	-	-	863,547	-		-	2,121
Aug	Budget	-	-	-	585,456	-		-	11
Sep	Budget	-	-	-	526,910	-		-	4
Oct	Budget		-	-					(
Nov	Budget	-	-	-		-		-	(
Dec	Budget	-	-	-		-		-	(
Total	•	3,826	1,298	4,396	3,897,240				1,220,898

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
			502 Jct Substation	Black Oak					Wylie Ridge
		(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)
Dec (Minor Tear CWIP) p216.b.43									
Jan 2019	Actual		58,243	591					
Feb	Actual		115,251						
Mar	Actual		9,108						
Apr	Actual	-	(1,312)	584,812	-	-			-
May	Budget	-		5,299	-	-			56,626
Jun	Budget	-		155,076	-	-			93,834
Jul	Budget	-		-	-	-			-
Aug	Budget	-		-	-				-
Sep	Budget	-		-	-				-
Oct	Budget	-		-	-	-			-
Nov	Budget	-		-	-	-			-
Dec	Budget	-		-	-				-
Total			181,291	745,779					150,460

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
				Waldo Run SS	Meadowbrook SS Capacitor	Conemaugh	Rider	Cabot Substation	
		(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)
Dec (Prior Year CWIP) p216.b.43									
Jan 2019	Actual			40,535	461		126		
Feb	Actual			(17,992)	38	4,230			
Mar	Actual			34,116		1,052	2,871		
Apr	Actual	-	-	(2,576)		-	8,411	-	=
May	Budget	-	-	-		-		101,759	=
Jun	Budget	-	-	-		-		-	=
Jul	Budget	=	-	-	-	-	-	-	=
Aug	Budget	=	-	-	-	-	-	-	-
Sep	Budget	-	-	-		-		-	=
Oct	Budget	-	-	-		-		-	=
Nov	Budget	-	-	-		-		-	=
Dec	Budget	-	-	-	-	-	-	-	-
Total			-	54,083	499	5,281	11,409	101,759	-

				Month End Balan	ces			
Other Projects PIS (Monthly additions)	Richwood Hill	Erie South	Joffre Sub	Oak Mound	Damascus Substation	Warren Substation	Kammer	502 Junction - Territori Line (monthly additions
	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	CWIP
	_	_	_	_	_	_	_	_
	1,006		29	(3,362)		-	-	(812,09
	1.946	212	3.479	24.894	-	-	_	(783,78
	2,886	296	3,507	168,830				(769,28)
	3,826	1,298	4,396	428,414	-	-	-	(746,10
	3,826	1,298	4,396	1,057,779	-	-	-	934,83
	3,826	1,298	4,396	1,921,327	-	-	-	1,218,76
	3,826	1,298	4,396	2,784,874	-	-	-	1,220,883
	3,826	1,298	4,396	3,370,330	-	-	-	1,220,894
	3,826	1,298	4,396	3,897,240	-	-	-	1,220,89
	3,826	1,298	4,396	3,897,240	-	-	-	1,220,89
	3,826	1,298	4,396	3,897,240		-	-	1,220,89
	3,826	1,298	4,396	3,897,240	-	-	-	1,220,89
	40,267	12,192	46,581	25,342,049	-		-	6,367,699
	3,097	938	3,583	1,949,388	-	-	-	489,82
(Appendix A, Line 16)	(Appendix A, Line 16)	(Appendix A, Line 16)	(Appendix A, Line 16)			(Appendix A, Line 33)		

				Month End Balance	es			
Other Projects PIS (Monthly additions)		502 Jct Substation	Black Oak					Wyle Ridge
	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)
	-	-	-	-	-	-	-	-
	-	58,243	591	-	-	=	-	-
	-	173,495	591	-	-	=	-	-
	-	182,603	591	-	-	-	-	
	-	181,291	585,404	-	-	-	-	
	-	181,291	590,703	-	-	-	-	56,6
	-	181,291	745,779	-	-	-	-	150,4
	-	181,291	745,779	-	-	-	-	150,4
	-	181,291	745,779	-	-	-	-	150,4
	-	181,291	745,779	-	-	-	-	150,4
	-	181,291	745,779	-	-	=	-	150,4
	-	181,291	745,779	-	-	-	-	150,4
	-	181,291	745,779	-	-	-	-	150,4
		2.045.959	6.398.334					1,109,8

				Month End Balance	es .				
Other Projects PIS				Meadowbrook SS					
(Monthly additions)			Waldo Run SS	Capacitor	Conemaugh	Rider	Cabot Substation		
	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	
	-	-	-	-	-	-	-	-	
	-	-	40,535	461	-	126	-	-	
	-	-	22,543	499	4,230	126	-	-	
	-	-	56,659	499	5,281	2,998	-	-	
	-	-	54,083	499	5,281	11,409	-	-	
		-	54,083	499	5,281	11.409	101,759	-	
	-	-	54,083	499	5,281	11.409	101,759	-	
	-	-	54,083	499	5,281	11,409	101,759	-	
		-	54,083	499	5,281	11.409	101,759	-	
	-	-	54,083	499	5,281	11.409	101,759	-	
	-	-	54.083	499	5,281	11.409	101,759	-	
	_	_	54.083	499	5.281	11.409	101,759	_	
			54,083	499	5,281	11,409	101,759		
		•	606,480	5,947	57,041	105,930	814,074	-	

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
		Mainsburg	Piercebrook SS	Moshannon	Farmers Valley SS				
		(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)
Dec (Prior Tear									
CWIP) p216.b.43									
Jan 2019	Actual		(276)		1,769				
Feb	Actual	101,802	(100)		354				
Mar	Actual	39,422	1,339		3,212				
Apr	Actual	(3,136)	2,244	(120,404)	(882)	-	-	-	-
May	Budget	11,117,627	-	-	-	-	-	-	-
Jun	Budget	84,306	-	-		-			=
Jul	Budget	43,909	-	-		-			=
Aug	Budget	14,636	-	-		-			=
Sep	Budget	-	-	-	-	-	-	-	-
Oct	Budget		-	-		-			=
Nov	Budget		-	-		-			=
Dec	Budget	-	-	-	-	-	-	-	-
Total		11 398 565	3 207	(120 404)	4 454				

•				Month End Balance	S		EXHIBIT NO. TR	C-203
Other Projects PIS Monthly additions)	Mainsburg	Pieroebrook SS	Moshannon	Farmers Valley SS			ATTACHMENT	H-18A
	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service) Page 30	(IOEr49)
	-	-	-	-	-	-		
	-	(276)	-	1,769	-	-	-	
	101,802	(376)	-	2,123	-	-	-	
	141,223	963	-	5,335	-	-	-	
	138,087	3,207	(120,404)	4,454	-	-	-	
	11,255,714	3,207	(120,404)	4,454	-	-	-	
	11,340,020	3,207	(120,404)	4,454	-	-	-	
	11,383,929	3,207	(120,404)	4,454	-	-	-	
	11,398,565	3,207	(120,404)	4,454	-	-	-	
	11,398,565	3,207	(120,404)	4,454	-	-	-	
	11,398,565	3,207	(120,404)	4,454	-	-	-	
	11,398,565	3,207	(120,404)	4,454	-	-	-	
	11,398,565	3,207	(120,404)	4,454	-	-	-	
	91.353.603	29,174	(1.083.637)	49,309			-	

3 Anni Veer 2

TO adds Cap Adds and CWIP to plant in service in Formula (Appendix A, Lines 16 and 33)

May Year

Post results of Step 3 on PJM web site

	Capador (Monthy Kammer Transformers Doubs Transformer #2 Doubs Transformer #3 Doubs Transformer #3 Doubs Transformer #3 Doubs Transformer #4 Doubs Transform	502 Junction - Territo Line (Monthl additions) 123,986,83
\$ 2,489,509 5,171,641,76 210,025.88 855,713.01 810,921.64 693,362.89 4,213,305 556,242 510,449 626,038 805,203 5,139,678 228,310 96,749 585,096 226,563 2,839,019 7,197,954	693,362.89 4,213,305 556,242 510,449 626,038 805,203 5,139,678 228,310 96,749 585,096 226,563 2,839,019 7,197,954	123.986.83
		Grover SS Capacitor
\$ 1,549,247.14 6,929,411.51 3,294,848.78 388,909.51 1,133,089.47 577,939.73 136,139 75,722 4,239,640 140,855 207,969 884,512 66,700 270,142 13,461,325 179,509 51,406 -	577,939.73	100,82
Handsome Lake - Homer Johnstown Sub		
		Warren Substation
\$ 9,319,18281 1,502,621.80 104,986.15 2,151,605.20 5,928,705.39 4,572,784.74 83,419 3,608,576 163,269 920,728 6,057,493 2,293,565 3,918,077 214,088 112,522 1,827,760 4,775,517 155,301	4,572,784,74 83,419 3,608,576 163,269 920,728 6,057,493 2,293,565 3,918,077 214,088 112,522 1,827,760 4,775,517 155,301	2,962,08

Total Revenue Requirement \$ 242,807,448.04 Piercebrook Substation Joffre Substation S1041 1,204,162 - 6 April Year 3

TO estimates all transmission Cap Adds and CWIP during Year 3 based each project's cost using the average of 13 monthly balances. Cap Adds are expected be in service in Year 3.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(1)
							502 Junction - Territorial Line (monthly additions)		
		(in service)	(in service)	(in service)	(in service)	(in service)	CWIP		
Dec (Prior Year CWIP) p276.b.43 Jan 2019 Feb Mar Apr May Jun Jul Aug Sep Oct Nov									
Total	on Plant Additions for Year 3 (13 m	nonth average balance)	-	-	-	-	-	-	

			ı	Month End Balance	s			
					5	02 Junction - Territorial Line (monthly additions)		
				(in service)	(in service)	CWIP	CWIP	CWIP
Ī								
	-	-	-	-	-	-	-	-
	-	-	-			-	-	-
	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-		

							Meadow Brook SS		Meadowbrook				502 Junction - Territorial
					Doubs Transformer #2		Capacitor (Monthly	Bedington Transformer	Transformer (Monthly		Black Oak (Monthly	Wylie Ridge (Monthly	Line (Monthly
Total Revenue Requirement	Potter SS	Cabot SS Transformer	(Monthly additions)	(Monthly additions)	(Monthly additions)	(Monthly additions)	additions)	(Monthly additions)	additions)	(Monthly additions)	additions)	additions)	additions)

7 April Year 3

Reconcilation - TO calculates Reconcilation by populating the 13 monthly plant balances and beginning and end of year balances for the other rate base items and the 13 monthly averages for CWIP in Reconcilation (adjusted to include any Reconcilation amount from prior year).

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(1)
							502 Junction - Territorial Line (monthly additions)		
Dec (Prior Year CWIP) p216.b.43	Actual						1,735		
Jan 2019	Actual	-	-	-			1,733		
Feb San 2019	Actual	-							
Mar	Actual		-	-					
Apr	Actual		-	-					
May	Actual	_	_	_					
Jun	Actual	_	-	_					
Jul	Actual						-		
Aug	Actual	-	-	=	-				
Sep	Actual	-	-	=	-				
Oct	Actual	-	-	-	-				
Nov	Actual	-	-	-					
Dec	Actual		-	-			-		
Total				-			1,735		

			N.	Nonth End Balances				
Other Projects PIS (Monthly additions)					502	Junction - Territorial Line (monthly additions)		
		-	-	=	-	142,845	-	-
	-	=	=	-	=	-	-	-
	-	=	=	-	=	-	-	-
	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-
		-	-	-	-	-	-	-
	=	-	=	-	=	=	-	-
	=	-	=	-	=	=	-	-
	=	-	=	-	=	=	-	-
	=	-	=	-	=	=	-	-
	=	-	=	-	=	=	-	-
		-	-	-	-	-	-	-
		•	-	-	-		-	-
	-	-	-	-	-	142,845	-	-
						10.988		

		Result of Formula for Ri	econciliation														ATTACHIVIE	
																	Pag	e 32 of 49
							Meadow Brook SS		Meadowbrook				502 Junction - Territorial					
			Doubs Transformer #4	Doubs Transformer #3	Doubs Transformer #2	Kammer Transformers	Capacitor (Monthly	Bedington Transformer	Transformer (Monthly	North Shenandoah	Black Oak (Monthly	Wylie Ridge (Monthly	Line (Monthly					
Total Revenue Requirement	Potter SS	Cabot SS Transformer	(Monthly additions)	(Monthly additions)	(Monthly additions)	(Monthly additions)	additions)	(Monthly additions)	additions)	(Monthly additions)	additions)	additions)	additions)	Osage Whiteley	Armstrong	Farmers Valley	Harvey Run	Doubs SS
\$ 248,756,431.19	232,897.76	830,378.86	638,257.96	524,638.22	570,809.28	4,312,573	708,599	829,757	873,130	215,062	5,257,758	2,536,533	126,783,830	2,906,503	1,873,454	236,160	99,180	599,355
•																		
			Handsome Lake-Homer City			Grand Point & Guilford SS	Altoona		Conemaugh Transformer			Hunterstown	Johnstown	Moshannon	Waldo Run	Four Mile Junction		Bartonville SS Capacitor
	7,371,448	52,704	1,539,877	77,611	144,404	213,223	4,346,602	398,718	3,386,693	1,629,181	68,385	5,268,845	592,521	914,892	7,195,250	1,162,932	107,648	85,567
	Yeagertown	Rider	Monocacy SS	Shuman Hill Sub	Mainsburg SS	Johnstwon Sub Capcitor	Grover SS	Claysburg Ring Bus	Squab Hollow SS	Squab Hollow SVC	Shingletown Capacitor	Nyswaner	Shawville	Oak Mound	Joffre SS	Erie South	Farmers Valley Substation	Richwood Hill
	137,611	2,276,047	4,689,309	182,840	3,693,849	167,444	104,032	944,170	2,344,533	3,995,810	218,932	115,414	277,105	13,775,615	6,195,550	6,047,989	4,883,078	9,538,120
	Damascus SS	Warren Substation	Joffre Substation S1041															
	196,320	3,038,975	-	1,348,312														

8 April Year 3 Reconcilation - TO adds the difference between the Reconcilation in Step 7 and the forecast in Step 5 with interest to the result of Step 7 (this difference is also added to Step 7 in the subsequent year)

> The Reconciliation in Step 8 248,756,431 The forecast in Prior Year 242,807,448

5,948,983 <Note: for the first rate year, divide this reconciliation amount by 12 and multiply by the number of months and fractional months the rate was in effect.

				n	nonths the rate was	in effect.
	Refunds or Surcharges					
Interest 35.19a for Ma	rch Current Yr	0.4200%				
Month	Yr	1/12 of Step 9	Interest 35.19a for		Interest	Surcharge (Refund) Owed
			March Current Yr	Months		
Jun	Year 1	495,749	0.4200%	11.5	23,945	519,693
Jul	Year 1	495,749	0.4200%	10.5	21,863	517,611
Aug	Year 1	495,749	0.4200%	9.5	19,780	515,529
Sep	Year 1	495,749	0.4200%	8.5	17,698	513,447
Oct	Year 1	495,749	0.4200%	7.5	15,616	511,365
Nov	Year 1	495,749	0.4200%	6.5	13,534	509,283
Dec	Year 1	495,749	0.4200%	5.5	11,452	507,200
Jan	Year 2	495,749	0.4200%	4.5	9,370	505,118
Feb	Year 2	495,749	0.4200%	3.5	7,288	503,036
Mar	Year 2	495,749	0.4200%	2.5	5,205	500,954
Apr	Year 2	495,749	0.4200%	1.5	3,123	498,872
May	Year 2	495,749	0.4200%	0.5	1,041	496,790
Total		5,948,983				6,098,898
		Balance	Interest	Amort	Balance	
Jun	Year 2	6,098,898	0.4200%	522,223	5,602,290	
Jul	Year 2	5,602,290	0.4200%	522,223	5,103,596	
Aug	Year 2	5,103,596	0.4200%	522,223	4,602,808	
Sep	Year 2	4,602,808	0.4200%	522,223	4,099,917	
Oct	Year 2	4,099,917	0.4200%	522,223	3,594,914	
Nov	Year 2	3,594,914	0.4200%	522,223	3,087,789	
Dec	Year 2	3,087,789	0.4200%	522,223	2,578,535	
Jan	Year 3	2,578,535	0.4200%	522,223	2,067,142	
Feb	Year 3	2,067,142	0.4200%	522,223	1,553,601	
Mar	Year 3	1,553,601	0.4200%	522,223	1,037,903	
Apr	Year 3	1,037,903	0.4200%	522,223	520,039	
May	Year 3	520,039	0.4200%	522,223		
Total with interest				6,266,677		

The difference between the Reconciliation in Step 8 and the forecast in Prior Year with interest Rev Req based on Year 2 data with estimated Cap Adds for Year 3 (Step 8) Revenue Requirement for Year 3 6,266,677 Input to Appendix A, Line 143 6.266.677

	Reconciliation Amount by Project																	
Total Revenue Requirement	Potter SS	Cabot SS Transformer	Doubs Transformer #4 (Monthly additions)	Doubs Transformer #3 (Monthly additions)	Doubs Transformer #2 (Monthly additions)	Kammer Transformers (Monthly additions)	Meadow Brook SS Capacitor (Monthly additions)	Bedington Transformer (Monthly additions)	Meadowbrook Transformer (Monthly additions)	North Shenandoah (Monthly additions)	Black Oak (Monthly additions)	Wylie Ridge (Monthly additions)	502 Junction - Territorial Line (Monthly additions)	Osage Whiteley	Armstrong	Farmers Valley	Harvey Run	Doubs SS
\$ 6,266,677	6,673	26,520	12,873	14,947	15,346	104,569	16,050	19,841	18,347	5,305	90,505	49,535	2,946,362	71,088	48,134	8,269	2,561	15,020
		Buffalo Road Capacitor	Handsome Lake-Homer City		Luxor Capacitor	Grand Point & Guilford SS	Altoona		Conemaugh Transformer		Cabron Center	Hunterstown	Johnstown	Moshannon	Waldo Run	Four Mile Junction	West Union SS	Bartonville SS Capacitor
	182,759	1,368	39,245	1,990	3,738	5,535	112,675	10,332	96,749	84,202	1,775	136,065	15,360	32,002	280,035	31,436	2,804	2,263
ĺ		ı							1									

Yeagertown	Rider	Monocacy SS	Shuman Hill Sub	Mainsburg SS	Johnstown Sub Capcitor	Grover SS	Claysburg Ring Bus	Squab Hollow SS		Shingletown Capacitor	Nyswaner	Shawville	Oak Mound	Joffre SS	Erie South	Farmers Valley Substation	Richwood Hill
1,551	131,087	122,747	3,508	89,827	4,399	3,382	24,693	53,690	81,885	5,103	3,047	7,335	331,074	145,429	125,654	113,305	230,629
Damascus SS	Warren Substation	Joffre SS	Piercebrook SS														
43,210	80,996		151,848														

Post results of Step 8 on PJM web site \$ 6,266,677

Results of Step 8 go into effect \$ 6,266,677 10 June Year 3

Attachment 7 - Transmission Enhancement Charge Worksheet

Revenue Requirement By Project

rixed charge rate (FCR) if not a CIAC Formula Line		
Δ	137	FCR without Depreciation and Pre-Commercial Costs	11.0451%
B	145	FCR with Incentive ROE without Depreciation and Pre-Commercial	11.7155%
С		Line B less Line A	0.6703%
FCR if a CIAC			
D	138	FCR without Depreciation. Return. nor Income Taxes	1.9098%

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

				PJM Upgrade ID: b0328.1 b0328.2; b0347.1; b0347.2; b0347.3; b0347.4				347.4		PJM Upgra	de ID: b0218			PJM Upgrade I	D: b0216	
10		Details			502 Junction - Ter	rritorial Line (CWIP 4	Plant In Service)		v	Vylie Ridge Transfo	ormer (Plant In Service)		Black Oak	(SVC) Dynamic Reactiv	re Device (Plant In Ser	rice)
11		Schedule 12	(Yes or No)	Yes					Yes				Yes			
12		CIAC	(Yes or No)	No					No				No			
13	Input the allowed ROE From line 3 above if "No" on line 12 and From line 7 above if	Allowed ROE		12.70%					11.70%				12.70%			
	"Yes" on line 12	FCR without Incentive ROI		11.0451%					11.0451%				11.0451%			
15	If line 13 equals 12.7%, then line 4, if line 13 equals 11.7% then line 3, and if line 12 is "Yes" then line 7	FCR for This Project		11.7155%					11.0451%				11.7155%			
16	Forecast – End of prior year net plant plus current year forecast of CWIP or Cap Adds.															
	reconciliation – Average of 13 month prior year net plant balances plus prior year 13-mo CWIP balances.	Investment		900.887.991					17.731.603				32.837.322			
17	Annual Depreciation Exp from Attachment 5			21,240,606					578,056				1,410,713			
						Pre-Commercial	Reconciliation				Reconciliation				Reconciliation	
18			Invest Yr	Return	Depreciation	Exp.	Amount	Revenue	Return	Depreciation	Amount	Revenue	Return	Depreciation	Amount	Revenue
19		Wo Incentive ROE	2011	99,504,187.72	21,240,605.57	0.00	0.00	120,744,793.29	1,958,477.40	578,055.88	0.00	2,536,533.28	3,626,922.66	1,410,713.00	0.00	5,037,635.66
20	See Calculations for each item below	W Incentive ROE	2011	105,543,224.57	21,240,605.57	0.00	0.00	126,783,830.14	1,958,477.40	578,055.88	0.00	2,536,533.28	3,847,045.25	1,410,713.00	0.00	5,257,758.25

For Plant in Service

"Pre-Commercial Exp" is equal to the amount of pre-commercial expense on Attachment 5a for each project expensed in year and amortized in year.

Revenue is equal to the "Return" ("Investment "Innes FCR) plus "Depreciation" plus "Pre-Commercial Exp" plus prox year "Reconciliation amount"

"Reconciliation Amount" is created in the reconciliation in Attachment 6 and included in the forecasted revenue requirement.

9																	
			PJM Upgrad	e ID: b0323			PJM Upgrad	de ID: b0230			PJM Upgrad	de ID: b0229			PJM Upgrade	le ID: b0559	
10			North Shenandoah Trans	former (Plant In Service)			Meadowbrook Transfe	ormer (Plant In Service)			Bedington Transfor	mer (Plant In Service)			Meadowbrook Capaci	itor (Plant In Service)	
11	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Yes				Yes				Yes				Yes			
12	"Yes" if the customer has paid a lump sum payment in the amount of the investment on line 29. Otherwise "No"	No				No				No				No			
13	Input the allowed ROE	11.70%				11.70%				11.70%				11.70%			
14	From line 3 above if "No" on line 12 and From line 7 above if "Yes" on line 12	11.0451%				11.0451%				11.0451%				11.0451%			
15 16	If line 13 equals 12.7%, then line 4, if line 13 equals 11.7% then line 3, and if line 12 is "Yes" then line 7 Forecast – End of prior year net plant plus current year forecast of CWIP or Cap Adds.	11.0451%				11.0451%				11.0451%				11.0451%			
	reconciliation – Average of 13 month prior year net plant balances plus prior year 13-mo CWIP balances.	1,581,329				6,392,033				6,043,959				5,103,677			
17	Annual Depreciation Exp from Attachment 5	40,402				167,122				162,194				144,892			
				Reconciliation				Reconciliation				Reconciliation				Reconciliation	
18		Return	Depreciation	Amount	Revenue	Return	Depreciation	Amount	Revenue	Return	Depreciation	Amount	Revenue	Return	Depreciation	Amount	Revenue
19	See Calculations for each item below	174,659.69	40,401.96	0.00	215,061.65	706,007.96	167,121.61	0.00	873,129.57	667,562.72	162,194.28	0.00	829,757.00	563,707.41	144,891.64	0.00	708,599.05
20	See Calculations for each item below	174,659.69	40,401.96	0.00	215,061.65	706,007.96	167,121.61	0.00	873,129.57	667,562.72	162,194.28	0.00	829,757.00	563,707.41	144,891.64	0.00	708,599.05

For Plant in Service
"Pre-Commercial Exp" is equal to the amount of pre-commerc
Revenue is equal to the "Return" ("Investment" times FCR) p
"Reconciliation Amount" is created in the reconciliation in Atta

9																	
			PJM Upgrad	le ID: b0495			PJM Upgrad	le ID: b0343			PJM Upgrad	le ID: b0344			PJM Upgrade	e ID: b0345	
10			Kammer Transform	ers (Plant In Service)			Doubs Replace	Transformer #2			Doubs Replace	Transformer #3			Doubs Replace	Transformer #4	
11	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Yes				Yes				Yes				Yes			
12	"Yes" if the customer has paid a lump sum payment in the	105				103				105				103			ļ
	amount of the investment on line 29, Otherwise "No"	No				No				No				No			
13 14	Input the allowed ROE From line 3 above if "No" on line 12 and From line 7 above if	11.70%				11.70%				11.70%				11.70%			ļ
14	"Yes" on line 12	11.0451%				11.0451%				11.0451%				11.0451%			
15	If line 13 equals 12.7%, then line 4, if line 13 equals 11.7%																
	then line 3, and if line 12 is "Yes" then line 7	11.0451%				11.0451%				11.0451%				11.0451%			
16	Forecast – End of prior year net plant plus current year forecast of CWIP or Cap Adds.																
	reconciliation - Average of 13 month prior year net plant																
	balances plus prior year 13-mo CWIP balances.	31,517,523				4,308,470				3,998,655				4,423,854			
17	Annual Depreciation Exp from Attachment 5	831,424				94,934				82,982				149,638			
				Reconciliation				Reconciliation				Reconciliation				Reconciliation	
18		Return	Depreciation	Amount	Revenue	Return	Depreciation	Amount	Revenue	Return	Depreciation	Amount	Revenue	Return	Depreciation	Amount	Revenue
19	See Calculations for each item below	3,481,149.26	831,423.82	0.00	4,312,573.08	475,875.78	94,933.50	0.00	570,809.28	441,656.38	82,981.84	0.00	524,638.22	488,620.11	149,637.85	0.00	638,257.96
20	See Calculations for each item below	3,481,149.26	831,423.82	0.00	4,312,573.08	475,875.78	94,933.50	0.00	570,809.28	441,656.38	82,981.84	0.00	524,638.22	488,620.11	149,637.85	0.00	638,257.96

For Plant in Service
"Pre-Commercial Exp" is equal to the amount of pre-commerc
Revenue is equal to the "Return" ("Investment" times FCR) p
"Reconciliation Amount" is created in the reconciliation in Atta

9																	
			PJM Upgrad	e ID: b0704			PJM Upgrac	e ID: b1941			PJM Upgrad	e ID: b0563			PJM Upgrad	le ID: b0564	
10		l	Cabot SS - Install	Autotransformer			Arms	trong			Farmers Vall	ey Capacitor			Harvey Rui	n Capacitor	
11	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Yes				Yes				Yes				Yes			
12	"Yes" if the customer has paid a lump sum payment in the amount of the investment on line 29. Otherwise "No"	No				No				No				No			
13 14	Input the allowed ROE From line 3 above if "No" on line 12 and From line 7 above if	11.70%				11.70%				11.70%				11.70%			
	"Yes" on line 12	11.0451%				11.0451%				11.0451%				11.0451%			
15 16	If line 13 equals 12.7%, then line 4, if line 13 equals 11.7% then line 3, and if line 12 is "Yes" then line 7 Forecast – End of prior year net plant plus current year forecast of CWIP or Cap Adds.	11.0451%				11.0451%				11.0451%				11.0451%			
	reconciliation – Average of 13 month prior year net plant balances plus prior year 13-mo CWIP balances.	6,146,468				13,951,096				1,959,867				739,724			
17	Annual Depreciation Exp from Attachment 5	151,494				332,538				19,691				17,476			
				Reconciliation				Reconciliation				Reconciliation				Reconciliation	
18		Return	Depreciation	Amount	Revenue	Return	Depreciation	Amount	Revenue	Return	Depreciation	Amount	Revenue	Return	Depreciation	Amount	Revenue
19	See Calculations for each item below	678,884.94	151,493.92	0.00	830,378.86	1,540,915.68	332,538.12	0.00	1,873,453.80	216,469.76	19,690.68	0.00	236,160.44	81,703.46	17,476.20	0.00	99,179.66
20	See Calculations for each item below	678,884.94	151,493,92	0.00	830.378.86	1,540,915.68	332.538.12	0.00	1.873.453.80	216,469,76	19.690.68	0.00	236,160,44	81.703.46	17.476.20	0.00	99.179.66

For Plant in Service
"Pre-Commercial Exp" is equal to the amount of pre-commerc
Revenue is equal to the "Return" ("Investment" times FCR) p
"Reconciliation Amount" is created in the reconciliation in Atta

10		
11	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Y
12	"Yes" if the customer has paid a lump sum payment in the amount of the investment on line 29, Otherwise "No"	N
13	Input the allowed ROE	
14	From line 3 above if "No" on line 12 and From line 7 above if "Yes" on line 12	11
15	If line 13 equals 12.7%, then line 4, if line 13 equals 11.7% then line 3, and if line 12 is "Yes" then line 7	11
16	Forecast – End of prior year net plant plus current year forecast of CWIP or Cap Adds.	
	reconciliation – Average of 13 month prior year net plant balances plus prior year 13-mo CWIP balances.	4,
17	Annual Depreciation Exp from Attachment 5	
18		Ret
19	See Calculations for each item below	495
20	See Calculations for each item below	495

Ĺ		PJM Upgrad	e ID: b1803				PJM Upgrade ID: b12	43			PJM Up	grade ID: b0674, b1	023, b1023.3				PJM Upgrad	ie ID: b1804	
		Doub	s SS				Potter SS					Osage Whiteley					Meadow	brook SS	
se	Yes				Yes					Yes						Yes			
e																			
	No 11.70%				No 11.70%					No 11,70%						No 11.70%			
ve if																			
%	11.0451%				11.0451%					11.0451%						11.0451%			
%	11.0451%				11.0451%					11.0451%						11.0451%			
										l									
										l									
	4,484,111				1,797,304					21,129,531						55,211,714			
	104,080				34,383					572,721						1,273,246			
ŀ			Reconciliation					Reconciliation					Reconcilia	u				Reconciliation	
	Return	Depreciation	Amount	Revenue	Return	Depreciation	Pre-Commercial Exp.	Amount	Revenue	Return	Depreciation	Pre-Commercial Exp.			Revenue	Return	Depreciation	Amount	Revenue
	495,275.56	104,079.60	0.00	599,355.16	198,514	34,383	0		0 232,897.76	2,333,783	572,721		0	. 0	2,906,503.48		1,273,246.05	0.00	7,371,447.84
	495,275.56	104,079.60	0.00	599,355.16	198,514	34,383	0		0 232,897.76		572,721		0	0	2,906,503.48		1,273,246.05	0.00	7,371,447.84

For Plant in Service
"Pre-Commercial Exp' is equal to the amount of pre-commerc
Revenue is equal to the "Return" ("Investment" times FCR) p
"Reconciliation Amount" is created in the reconciliation in Atta

10	
11	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"
12	"Yes" if the customer has paid a lump sum payment in the amount of the investment on line 29. Otherwise "No"
13	Input the allowed ROE
14	From line 3 above if "No" on line 12 and From line 7 above if
14	"Yes" on line 12
15	If line 13 equals 12.7%, then line 4, if line 13 equals 11.7%
16	then line 3, and if line 12 is "Yes" then line 7 Forecast – End of prior year net plant plus current year forecast of CWIP or Cap Adds.
	reconciliation – Average of 13 month prior year net plant balances plus prior year 13-mo CWIP balances.
17	Annual Depreciation Exp from Attachment 5
18	
19	See Calculations for each item below
20	See Calculations for each item below

[PJM Upgrade ID: b1990				PJM Upgrade ID: b0674 & b1023.1					PJM Upgrade	e ID: b1153			PJM Upgrade	ID: b1965	
		Grandview	Capacitor			502 Jct Sub	ostation			Conemaug	h-Seward			Lux	or	
vise	Yes				Yes				Yes				Yes			
he	No				No											
	11.70%				No 11.70%				No 11.70%				No 11.70%			
ove if	11.0451%				11.0451%				11.0451%				11.0451%			
7%																
	11.0451%				11.0451%				11.0451%				11.0451%			
it	577.605				13.622.743				24.767.571				1.077.930			
	13,814				124,532				651,084				25,345			
L																
			Reconciliation				Reconciliation				Reconciliation				Reconciliation	
	Return 63.797.24	Depreciation 13.813.68	Amount 0.00	Revenue 77,610.92	Return 1,504,648.69	Depreciation 124.532.16	Amount 0.00	Revenue 1,629,180.85	Return 2,735,608.75	Depreciation 651.083.90	Amount 0.00	Revenue 3,386,692.65	Return 119.058.67	Depreciation 25.345.20	Amount 0.00	Revenue 144,403.87
	63,797.24	13,813.68	0.00	77,610.92	1,504,648.69	124,532.16	0.00	1,629,180.85	2,735,608.75	651,083.90	0.00	3,386,692.65	119,058.67	25,345.20	0.00	144,403.87

For Plant in Service
"Pre-Commercial Exp" is equal to the amount of pre-commerc
Revenue is equal to the "Return" ("Investment" times FCR) p
"Reconciliation Amount" is created in the reconciliation in Atta

			PJM Upgrad	e ID: b1839		
10			Grandpoint	& Guilford		
11	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Yes				Yes
12	"Yes" if the customer has paid a lump sum payment in the amount of the investment on line 29, Otherwise "No"	No				No
13	Input the allowed ROE	11.70%				11.70%
14	From line 3 above if "No" on line 12 and From line 7 above if					
	"Yes" on line 12	11.0451%				11.0451%
15	If line 13 equals 12.7%, then line 4, if line 13 equals 11.7%					
16	then line 3, and if line 12 is "Yes" then line 7 Forecast – End of prior year net plant plus current year forecast of CWIP or Cap Adds.	11.0451%				11.0451%
	reconciliation – Average of 13 month prior year net plant balances plus prior year 13-mo CWIP balances.	1,593,038				11,437,598
17	Annual Depreciation Exp from Attachment 5	37,270				276,580
				Reconciliation		
18		Return	Depreciation	Amount	Revenue	Return
19	See Calculations for each item below	175,952.96	37,270.44	0.00	213,223.40	1,263,296.82
20	See Calculations for each item below	175 952 96	37 270 44	0.00	213 223 40	1 263 296 82

	PJM Upgrade ID: b1839				PJM Upgrade ID: b1941					PJM Upgrade	ID: b1801			PJM Upgrad	e ID: b1967	
		Grandpoint	& Guilford			Handsome Lake	-Homer City			Altoo	na			Blairs	sville	
ise	Yes				Yes				Yes				Yes			
ne	No				No				No				No			
ve if	11.70%				11.70%				11.70%				11.70%			
	11.0451%				11.0451%				11.0451%				11.0451%			
796	11.0451%				11.0451%				11.0451%				11.0451%			
	1,593,038 37,270				11,437,598 276,580				32,459,371 761,425				2,977,214 69,881			
İ		Danier alakları	Reconciliation	_		December	Reconciliation			Dlatin-	Reconciliation	_		Daniel allen	Reconciliation	_
	Return 175,952.96	Depreciation 37,270.44	Amount 0.00	213,223.40	Return 1,263,296.82	Depreciation 276,580.06	Amount 0.00	Revenue 1,539,876.88	Return 3,585,177.49	Depreciation 761,424.96	Amount 0.00	Revenue 4,346,602.45	Return 328,837.00	Depreciation 69,881.04	Amount 0.00	Revenue 398,718.04
	175,952.96	37,270.44	0.00	213,223.40	1,263,296.82	276,580.06	0.00	1,539,876.88	3,585,177.49	761,424.96	0.00	4,346,602.45	328,837.00	69,881.04	0.00	398,718.04

For Plant in Service
"Pre-Commercial Exp" is equal to the amount of pre-commerc
Revenue is equal to the "Return" ("Investment" times FCR) p
"Reconciliation Amount" is created in the reconciliation in Atta

			PJI
10			
11	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Yes	
12	"Yes" if the customer has paid a lump sum payment in the amount of the investment on line 29, Otherwise "No"	No	
13	Input the allowed ROE	11.70%	
14	From line 3 above if "No" on line 12 and From line 7 above if "Yes" on line 12	11.0451%	
15 16	If line 13 equals 12.7%, then line 4, if line 13 equals 11.7% then line 3, and if line 12 is "Yes" then line 7 Forecast – End of prior year net plant plus current year forecast of CWIP or Cap Adds.	11.0451%	
	reconciliation – Average of 13 month prior year net plant balances plus prior year 13-mo CWIP balances.	510,878	
17	Annual Depreciation Exp from Attachment 5	11,958	
18		Return	Depre
19	See Calculations for each item below	56.427.07	
20	See Calculations for each item below	56 427 07	

[PJM Upgrade	ID: b1672			PJM Upgrade	ID: b1800			PJM Upgrade	ID: b1945			PJM Upgrade	ID: b1770			PJM Upgrade	∍ ID: b1964	
		Carbon (Center			Hunters	town			Johnst	own			Buffalo	Road			Mosha	nnon	
se	Yes				Yes				Yes				Yes				Yes			
e																				
l	No 11.70%				No 11.70%				No 11.70%				No 11.70%				No 11.70%			
ve if	11.0451%				11.0451%				11.0451%				11.0451%				11.0451%			
%																				
	11.0451%				11.0451%				11.0451%				11.0451%				11.0451%			
	510,878				39,339,102				4,424,797				393,738				6,853,900			
	11,958				923,792				103,796				9,216				157,870			
ŀ																				
	Return	Depreciation	Reconciliation Amount	Revenue	Return	Depreciation	Reconciliation Amount	Revenue	Return	Depreciation	Reconciliation Amount	Revenue	Return	Depreciation	Reconciliation Amount	Revenue	Return	Depreciation	Reconciliation Amount	Revenue
	56,427.07	11,957.52	0.00	68,384.59	4,345,052.27	923,792.47	0.00	5,268,844.74	488,724.25	103,796.40	0.00	592,520.65	43,488.79	9,215.64	0.00	52,704.43	757,021.70	157,870.10	0.00	914,891.80
	56,427.07	11,957.52	0.00	68,384.59	4,345,052.27	923,792.47	0.00	5,268,844.74	488,724.25	103,796.40	0.00	592,520.65	43,488.79	9,215.64	0.00	52,704.43	757,021.70	157,870.10	0.00	914,891.80

For Plant in Service "Pre-Commercial Exp" is equal to the amount of pre-commerc Revenue is equal to the "Return" ("Investment" times FCR) p "Reconciliation Amount" is created in the reconciliation in Atta

9																									
		PJM I	Upgrade ID: b2433	3.1, b2433.2, b243	3.3		PJM Upgrade ID: b	1609, b1769			PJM Upgrade	ID: b2343			PJM Upgrade	ID: b2342			PJM Upgrade	ID: b1610			PJM Upgrade	D: b1840	
10			Waldo	Run			Four Mile Ju	nction			West Uni	ion SS			Shuman Hil	I/Mobley			Yeagert	own			Rider S	ub	
11	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Yes				Yes				Yes				Yes				Yes				Yes			
	"Yes" if the customer has paid a lump sum payment in the amount of the investment on line 29, Otherwise "No"	No				No				No				No				No				No			
	Input the allowed ROE From line 3 above if "No" on line 12 and From line 7 above if	11.70%				11.70%				11.70%				11.70%				11.70%				11.70%			
15	"Yes" on line 12 If line 13 equals 12.7%, then line 4, if line 13 equals 11.7%	11.0451%				11.0451%				11.0451%				11.0451%				11.0451%				11.0451%			
16	then line 3, and if line 12 is "Yes" then line 7 Forecast – End of prior year net plant plus current year forecast of CWIP or Cap Adds.	11.0451%				11.0451%				11.0451%				11.0451%				11.0451%				11.0451%			
	reconciliation – Average of 13 month prior year net plant balances plus prior year 13-mo CWIP balances.	51.446.283				8.802.222				805.166				1.370.404				1.048.408				16.035.557			
17	Annual Depreciation Exp from Attachment 5	1,512,945				190,716				18,717				31,477				21,813				504,900			
				Reconciliation			R	teconciliation				Reconciliation				Reconciliation				Reconciliation				Reconciliation	
18 19	See Calculations for each item below	Return 5,682,305.32	Depreciation 1,512,944.53	Amount 0.00	Revenue 7,195,249.85	Return 972,216.29	Depreciation 190,715.52	Amount 0.00	Revenue 1,162,931.81	Return 88,931.55	Depreciation 18,716.88	Amount 0.00	Revenue 107,648.43	Return 151,362.86	Depreciation 31,476.72	Amount 0.00	Revenue 182,839.58	Return 115,797.94	Depreciation 21,813.05	Amount 0.00	Revenue 137,610.99	Return 1,771,146.99	Depreciation 504,900.12	Amount 0.00	Revenue 2,276,047.11
20	See Calculations for each item below	5,682,305.32	1,512,944.53	0.00	7,195,249.85	972,216.29	190,715.52	0.00	1,162,931.81	88,931.55	18,716.88	0.00	107,648.43	151,362.86	31,476.72	0.00	182,839.58	115,797.94	21,813.05	0.00	137,610.99	1,771,146.99	504,900.12	0.00	2,276,047.11

For Plant in Service
"Pre-Commercial Exp" is equal to the amount of pre-commerc
Revenue is equal to the "Return" ("Investment" times FCR]: p
"Reconcilitation Amount" is created in the reconcilitation in Atta

9																									
			PJM Upgrade	ID: b2235			PJM Upgrade	ID: b2260			PJM Upgrad	e ID: b1802			PJM Upgrad	e ID: b0555			PJM Upgrad	e ID: b0556			PJM Upgrade	D: b1943	
10			Monoca	y SS			Bartonville S	S Capacitor			Mainsb	urg SS			Johnstown S	ub Capacitor			Grove	er SS			Claysburg F	ing Bus	
11	"Yes" if a project under PJM OATT Schedule 12, otherwise	м								M				W				v							
12	"No" "Yes" if the customer has paid a lump sum payment in the	Yes				Yes				Yes				Yes				Yes				Yes			
	amount of the investment on line 29. Otherwise "No"	No				No				No				No				No				No			
	Input the allowed ROE	11.70%				11.70%				11.70%				11.70%				11.70%				11.70%			
14	From line 3 above if "No" on line 12 and From line 7 above if									** ****								11.0451%							
15	"Yes" on line 12 If line 13 equals 12.7%, then line 4, if line 13 equals 11.7%	11.0451%				11.0451%				11.0451%				11.0451%				11.0451%				11.0451%			
	then line 3, and if line 12 is "Yes" then line 7	11.0451%				11.0451%				11.0451%				11.0451%				11.0451%				11.0451%			
16	Forecast – End of prior year net plant plus current year forecast of CWIP or Cap Adds.																								
	reconciliation – Average of 13 month prior year net plant																								
	balances plus prior year 13-mo CWIP balances.	35.196.469				643.079				28.522.504				1.255.738				839.514				7.070.776			
17	Annual Depreciation Exp from Attachment 5	801.815				14.538				543.503				28.746				11.307				163.194			
				Reconciliation				Reconciliation				Reconciliation				Reconciliation				Reconciliation				Reconciliation	
18		Return	Depreciation	Amount	Revenue	Return	Depreciation	Amount	Revenue	Return	Depreciation	Amount	Revenue	Return	Depreciation	Amount	Revenue	Return	Depreciation	Amount	Revenue	Return	Depreciation	Amount	Revenue
19	See Calculations for each item below	3,887,493.30	801,815.40	0.00	4,689,308.70	71,028.91	14,537.76	0.00	85,566.67	3,150,345.66	543,503.05	0.00	3,693,848.71	138,697.78	28,746.48	0.00		92,725.36	11,306.52	0.00	104,031.88	780,975.92	163,194.12	0.00	944,170.04
20	See Calculations for each item below	3,887,493.30	801,815.40	0.00	4,689,308.70	71,028.91	14,537.76	0.00	85,566.67	3,150,345.66	543,503.05	0.00	3,693,848.71	138,697.78	28,746.48	0.00	167,444.26	92,725.36	11,306.52	0.00	104,031.88	780,975.92	163,194.12	0.00	944,170.04

For Plant in Service
"Pre-Commercial Exp" is equal to the amount of pre-commerc
Revenue is equal to the "Return" ("Investment" times FCR) p
"Reconciliation Amount" is created in the reconciliation in Atta

9																					
		F	PJM Upgrade ID: b	2364 & b2364.1			PJM Upgrade i	D: b2362			PJM Upgrade	D: b2156			PJM Upgrade	ID: b2546			PJM Upgrade	ID: b1998	
10			Squab Holl	ow SS			Squab Hollo	w SVC			Shingletown	Capacitor			Nyswa	ner			Shawy	ville	
11	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Yes				Yes				Yes				Yes	.,,			Yes			
12	"Yes" if the customer has paid a lump sum payment in the amount of the investment on line 29, Otherwise "No"	No				No				No				No				No			
13 14	Input the allowed ROE From line 3 above if "No" on line 12 and From line 7 above if	11.70%				11.70%				11.70%				11.70%				11.70%			
15	"Yes" on line 12 If line 13 equals 12.7%, then line 4, if line 13 equals 11.7%	11.0451%				11.0451%				11.0451%				11.0451%				11.0451%			
16	then line 3, and if line 12 is "Yes" then line 7 Forecast – End of prior year net plant plus current year forecast of CWIP or Cap Adds.	11.0451%				11.0451%				11.0451%				11.0451%				11.0451%			
	reconciliation – Average of 13 month prior year net plant balances plus prior year 13-mo CWIP balances.	16,860,505				27,828,461				1,582,618				866,851				2,083,217			
17	Annual Depreciation Exp from Attachment 5	482,270				922,123				44,130				19,669				47,011			
				Reconciliation				Reconciliation				Reconciliation				Reconciliation				Reconciliation	
18 19	See Calculations for each item below	Return 1.862.263.57	Depreciation 482,269,92	Amount 0.00	Revenue 2.344.533.49	Return 3.073.687.72	Depreciation 922.122.60	Amount 0.00	Revenue 3.995.810.32	Return 174.802.14	Depreciation 44,129,76	Amount 0.00	Revenue 218.931.90	Return 95.744.72	Depreciation 19.669.44	Amount 0.00	Revenue 115.414.16	Return 230.093.93	Depreciation 47.011.44	Amount 0.00	Revenue 277,105.37
20	See Calculations for each item below	1,862,263.57	482,269.92	0.00	2,344,533.49	3,073,687.72	922,122.60	0.00	3,995,810.32	174,802.14	44,129.76	0.00	218,931.90	95,744.72	19,669.44	0.00	115,414.16	230,093.93	47,011.44	0.00	277,105.37

For Plant in Service
"Pre-Commercial Exp" is equal to the amount of pre-commerc
Revenue is equal to the "Return" ("Investment" times FCR) p
"Reconciliation Amount" is created in the reconciliation in Atta

10

"Yes" if a project under PJM OATT Schedule 12, otherwise
No"

12

"Yes" if the customer has poid a lump sum payment in the
amount of the investment on line 29. Otherwise No"

13 input the allowed ROE

14 From line 3 above if "No" on line 12 and From line 7 above
"Yes" on line 12

15 if line 13 above if "No" on line 14, if line 13 equals 11.7%
benefits between the line 12 as "Yes" then line 7, above
print line 3. and if line 12 as "Yes" then line 7, above
print line 3. and if line 12 as "Yes" then line 7, and the line of the line 12 as "Yes" on line 12

16 if line 13 appears to 12 as "Yes" then line 7, and the line of the line 12 as "Yes" then line 7, and the line 12 as "Yes" then line 7, and the line 12 as "Yes" then line 7, and the line 12 as "Yes" then line 7, and the line 12 as "Yes" the line 7, and the line 12 as "Yes" the line 7, and the line 12 as "Yes" the line 7, and the line 12 as "Yes" the line 7, and the line 12 as "Yes" the line 7, and the line 12 as "Yes" the line 7, and the line 12 as "Yes" the line 7, and the line 12 as "Yes" the line 7, and the line 12 as "Yes" the line 7, and the line 12 as "Yes" the line 7, and the line 12 as "Yes" the line 7, and the line 12 as "Yes" the line 7, and the line 12 as "Yes" the line 7, and the line 12 as "Yes" the line 7, and the line 12 as "Yes" the line 7, and the line 12 as "Yes" the line 7, and the line 12 as "Yes" the line 7, and the line 12 as "Yes" the line 7, and the line 12 as "Yes" the line 13 18 19 See Calculations for each item below 20 See Calculations for each item below

		PJM Upgrade II): b2475			PJM Upgrade ID	: b2547.1			PJM Upgrade	ID: b2441			PJM Upgrade I	D: b1991			PJM Upgrad	e ID: b2545			PJM Upgrade	ID: b2261	
		Oak Mour	nd			Joffre S	s			Erie So	uth			Farmers Valley	Substation			Richwo	od Hill			Damaso	us SS	
herwise	Yes				Yes				Yes				Yes				Yes				Yes			
t in the																								
,-	No 11.70%				No 11.70%				No 11.70%				No 11.70%				No 11.70%				No 11.70%			
above if																								
11.7%	11.0451%				11.0451%				11.0451%				11.0451%				11.0451%				11.0451%			
ear	11.0451%				11.0451%				11.0451%				11.0451%				11.0451%				11.0451%			
plant	105.737.247				44.783.631				42.295.641				36.707.576				69.565.424				1,472,918			
	2,096,806				1,249,142				1,376,384				828,681				1,854,533				33,634			
F																								
			Reconciliatio	_			Reconciliatio	_			Reconciliatio	_			Reconciliatio	_			Reconciliatio	_			Reconciliation	_
	Return 11.678.809.05	Depreciation 2.096.806.20	n Amount 0.00	Revenue 13,775,615.25	Return 4.946.407.18	Depreciation 1,249,142.40	n Amount 0.00	Revenue 6,195,549.58	Return 4.671.605.59	Depreciation 1,376,383.55	n Amount 0.00	Revenue 6,047,989.14	Return 4.054.397.00	Depreciation 828,680.56	n Amount 0.00	Revenue 4.883.077.56	Return 7.683.586.68	Depreciation 1,854,532.87	n Amount 0.00	Revenue 9,538,119.55	Return 162.685.59	Depreciation 33.634.05	Amount 0.00	Revenue 196,319.64
L	11,678,809.05	2,096,806.20	0.00	13,775,615.25	4,946,407.18	1,249,142.40	0.00	6,195,549.58	4,671,605.59	1,376,383.55	0.00	6,047,989.14	4,054,397.00	828,680.56		4,883,077.56	7,683,586.68	1,854,532.87	0.00	9,538,119.55	162,685.59	33,634.05	0.00	196,319.64

For Plant in Service
"Pre-Commercial Exp" is equal to the amount of pre-commerc
Revenue is equal to the "Return" ("Investment" times FCR): p
"Reconciliation Amount" is created in the reconciliation in Atta

10	
11	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"
12	"Yes" if the customer has paid a lump sum payment in the amount of the investment on line 29, Otherwise "No"
13	Input the allowed ROE
14	From line 3 above if "No" on line 12 and From line 7 above if "Yes" on line 12
15	If line 13 equals 12.7%, then line 4, if line 13 equals 11.7% then line 3, and if line 12 is "Yes" then line 7
16	Forecast – End of prior year net plant plus current year forecast of CWIP or Cap Adds.
	reconciliation – Average of 13 month prior year net plant balances plus prior year 13-mo CWIP balances.
17	Annual Depreciation Exp from Attachment 5
18	
19	See Calculations for each item below
20	See Calculations for each item below

	PJM Upgrade	ID: b2494			PJM Upgrade	e ID: s1041			PJM Upgrade	e ID: b2587				
	Warren Sul	bstation			Joffre Substa	ation S1041			Piercebrook	Substation				
Yes				Yes				Yes						
No				No				No						
11.70%				11.70%				11.70%						
11.0451%				11.0451%				11.0451%						
11.0451%				11.0451%				11.0451%						
22,953,510				0				10,221,308						
503,732				0				219,356						
		Reconciliation				Reconciliation				Reconciliation				
Return 2,535,243.49	Depreciation 503,731.84	Amount 0.00	Revenue 3,038,975.33	Return 0.00	Depreciation 0.00	Amount 0.00	Revenue 0.00	Return 1,128,956.06	Depreciation 219,356.02	Amount 0.00	Revenue 1,348,312.08	Total 242,497,271.74	Incentive Charged	Revenue Credit 242,497,271.
2.535.243.49	503.731.84	0.00	3.038.975.33		0.00	0.00	0.00	1,128,956.06	219.356.02	0.00	1.348.312.08	248.756.431.19	248.756.431.19	

\$6,259,159.44 Ax A Line 148

1 2

For Plant in Service
"Pre-Commercial Exp" is equal to the amount of pre-commerc Revenue is equal to the "Return" ("Investment" times FCR) p
"Reconciliation Amount" is created in the reconciliation in Atta

Template for Annual Information Filings with Formula Rate Debt Cost Disclosure and True-Up Attachment 8, page 1, Table 1 and 2

	Template for Annual Information Fil	lings with Formula Rate Debt C	ost Disclosure and True-Up									
	TABLE 1: Summary Cost of Long T	erm Debt										
	CALCULATION OF COST OF DEBT											
	YEAR ENDED 12/31/2019	Ī										
		(a)	(b)	(c)	(d)	(0)	(f)	(g)	(h)	(i)	(i)	
	t=N Long Term Debt C 12/31/2019	Issue Date	Maturity Date	ORIGINAL ISSUANCE	Net Proceeds At Issuance	Net Amount Outstanding at t=N	Months Outstanding at t=N	Average Net Outstanding in Year* z*	Weighted Outstanding Ratios	Effective Cost Rate (Tables 2 and 3)	Weighted Debt Cost at t = N (h) * (i)	
(1) (2)	First Mortgage Bonds: 3.85%, Senior Unsecured Notes 3.76%, Senior Unsecured Notes	12/11/2014 10/16/2015	6/2/2025 5/30/2025	\$ 550,000,000 \$ 75,000,000	\$ 545,247,429 \$ 74,437,647	\$ 547,537,066 \$ 74,681,919	12 12	\$ 547,537,086.00 \$ 74,681,919.00	88.00% 12.003%	3.95% 3.85%	3.48% 0.46%	
1	Total			\$ 625,000,000		\$ 622,218,985		\$ 622,218,985	100.000%		3.94%	
	t = time The current portion of long term debt is included in t The custanding amount (column (e)) for debt retire * z = Average of monthly balances for months outst	d during the year is the outstanding amount a		ot outstanding in a month.).								

	TABLE 2: Effective Cost Rates For Tra	aditional Front-Loaded Debt Issuances:											
	YEAR ENDED 12/31/2019												
		(aa)	(bb)	(cc)	(dd) (Discount)	(ee)	(ff) Loss/Gain on	(gg) Less Related	(hh)	(ii) Net	(ii)	(kk)	(II) Effective Cost Rate*
		Issue	Maturity	Amount	Premium	Issuance	Reacquired	ADIT	Net	Proceeds	Coupon	Annual	(Yield to Maturity
	Long Term Debt Iss Affiliate	Date	Date	Issued	at Issuance	Expense	Debt	(Attachment 1)	Proceeds	Ratio	Rate	Interest	at Issuance, t = 0)
(1)	3.85%, Senior Unsecured ! No	12/11/2014	6/2/2025	\$ 550,000,000	\$ (418,000)	4,334,571		xxx	\$ 545,247,429	99.1359	0.03850	\$ 21,175,000	3.95%
(2)	3.76%, Senior Unsecured Notes	10/16/2015	5/30/2025	75,000,000		562,353			\$ 74,437,647	99.2502	0.0376	\$ 2,820,000	3.85%
	TOTALS			\$ 625,000,000	(418,000)	\$ 4,896,924		XXX	\$ 619,685,076			\$ 23,995,000	
	* YTM at issuance calculated from an acceptable bond to	table or from YTM = Internal Rate of Return (IRR) calculation		\$ 020,000,000	(410,000)	4,000,024		***	010,000,010			20,000,000	
	Effective Cost Rate of Individual Debenture (YTM at issue	uance): the t=0 Cashflow C equals Net Proceeds column (gg); Se	emi-annual (or other) interest cashflows (Q., C	etc.).									

Attachment 9 - Financing Costs for Long Term Debt using the Internal Rate of Return Methodology

T/ALCo anticipates its financing will be a 7 year loan, where by T/ALCo pays Origination Fees of \$5.2 million and a Commitments Fee of 0.3% on the undrawn principle. Consistent with GAAP, T/ALCO will amortize the Origination Fees and Commitments Fees using the standard Internal Rate of Return formula below. Each year, T/ALCO will row up the amounts withdrawn, the interest paid in the year. Origination Fees, Commitments Fees, and total loan amount on this attachment.

Total Loan Amount		\$	900,000,000
Internal Rate of Retur	rn¹		4.886348%
Based on following F	inancial Formula ² :		
NPV = 0 =	$\sum_{t=1}^{N} C_t/(1+IRR)pw$)] [(t)

 Origination Fees
 7,780,954

 Origination Fees
 7,780,954

 Addition Origination Fees
 15,125

 Total Issuance Expense
 7,796,079

 New Borrowing
 Old Borrowing

After borrowing is at the midpoint (\$275,000)

	2008	2008	2008	2008	2009	2010	2011	2012	2013	2014	2015
LIBOR Rate	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
Spread	0.00007	0.0000 /	0.000070	0.0000 /0	0.000070	0.000070	0.000070	0.000070	0.000070	0.0000 /0	0.000070
Interest Rate	6.13%	3.86%	4.05%	4.34%	2.12%	2.12%	2.12%	2.12%	2.12%	2.12%	2.12%
Bond \$450M Interest	0.137	3.00 A	4.0370	4.5470	2.1270	2.1270	2.1270	2.1270	2.12./0	2.1270	2.1270
Rate	\$ 450,000,000					4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
Revolver Interest Rate	\$ 350,000,000	Draw 1	DONE			3.249%	4.50%	6.21%			
Revolver Interest Rate	\$ 350,000,000	Draw 2, 3, 4	DONE			3.247%	4.50%	6.21%		,	•
Revolver Interest Rate	\$ 350,000,000	Draw 5	DONE			3.251%	4.50%	6.21%			
Revolver Interest Rate	\$ 350,000,000	Draw 6	DONE - Roll over Draw 1	and 4		3.316%	4.50%	6.21%			
Revolver Interest Rate	\$ 350,000,000	Draw 7	DONE			3.361%	4.50%	6.21%			
Revolver Interest Rate	\$ 350,000,000	Draw 8	DONE - Roll over Draw 2	, 3 and 5		3.422%	4.50%	6.21%			
Revolver Interest Rate	\$ 350,000,000	Draw 9	DONE			3.417%	4.50%	6.21%			
Revolver Interest Rate	\$ 350,000,000	Draw 10	DONE			3.348%	4.50%	6.21%			
Revolver Interest Rate	\$ 350,000,000	Draw 11	DONE - Roll over Draw 6	and 9		3.498%	4.50%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 12	DONE - Roll over Draw 1	0		3.418%	4.50%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 13	DONE - Roll over Draw 7	and 8		3.398%	4.50%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 14	DONE			3.275%	4.50%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 15	DONE			3.275%	4.50%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 16	DONE - Roll over Draw 1	1		3.289%	4.50%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 17	DONE			3.248%	4.50%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 17A	DONE - Roll over Draw 1	2, 14 and 15		3.286%	4.50%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 18	DONE - Roll over Draw 1	3 and 17		3.286%	4.50%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 19	DONE				3.283%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 20	DONE - Roll over Draw 1	6			3.304%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 21	DONE - Roll over Draw 1	7A and 19			3.312%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 22	DONE - Roll over Draw 1	8			3.312%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 23	DONE				3.222%	6.21%			
Revolver Interest Rate	\$ 450,000,000		DONE Roll over Draw 20				3.213%	6.21%			
- III III III III III III III III III I	+ 100,000,000		Dici Diaw 20				0.21070	0.2170			
Revolver Interest Rate	\$ 450,000,000	Draw 25	DONE Roll over Draw 21	, 22 and 23			3.174%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 26	DONE Roll over Draw 25				3.169%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 27	DONE - Pay off Draw 26				3.196%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 28	DONE				1.936%	6.21%			

				GL '224100		GL '820204	GL '181100/654106	GL '820202			
(A)	(B)	(C)	(D)	(E)		(F)	(G)	(H)	(1)		A
Year		Capital Expenditures	Principle Drawn In Quarter (\$000's)	Principle Drawn To Date	Outstanding Debt Balance	Interest Expense	Origination Fees	Commitment	Net Cash Flows (D-F-G-H)	Interest at effective rate	Amortization of origination fees and commitment fees
2008											
12/24/2007	Q4	68,183,000	10,000,000	10,000,000	10,000,000		734,955.02		9,265,045	-	-
01/31/2008	Q1			10,000,000	9,265,045		31,013.00		(31,013)	46,132	46,132
02/4/2008	Q1			10,000,000	9,280,164		69,578.45		(69,578)	4,853	4,853
02/6/2008	Q1			10,000,000	9,215,438		137.50		(138)	2,409	2,409
02/29/2008	Q1			10,000,000	9,217,710		2,960.00		(2,960)	27,752	27,752
03/5/2008	Q1			10,000,000	9,242,502		125,384.16		(125,384)	6,042	6,042
3/24/2008	Q1	25,543,000		10,000,000	9,123,160	155,047.57			(155,048)	22,684	(132,363)
03/31/2008	Q1			10,000,000	8,990,797		17,011.00		(17,011)	8,230	8,230
04/30/2008	Q2			10,000,000	8,982,016		197,269.56		(197,270)	35,289	35,289
05/19/2008	Q2			10,000,000	8,820,035		109,824.88		(109,825)	21,931	21,931
6/23/2008	Q2	20,509,000		10,000,000	8,732,141	97,477.43			(97,477)	40,038	(57,439)
06/26/2008	Q2			10,000,000	8,674,702		43,098.82		(43,099)	3,402	3,402
06/30/2008	Q2			10,000,000	8,635,005		13,267.50		(13,268)	4,516	4,516
08/8/2008	Q3			10,000,000	8,626,253		1,577.79		(1,578)	44,084	44,084
08/13/2008	Q3			10,000,000	8,668,760		62,776.98		(62,777)	5,667	5,667
8/15/2008	Q3		55,000,000	65,000,000	8,611,650	59,689.48	7,780,953.85		47,159,357	2,251	(57,438)
8/20/2008	Q3			65,000,000	55,773,258		530.00		(530)	36,461	36,461
8/25/2008	Q3			65,000,000	55,809,189		15,125.00		(15,125)	36,485	36,485
9/3/2008	Q3			65,000,000	55,830,549		82,654.66		(82,655)	65,714	65,714
9/8/2008	Q3			65,000,000	55,813,609		1,957.50		(1,958)	36,487	36,487
9/11/2008	Q3		(00.000.000)	65,000,000	55,848,138	0.00.000.00	41,845.84		(41,846)	21,903	21,903
9/15/2008	Q3		(20,000,000)	45,000,000	55,828,196	243,199.31	7 505 05		(20,243,199)	29,196	(214,004)
9/25/2008	Q3			45,000,000	35,614,192		7,525.25		(7,525)	46,580	46,580
9/29/2008 9/30/2008	Q3 Q3	24.995.000		45,000,000 45,000,000	35,653,247 35,573,834		98,058.08 18,136.90	225 520 92	(98,058)	18,645 4,650	18,645 4,650
10/2/2008		24,995,000	00 000 000				18,136.90	235,520.83	(253,658)		
10/2/2008	Q4 Q4		20,000,000	65,000,000	35,324,826 55,255,554		2 020 02	78,506.96	19,921,493	9,235 108,439	9,235 108,439
				65,000,000			2,030.03		(2,030)		
10/29/2008 11/19/2008	Q4 Q4			65,000,000	55,361,963		266.90		(267)	86,901	86,901
11/19/2008	Ų4			65,000,000	55,448,597		96,048.71		(96,049)	152,404	152,404

Attachment 9 - Financing Costs for Long Term Debt using the Internal Rate of Return Methodology

T/ALCo anticipates its financing will be a 7 year loan, where by T/ALCo pays Origination Fees of \$5.2 million and a Commitments Fee of 0.3% on the undrawn principle. Consistent with GAAP, T/ALCO will amortize the Origination Fees and Commitments Fees using the standard Internal Rate of Return formula below. Each year, T/ALCO will row up the amounts withdrawn, the interest paid in the year. Origination Fees, Commitments Fees, and total loan amount on this attachment.

Total Loan Amount		\$	900,000,000
Internal Rate of Retu	rn¹		4.8863489
Based on following F	inancial Formula ² :		
NPV = 0 =	$\sum_{t=1}^{N} C_t/(1+IRR)pw$	m)	(t)

Origination Fees		
Origination Fees Origination Fees		7.780.95
Addition Origination Fees		15,12
Total Issuance Expense		7,796,0
	New Borrowing	Old Borrowing
Revolving Credit Commitment Fee	0.	005 0.005
Povolving Credit Commitment Eco		0.003

After borrowing is at the midpoint (\$275,000)

	11/21/2008	Q4			65,000,000	55,504,952		730.00		(730)	14,511	14,511
	12/15/2008	Q4		25,000,000	90,000,000	55,518,734	718,999.31			24,281,001	174,431	(544,569)
(1)	1/6/2009	Q1	42,068,000	100	90,000,000	79,974,165			618,333.53	(618,334)	230,297	230,297
(1)	2/17/2009	Q1	42,000,000	30,000,000	120,000,000	79,586,128			010,000.00	30,000,000	438,097	438,097
	2/17/2009				120,000,000	79,566,126				30,000,000		
	3/16/2009	Q1	75,475,000	40,000,000	160,000,000	110,024,225	933,987.50			39,066,013	388,964	(545,023)
	3/25/2009	Q1		-	160,000,000	149,479,202			1,100,000.00	(1,100,000)	175,942	175,942
	4/8/2009	Q1 Q2			160,000,000	148,555,144			549,166.67	(549,167)	272,085	272,085
	5/15/2009	Q2		50,000,000	210,000,000	148,278,062			- 10, 100.01	50,000,000	718,820	718,820
	3/13/2009	Q2			210,000,000					50,000,000	7 10,020	/ 10,020
	6/16/2009	Q2		40,000,000	250,000,000	198,996,882	1,405,039.11			38,594,961	834,057	(570,982)
	6/30/2009	Q2		_	250,000,000	238,425,899				-	436,686	436,686
	7/31/2009	Q3 Q3			250,000,000	238,862,586			453,194.44	(453,194)	969,797	969,797
	9/3/2000	00		30,000,000	200,000,000	220,002,000			100,101.11	20,000,000	03 993	
	8/3/2009	Q3			280,000,000	239,379,188				30,000,000	93,882	93,882
	9/4/2009	Q3		50,000,000	330,000,000	269,473,071				50,000,000	1,129,444	1,129,444
	9/16/2009	Q3			330,000,000	320,602,515	1,596,826.11			(1,596,826)	503,245	(1,093,581)
	10/5/2009	04		45,000,000	375,000,000	319,508,934	207,916.06			44,792,084	794,450	586,534
		Q4 Q4		45,000,000	373,000,000	315,300,534	207,910.00		004.050.00	44,752,004	794,430	500,554
	10/16/2009	Q4			375,000,000	365,095,468			321,250.00	(321,250)	525,294	525,294
	11/5/2009	Q4		30,000,000	405,000,000	365,299,512	-			30,000,000	956,176	956,176
	12/4/2009	Q4		50,000,000	455,000,000	396,255,688				50,000,000	1,504,831	1,504,831
	12/16/2009	Q4	73,715,000	,,	455,000,000	447,760,519	1,374,479.16			(1,374,479)	702,843	(671,636)
			10,110,000	-			1,074,470.10		100 100 50			(071,000)
	1/4/2010	Q1			455,000,000	447,088,883			138,489.58	(138,490)	1,111,675	1,111,675
	1/5/2010	Q1		30,000,000	485,000,000	448,062,068	892,331.11			29,107,669	58,568	(833,764)
	1/15/2010	Q1		_	485,000,000	477,228,304	440,625.00			(440,625)	624,167	183,542
	1/25/2010	Q1		(485,000,000)	,,	477,411,847	423,000.00		18,489.58	(485,441,490)	624,407	201,407
		Q1		450,000,000	450,000,000	(7,405,236)	420,000.00	4,533,000.00	10,400.00	445,467,000		201,407
	1/25/2010				450,000,000						-	-
	1/25/2010	Q1		45,000,000	495,000,000	438,061,764		5,852,578.67		39,147,421	-	-
	1/27/2010	Q1 Q1			495,000,000	477,209,186		6,979.59 58,000.00		(6,980) (58,000)	124,763	124,763
	2/3/2010	Q1			495,000,000	477,326,969		58,000.00		(58.000)	436,922	436,922
	2/3/2010	Q1			495,000,000	477,705,891		5,500.00		(5,500)	,	,
	2/3/2010	01			405,000,000	477,700,001		00.440.70	200474	(0,000)	404 000	101.000
	2/5/2010	Q1			495,000,000	477,700,391		82,116.73	2,934.74	(85,051)	124,892	124,892
	2/12/2010	Q1		20,000,000	515,000,000	477,740,231				20,000,000	437,300	437,300
	2/24/2010	Q1			515,000,000	498,177,531		23,770.00		(23,770)	781,982	781,982
	3/10/2010	Q1		30,000,000	545,000,000	498,935,743		90,000.00		29,910,000	913,821	913,821
	0/47/2010			30,000,000	545,000,000	430,333,743		405 700 00		23,310,000	510,021	513,021
	3/17/2010	Q1		-	545,000,000	529,759,564		195,720.20		(195,720)	484,916	484,916
	3/26/2010	Q1		20,000,000	565,000,000	530,048,759		17,821.04		19,982,179	623,885	623,885
	4/1/2010	Q2			565,000,000	550,654,823			255,416.67	(255,417)	432,008	432,008
	4/5/2010	Q2			565,000,000	550,831,415		123,660.90	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(123,661)	288,060	288,060
	4/3/2010	00			505,000,000	550,001,410		004.050.00		(004.050)	200,000	444.054
	4/7/2010	Q2			565,000,000	550,995,814		201,250.00		(201,250)	144,054	144,054
	4/8/2010	Q2			565,000,000	550,938,618		224,587.75		(224,588)	72,015	72,015
	4/12/2010	Q1		30,000,000	595,000,000	550,786,045				30,000,000	288,036	288,036
	4/14/2010	Q1 Q2		,,	595,000,000	581,074,082		194,134.74		(194,135)	151,918	151,918
	4/04/0040	92			505,000,000	581,031,865				(104,100)	504.040	504.040
	4/21/2010	Q2			595,000,000	581,031,865		18,977.41		(18,977)	531,848	531,848
	4/26/2010	Q2		(65,000,000)	530,000,000	581,544,735	369,573.75			(65,369,574)	380,177	10,603
	4/26/2010	Q2 Q2 Q2		65,000,000	595,000,000	516,555,339	55,920.56			64,944,079	-	(55,921) 152,029
	4/28/2010	Q2			595,000,000	581,499,418		2,300.79		(2,301)	152,029	152.029
	4/30/2010	02			595,000,000	581,649,147		2,156.70		(2,157)	152,068	152,068
	5/7/2010	Q2		30,000,000	625,000,000	581,799,058		2,100.70		30,000,000	532,550	532,550
	5/12/2010	Q2		(00,000,000	545,000,000	612,331,608				(80,000,000)	400,004	400,304
		Q2		(80,000,000)							400,304	
	5/12/2010	Q2		80,000,000	625,000,000	532,731,912	160,694.44			79,839,306	-	(160,694)
	5/12/2010	Q2 Q2			625,000,000	612,571,218	81,275.00			(81,275)	-	(81,275)
	5/12/2010	Q2			625,000,000	612,489,943	170,100.00			(170,100)		(170,100)
	5/20/2010	Q2			625,000,000	612,319,843	,	182,500.00		(182,500)	640,599	640,599
		Q2		20.000.000	625,000,000	012,319,043		162,500.00			040,399	640,599
	5/26/2010	Q2		20,000,000	645,000,000	612,777,942				20,000,000	480,746	480,746
	6/14/2010	Q2			645,000,000	633,258,687		150,071.58		(150,072)	1,574,581	1,574,581
	7/1/2010	Q3			645,000,000	634,683,197			230,764	(230,764)	1,411,820	1,411,820
	7/2/2010	Q3			645,000,000	635,864,253		1,168.50		(1,169)	83,116	83,116
	7/7/2010	90			680.000.000	635.946.200		1,100.00	-	(1,103)	415.741	05,110
		Q3		35,000,000						35,000,000		415,741
	7/15/2010	Q3			680,000,000	671,361,942	8,500,000.00			(8,500,000)	702,368	(7,797,632)
	7/26/2010	Q3		(65,000,000)	615,000,000	663,564,309				(65,000,000)	954,726	954,726
	7/26/2010	Q3		(20,000,000)	595,000,000	599,519,036				(20,000,000)		
	7/20/2010	Q3		115 000 000	740,000,000	E70 E40 000				(20,000,000)		-
	7/26/2010	Ų3		115,000,000	710,000,000	579,519,036				115,000,000		
	7/26/2010	Q3 Q2			710,000,000	694,519,036	115,798.33			(115,798)	-	(115,798)
	7/26/2010	Q2			710,000,000	694,403,237	544,837.22		-	(544,837)	-	(544,837)
	8/9/2010	Q3		(35,000,000)	675,000,000	693,858,400	107,415.00			(35,107,415)	1,270,829	1,163,414
	8/9/2010	Q3		35,000,000	710,000,000	660,021,814	10.00			35,000,000	1,210,023	., 100,717
		Q3				000,021,014	271,680.83				070 501	-
	8/12/2010			(30,000,000)	680,000,000	695,021,814				(30,271,681)	272,581	900
	8/12/2010	Q3		(80,000,000)	600,000,000	665,022,714	699,608.89			(80,699,609)	-	(699,609)
	8/12/2010	Q3		110,000,000	710,000,000	584,323,106				110,000,000		_ 1
	8/30/2010	Q3		,,	710,000,000	694,323,106		407,816.09		(407,816)	1,635,445	1,635,445
		Q3		00 000 000	710,000,000			407,010.09		(407,010)		
	9/7/2010	Q3		30,000,000	740,000,000	695,550,735	-			30,000,000	727,674	727,674
	9/26/2010	Q3			740,000,000	726,278,408				-	1,805,872	1,805,872
	10/1/2010	Q4			740,000,000	728,084,280			162,778	(162,778)	475,975	475,975
	10/8/2010	Q4		30,000,000	770,000,000	728,397,478			,	30,000,000	666,739	666,739
		04		(115,000,000	655 000,000	750,001,410	4 000 000 00			(116,000,000	1 707 040	750 040
	10/26/2010	Q4		(115,000,000)	655,000,000	759,064,217	1,028,023.33			(116,028,023)	1,787,940	759,916
	10/26/2010	Q4		115,000,000	770,000,000	644,824,133				115,000,000	-	-
	11/5/2010	Q4		30,000,000	800,000,000	759,824,133				30,000,000	993,774	993,774
	11/9/2010	Q4			765,000,000	790,817,908	305.721.11			(35,305,721)	413,562	107,841
				(35,000,000)							413,502	
	11/9/2010	Q4		(30,000,000)	735,000,000	755,925,749	171,937.50			(30,171,938)	-	(171,938)
	11/9/2010	Q4		(30,000,000)	705,000,000	725,753,811	86,853.33			(30,086,853)	-	(86,853)
	11/9/2010	Q4		95,000,000	800,000,000	695,666,958				95,000,000	_	(/ /
		04			600,000,000		055 045 50				040.000	(645 400)
	11/12/2010	Q4		(110,000,000)	690,000,000	790,666,958	955,215.56			(110,955,216)	310,092	(645,123)
	11/12/2010	Q4		(30,000,000)	660,000,000	680,021,835	18,946.67			(30,018,947)	-	(18,947)
	11/12/2010	Q4		140,000,000	800,000,000	650,002,888	5.83			139,999,994	-	(6)
	12/6/2010	Q4		20,000,000	820,000,000	790,002,882				20,000,000	2,482,059	2,482,059
				20,000,000				0.004.40				
	12/23/2010	Q4			820,000,000	812,484,941		8,281.46		(8,281)	1,807,331	1,807,331
	1/3/2011	Q1			820,000,000	814,283,991			140,277.78	(140,278)	1,171,579	1,171,579
	1/18/2011	Q1			820,000,000	815,315,292	9,000,000			(9,000,000)	1,600,050	(7,399,950)
	1/26/2011	01		(115,000,000)	705,000,000	807,915,342	966,600.56			(115,966,601)	845,228	(121,373)
							300,000.30				040,220	(121,010)
	1/26/2011	Q1		115,000,000	820,000,000	692,793,969				115,000,000		
	2/9/2011	Q1		(20,000,000)	800,000,000	807,793,969	118,552.78			(20,118,553)	1,479,507	1,360,954
	2/9/2011	Q1		(95,000,000)	705,000,000	789,154,923	797,767.78			(95,797,768)	-	(797,768)
				(,,)	,,	, . ,						/

Attachment 9 - Financing Costs for Long Term Debt using the Internal Rate of Return Methodology

T/ALCo anticipates its financing will be a 7 year loan, where by T/ALCo pays Origination Fees of \$5.2 million and a Commitments Fee of 0.3% on the undrawn principle. Consistent with GAAP, T/ALCo will amortize the Origination Fees and Commitments Fees using the standard Internal Rate of Return formula below. Each year, T/ALCo will row up the amounts withdrawn, the interest paid in the year, Origination Fees, Commitments Fees, and total loan count on this statchment.

Total Loan Amount		\$	900,000,000
Internal Rate of Retur			4.886348%
Based on following F	inancial Formula ² :		
NPV = 0 =	$\sum_{t=1}^{N} C_t/(1+IRR)pw$	W)	(t)

tevolving Credit Commitment Fee	New Borrowing 0.005	Old Borrowing 0.0050
Total Issuance Expense	=	7,796,079
rigination Fees iddition Origination Fees		7,780,954 15,125
Origination Fees		7,780,954

After borrowing is at the midpoint (\$275,000)

2/9/2011	Q1	115,000,000	820,000,000	693,357,156				115,000,000	-	-
2/14/2011	Q1	(140,000,000)	680,000,000	808,357,156	1,201,215.56			(141,201,216)	528,453	(672,763)
2/14/2011	Q1	140,000,000	820,000,000	667,684,393				140,000,000	-	
2/16/2011	Q1		820,000,000	807,684,393		3,098.63		(3,099)	211,164	211,164
4/1/2011	Q2	• · · · · · · · · · · · · · · · · · · ·	820,000,000	807,892,458			97,777.78	(97,778)	4,659,577	4,659,577
4/14/2011	Q2	10,000,000	830,000,000	812,454,257				10,000,000	1,381,663	1,381,663
4/26/2011	Q2	(115,000,000)	715,000,000	823,835,920	949,900.00			(115,949,900)	1,293,164	343,264
4/26/2011	Q2	115,000,000	830,000,000	709,179,184				115,000,000	-	-
5/9/2011	Q2	(115,000,000)	715,000,000	824,179,184	941,620.00			(115,941,620)	1,401,603	459,983
5/9/2011	Q2	(140,000,000)	575,000,000	709,639,166	1,081,920.00			(141,081,920)	-	(1,081,920)
5/9/2011	Q2	(10,000,000)	565,000,000	568,557,246	22,375.00			(10,022,375)	-	(22,375)
5/9/2011	Q2	235,000,000	800,000,000	558,534,871	-			235,000,000	-	-
5/16/2011	Q2	(235,000,000)	565,000,000	793,534,871	145,034.17			(235,145,034)	726,363	581,329
5/16/2011	Q2	235,000,000	800,000,000	559,116,200				235,000,000	-	
5/23/2011	Q2	(235,000,000)	565,000,000	794,116,200	144,805.69			(235,144,806)	726,895	582,089
5/23/2011	Q2	50,000,000	615,000,000	559,698,289				50,000,000	-	
5/26/2011	Q2	(115,000,000)	500,000,000	609,698,289	307,912.50	233,657		(115,541,569)	239,118	(68,795)
6/23/2011	Q2	(50,000,000)	450,000,000	494,395,838	88,994.45		-	(50,088,994)	1,812,670	1,723,675
6/23/2011	Q2	20,000,000	470,000,000	446,119,513			-	20,000,000	-	-
7/6/2011	Q3		470,000,000	466,119,513			171,736.11	(171,736)	792,685	792,685
7/15/2011	Q3		470,000,000	466,740,462	9,000,000			(9,000,000)	549,369	(8,450,631)
7/25/2011	Q3	(20,000,000)	450,000,000	458,289,831	34,417.78		-	(20,034,418)	599,398	564,980
10/18/2011	Q4		450,000,000	438,854,811			290,416.67	(290,417)	4,902,813	4,902,813
1/17/2012	Q1		450,000,000	443,467,207	9,000,000			(9,000,000)	5,306,145	(3,693,855)
3/2/2012	Q1		450,000,000	439,773,352		3,070.00		(3,070)	2,594,240	2,594,240
7/15/2012	Q3		450,000,000	442,364,522	9,000,000			(9,000,000)	7,874,847	(1,125,153)
1/15/2013	Q1		450,000,000	441,239,369	9,000,000			(9,000,000)	10,740,283	1,740,283
7/15/2013	Q3		450,000,000	442,979,652	9,000,000			(9,000,000)	10,604,752	1,604,752
1/15/2014	Q1		450,000,000	444,584,404	9,000,000			(9,000,000)	10,821,705	1,821,705
7/15/2014	Q3	(150 000 000)	450,000,000	446,406,108	9,000,000			(9,000,000)	10,686,780	1,686,780
1/15/2015	Q1	(450,000,000)	-	448,092,888	9,000,000			(459,000,000)	10,907,105	1,907,105
									-	-
1										

Commitment fees for 4th quarter 2008

ATTACHMENT 2

Annual Transmission Revenue Requirements For 2020 Rate Year

ATTACHMENT H-18A

Tra	ns-Allegheny Interstate Line Company			
For	mula Rate Appendix A	Notes	FERC Form 1 Page # or Instruction	TrAILCo
	aded cells are input cells		<u> </u>	
0	add done and impact done			2020 Forecast
Alloc	ators			
	Wages & Salary Allocation Factor			
1	Transmission Wages Expense		p354.21.b	0
2	Total Wages Expense		p354.28.b	0
3	Less A&G Wages Expense		p354.27.b	0
4	Total Wages Less A&G Wages Expense		(Line 2 - Line 3)	0
5	Wages & Salary Allocator		(Line 1 / Line 4), if line 2 = 0, then 100%	100.0000%
	Plant Allocation Factors			
6	Electric Plant in Service	(Note B)	Attachment 5	2,195,698,539
7	Total Plant In Service		(Line 6)	2,195,698,539
8	Accumulated Depreciation (Total Electric Plant)		Attachment 5	324,361,785
9	Total Accumulated Depreciation		(Line 8)	324,361,785
10	Net Plant		(Line 7 - Line 9)	1,871,336,754
11	Transmission Gross Plant		(Line 15 + Line 21)	2,195,698,539
12	Gross Plant Allocator		(Line 11 / Line 7, if Line 7=0, enter 100%)	100.0000%
13 14	Transmission Net Plant Net Plant Allocator		(Line 11 - Line 29) (Line 13 / Line 10, if line 10=0, enter 100%)	1,871,336,754 100.0000%
14	Net Flant Anocator		(Line 137 Line 10, il line 10–0, enter 100%)	100.0000 /6
Plant	Calculations			
	Transmission Plant			
15	Transmission Plant Transmission Plant In Service	(Note B)	Attachment 5	2,077,329,305
	Tallottiosoff Tallottion	(11010 2)	, masimoni o	2,011,020,000
16	New Trans. Plant Adds. for Current Calendar Year (13 average balance)	(Note B)	Attachment 6	1,971,815
17	Total Transmission Plant		(Line 15 + Line 16)	2,079,301,120
18	General & Intangible		Attachment 5	118,369,234
19	Total General & Intangible		(Line 18)	118,369,234
20 21	Wage & Salary Allocator Transmission Related General and Intangible Plant		(Line 5) (Line 19 * Line 20)	100.0000% 118,369,234
21	Transmission Related General and intangible Flant		(Lille 19 Lille 20)	110,303,234
22	Transmission Related Plant		(Line 17 + Line 21)	2,197,670,354
	Accumulated Depreciation			
23	Transmission Accumulated Depreciation	(Note B)	Attachment 5	294,797,494
24	Accumulated General Depreciation		Attachment 5	12,119,855
25	Accumulated Intangible Amortization		Attachment 5	17,444,436
26 27	Total Accumulated General and Intangible Depreciation Wage & Salary Allocator		(Sum Lines 24 to 25) (Line 5)	29,564,291 100.0000%
28	Transmission Related General & Intangible Accumulated Depreciation		(Line 5) (Line 26 * Line 27)	29,564,291
29	Total Transmission Related Accumulated Depreciation		(Line 23 + Line 28)	324,361,785
				·
30	Total Transmission Related Net Property, Plant & Equipment		(Line 22 - Line 29)	1,873,308,569

ADIT net of FASB 106 and 109 Enter Negative		Attachment 1	-416,208,9
Transmission Related Accumulated Deferred Income Taxes		(Line 31)	-416,208,9
Transmission Related CWIP (Current Year 13 Month weighted average balances)	(Note B)	p216.b.43 as shown on Attachment 6	
Transmission Related Land Held for Future Use	(Note C)	Attachment 5	
Transmission Related Pre-Commercial Costs Capitalized			
Unamortized Capitalized Pre-Commercial Costs		Attachment 5	
Prepayments			
Transmission Related Prepayments	(Note A)	Attachment 5	124,0
Materials and Supplies			
Undistributed Stores Expense Wage & Salary Allocator	(Note A)	Attachment 5 (Line 5)	100.0000
Total Undistributed Stores Expense Allocated to Transmission		(Line 37 * Line 38)	100.0000
Transmission Materials & Supplies		Attachment 5	
Transmission Related Materials & Supplies		(Line 39 + Line 40)	
Cash Working Capital		,	
Operation & Maintenance Expense		(Line 74)	16,039,2
1/8th Rule		1/8	12.5
Transmission Related Cash Working Capital		(Line 42 * Line 43)	2,004,9
Total Adjustment to Rate Base		(Lines 32 + 33 + 34 + 35+ 36 + 41 + 44)	-414,079,9
Rate Base		(Line 30 + Line 45)	1,459,228,6
		,	
Transmission O&M			
Transmission O&M		p321.112.b	8,238,7
Less Account 566 Misc Trans Exp listed on line 73 below.)		(line 73)	1,351,7
Less Account 565 Plus Schedule 12 Charges billed to Transmission Owner and booked to Account 565	(Note M)	p321.96.b PJM Data	
Plus Property Under Capital Leases	(Note IVI)	p200.4.c	
Transmission O&M		(Lines 47 - 48 - 49 + 50 + 51)	6,886,9
A&G Expenses			
Total A&G		p323.197.b	7,800,5
Less Property Insurance Account 924		p323.185.b	34,6
Less Regulatory Commission Exp Account 928	(Note E)	p323.189.b	- 1,-
Less General Advertising Exp Account 930.1	(p323.191.b	
Less PBOP Adjustment		Attachment 5	
Less EPRI Dues	(Note D)	p352 & 353	
A&G Expenses		(Line 53) - Sum (Lines 54 to 58)	7,765,8
Wage & Salary Allocator		(Line 5)	100.0000
Transmission Related A&G Expenses		(Line 59 * Line 60)	7,765,8
Directly Assigned A&G			
Regulatory Commission Exp Account 928	(Note G)	Attachment 5	
General Advertising Exp Account 930.1	(Note J)	Attachment 5	
Subtotal - Accounts 928 and 930.1 - Transmission Related		(Line 62 + Line 63)	
Property Insurance Account 924		p323.185.b	34,6
General Advertising Exp Account 930.1	(Note F)	Attachment 5	34.6
Total Accounts 928 and 930.1 - General Net Plant Allocator		(Line 65 + Line 66) (Line 14)	100.0000
A&G Directly Assigned to Transmission		(Line 67 * Line 68)	34,6
		•	
Account 566 Miscellaneous Transmission Expense	Account FCC	Attachment E	
Amortization Expense on Pre-Commercial Cost Pre-Commercial Expense	Account 566 Account 566	Attachment 5 Attachment 5	
Pre-Commercial Expense Miscellaneous Transmission Expense	Account 566	Attachment 5 Attachment 5	1 251 7
	ACCOUNT 300	Sum (Lines 70 to 72)	1,351,73 1,351,73
Total Account 566			
Total Account 566		(,,
Total Account 566 Total Transmission O&M		(Lines 52 + 61 + 64 + 69 + 73)	16,039,2

125,344,002

_	ciation & Amortization Expense			
	Depreciation Expense			
75	Transmission Depreciation Expense		Attachment 5	44,096,294
76	General Depreciation		Attachment 5	2,345,101
77	Intangible Amortization	(Note A		3,177,866
78	Total		(Line 76 + Line 77)	5,522,967
79	Wage & Salary Allocator		(Line 5)	100.0000%
80	Transmission Related General Depreciation and Intangible Am	ortization	(Line 78 * Line 79)	5,522,967
81	Total Transmission Depreciation & Amortization		(Lines 75 + 80)	49,619,261
ixes	Other than Income			
82	Transmission Related Taxes Other than Income		Attachment 2	14,413,947
83	Total Taxes Other than Income	(Line 82)	14,413,947	
eturn	/ Capitalization Calculations			
84	Preferred Dividends	enter posi	itive p118.29.c	0
	Common Stock			
85	Proprietary Capital		p112.16.c	934,033,865
86 87	Less Accumulated Other Comprehensive Income Account 219		p112.15.c	
88	Less Preferred Stock Less Account 216.1		(Line 95) p112.12.c	
89	Common Stock		(Line 85 - 86 - 87 - 88)	934,033,865
	Capitalization			
90	Long Term Debt	(Note N		624,783,740
91	Less Unamortized Loss on Reacquired Debt		p111.81.c	
	Plus Unamortized Gain on Reacquired Debt		p113.61.c	
93	Less ADIT associated with Gain or Loss		p113.61.c Attachment 1	
93 94	Less ADIT associated with Gain or Loss Total Long Term Debt		p113.61.c Attachment 1 (Line 90 - 91 + 92 - 93)	624,783,740
93 94 95	Less ADIT associated with Gain or Loss Total Long Term Debt Preferred Stock		p113.61.c Attachment 1 (Line 90 - 91 + 92 - 93) p112.3.c	624,783,740
93 94 95 96	Less ADIT associated with Gain or Loss Total Long Term Debt		p113.61.c Attachment 1 (Line 90 - 91 + 92 - 93)	624,783,74(934,033,865
93 94 95 96 97	Less ADIT associated with Gain or Loss Total Long Term Debt Preferred Stock Common Stock Total Capitalization	Long Term Debt (Note N	p113.61.c Attachment 1 (Line 90 - 91 + 92 - 93) p112.3.c (Line 89) (Sum Lines 94 to 96)	624,783,744 934,033,868 1,558,817,608
93 94 95 96 97	Less ADIT associated with Gain or Loss Total Long Term Debt Preferred Stock Common Stock Total Capitalization Debt % Total	Long Term Debt (Note N rred Stock (Note N	p113.61.c Attachment 1 (Line 90 - 91 + 92 - 93) p112.3.c (Line 89) (Sum Lines 94 to 96)	624,783,740 934,033,865 1,558,817,605 40.0806%
93 94 95 96 97 98	Less ADIT associated with Gain or Loss Total Long Term Debt Preferred Stock Common Stock Total Capitalization Debt % Total Preferred % Total		p113.61.c Attachment 1 (Line 90 - 91 + 92 - 93) p112.3.c (Line 89) (Sum Lines 94 to 96) 4) (Line 94 /Line 97) 4) (Line 95 /Line 97)	624,783,740 934,033,865 1,558,817,600 40,0806% 0,0000%
93 94 95 96 97 98 99 100	Less ADIT associated with Gain or Loss Total Long Term Debt Preferred Stock Common Stock Total Capitalization Debt % Total Preferred % Prefe Common % Com Debt Cost Total	rred Stock (Note N non Stock (Note N Long Term Debt	p113.61.c Attachment 1 (Line 90 - 91 + 92 - 93) p112.3.c (Line 89) (Sum Lines 94 to 96) (Line 94 /Line 97) (Line 95 /Line 97) (Line 96 /Line 97)	624,783,740 934,033,860 1,558,817,600 40,0806% 0,0000% 59,9194% 0,039%
93 94 95 96 97 98 99 00 01 02	Less ADIT associated with Gain or Loss	rred Stock (Note N non Stock (Note N Long Term Debt rred Stock	p113.61.c Attachment 1 (Line 90 - 91 + 92 - 93) p112.3.c (Line 89) (Sum Lines 94 to 96) 4) (Line 94 /Line 97) 4) (Line 95 /Line 97) (Line 96 /Line 97)	624,783,744 934,033,865 1,558,817,605 40,0806% 0,0000% 59,9194% 0,039 0,0000
93 94 95 96 97 98 99 100	Less ADIT associated with Gain or Loss	rred Stock (Note N non Stock (Note N Long Term Debt	p113.61.c Attachment 1 (Line 90 - 91 + 92 - 93) p112.3.c (Line 89) (Sum Lines 94 to 96) 4) (Line 94 /Line 97) 4) (Line 95 /Line 97) (Line 96 /Line 97)	624,783,744 934,033,868 1,558,817,600 40,0806% 0,0000% 59,9194% 0,039 0,0000
93 94 95 96 97 98 99 100 101 102 103	Less ADIT associated with Gain or Loss Total Long Term Debt Preferred Stock Common Stock Total Capitalization Debt % Total Preferred % Common % Common % Debt Cost Total Preferred Cost Common Cost Common Cost Weighted Cost of Debt Total	rred Stock (Note N (Note N) Long Term Debt rred Stock (Note I) Long Term Debt (Note I)	p113.61.c Attachment 1 (Line 90 - 91 + 92 - 93) p112.3.c (Line 89) (Sum Lines 94 to 96) 4) (Line 94 /Line 97) 4) (Line 95 /Line 97) 4) (Line 96 /Line 97) (Line 84 / Line 95) The most recent FERC approved ROE (Line 98 * Line 101)	624,783,740 934,033,865 1,558,817,605 40.0806% 0.0000% 59.9194% 0.0394 0.0000 0.1170
92 93 94 95 96 97 98 99 100 101 102 103 104 105 106	Less ADIT associated with Gain or Loss	rred Stock (Note N Note N N Note N N N N N N N N N N N N N N N N N N N	p113.61.c Attachment 1 (Line 90 - 91 + 92 - 93) p112.3.c (Line 89) (Sum Lines 94 to 96) (Line 94 /Line 97) (Line 95 /Line 97) (Line 96 /Line 97) (Line 84 / Line 95) The most recent FERC approved ROE	0 0 0 624,783,740 0 934,033,865 1,558,817,605 40.0806% 0.00000 59.9194% 0.0000 0.1170 0.0158 0.0000 0.0701

(Line 46 * Line 107)

108 Investment Return = Rate Base * Rate of Return

	osite Income Taxes			
109	Income Tax Rates FIT=Federal Income Tax Rate	(Note H)		21.00%
110	SIT=State Income Tax Rate or Composite	(Note 11)		7.419
111	р .	(percent of federal income tax deductible for state pur	pcPer State Tax Code	0.009
112	T	T=1 - {[(1 - SIT) * (1 - FIT)] / (1 - SIT * FIT * p)} =		26.859
113	T/ (1-T)			36.71%
114	Income Tax Component =	CIT=(T/1-T) * Investment Return * (1-(WCLTD/R)) =	[Line 113 * Line 108 * (1- (Line 104 / Line 107))]	37,555,193
115	Total Income Taxes		(Line 114)	37,555,193
EVE	IUE REQUIREMENT			
	Summary		41. 20	
116 117	Net Property, Plant & Equipment Total Adjustment to Rate Base		(Line 30) (Line 45)	1,873,308,56 -414,079,95
118	Rate Base		(Line 45)	1,459,228,61
440	T. 1.T		4: 74)	40,000,00
119 120	Total Transmission O&M Total Transmission Depreciation & Amortization		(Line 74)	16,039,23 49,619,26
121	Taxes Other than Income		(Line 81) (Line 83)	14,413,94
122	Investment Return		(Line 108)	125,344,00
123	Income Taxes		(Line 115)	37,555,19
124	Gross Revenue Requirement		(Sum Lines 119 to 123)	242,971,64
	·		(Canada vice so 120)	_ :=,=: :,= :
125	Adjustment to Remove Revenue Requirements Associated Transmission Plant In Service	with Excluded Transmission Facilities	(Line 22)	2,197,670,35
126	Excluded Transmission Facilities	(Note L)	Attachment 5	2, 107,070,00
127	Included Transmission Facilities	(Note L)	(Line 125 - Line 126)	2,197,670,35
128	Inclusion Ratio		(Line 127 / Line 125)	100.009
129	Gross Revenue Requirement		(Line 124)	242,971,64
130	Adjusted Gross Revenue Requirement		(Line 128 * Line 129)	242,971,64
131	Revenue Credits Revenue Credits		Attachment 3	1,670,30
132	Net Revenue Requirement		(Line 130 - Line 131)	241,301,34
	Net Plant Carrying Charge			
133	Net Revenue Requirement		(Line 132)	241,301,34
134	Net Transmission Plant + CWIP		(Line 17 - Line 23 + Line 33)	1.784.503.62
135	FCR		(Line 133 / Line 134)	13.5220
136	FCR without Depreciation		(Line 133 - Line 75) / Line 134	11.0510
137	FCR without Depreciation and Pre-Commercial Costs		(Line 133 - Line 70 - Line 71 - Line 75) / Line 134	11.0510
138	FCR without Depreciation, Return, nor Income Taxes		(Line 133 - Line 75 - Line 108 - Line 115) / Line 134	1.9224
120	Net Plant Carrying Charge Calculation with Incentive ROE		(Line 122 Line 122 Line 122)	78,402,14
139	Net Revenue Requirement Less Return and Taxes		(Line 132 - Line 122 - Line 123)	
140 141	Increased Return and Taxes Net Revenue Requirement with Incentive ROE		Attachment 4 (Line 139 + Line 140)	174,852,64 253,254,79
142	Net Transmission Plant + CWIP		(Line 139 + Line 140) (Line 17 - Line 23+ Line 33)	1,784,503,62
143	FCR with Incentive ROE		(Line 141 / Line 23+ Line 33)	1,764,503,62
144	FCR with Incentive ROE without Depreciation		(Line 141 / Line 142) (Line 141 - Line 75) / Line 142	11.7208
145	FCR with Incentive ROE without Depreciation and Pre-Com	mercial	(Line 141 - Line 73) / Line 142 (Line 141 - Line 70 - Line 71 - Line 75) / Line 142	11.7208
146	Net Revenue Requirement		(Line 132)	241,301,340.1
147	Reconciliation amount		Attachment 6	6,266,676.7
148	Plus any increased ROE calculated on Attach 7 other than PJM S	ch. 12 projects not paid by other PJM trans zones	Attachment 7	6,182,960.6
	Facility Credits under Section 30.9 of the PJM OATT Net Zonal Revenue Requirement		Attachment 5 (Line 146 + 147 + 148 + 149)	253.750.977.5
			• • • • • • • • • • • • • • • • • • • •	,,
149 150	Notice of Zenal Comics Date			
150	Network Zonal Service Rate	(Note K)	P IM Data	N/A
	Network Zonal Service Rate 1 CP Peak Rate (\$/MW-Year)	(Note K)	PJM Data (Line 150 / 151)	N/A N/A

Notes

- A Electric portion only

 B For both the estimate and the reconciliation, Construction Work In Progress ("CWIP") and leases that are expensed as O&M (rather than amortized) are excluded. For the Estimate Process:

Transmission plant in service will show the end of year balance and is linked to Attachment 5 which shows detail support by project.

The transmission plant will agree to or be reconciled to the FERC Form 1 balance for the transmission plant.

New Transmission Plant expected to be placed in service in the current calendar year will be based on the average of 13 monthly investment costs and shown separately detailed by project on Attachment 6.

Accumulated depreciation will show the end of year balance and is linked to Attachment 5 which shows detail support by project.

CWIP will be linked to Attachment 6 which shows detail support by project (incentive and non-incentive). For the Reconciliation Process:

Transmission plant in service will be calculated using a 13 month average balance and will be detailed on Attachment 5. This includes

new transmission plant added to plant-in-service

Accumulated depreciation will be calculated using a 13 month average balance and will be detailed on Attachment 5. This includes accumulated depreciation associated with current year transmission plant.

- CWIP will be linked to Attachment 6 which shows detail support by project (incentive and non-incentive).

 C Includes Transmission portion only and (i) only land that has an estimated in-service date within 10 years may be included and (ii) a plan for the land's use is required to be included in the filing whenever the cost of the land is proposed to be included in rates.

 D Excludes all EPRI Annual Membership Dues
- Excludes all Regulatory Commission Expenses
- Includes Safety related advertising included in Account 930.1
- G Includes Regulatory Commission Expenses directly related to transmission service, RTO filings, or transmission siting itemized in Form 1 at 351.h.

 H The currently effective income tax rate where FIT is the Federal income tax rate; SIT is the State income tax rate, and p =
- the percentage of federal income tax deductible for state income taxes. If the utility includes taxes in more than one state, it must explain in Attachment 5 the name of each state and how the blended or composite SIT was developed.
- ROE will be established in the Commission order accepting the settlement in Docket No. ER07-562 and no change in ROE will be made absent a Section 205 or Section 206 filing at FERC. Education and outreach expenses relating to transmission, for example siting or billing
- K As provided for in Section 34.1 of the PJM OATT; the PJM established billing determinants will not be revised or updated in the annual rate reconciliations. L Amount of transmission plant excluded from rates per Attachment 5.
- M Payments and an under Schedule 12 of the PJM OATT that are not directly assessed to load in the Zone under Schedule 12 are included in Transmission O&M on Line 47.

 If they are booked to Acct 565, they are included on Line 50. Copies of PJM invoices will be provided upon request.

 N The capital structure will remain 50% equity and 50% debt until construction of all of the segments of the TrAIL Project is completed and the entire TrAIL Project is placed in service. The first
- year that these projects are in service the formula will be run based on the 50/50 capital structure and on the actual year end capital structure. The two results will be weighted based on: the number of days the last project was in service and 365 day minus the numbers of days the last project was in service divided by 365 days. This can be illustrated using the following example:

Example:

Assume Last Project goes into service on day 260. Hypothetical Capital Structure until the last project goes into service is 50/50. Assume Year End actual capital structure is 60% equity and 40% debt.

Therefore: Weighted Equity = [50%*260+60%*(365-260)]/365

Attachment 1 - Accumulated Deferred Income Taxes (ADIT) Worksheet

			Trar	s-Allegheny l	nterstate Company				
Line	B1	B2	B3	С	D	E	F	G	
	Beg of Year Total	End of Year Total	End of Year Est. for Final Total	Retail Related	Only Transmission Related	Plant Related	Labor Related	Total ADIT	
1 ADIT- 282 From Account Total Below	568,563,524	569,936,139	569,936,139		569,936,139	_	_	569,936,139	
2 ADIT-283 From Account Total Below 3 ADIT-190 From Account Total Below	92,932,803 (259,063,205)	88,318,035 (242,077,005)	88,318,034 (242,077,005)		87,175,984 (240,903,179)	-	-	87,175,984 (240,903,179)	Enter No
4 Subtotal 5 Wages & Salary Allocator	,,	, ,			416,208,944	-	100.0000%	416,208,944	
6 Gross Plant Allocator 7 ADIT					416.208.944	100.0000%	_	416.208.944	

Note: ADIT associated with Gain or Loss on Reacquired Debt is included in Column A here and included in Cost of Debt on Appendix A, Line 93.

Amount 0 < From Acct 283, below

In filling out this attachment, a full and complete description of each item and justification for the allocation to Columns C-F and each separate ADIT item will be listed, Dissimilar items with amounts exceeding \$100,000 will be listed separately

A	B1	B2	В3	С	D	E	F	G	
			Tran	is-Allegheny Ir	nterstate Compan	у			
ADIT-190	Beg of Year Balance p234.18.b	End of Year Balance p234.18.c	nd of Year Est. for Final Total	Retail Related	Gas, Prod Or Other Related	Only Transmission Related	Plant Related	Labor Related	JUSTIFICATION
Accelerated Tax Depr-FED-Norm	(3)	3	3			3			Additional tax deprecation over book
AMT Carryforward	815,017	641,329	641,329			641,329			Paid AMT tax which generates a credit
Charitable Contribution - VA RTA	135	182	182			182			Disallowance in current year for charitable deduction due to tax loss, ta: attribute carries forward five years Disallowance in current year for charitable deduction due to tax loss. ta:
Charitable Contribution - WV RTA	1,761	1,636	1,636			1,636			attribute carries forward five years Disallowance in current year for charitable deduction due to tax loss, ta:
Charitable Contribution Carryforward	-	2,436	2,436			2,436			attribute carries forward five years
CIAC-Fed-Norm	1,330,290	1,401,210	1,401,210			1,401,210			Taxable CIAC
CIAC-Fed-Norm-Incurred-CWIP	1,892,585	1,892,585	1,892,585			1,892,585			Taxable CIAC
CIAC-MD-Norm-Incurred-CWIF	21,594	21,595	21,595			21,595			Taxable CIAC
CIAC-PA-Norm	103,436	110,050	110,050			110,050			Taxable CIAC
CIAC-PA-Norm-Incurred-CWIF CIAC-VA-Norm	71,176	71,176	71,176 (33.985)			71,176			Taxable CIAC Taxable CIAC
CIAC-VA-Norm CIAC-VA-Norm-Incurred-CWIF	(36,945) 20.558	(33,985) 20.558	(33,985)			(33,985) 20,558			Taxable CIAC Taxable CIAC
CIAC-WA-Norm	100.900	113.461	113.461			113.461			Taxable CIAC
CIAC-WV-Norm-Incurred-CWIP	157,677	157.678	157.678			157.678			Taxable CIAC
Deferral Amortization of Excess Def Income Taxes	2,049,003	4,109,966	4,109,966			4,109,966			Resulting from deferral of refund of excess ADIT due to customers
									Reclass of the tax portion (gross-up) for property items included in accoun
FASB 109 Gross-UP	(7,531,112)	(5,648,441)	(5,648,441)			(5,648,441)			190
Federal NOL	157,650,152	139,550,451	139,550,451			139,550,451			Result of bonus depreciation
									Costs incurred as a result of Allegheny merging with FirstEnergy which are
Merger Costs: D&O Insurance	1,003	674	674		674				not to be included within the revenue requirement Costs incurred as a result of Allegheny merging with FirstEnergy which are
Merger Costs: Licenses	46.271	31.102	31.102		31.102				not to be included within the revenue requirement
NOL Deferred Tax Asset - LT PA	2,847,069	1.939.726	1.939.726		31,102	1.939.726			Result of bonus depreciation
NOL Deferred Tax Asset - LT WV	17.926.330	18.117.327	18.117.327			18.117.327			Result of bonus depreciation
									Pension related temporary difference associated with Service Company
Pension/OPEB : Other Def Cr. or Dr.	1,456,511	2,135,099	2,135,099			2,135,099			allocations Reflects the adjustments and subsequent amortization of the regulatory asse
									associated with the adjusted debt balances resulting from the FE/AYE merger
Purch Acct-LTD FMV	1,186,908	1,142,050	1,142,050		1,142,050				(Offset is PAA - LT Regulatory Asset Amort below in 283)
State Income Tax Deductible	1,557,234	1,324,983	1,324,983			1,324,983			Deductions related to state income taxes Actual amount of tax interest capitalized
Tax Interest Capitalized-Fed-Norm Tax Interest Capitalized-Fed-Norm-Incurred-CWIP	28,837,213 32.573.737	28,215,976 32,695,354	28,215,976 32.695.354			28,215,976 32,695,354			Actual amount of tax interest capitalized Actual amount of tax interest capitalized
Tax Interest Capitalized-Ped-Norm	408,742	399.855	32,095,354			399.855			Actual amount of tax interest capitalized Actual amount of tax interest capitalized
Tax Interest Capitalized-MD-Norm-Incurred-CWIP	311.239	313.896	313.896			313.896			Actual amount of tax interest capitalized
Tax Interest Capitalized-PA-Norm	683,025	678.184	678.184			678.184			Actual amount of tax interest capitalized
Tax Interest Capitalized-PA-Norm-Incurred-CWIP	1,031,080	1,042,130	1,042,130			1,042,130			Actual amount of tax interest capitalized
Tax Interest Capitalized-VA-Norm	488,748	478,967	478,967			478,967			Actual amount of tax interest capitalized
Tax Interest Capitalized-VA-Norm-Incurred-CWIP	334,330	337,100	337,100			337,100			Actual amount of tax interest capitalized
Tax Interest Capitalized-WV-Norm	2,616,645	2,568,386	2,568,386			2,568,386			Actual amount of tax interest capitalized
Tax Interest Capitalized-WV-Norm-Incurred-CWIP	2,579,782	2,595,865	2,595,865			2,595,865			Actual amount of tax interest capitalized
Subtotal	251,532,093	236,428,564	236,428,564	-	1,173,826	235,254,738	-	-	
Less FASB 109 included above Less FASB 106 included above	(7,531,112)	(5,648,441)	(5,648,441)	-	-	(5,648,441)	-	-	
Total	259.063.205	242.077.005	242.077.005		1.173.826	240.903.179			
	200,000,200	1-12,077,000	2-12,011,000		1,110,020	_40,000,178			

Instructions for Account 190:

- 1. ADIT items related only to Refail Related Operations are directly assigned to Column C.
 2. ADIT items related only to Non-Electric Operations (e.g., Gas, Water, Sewer) or Production are directly assigned to Column D.
 3. ADIT items related only to Transmission are directly assigned to Column E.
 4. ADIT items related to Plant and not in Columns C, D. & E er directly assigned to Column F.
 5. ADIT items related to Plant and not in Columns C, D. & E F are directly assigned to Column G.
 6. Deferred income taxes arise when items are included in taxable income in different periods than they are included in rates. Therefore, if the item giving rise to the ADIT is not included in the formula, the associated ADIT amount shall be excluded.

PJM TRANSMISSION OWNER

Attachment 1 - Accumulated Deferred Income Taxes (ADIT) Worksheet

A	B1	B2	В3	С	D	E	F	G	
ľ			Tran	s-Allegheny In	terstate Compar	ıy			
ADIT- 282	Beg of Year Balance p274.9.b	End of Year Balance p275.9.k	End of Year Est. for Final Total	Retail Related	Gas, Prod Or Other Related Related	Only Transmission Related Related	Plant Related Related	Labor Related Related	JUSTIFICATION
AG Cizpenses Capitalized Accelerated Tim Depreciation Additional State Depreciation MD Additional State Depreciation PA Additional State Depreciation PA Additional State Depreciation VA Additional State Depreciation VA A	9,478,039 524,573,784 2,863,698 8,191,045 3,989,249 47,583,246 4,207,355	10,790,565 522,172,111 3,219,830 8,827,262 4,347,502 47,664,825 4,157,312	10,790,565 522,172,111 3,219,830 8,827,262 4,347,502 47,664,825 4,157,312			10,790,565 522,172,111 3,219,830 8,827,262 4,347,502 47,664,825 4,157,312			Basis difference relating to ASG expense Additional tax deprecation over boo Temporary difference for additional state depreciation allowed for MD tax retu Temporary difference for additional state depreciation allowed for PA tax retu Temporary difference for additional state depreciation allowed for VA tax retu Temporary difference for additional state depreciation allowed for VA tax retu Temporary difference for additional state depreciation allowed for VM tax return Portion of AFUDC Debt that relates to property and booked to account 28 Temporary difference that is canalizated for book purposes but deductible for tr
Capitalized Vertical Tree Trimming Cost of Removal FASB 195 (Gross-Up Other Basis Differences Sale of Property - Book Gelin or (Loss) TAD Repairs Vegetation Management - Transmission	113,822 (2,478,894) (178,308,361) (32,849,822) (167,759) 3,246,731 (186,970)	136,389 (2,420,551) (178,739,307) (31,387,601) (338,594) 3,019,105 (252,016)	136,389 (2,420,551) (178,739,307) (31,387,601) (338,594) 3,019,105 (252,016)			136,389 (2,420,551) (178,739,307) (31,387,601) (338,594) 3,019,105 (252,016)			purposes Temporary difference arising for removal of plant/property Reclass of the tax portion (gross-up) for property Items included in account 28 Other property related temporary difference Temporary difference reversing book costs for selling propert Repair deduction on capitalized book asset deductible for tax purposes unde Rev. Prioz. 2011-43 Vegetation management transmission corridor capital cost and depreciation expenses required for the regulatory financial statement schedules
Subtotal Less FASB 109 included above Less FASB 106 included above	390,255,164 (178,308,361)	391,196,833 (178,739,307)	391,196,833 (178,739,307)	-	-	391,196,833 (178,739,307) -	- 1	-	

Instructions for Account 282:

- 1. ADIT items related only to Retail Related Operations are directly assigned to Column C.
 2. ADIT items related only to Non-Electric Operations (e.g., Gas, Water, Sewer) or Production are directly assigned to Column D.
 3. ADIT items related only to Transmission are directly assigned to Column F.
 4. ADIT items related to Parta and not in Columns C, D & E are directly assigned to Column F.
 5. ADIT items related to Iburd and not in Columns C, D & Ter are directly assigned to Column F.
 6. ADIT enter selected to labor and not in Columns C, D & Ter are directly assigned to Column G.
 6. Deferred income taxes arise when items are included in taxable income in different periods than they are included in rates. Therefore, if the item giving rise to the ADIT is not included in the formula, the associated ADIT amount shall be excluded.

PJM TRANSMISSION OWNER

Attachment 1 - Accumulated Deferred Income Taxes (ADIT) Worksheet

A	B1	B2	В3	С	D	E	F	G	
			Tran	s-Allegheny In	nterstate Compan	У			
ADIT-283	Beg of Year Balance p276.19.b	End of Year Balance p277.19.k	ind of Year Est. for Final Total	Retail Related	Gas, Prod Or Other Related	Only Transmission Related	Plant Related	Labor Related	JUSTIFICATION
AFUDC Debt-FED-Norm-Reversal-CWIF	-	1							
Chartable Contribution State & Local RTA CIAC-Fed Norm.Reversal-CWIP CIAC-ADD Norm CIAC-ADD Norm.Reversal-CWIP CIAC-ADD Norm.Reversal-CWIP CIAC-YANOrm.Reversal-CWIP CIAC-YANOrm.Reversal-CWIP CIAC-YANOrm.Reversal-CWIP Deferred Charge-EIB FASS II 96 Gross-Iu FASS II 9	2,853 1,892,583 (78,133) 21,814 121,734 14,553 135,495 20,739 17,820,512	3,330 1,993,378 (78,348) 23,936 130,792 16,595 150,367 22,065 24,438,439	3,330 1,993,378 (78,348) 23,936 130,792 16,595 150,367 22,065 24,438,439			3,330 1,993,378 (78,348) 23,936 130,792 16,595 150,367 22,065 24,438,439			Disallowance in current year for charitable deduction due to tax loss, ta: attribute carries forward five years Taxable CIAC Rocated portion of total liabilities relating to captive insuranc Reclass of the tax portion (gross-up) for property items included in account 28
PAA - LT Regulatory Asset Amort	1,186,908	1,142,050	1,142,050		1,142,050				Reflects the adjustments and subsequent amortization of adjusted deb balances associated with the FE/AYE merger
PJM Receivable SC01 Timing Allocation Tax Interest Capitalized-Fed-Norm-Reversal-CWIP	34,784,038 319,254 32,198,345	29,665,465 256,096 32,375,068	29,665,465 256,096 32,375,068			29,665,465 256,096 32,375,068			Comparison of actual to forecast revenues - non-property relater Timing differences related to service company allocation Actual amount of tax interest capitalizer
Tax Interest Capitalized-MD-Norm-Reversal-CWIP Tax Interest Capitalized-PA-Norm-Reversal-CWIP	307,012 1,021,294	310,780 1,037,239	310,780 1,037,239			310,780 1,037,239			Actual amount of tax interest capitalized Actual amount of tax interest capitalized
Tax Interest Capitalized-VA-Norm-Reversal-CWIP Tax Interest Capitalized-WV-Norm-Reversal-CWIP	329,176 2,541,838	332,913 2,566,965	332,913 2,566,965			332,913 2,566,965			Actual amount of tax interest capitalized Actual amount of tax interest capitalized Valuation allowances recorded against state NOL carryforwards not expecte
Valuation Allowance NOL WV	17,926,331	18,117,327	18,117,327			18,117,327			to be realized
Vegetation Management	186,970	252,016	252,016			252,016			Vegetation management transmission corridor capital cost and depreciation expenses required for the regulatory financial statement schedules
Subtotal Less FASB 109 included above Less FASB 106 included above	110,753,315 17,820,512	112,756,474 24,438,439	112,756,473 24,438,439	-	1,142,050	111,614,423 24,438,439	-	-	
Total	92,932,803	88,318,035	88,318,034	-	1,142,050	87,175,984	•	-	

Instructions for Account 283:

- ADIT items related only to Retail Related Operations are directly assigned to Column C.
 ADIT items related only to Non-Electric Operations (e.g., Gas, Water, Sewer) or Production are directly assigned to Column D.
 ADIT items related only to Transitions are directly assigned to Column E.
 ADIT items related to Plant and not in Columns C, D & E are directly assigned to Column F.
 ADIT items related to blant and not in Columns C, D as T are directly assigned to Column F.

8. Deferred income taxes arise when items are included in taxable income in different periods than they are included in rates. Therefore, if the item giving rise to the ADIT is not included in the formula, the associated ADIT amount shall be excluded.

Attachment 2 - Taxes Other Than Income Worksheet

Othe	er Taxo	es	FERC Form No.1 page, line & Col	Amount	Allocator	Allocated Amount
	Plant	Related		Gros	ss Plant Allocato	r
1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0		2018 State Property WV 2019 State Property PA (PURTA) 2018 State Property PA (PURTA) 2018 Local Property WV 2019 Local Property WV 2019 Local Property WV 2019 Local Property VA 2019 Local Property PA 2018 Local Property MD 2019 Local Property MD	p263.32(i) p263.33(i) p263.21(i) p263.22(i) p263.1.1(i) p263.1.2(i) p263.1.5(i) p263.1.8(i) p263.1.11(i) p263.1.11(i)	5,488,280 5,644,783 (1,526) 33,526 4,749 5,157 1,686,135 4,730 731,317 7777,394	100.0000% 100.0000% 100.0000% 100.0000% 100.0000% 100.0000% 100.0000% 100.0000% 100.0000%	\$ 5,488,280 5,644,783 (1,526) 33,526 4,749 5,157 1,686,135 4,730 731,317 777,394
3	Total	Plant Related	_	14,374,545	100.0000%	14,374,545
		r Related			& Salary Alloca	
4 5 6 7		Accrued Federal FICA MD Filing Fee Federal - Excise Federal - Other		0 300 1,591 37,403		
8	Total	Labor Related	_	39,294	100.0000%	39,294
	Othe	r Included		Gros	ss Plant Allocato	r
9		State Sales/Use Tax PA	p263.18(i)	108	100.0000%	108
10 11				0 0		0 0
12	Total	Other Included		108	100.0000%	108
13	Total	Included (Lines 4 + 8 + 12)	_	14,413,947	_	14,413,947 Input to Appendix A, Line 82
	Retai	il Related Other Taxes to be Excluded				
14 15 16 17 18		Federal Income Tax Corporate Net Income Tax MD Corporate Net Income Tax PA Corporate Net Income Tax VA Corporate Net Income Tax WV	p263.2(i) p263.10(i) p263.16(i) p263.26(i) p263.30(i)	10,337,733 204,162 1,510,556 203,969 4,568,872		
			_			
19		Subtotal, Excluded		16,825,292		
20		, Included and Excluded (Line 13 + Line 19		31,239,239		
	Total	Other Taxes from p114.14.c	_	14,413,947		
22		Difference (Line 20 - Line 21)		16,825,292		

- Other taxes that are incurred through ownership of plant including transmission plant will be allocated based on the Gross Plant Allocator. If the taxes are 100% recovered at retail they shall not be included.
- Other taxes that are incurred through ownership of only general or intangible plant will be allocated based on the Wages and Salary В Allocator. If the taxes are 100% recovered at retail they shall not be included.
- Other taxes that are assessed based on labor will be allocated based on the Wages and Salary Allocator.

 Other taxes except as provided for in A, B and C above, that are incurred and (1) are not fully recovered at retail or (2) are directly or indirectly related to transmission service will be allocated based on the Gross Plant Allocator; provided, however, that D
- overheads shall be treated as in footnote B above.

 Excludes prior period adjustments in the first year of the formula's operation and reconciliation for the first year. Е

	Attachment 3 - Revenue Credit Workpaper		Amount	FERC Form No.1 page, line & Col
	Account 454 - Rent from Electric Property			
1 2	Rent from Electric Property - Transmission Related (Note 3) Total Rent Revenues	(Line 1)	-	Page 300 Line: 19 Column: b
	Account 456 - Other Electric Revenues (Note 1)			
	Schedule 1A Net revenues associated with Network Integration Transmission Service (NITS) for which the load is not included in the divisor (difference between NITS credits from PJM and PJM NITS charges paid by Transmission Owner) (Note 4)		-	p328-330
5 6 7 8 9 10	Point to Point Service revenues for which the load is not included in the divisor received by Trans PJM Transitional Revenue Neutrality (Note 1) PJM Transitional Market Expansion (Note 1) Professional Services (Note 3) Revenues from Directly Assigned Transmission Facility Charges (Note 2) Rent or Attachment Fees associated with Transmission Facilities (Note 3)	smission Owner	1,670,301 - -	Footnote Data Schedule Page: 328 Line: 1 Column: m
11		(Sum Lines 2-10)	1,670,301	
	Less line 14g Total Revenue Credits	(Line 11 - Line 12)	1,670,301	Input to Appendix A, Line 131
	Revenue Adjustment to determine Revenue Credit			
14b 14c 14d 14e 14f	Revenues associated with lines 14b-g are to be included in lines 2-10 and total of those revenues entered here Costs associated with revenues in line 14a Net Revenues (14a - 14b) 50% Share of Net Revenues (14c / 2) Costs associated with revenues in line 14a that are included in FERC accounts recovered through the formula times the allocator used to functionalize the amounts in the FERC account to the transmission service at issue. Net Revenue Credit (14d + 14e) Line 14a less line 14f		- - - - - -	
15	Amount offset in line 4 above		-	
16	Total Account 454 and 456		1,670,301	
47				

- 17 Note 1: All revenues related to transmission that are received as a transmission owner (i.e., not received as a LSE), for which the cost of the service is recovered under this formula, except as specifically provided for elsewhere in this Attachment or elsewhere in the formula will be included as a revenue credit or included in the peak on line 178 of Appendix A.
- 18 Note 2: If the costs associated with the Directly Assigned Transmission Facility Charges are included in the Rates, the associated revenues are included in the Rates. If the costs associated with the Directly Assigned Transmission Facility Charges are not included in the Rates, the associated revenues are not included in the Rates.
- Note 3: Ratemaking treatment for the following specified secondary uses of transmission assets: (1) right-of-way leases and leases for space on transmission facilities for telecommunications; (2) transmission tower licenses for wireless antennas; (3) right-of-way property leases for farming, grazing or nurseries; (4) licenses of intellectual property (including a portable oil degasification process and scheduling software); and (5) transmission maintenance and consulting services (including energized circuit maintenance, bigh-voltage substation maintenance, safety training, transformer oil testing, and circuit breaker testing) to other utilities and large customers (collectively, products). Company will retain 50% of net revenues consistent with Pacific Gas and Electric Company, 90 FERC ¶ 61,314. Note: in order to use lines 14a 14g, the utility must track in separate subaccounts the revenues and costs associated with each secondary use (except for the cost of the associated income taxes).
- 20 Note 4: If the facilities associated with the revenues are not included in the formula, the revenue is shown here, but not included in the total above and explained in the Cost Support. For example revenues associated with distribution facilities. In addition Revenues from Schedule 12 of the PJM OATT are not included in the total above to the extent they are credited under Schedule 12 of the PJM OATT.

Attachment 4 - Calculation with Incentive ROE

Α

Return and Taxes at High End of the range of Reasonableness Return and Taxes at High End of the range of Reasonableness (Sum Lines 26 and 33 from below) 174,852,649 Input to Appendix A, Line 140

Difference between Base ROE and Incentive ROE

Return Ca	alculation			
			Source Reference	
1	Rate Base		Appendix A, Line 46	1,459,228,612
2	Preferred Dividends	enter positive	Appendix A, Line 84	0
	Common Stock			
3	Proprietary Capital		Appendix A, Line 85	934,033,865
4	Less Accumulated Other Comprehensive Income Account	nt 219	Appendix A, Line 86	0
5	Less Preferred Stock		Appendix A, Line 87	0
6	Less Account 216.1		Appendix A, Line 88	0
7	Common Stock		Appendix A, Line 89	934,033,865
	Capitalization			
8	Long Term Debt		Appendix A, Line 90	624,783,740
9	Less Unamortized Loss on Reacquired Debt		Appendix A, Line 91	0
10	Plus Unamortized Gain on Reacquired Debt		Appendix A, Line 92	0
11			Appendix A, Line 93	0
12	Total Long Term Debt		Appendix A, Line 94	624,783,740
13	Preferred Stock		Appendix A, Line 95	0
14 15	Common Stock Total Capitalization		Appendix A, Line 96 Appendix A, Line 97	934,033,865 1,558,817,605
15	Total Capitalization		Appendix A, Line 97	1,556,617,605
16	Debt %	Total Long Term Debt	Appendix A, Line 98	40.0806%
17	Preferred %	Preferred Stock	Appendix A, Line 99	0.0000%
18	Common %	Common Stock	Appendix A, Line 100	59.9194%
19	Debt Cost	Total Long Term Debt	Appendix A, Line 101	0.0394
20	Preferred Cost	Preferred Stock	Appendix A, Line 102	0.0000
21	Common Cost	Common Stock	12.70%	0.1270
22	Weighted Cost of Debt	Total Long Term Debt (WCLTD)	(Line 16 * 19)	0.0158
23	Weighted Cost of Preferred	Preferred Stock	(Line 17 * 20)	0.0000
24	Weighted Cost of Common	Common Stock	(Line 18 * 21)	0.0761
25	Rate of Return on Rate Base (ROR)		(Sum Lines 22 to 24)	0.0919
26	Investment Return = Rate Base * Rate of Return		(Line 1 * Line 25)	134,087,610
Composi	te Income Taxes			
	Income Tax Rates			
27	FIT=Federal Income Tax Rate		Appendix A, Line 109	21.00%
28	SIT=State Income Tax Rate or Composite		Appendix A, Line 110	7.41%
29	p = percent of federal income tax deductible for state purpo		Appendix A, Line 111	0.00%
30		SIT) * (1 - FIT)] / (1 - SIT * FIT * p)} =	Appendix A, Line 112	26.85%
31	T/ (1-T)		Appendix A, Line 113	36.71%
32	Income Tax Component = CIT=(T/1-T) * Investment Return * (1-(WCLTD/R)) =		40,765,039
33	Total Income Taxes		(Line 32)	40.765.039
-	1000		<u> </u>	-10,1 30,000

Attachment 5 - Cost Support

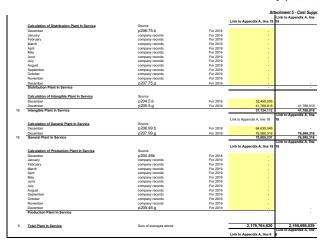
lant in Service Worksheet				**													
Attachment A Line #s	s, Descriptions, Notes, Form 1 Page #s and Instruc	tions															
			13 Month Balance for Reconciliation	EOY Balance for Estimate													
Calculation of Transmission Plant In Service	Source		Total	Total	Black Oak	Wylie Ridge	502 Junction - Territorial Line	Potter SS	OsageWhiteley	Meadowbrook Transformer	North Shenandouh	Bedington Transformer	Meadowbrook Capacitor	Kammer		Doubs #3 Trans	Doubs #4 Trans
December	p206.58.b	For 2018	2,064,865,510		48,015,763	17,653,081	1,077,052,743	2,022,554	24,555,348	8,206,718	1,923,902	7,723,538	6,486,620	39,590,645			
January	company records	For 2019	2,064,979,040		48,016,355	17,653,081	1,077,067,151	2,022,554	24,555,348	8,206,718	1,923,902	7,723,538	6,486,620	39,590,645			
February	company records	For 2019	2,065,243,790		48,016,355	17,653,081	1,077,095,461	2,022,554	24,555,348	8,206,718	1,923,902	7,723,538	6,486,620	39,590,645			
Merch	company records	For 2019	2,065,437,803		48,016,355	17,653,081	1,077,053,365	2,022,554	24,555,348	8,206,718	1,923,902	7,723,538	6,486,620	39,590,645			
April	company records	For 2019	2,066,190,561		48,601,167	17,653,081	1,077,076,550	2,022,554	24,555,348	8,206,718	1,923,902	7,723,538	6,486,620	39,590,645			
May	company records	For 2019	2,076,367,489		48,666,046	17,691,806	1,076,933,967	2,022,554	24,555,348	8,206,718	1,923,902	7,723,538	6,486,620	39,590,645	5,149,271	4,686,053	3 5,691,357
June	company records	For 2019	2,077,271,835		48,677,385	17,692,285	1,076,974,216	2,022,554	24,555,348	8,206,718	1,923,902	7,723,538	6,486,620	39,590,645			
July	company records	For 2019	2,073,738,935		48,678,125	17,694,616	1,071,752,683	2,022,554	24,555,348	8,206,718	1,923,902	7,723,538	6,486,620	39,590,645	5,149,271	4,686,053	3 5,691,357
August	company records	For 2019	2,076,968,783		48,678,449	17,693,615	1,071,819,098	2,022,554	24,555,348	8,206,718	1,923,902	7,723,538	6,486,620	39,590,645	5,149,271	4,686,053	3 5,691,357
September	company records	For 2019	2,075,002,187		48,678,449	17,693,615	1,071,772,359	2,022,554	24,555,348	8,206,718	1,923,902	7,723,538	6,486,620	39,590,645			
October	company records	For 2019	2,076,028,393		48,680,062	17,797,663	1,071,782,050	2,022,554	24,555,348	8,206,718	1,923,902	7,723,538	6,486,620	39,590,645	5,149,271	4,686,053	3 5,691,357
November	company records	For 2019	2,077,033,685		48,682,026	17,798,987	1,071,740,737	2,022,554	24,555,718	8,206,718	1,923,902	7,723,538	6,486,620	39,590,645	5,149,271	4,686,053	3 5,691,357
December	p207.58.g	For 2019	2,077,329,305	2,077,329,305	48,682,193	17,800,890		2,022,554	24,556,015	8,206,718	1,923,902	7,723,538	6,486,620	39,613,808	5,149,271	4,686,053	
15 Transmission Plant In Service	-	-	2,072,035,178	2,077,329,305	48,468,365	17,702,222	1,074,601,067	2,022,554	24,555,428	8,206,718	1,923,902	7,723,538	6,486,620	39,592,427	5,149,271	4,686,053	3 5,691,357

					Details												
				13 Month	Plant Balance For recor	ciliation											
Cabot SS	Armstrong	Farmers Valley Capacitor	Harvey Run Capacitor	Doubs SS	Meadowbrook SS	Grandview Capacitor	502 Jct Substation C	onemaugh-Seward	Luxor	Grandpoint & Guilford	Handsome Lake - Homer City	Altoona	Blairsville	Carbon Center	Hunterstown	Johnstown	Buffalo Road
7,119,470	15,623,574	2,067,321	832,202	5,037,644	61,700,885	657,191	14,045,826	27,749,628	1,199,446	1,781,380	12,863,994	36,258,335	3,327,672	569,408	43,993,222	4,942,684	438,837
7,119,470	15,623,574	2,067,321	832,202	5,037,644	61,701,346	657,191	14,104,069	27,749,628	1,199,446	1,781,380	12,863,994	36,258,335	3,327,672	569,408	43,993,222	4,942,684	438,837
7,119,470	15,623,574	2,067,321	832,202	5,037,644	61,701,384	657,191	14,219,320	27,753,858	1,199,446	1,781,380	12,863,994	36,258,335	3,327,672	569,408	43,993,222	4,942,684	438,837
7,119,470	15,623,574	2,067,321	832,202	5,037,644	61,701,384	657,191	14,228,429	27,754,909	1,199,446	1,781,380	12,863,994	36,258,335	3,327,672	569,408	43,993,222	4,942,684	438,837
7,119,470	15,623,574	2,067,321	832,202	5,037,644	61,701,384	657,191	14,227,117	27,754,909	1,199,446	1,781,380	12,863,994	36,258,335	3,327,672	569,408	43,993,222	4,942,684	438,837
7,119,470	15,623,574	2,067,321	832,202	5,037,644	61,701,384	657,191	14,227,182	27,754,909	1,199,446	1,781,380	12,863,994	36,258,335	3,327,672	569,408	43,993,222	4,942,684	438,837
7,290,133	15,623,574	2,067,321	832,202	5,037,644	61,701,758	657,191	14,406,461	27,754,909	1,199,446	1,781,380	12,863,994	36,258,335	3,327,672	569,408	43,993,222	4,942,684	438,837
7,293,343	15,623,574	2,067,321	832,202	5,037,644	61,522,461	657,191	14,689,532	27,754,909	1,199,446	1,781,380	12,863,994	36,258,335	3,327,672	569,408	43,993,222	4,942,684	438,837
7,294,074	15,623,574	2,067,321	832,202	5,037,644	61,522,461	657,191	14,698,144	27,754,909	1,199,446	1,781,380	12,863,994	36,258,335	3,327,672	569,408	43,993,222	4,942,684	438,837
7.294.083	15.623.574	2.067.321	832.202	5.024.491	61.508.542	657,191	14,701,061	27,754,909	1,199,446	1.781.380	12.863.994	36.258.335	3.327.672	569.408	43.982.577	4.942.684	438.837
7,294,083	15,623,574	2,067,321	832,202	5,024,491	61,508,542	657,191	14,708,062	27,754,909	1,199,446	1,781,380	12,863,994	36,258,335	3,327,672	569,408	43,982,577	4,942,684	438,837
7,294,083	15,623,574	2,067,321	832,202	5,024,491	61,508,542	657,191	14,709,645	28,187,936	1,199,446	1,781,380	12,863,994	36,258,335	3,327,672	569,408	43,982,577	4,942,684	438,837
7,294,216	15,623,574	2,067,321	832,202	5,024,491	61,511,353	657,191	14,710,388	28,310,807	1,199,446	1,781,380	12,863,994	36,258,335	3,327,672	569,408	43,982,577	4,942,684	438,837
7,213,141	15,623,574	2,067,321	832,202	5,033,597	61,614,725	657,191	14,436,557	27,830,087	1,199,446	1,781,380	12,863,994	36,258,335	3,327,672	569,408	43,989,946	4,942,684	438,837

																									,	
										Johnstown SS											Farmers Valley					
Moshannon	Waldo Run	Four Mile Junction	West Union SS	Shuman Hill/Mobley	Bartonville	Squab Hollow SS	Squab Hollow SVC	Shingletown	Claysburg Ring Bus	Capacitor	Grover Sub	Rider Sub	Shawville	Monocacy SS	Mainsburg SS	Yeagertown	Nyswaner	Oak Mound	Joffre SS	Erie South	Substation	Richwood Hill	Damascus SS	Warren Substation	Piercebrook SS	Total
7,527,658	56,898,736	9,675,169	891,283	1,490,386	692,272	18,700,194	31,318,256	1,754,277	7,730,920	1,368,881	885,549	17,051,809	2,268,540	38,181,684	24,406,615	1,135,027	936,641	109,702,735	47,527,235	46,559,408	39,329,186	74,371,634	1,258,969	23,983,202	10,252,935	2,064,865,510.08
7,527,658	56,939,270	9,675,169	891,283		692,272	18,700,194	31,318,256	1,754,277		1,368,881	885,549	17,051,936	2,268,540	38,181,684	24,406,615	1,135,027	936,641	109,699,373	47,527,264	46,559,408	39,330,955	74,372,639	1,258,969	23,983,202	10,252,659	2,064,979,040.03
7,527,658	56,921,278	9,675,169	891,283		692,272	18,700,194	31,318,256	1,754,277		1,368,881	885,549	17,051,936	2,268,540	38,181,684	24,508,417	1,135,027	936,641	109,727,630	47,530,713	46,559,619	39,331,309	74,373,579	1,258,969	23,983,202	10,252,559	2,065,243,790.27
7,527,658	56,955,395	9,675,169	891,283		692,272	18,700,194	31,318,256	1,754,277		1,368,881	885,549	17,054,807	2,268,540	38,181,684	24,547,839	1,135,027	936,641	109,871,566	47,530,742	46,559,704	39,334,521	74,374,519	1,258,969	23,983,202	10,253,898	2,065,437,803.44
7,407,254	56,952,818	9,675,169	891,283		692,272	18,700,194	31,318,256	1,754,277		1,368,881	885,549	17,063,218	2,268,540	38,181,684	24,544,702	1,135,027	936,641	110,131,150	47,531,631	46,560,706	39,333,640	74,375,459	1,258,969	23,983,202	10,256,142	2,066,190,561.26
7,527,658	56,954,783	9,675,169	891,283		692,272	18,700,194	31,318,256	1,754,277		1,368,881	885,549	17,069,893	2,268,540	38,181,684	34,318,057	1,135,027	936,641	110,380,300	47,531,831	46,561,598	39,333,293	74,376,399	1,258,969	23,983,202	10,318,749	2,076,367,488.84
7,527,658	56,957,162	9,675,169	891,283		692,272	18,700,194	31,318,256	1,754,277	7,730,920	1,368,881	885,549	17,070,244	2,268,540	38,181,684	34,369,810	1,135,027	936,641	110,722,288	47,540,905	46,560,937	39,333,553	74,377,339	1,258,969	23,983,202	10,414,630	2,077,271,835.42
7,527,658	58,119,235	9,675,169	891,283		692,272	18,700,194	31,318,256	1,754,277		1,368,881	885,549	17,070,244	2,268,540	38,181,684	34,623,005	1,135,027	936,641	111,073,790	47,540,962	46,562,068	39,113,424	74,378,279	1,258,969	23,981,837	10,445,805	2,073,738,935.31
7,527,658	58,390,445	9,675,169	891,283		692,272	18,700,194	31,318,256	1,754,277		1,368,881	885,549	18,472,708	2,268,540	38,181,684	34,767,814	1,135,027	936,641	111,598,404	47,540,991	46,562,068	39,113,424	74,379,219	2,081,326	23,981,837	10,434,147	2,076,968,783.35
7,527,658	58,589,741	9,675,169	891,283		692,272	18,700,194	31,318,256	1,754,277	7,730,920	1,368,881	885,549	18,587,639	2,268,540	38,181,684	32,537,825	1,135,027	936,641	111,628,308	47,541,019	46,561,543	39,113,424	74,380,159	2,081,326	23,981,837	10,434,495	2,075,002,186.82
7,527,658	58,928,602	9,675,169	891,283		692,272	18,700,194	31,318,256	1,754,277		1,368,881	885,549	18,750,561	2,268,540	38,181,684	32,625,847	1,135,027	936,641	111,941,389	47,541,048	46,561,543	39,113,424	74,381,035	2,081,326	23,981,837	10,434,539	2,076,028,392.63
7,527,658	59,342,866	9,675,169	891,283	1,490,386	692,272	18,700,194	31,318,256	1,754,277	7,730,920	1,368,881	885,549	18,766,375	2,268,540	38,181,684	32,685,596	1,135,027	936,641	112,059,107	47,541,076	46,561,543	39,113,989	74,382,269	2,081,326	23,980,835	10,434,526	2,077,033,685.22
7,527,658	59,422,060	9,675,169	891,283	1,490,386	692,272	18,700,194	31,318,256	1,754,277	7,730,920	1,368,881	885,549	18,774,188	2,268,540	38,181,684	32,723,289	1,135,027	936,641	112,108,084	47,541,270	46,563,951	39,113,989	74,383,145	2,081,326	23,994,428	10,434,551	2,077,329,305.00

1 702 521 011

Trans-Allegheny Interstate Line (



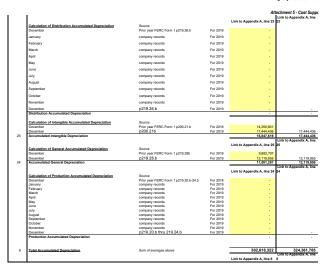
Attachment 5 - Cost Support

1																			
Acc	cumulat	ed Depreciation Worksheet																	
Atta	achment	A Line #s, Descriptions, Notes, Form 1 Page #s and Instructions																	
					13 Month Balance for Reconciliation	EOY Balance for Estimate													
												Meadowbrook		Redinaton	Meadowbrook				
		Calculation of Transmission Accumulated Depreciation	Source				Black Oak	Wylie Ridge	502 Junction - Territorial Line	Potter SS	Osage Whiteley	Transformer	North Shenandoah	Transformers	Capacitor	Kammer	Doubs #2 Trans	Doubs #3 Trans	Doubs #4 Trans
		December	Prior year FERC Form 1 p219.25.b	For 2018	256,283,793		14,932,722	(318,151		208,059	3,139,821	1,730,351	322,372	1,598,481	1,310,402	7,659,200	793,356	650,544	
		January	company records	For 2019	260,016,780		15,049,468	(270,062	167,372,359	210,924	3,187,397	1,744,502	325,739	1,611,998	1,322,492	7,728,484	801,263		
		February	company records	For 2019	263,677,911		15,166,214	(221,973	169,145,078	213,789	3,234,974	1,758,654	329,108	1,625,514	1,334,582	7,797,767	809,171		
		March	company records	For 2019	267,330,968		15,282,960	(173,884	170,909,398	216,655	3,282,551	1,772,808	332,473	1,639,030	1,346,672	7,867,051	817,078		
		April	company records	For 2019	270,974,936		15,400,221	(125,795	172,663,674	219,520	3,330,215	1,786,958	335,840	1,652,546	1,358,762	7,936,334	824,986		
		May	company records	For 2019	274,603,061		15,518,064	(77,672	174,392,307	222,385	3,377,969	1,801,110	339,208	1,686,062	1,370,853	8,005,618	832,893		1,255,039
		June	company records	For 2019	278,574,031		15,635,954	(29,515	176,454,091	225,250	3,425,730	1,815,261	342,573	1,679,579	1,382,943	8,074,902	840,801		
		July	company records	For 2019	276,333,058		15,742,363	18,644	172,543,670	228,116	3,473,501	1,829,413	345,940	1,693,095	1,395,033	8,144,185	848,708		
		August	company records	For 2019	280,158,178		15,860,274	66,805	174,333,345	230,981	3,521,287	1,843,265	349,307	1,706,611	1,407,123	8,213,469	856,616		
		September	company records	For 2019	283,755,359		15,976,961	114,965	176,126,286	233,846	3,569,085	1,856,817	352,674	1,720,127	1,419,213	8,282,753	864,523		
1		October	company records	For 2019	287,408,100		16,094,874	163,216	177,875,771	238,711	3,616,888	1,870,369	356,040	1,733,643	1,431,303	8,352,036	872,431		
		November	company records	For 2019	291,088,830		16,212,791	211,559	179,639,439	239,577	3,664,702	1,883,920	359,407	1,747,159	1,443,394	8,421,320	880,339		
		December	p219.25.b	For 2019	294,797,494	294,797,494	16,330,709	259,905	181,429,776	242,442	3,712,541	1,897,472	362,774	1,760,676	1,455,484	8,490,624	888,246		
1	23	Transmission Accumulated Depreciation			275,769,423	294,797,494	15,631,043	(29,381)	173,724,064	225,250	3,425,897	1,814,684	342,573	1,679,579	1,382,943	8,074,903	840,801	687,398	1,267,503

					Details												
				13 Mont	h Balance For Reconcil	iation											
		Farmers Valley	Harvey Run			Grandview				Grandpoint &	Handsome Lake -						
Cabot SS	Armstrong	Capacitor	Capacitor	Doubs 88	Meadowbrook SS	Capacitor	502 Jct Substation	Conemaugh-Seward	Luxor	Guilford	Homer City	Altoona	Blairsville	Carbon Center	Hunterstown	Johnstown	Buffalo Road
991,344	1,506,209	97,608	83,739	497,383	5,777,670	72,678	751,548	2,737,477	108,844	169,707	1,288,106	3,418,252	315,517	52,552	4,188,927	465,989	40,491
1,003,803	1,533,920	99,249	85,195	506,068	5,883,913	73,829		2,791,623	110,956	172,813	1,311,154	3,481,704	321,340	53,548	4,265,915	474,639	41,259
1,016,263	1,561,632	100,890	88,652	514,753	5,990,156	74,980		2,845,772	113,068	175,919		3,545,158	327,164	54,545	4,342,903	483,289	42,027
1,028,722	1,589,343	102,531	88,108	523,438	6,096,400	76,132		2,899,925	115,180	179,025		3,608,608	332,987	55,541	4,419,891	491,938	42,795
1,041,182	1,617,055	104,172	89,564	532,123	6,202,643	77,283	793,059	2,954,080	117,292	182,130	1,380,299	3,672,060	338,810	56,538	4,496,879	500,588	43,563
1,053,642	1,644,766	105,813	91,021	540,808	6,308,886	78,434		3,008,235	119,404	185,236	1,403,347	3,735,512	344,634	57,534	4,573,867	509,238	44,331
1,066,251	1,672,478	107,454	92,477	549,493	6,415,129	79,585	813,814	3,062,389	121,516	188,342	1,426,395	3,798,964	350,457	58,531	4,650,856	517,888	45,099
1,079,012	1,700,189	109,094	93,934	558,178	6,521,373	80,736	824,192	3,116,544	123,628	191,448	1,449,444	3,862,416	356,281	59,527	4,727,844	526,537	45,867
1.091.776	1.727.901	110.735	95.390	566.863	6.627.616	81.887	834.569	3,170,698	125.740	194,554	1,472,492	3,925,868	362.104	60.524	4.804.832	535.187	46,635
1,104,542	1,755,612	112,376	96,846	575,548	6,694,473	83,038	844,947	3,224,853	127,853	197,660	1,495,540	3,989,320	367,927	61,520	4,881,811	543,837	47,403
1.117.307	1.783.324	114,017	98.303	584.218	6.800.717	84,190	855,325	3,279,008	129.965	200.766	1.518.589	4.052.772	373.751	62.517	4.958.780	552,486	48,171
1.130.072	1.811.035	115.658	99.759	592.887	6,906,960	85.341	865,702	3,333,541	132.077	203.872	1.541.637	4.116.224	379.574	63.513	5.035.750	561,136	48,939
1,142,837	1,838,747	117,299	101,215	601,557	7,013,203	86,492	876,060	3,388,561	134,189	206,977	1,564,686	4,179,676	385,398	64,509	5,112,719	569,786	49,707
													160 467				45 000

											Johnstown SS											Farmers Valley					
M	oshannon	Waldo Run	Four Mile Junction	West Union SS	Shuman Hill/Mobley	Bartonville	Squab Hollow SS	Squab Hollow SVC	Shingletown	Claysburg Ring Bus	Capacitor	Grover Sub	Rider Sub	Shawville	Monocacy 88	Mainsburg SS	Yeagertown	Nyswaner	Oak Mound	Joffre SS	Erie South	Substation	Richwood Hill	Damascus 88	Warren Substation	Piercebrook SS	Total
	585,593	5,599,960	777,589	76,759	104,244	41,924	1,598,554	3,031,510	149,594	578,547	98,770	40,381	1,395,044	161,817	2,584,308	1,325,014	74,701	59,956	4,038,734	2,127,724	3,577,260	2,107,930	3,884,687	41,580	778,088	131,976	256,283,793
	598,767	5,724,550	793,482	78,318	106,867	43,135	1,638,743	3,108,353	153,272	592,146	101,166	41,323	1,436,144	165,735	2,651,126	1,359,984	76,688	61,595	4,211,262	2,231,804	3,691,955	2,177,314	4,039,222	43,783	820,066	149,919	260,016,780
	611,940	5,849,161	809,375	79,878	109,490	44,347		3,185,197	156,949		103,561	42,266	1,477,245	169,652	2,717,944	1,395,043	78,674	63,234	4,383,813	2,335,887	3,806,650	2,246,701	4,193,760	45,986	862,044	167,861	263,677,911
	625,114	5,973,788	825,268	81,438	112,113	45,558	1,719,121	3,262,040	160,627	619,345	105,957	43,208	1,518,351	173,570	2,784,761	1,430,226	80,660	64,873	4,556,530	2,439,973	3,921,345	2,316,091	4,348,299	48,189	904,022	185,803	267,330,968
	638,182	6,098,442	841,161	82,998	114,738	46,770	1,759,310	3,338,884	164,304	632,945	108,352	44,150	1,559,465	177,487	2,851,579	1,465,441	82,646	66,512	4,729,630	2,544,060	4,036,042	2,385,482	4,502,839	50,393	946,000	203,749	270,974,936
	651,250	6,223,096	857,054	84,557	117,359	47,981	1,799,490	3,415,728	167,962	646,544	110,748	45,092	1,600,586	181,405	2,918,397	1,509,205	84,633	68,151	4,903,217	2,648,148	4,150,741	2,454,872	4,657,381	52,596	987,978	221,752	274,603,061
	664,423	6,347,755	872,947	88,117	119,982	49,193	1,839,680	3,492,571	171,659	660,144	113,143	46,034	1,641,715	185,323	2,985,215	1,561,565	86,619	69,790	5,077,378	2,752,244	4,265,440	2,524,262	4,811,925	54,799		239,894	278,574,031
	677,596	6,473,434	888,840	87,677	122,605	50,404	1,879,878	3,569,415	175,337	673,743	115,539	46,977	1,682,844	189,240	3,052,033	1,614,193	88,605	71,430	5,252,220	2,856,347	4,380,138	2,593,652	4,966,470	57,002	1,071,933	27,648	276.333.058
	690,770	6,600,367	904,732	89,237	125,228	51,616	1,920,067	3,646,258	179,014	687,343	117,934	47,919	1,725,095	193,158	3,118,851	1,667,168	90,592	73,069	5,427,938	2,960,451	4,494,839	2,662,657	5,121,017	179,940	1,113,908	46,226	280,158,178
	703,943	6,727,712	920,625	90,796	127,851	52,827	1,960,256	3,723,102	182,691	700,942	120,330	48,861	1,768,561	197,076	3,185,669	1,662,227	92,578	74,708	5,604,325	3,064,555	4,609,540	2,731,662	5,275,565	183,582	1,155,884	64,559	283.755.359
	717,117	6,855,529	936,518	92,356	130,474	54,039	2,000,445	3,787,918	186,369	714,542	122,726	49,803	1,812,250	200,993	3,252,487	1,711,504	94,564	76,347	5,781,100	3,168,659	4,724,239	2,800,667	5,430,115	187,224	1,197,859	82,819	287.408.100
	730,290	6.984.004	952.411	93,916	133.097	55.250	2,040,634	3.864.762	190,046	728,141	125,121	50.746	1.856.084	204.911	3,319,305	1,760,910	96.551	77.966	5,968,235	3.272.763	4.838.939	2.869.672	5,584,666	190.867	1,239,834	101,080	291.088.830
	743,463	7,112,912	968,304	95,478	135,720	56,462	2,080,824	3,941,605	193,724	741,741	127,517	51,688	1,899,938	208,828	3,386,123	1,810,402	98,537	79,625	6,135,540	3,376,867	4,953,642	2,938,678	5,739,219	194,509	1,281,820	119,344	294,797,494
	664 496	6 351 593	872 947	86 117	119 982	49 193	1 839 689	3 489 796	171 659	660 144	113 143	46 034	1 544 101	185 323	2 985 215	1 559 453	86 619	69 790	5 081 532	2 752 268	4 265 444	2 523 818	4 811 936	102 342	1 029 953	134 048	275 769 423

Trans-Allegheny Interstate Line (



Attachment 5 - Cost Support

Electric /	Non-ele	etric Cos	t Support

Electric / Non-electric Cost Support					
Link to Appendix A, line #s, Descriptions, Notes, Form 1 Page #s and Instructi	ons	Form 1 Amount Electric Portion	Non-electric Portion	Details	
Materials and Supplies 40 Traversion Materials & Supplies 31 Underhalded Slower Suppries Allocated General Expenses 51 Push Persyl (John Capilal Leases 0 0	p227.8 p227.16 p200.4.c	Beg of year End of Year (for estimate)	Average of Beginning and Ending Balances		
Transmission / Non-transmission Cost Support					
Link to Appendix A, line \$5, Descriptions, Notes, Form 1 Page \$5 and Instructi 34 Transmission Robited Land Held for Future Use	ONS Total Non-transmission Related	Beg of year End of Year (for estimate)	Average of Beginning and Ending Balances	Consis Entry Desirio Nove	
	Transmission Related		-		
CWIP & Expensed Lease Worksheel					
Link to Appendix A, line #s, Descriptions, Notes, Form 1 Page #s and Instructi	ons	Beg of year CWIP in Form 1 Amount	Expensed Lease in Form 1 Amount	Datalis	
	Attachment 5	2,161,955,160 -	•		
Accumulated Depreciation	Attachment 5	2,064,895,510 -			
	Attachment 5	256,283,793 -			
Pre-Commercial Costs Capitalized Link to Appendix A, line #s, Descriptions, Notes, Form 1 Page #s and Instructi	ons	EOY for Estimate and BOY for Amortization Amount (Over Calculated En Final 4 Years) Balanc	Average of Beginning and Ending Balances of Year (for estimate and reconciliation)		
35 Unamortized Capitalized Pre-Commercial Costs		s - s - s	- \$		
EPRI Dues Cost Support					
Attachment A Line #s, Descriptions, Notes, Form 1 Page #s and Instruction Allocated General & Common Expenses		Beg of year EPRI Dues		Details	
58 Less EPRI Dues (Note D Regulatory Expense Related to Transmission Cost Support	j) p352 & 353	0 0		Enter Details Here	
Regulatory Expense Related to Transmission Cost Support Link to Appendix A, line #s, Descriptions, Notes, Form 1 Page #s and Instructi	0115	Meo-transmi Form 1 Amount Transmission Related Relate		Delah	
Directly Assigned A&G					
	p323.189.b		. Link to Appendix A, line 62	Enter Details Here	
Safety Related Advertising Cost Support					
Link to Appendix A, line #s, Descriptions, Notes, Form 1 Page #s and Instructi Directly Assigned A&G	ons	Form 1 Amount Safety Related Non-safety F	islated	Details	
	p323.191.b		Link to Appendix A, line 66	Enter Details Here	

.....

MultiState Workpaper	Attachment 5 - Cost Support
Link to Appendix A, line #s, Descriptions, Notes, Form 1 Page #s and Instructions	Stork 1 Stork 2 Stork 3 Stork 4 Stork 5 Contails
Income Tax Rates	NO 525% VW 6.5% Ps 5.95% VA 6.0% Composite Co
110 SIT=State Income Tax Rate or Composite (Note H)	Completion Completion in Accordance in the Completion in the Compl
Education and Out Reach Cost Support	
Link to Appendix A, line #s, Descriptions, Notes, Form 1 Page #s and Instructions	Form 1 Amount Education & Outreach Other Details
Directly Assigned A&G 63 General Advertising Exp Account 930.: (Note J) p323.191.b	Enter Details Here
	-
Excluded Plant Cost Support	Excluded Tossensision
Link to Appendix A, line #s, Descriptions, Notes, Form 1 Page #s and Instructions Adjustment to Remove Revenue Requirements Associated with Excluded Transmission Facilities	Facilities Description of the Facilities
126 Excluded Transmission Facilities (Note L)	General Description of the Facilities
Step-Up Facilities	•
Instructions:	Enter 5
Remove all investment below 69 kV or generator step up transformers included in transmission plant in service that	CHART S
are not a result of the RTEP Process	
2 If unable to determine the investment below 69kV in a substation with investment of 69 kV and higher as well as below 69 kV, the following formula will be used: Example	Or Enter's
The following formula will be used: Example A Total investment in substation 1,000,000	Ellar S
B Identifiable investment in Transmission (provide workpaper 500,000	
C Identifiable investment in Distribution (provide workpapers 400,000 D Amount to be excluded (A x (C / (B + C))) 444,444	
	Add more lines if recessary
Prepayments	
Link to Appendix A, line #s, Descriptions, Notes, Form 1 Page #s and Instructions	Average of Beginning Beg of year End of Year and Ending Blances Allocation Transmission Related Details
36 Prepayments	Etilu' \$ Anoust
Prepayments Prepaid Insurance Prepaid Pensions if not included in Prepayments	1,080 247,084 124,082 100% 124,082 0 0 100% 0
Total Prepayments	1,889 247,984 124,082 124,082
Detail of Account 566 Miscellaneous Transmission Expenses Link to Appendix A, line #s, Descriptions, Notes, Form 1 Page #s and Instructions	
	Total Details
70 Amortization Expense on Pre-Commercial Cost	S - Summary of Pre-Commercial Expenses
71 Pre-Commercial Expense 72 Miscellaneous Transmission Expense	1.351,737 Cost Element Name Total
Total Account 566 Miscellaneous Transmission Expenses p.321.97.b	\$ 1,351,737
	Lator & Overhead (1) Mecolateness (2)
	Outside Services Legal (3)
	Outside Services Offers (4) Outside Services Offers (5)
	Advertising (6)
	Travel, Lodging and Meals (7) - Total
	(9) Lador & coverhead amount includes contain activate for payarismany survey and investigation. (2) Moscillamount contain amount includes install of volunties for department fallolise for poor houses, Face EX
	Sees for various mallings from Legal, Procurement, Transmission & Finance, fees for various
	confunence calls and PT Mit against loss for it. (3) Outside load princip induces includes the control for research and proparation of the filing to determine incontine.
	rate availability.
	(4) Other services of their includes been desirable development, modes relations services, comparign management, copies and or search services.
	(5) Outside services rates includes the advice of a rate consultant regarding rate design.
	(ii) Advertising includes neepoper and other media amountements of public scoping meetings related to the proposed principal.
	projector program. (7) Travel, bodging and meals are the direct expenses for Alleghany staff to attand the scoping meditings.
Net Revenue Requirement	
149 Facility Credits under Section 30.9 of the PJM OATT	·

Attachment 5 - Cost Support

Depreciation Rat

ANSMISSION PLANT	Land & Land Rights - Easements Structures & Improvements SVC	Life 70 50		Curve	Percent	Percent	Black Oak	Wylie Ridge	502 Junction - Territorial Mo	adowbrook		Bedington	Meadowbrook	Kammer	Doubs Replacement	Doubs Replacement	Doubs Replacemen
12	Structures & Improvements						and the same of th	муне кюре	Line Tra	insformer	North Shenandoah	Transformer	Capacitor	Transformers	Transformer #2	Transformer #3	Transformer #4
	010	35		R4 R3	0 (10)	1.43 2.20 2.86	18,083		2,474,432 1,305,949								
	Station Equipment Other SVC SCADA	50 Note 1 15	:	R2 80 R2 - 35-yr truncation S3	(5) 0	2.10 2.96 6.67	1,392,630	578,056	868,922	167,122	40,422	162,194	144,892	831,424	94,934	82,962	
	Towers & Fixtures Poles & Fixtures	65 55	:	R4 R2.5	(25) (20)	1.92 2.18			7,293,191 2,909,065								
	Overhead Conductors & Devices Other Clearing	55 70	:	R2.5 R4	(40) 0	2.80 1.43			6,389,047								
I	Underground conduit Underground conductor and devices SVC	55 45 35	:	S3 R3	(5) (5)	1.91 2.33 2.86											

Note 1: Depreciation rate is based on an 80 R2 survivor curve with a 35-year truncation.

						Anni	ual Depreciation Exp	ense					
Cabot SS	Grandview Capacitor	Potter	Osage Whitely	Armstrong	Farmers Valley	Harvey Run	Doubs SS	Meadowbrook SS	502 Jct Substation	Conemaugh-Seward	Luxor	Grandpoint & Guilford	Handsome Lake- Homer City
152	281		14,882	326 2,506	1,255				124,532	2,668	3,450		
151,342	13,533	34,383	110,514	329,706	18,436	17,476	104,080	1,273,246		254,980	21,896	37,270	
													35,708
			96,595							8,428			198,157
			350,730							385,009			42,716
151,494	13,814	34,383	572,721	332,538	19,691	17,476	104,080	1,273,246	124,532	651,084	25,345	37,270	276,580

Altoona	Blairsville	Carbon Center	Hunterstown	Johnstown	Buffalo Road	Moshannon	Waldo Run	Four Mile Junction	West Union SS	Shuman Hill/Mobley	Bartonville	Squab Hollow SS	Squab Hollow SVC	Shingletown	Claysburg Ring Bus	Johnstown SS Capacitor
							89,286	6,328		2,078		153,903			18,586	
761,425	69,881	11,958	923,792	103,796	9,216	157,870	1,313,452	184,387	18,717	29,399	14,538	328,367	922,123	44,130	144,608	28,
							80,158									
							30,048									
761,425	69,881	11,958	923,792	103,796	9,216	157,870	1,512,945	190,716	18,717	31,477	14,538	482,270	922,123	44,130	163,194	

Grover Sub	Rider Sub	Shawville	Monocacy SS	Mainsburg 88	Yeagertown	Nyswaner	Oak Mound	Joffre SS	Erie South	Farmers Valley Substation	Richwood Hill	Damascas SS	Warren Substation	Piercebrook SS	Total
	114,253 57,933							118,517	12,132	248,349	615,812		37,894		2,591,67 2,831,90
11,307	115,021	47,011	801,815	643,503	21,813	19,669	63,162	1,130,625	1,364,251	580,332	1,238,721	33,634	465,838	219,356	18,602,52
	11,386 (644)						866,764								7,420,4 4,078,3
	206,961						1,166,880								8,571,
11,307	504,900	47,011	801,815	543,503	21,813	19,669	2,096,806	1,249,142	1,376,384	828,681	1,854,533	33,634	503,732	219,356	44,096

Attachment 5 - Cost Support

GENERAL PLANT		Life	Survivor Curve	Net Salvage Percent	Accrual Rate (Annual) Percent	Т
390	Structures & Improvements	50	R1	0	2.00	
391	Office Furniture & Equipment	20	SQ	0	5.00	
	Information Systems	10	SQ	0	10.00	
	Data Handling	10	SQ	0	10.00	
392	Transportation Equipment					
	Other	15	SQ	20	5.33	
	Autos	7	S3	20	11.43	
	Light Trucks	11.5	L4	20	6.96	
	Medium Truck	11.5	L4	20	6.96	
	Trailers	18	L1	20	4.44	
	ATV	15	SQ	20	5.33	
393	Stores Equipment	20	SQ	0	5.00	
394	Tools, Shop & Garage Equipment	20	SQ	0	5.00	
396	Power Operated Equipment	18	L1	25	4.17	
397	Communication Equipment	15	SQ	0	6.67	
398 Total General Plant	Miscellaneous Equipment	15	SQ	0	6.67	
Total General Plant Depreciation Expense (must tie to p336.10.b & c)	2,345,101				-	
INTANGIBLE PLANT		Life	Survivor Curve	Net Salvage Percent	Accrual Rate (Annual) Percent	To
INTANGIBLE PLANT		Life	Cuive	reiteilt	Percent	10
303 Total Intangible Plant Total Intangible Plant Amortization (must tie to p396.1 d & e)	Miscellaneous Intangible Plant 3,177,866	5	SQ	0	20.00	-

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

PExpenses

| 1 Total FBOP expenses | 22,856,433 | 2 Amount risting to intend personnel | 8,788,372 | 3 Amount risting to intend personnel | 8,788,372 | 3 Amount aboution of PES | 14,000,611 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | 4

Attachment 5a - Pre-Commercial Costs and CWIP

Step 1 Totals reported below are by project with the amounts to be expensed reported separately from those to be deferred and amortized (note, deferred costs related to 2006 include AFUDC).

For Forecasting purposes, Pre-Commercial expenses will be estimated. Total deferred and amortized Pre-commercial costs will be the actual amount agreeing to FERC Form 1 and Attachment 5.

For each project, where CWIP is to be recovered in rate base, CWIP will be estimated and the totals reported below by project. For the Reconciliation, for each project where CWIP is to be recovered in rate base the CWIP will be itemized by project below. Additionally, the amount of AFUDC that would have been capitalized for projects where CWIP is included in rate base will be reported in the FERC Form No. 1. Step 2

For the Reconcilitation, the total additions to plant in service for that year will be summarized by project to demonstrate no Pre-Commercial costs expensed were included in the additions to plant in service and AFUDC on projects where CW was recovered in rate base was included in the additions to plant in service. The Pre-commercial expenses are actual expenses incurred for the reconcilitation year. Total deferred and amortized Pre-commercial costs will be the actual amount agreeing to FERC Form 1 and Attachment 5.

	Column A	Column B Pre-	Column C Commercial (Column D Costs		Column E CWIP	Column F	Column G
Step 1	For Estimate: Prexy - 502 Junction 138 kV (CWIP) Prexy - 502 Junction 500 kV (CWIP) 502 Junction - Territorial Line (CWIP) Total	Expensed (Estimated)	Deferred -	Amount of Deferred Amortized in Year - - -	Estimate Step	Average of 13 Monthly 2 Balances		
Step 3	For Reconciliation:		-Commercial	Amount of Deferred	For Reconciliation	on CWIP	AFUDC In CWIP	AFUDC (If CWIP was not in Rate Base)
	Prexy - 502 Junction 138 kV (CWIP)	Expensed (Actual)	Deferred	Amortized in Year				
	2		- 1	1		1	1	
	3	-	-	-		-	-	
	4	-		•		-		
	Total	-	-			-	-	
	Prexy - 502 Junction 500 kV (CWIP)							
	1 2	-	-	-		-	-	
	3							
	4	-	-	-		-	-	
	 Total							
	502 Junction - Territorial Line (CWIP)							
	1 2		1			1	1	1
	3	-		-		-		-
	4	-	-	-		-	-	-
	 Total	-				-		-
-	Total Additions to Plant In Service (sum of the above f		Plan Refer to	Attachment 5 - Cost Sunt in Service Workshee Attachment 5 - Cost Sunt in Service Workshee	et upport			
Notes:	Difference (must be zero) 1 Small projects may be combined into larger projects where rate tr on the estimated plant in service of each project.		-Commercial	costs benefiting multipl	le projects will be allocated to	projects based		

Allocation of Pre-Commercial Costs	Plant in Service (Estimated 2/12/2008)	Allocation
Prexy - 502 Junction 138 kV (CWIP)	94,140,000	0.10734
Prexy - 502 Junction 500 Kv (CWIP)	121,260,000	0.13827
502 Junction - Territorial Line (CWIP)	661,600,000	0.75439
Total	877 000 000	1,00000

Attachment 6 - Estimate and Reconciliation Worksheet

Stap Moth Ver Addo

Face Summary

1 April Vear 2 TO populates the formula with Year 1 data

2 April Vear 2 TO adds Cap Adds and CWIP for Year 2 based on each projects cost using the average of 13 monthly balances. Cap Adds are the projects expected to be in service in Year 2.

3 April Vear 2 TO adds Cap Adds and CWIP to plant in service in Formula (Appendix A, Lines 16 and 33)

4 May Vear 2 TO adds Cap Adds and CWIP to plant in service in Formula (Appendix A, Lines 16 and 33)

5 June Vear 2 Results of Step 3 or plA web site

6 April Vear 3 TO estimates all transmission Cap Adds and CWIP during Year 3 based each project's cost using the average of 13 monthly balances. Cap Adds are expected be in service in Year 3.

7 April Vear 3 TO estimates all transmission Cap Adds and CWIP during Year 3 based each project's cost using the average of 13 monthly balances. Cap Adds are expected be in service in Year 3.

8 April Vear 3 Reconciliation - TO estimates all transmission Cap Adds and beginning and end of year balances for the other rate base terms and the 13 monthly averages for CWIP in Reconciliation (adjusted to include any Reconciliation - TO estimates all transmission Cap Adds are expected be in service in Year 3.

8 April Vear 3 Reconciliation - TO estimates either conceived in Step 7 and the forecast in Step 5 with interest to the result of Step 7 (this difference is also added to Step 7 in the subsequent year)

9 May Vear 3 Results of Step 8 or DMI web site

10 June Vear 3 Results of Step 8 or point website.

Reconciliation Detail

1 April Year 2 TO populates the formula with Year 1 data

Rev Req based on Year 1 data

Must run Appendix A to get this number (without any cap adds in Appendix A line 16 and without CWIP in Appendix A line 33)

2 April Year 2 TO estimates all transmission Cap Adds and CWIP for Year 2 based on each project's cost using the average of 13 monthly balances. Cap Adds are the projects expected to be in service in Year 2.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
		Richwood Hill (in service)	Erie South	Joffre Sub (in service)	Oak Mound (in service)	Damascus Substation (in service)	Warren Substation (in service)	Kammer (in service)	502 Junction - Territorial Line (monthly additions) (in service)
		(III sel vice)	(EL SELVICE)	(El Scivice)	(III SELVICE)	(III service)	(III service)	(III SELVICE)	(III sel vice)
Dec (Prior Year CWIP) p216.b.43	Actual	_				_		_	
Jan 2019	Actual	1,006		29	(3,362)				(812,095)
Feb	Actual	940	212	3,450	28,257				28,310
Mar	Actual	940	84	29	143,936				14,497
Apr	Actual	940	1,002	889	259,584	-		-	23,185
May	Budget	-	-	-	629,365	-	-	-	1,680,941
Jun	Budget	-	-	-	863,547	-	-	-	283,923
Jul	Budget	-	-	-	863,547	-	-	-	2,121
Aug	Budget	-	-	-	585,456	-		-	11
Sep	Budget	-	-	-	526,910	-		-	4
Oct	Budget	-	-	-		-		-	0
Nov	Budget	-	-	-		-	-	-	0
Dec	Budget	-		-				-	U
Total		3,826	1,298	4,396	3,897,240	-	-	-	1,220,898

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(1)
			502 Jct Substation	Black Oak					Wylie Ridge
		(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)
Dec (Prior Tear	Aut1								
CWIP) p216.b.43									
Jan 2019	Actual		58,243	591					
Feb	Actual		115,251						
Mar	Actual		9,108						
Apr	Actual	-	(1,312)	584,812	-	-	-	-	-
May	Budget	-		5,299	-	-	-	-	56,626
Jun	Budget	-		155,076	-	-	-	-	93,834
Jul	Budget			-	-	-	-	-	-
Aug	Budget	-		-	-	-	-	-	-
Sep	Budget	-		-	-	-	-	-	-
Oct	Budget	-		-	-	-	-	-	-
Nov	Budget	-		-	-	-	-		-
Dec	Budget	-		-	-	-	-	-	-
Total			181,291	745,779		-		-	150,460

Г	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(1)
				Waldo Run SS	Meadowbrook SS Capacitor	Conemaugh	Rider	Cabot Substation	
T .		(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)
Dec (Pnor Year	total d								
CWIP) p216.b.43	Actual								
Jan 2019	Actual			40,535	461		126		
Feb	Actual			(17,992)	38	4,230			
Mar	Actual			34,116		1,052	2,871		
Apr	Actual	-	-	(2,576)	-	-	8,411	-	-
May	Budget	-	-	-	-	-	-	101,759	-
Jun	Budget	-		-	-	-	-	-	-
Jul	Budget	=	-	-	-	-	-	-	-
Aug	Budget	=	-	-	-	-	-	-	-
Sep	Budget	=	-	-	-	-	-	-	-
Oct	Budget	-		-	-	-	-	-	-
Nov	Budget	-		-	-	-	-	-	-
Dec	Budget	-	-	-	-	-	-	-	-
Total				54.083	499	5.281	11.409	101.759	

				Month End Balan	Des			
Other Projects PIS (Monthly additions)	Richwood Hill	Erie South	Joffre Sub	Oak Mound	Damasous Substation	Warren Substation	Kammer	502 Junction - Terri Line (monthly additi
	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	CWP
	_	-	_	-	-	_	_	
	1,006	-	29	(3,362)		-	-	(812
	1,946	212	3,479	24,894	-	-	-	(783
	2,886	296	3,507	168,830	-	-	-	(769
	3,826	1,298	4,396	428,414	-	-	-	(746
	3,826	1,298	4,396	1,057,779	-	-	-	934
	3,826	1,298	4,396	1,921,327		-	-	1,21
	3,826	1,298	4,396	2,784,874	-	-	-	1,22
	3,826	1,298	4,396	3,370,330	-	-	-	1,22
	3,826	1,298	4,396	3,897,240	-	-	-	1,22
	3,826	1,298	4,396	3,897,240	-	-	-	1,22
	3,826	1,298	4,396	3,897,240		-	-	1,22
	3,826	1,298	4,396	3,897,240		-	-	1,22
	40,267	12,192	46,581	25,342,049	-		-	6,36
	3,097	938	3,583	1,949,388	-		-	48
Appendix A, Line 16)	(Appendix A, Line 16)	(Appendix A, Line 16)	(Appendix A, Line 16)			(Appendix A, Line 33)		

				Month End Balance	es			
Other Projects PIS (Monthly additions)	0	502 Jct Substation	Black Oak	0	0	0	0	Wylie Ridge
	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)
	-	-	-	-	-	-	-	
		58,243	591					
	-	173,495	591			-	-	
	-	182,603	591	-	-	-	-	
	-	181,291	585,404	-	-	-	-	
	-	181,291	590,703	-	-	-	-	56,
	-	181,291	745,779	-	-	-	-	150,
	-	181,291	745,779	-	-	-	-	150,
	-	181,291	745,779	-	-	-	-	150.
	-	181,291	745,779	-	-	-	-	150,
	-	181,291	745,779	-	-	-	-	150
	-	181,291	745,779	-	-	-	-	150
	-	181,291	745,779	-	-	-	-	150
	-	2.045.959	6.398.334		-	-	-	1,109

				Month End Balance	es			
Other Projects PIS				Meadowbrook SS				
(Monthly additions)	0	0	Waldo Run SS	Capacitor	Conemaugh	Rider	Cabot Substation	0
	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)
	-	-	-		-	-	-	-
	-	-	40,535	461	-	126	-	-
	-	-	22,543	499	4,230	126	-	-
	-	-	56,659	499	5,281	2,998	-	-
	-	-	54,083	499	5,281	11,409	-	-
	-	-	54,083	499	5,281	11,409	101,759	-
	-	-	54,083	499	5,281	11.409	101.759	-
	-	-	54,083	499	5,281	11,409	101,759	-
	-	-	54,083	499	5,281	11,409	101,759	-
	-	-	54.083	499	5,281	11.409	101,759	-
	-	-	54.083	499	5,281	11.409	101.759	-
	-	-	54.083	499	5.281	11.409	101.759	-
	-	-	54,083	499	5,281	11,409	101,759	-
			606 480	E 047	E7 044	40E 030	044 074	

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(1)
		Mainsburg	Piercebrook SS	Moshannon	Farmers Valley SS				
-		(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)
Dec (Pnor Year CWIP) p216.b.43	Actual								
Jan 2019	Actual		(276)		1,769				
Feb	Actual	101,802	(100)		354				
Mar	Actual	39,422	1,339		3,212				
Apr	Budget	(3,136)	2,244	(120,404)	(882)	-			-
May	Budget	11,117,627	-	-	-	-			
Jun	Budget	84,306			-	-			
Jul Aug	Budget Budget	43,909 14,636	-	-		-			
Sep	Budget	14,000		-	-	-			
Oct	Budget								
Nov	Budget	-	-	-	-	-			-
Dec	Budget	-	-	-	=	-			-
Total		11,398,565	3,207	(120,404)	4,454				-

Other Projects PIS								
Monthly additions)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(1)
	Mainsburg	Piercebrook SS	Moshannon	Farmers Valley SS	0	0	0	0
	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)
	-	-	-	-	-			
		(276)		1,769	-			
	101,802	(376)		2,123	-			
	141,223	963	-	5,335	-			
	138,087	3,207	(120,404)	4,454	-			
	11,255,714	3,207	(120,404)	4,454	-			
	11,340,020	3,207	(120,404)	4,454	-			
	11,383,929	3,207	(120,404)	4,454	-			
	11,398,565	3,207	(120,404)	4,454	-			
	11,398,565	3,207	(120,404)	4,454	-			
	11,398,565	3,207	(120,404)	4,454	-			
	11,398,565	3,207	(120,404)	4,454	-			
	11,398,565	3,207	(120,404)	4,454			-	-
	91,353,603	29,174	(1,083,637)	49,309				

3 April Year 2

TO adds Cap Adds and CWIP to plant in service in Formula (Appendix A, Lines 16 and 33)

4 May Year 2

Post results of Step 3 on PJM web site

May	Year 2		Post results of a	Step 3 on P.	IM web s

31 2		Post results of Step 3 on Pa	NI WED SILE																
,	Nylie Ridge (Monthly additions)	Black Oak (Monthly additions)	North Shenandoah (Monthly additions)	Meadowbrook Transformer (Monthly additions)	Bedington Transformer (Monthly additions)	Meadow Brook SS Capacitor (Monthly additions)	Kammer Transformers (Monthly additions)	Doubs Transformer #2 (Monthly additions)	Doubs Transformer #3 (Monthly additions)	(Monthly additions)	Cabot SS (Monthly Additions)	Hunterstown	Farmers Valley	Harvey Run	Doubs SS	Potter SS (Monthly Additions)	Osage Whiteley (Monthly Additions)	Meadowbrook SS	502 Junction - Territorial Line (Monthly additions)
\$	2,489,509	5,171,841.76	210,025.88	855,713.01	810,921.64	693,362.89	4,213,305	556,242	510,449	626,038	805,203	5,139,678	228,310	96,749	585,096	226,563	2,839,019	7,197,954	123,986,836
Г	502 Junction Substation	Waldo Run	Conemaugh	Blairsville	Four Mile Junction	Johnstown	Yeagertown	Grandview Capacitor	Altoona SVC	Luxor	Grandpoint & Gulford	Moshannon	Carbon Center	Shawville	Oak Mound	Shuman Hill	Buffalo Road	Conemaugh Capacitor	Grover SS Capacitor
\$	1,549,247.14	6,929,411.51	3,294,848.78	388,909.51	1,133,089.47	577,939.73	136,139	75,722	4,239,640	140,855	207,969	884,512	66,700	270,142	13,461,325	179,509	51,406		100,821
Г		Handsome Lake - Homer							Johnstown Sub										
	Richwood Hill	City	West Union	Rider Sub (West Milford)	Erie South	Monocacy SS	Bartonville SS Capacitor	Mainsburg SS	Capacitor	Claysburg Ring Bus	Joffre Sub	Squab Hollow SS	Squab Hollow SVC	Shingletown Capacitor	Nyswaner	Armstrong	Farmers Valley Substation	Damascus Substation	Warren Substation
\$	9,319,182.81	1,502,621.80	104,986.15	2,151,605.20	5,928,705.39	4,572,784.74	83,419	3,608,576	163,269	920,728	6,057,493	2,293,565	3,918,077	214,088	112,522	1,827,760	4,775,517	155,301	2,962,085

Total Revenue Requirement \$ 242,807,448.04

Piercebrook Substation	Joffre Substation S1041
1,204,162	-

5 June Year 2

Results of Step 3 go into effect

TO estimates all transmission Cap Adds and CWIP during Year 3 based each project's cost using the average of 13 monthly balances. Cap Adds are expected be in service in Year 3.

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(1)
		Richwood Hill (in service)	Erie South	Joffre Sub (in service)	Oak Mound (in service)	Damascus SS (in service)	Warren SS (in service)	Kammer SS (in service)	502 Junction - Territorial Line (monthly additions) (in service)
		(If Service)	(III service)	(III Service)	(in service)	(III SELVICE)	(Iff Service)	(IT SELVICE)	(III Sel WCe)
Dec (Prior Year									
CWIP) p216.b.43		877	2,407	194	48,977		13,593	23,163	
Jan 2020	Actual	946	(37)		(33,822)		8,277	1,804	13,503
Feb	Actual	876	155	688	9,178		1,270		3,175
Mar	Actual	1,122		1,064	5,500				70,531
Apr	Actual	876		159,522	26,763				29,724
May	Budget				133,359				
Jun	Budget								384,149
Jul	Budget								
Aug	Budget								191,896
Sep	Budget								
Oct	Budget				219,976				
Nov	Budget								
Dec	Budget								
Total		4,697	2,525	162,720	409,931		23,140	24,967	742,531

Total 4,697
New Transmission Plant Additions for Year 3 (13 month average balance)

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
			502 Jct Substation	Black Oak	Osage Whiteley	Squab Hollow SS			Wylie Ridge
		(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)
Dec (Pnor Year CWIP) p216.b.43	Actual		743	168	298				1,903
Jan 2020	Actual								139
Feb	Actual				14				
Mar	Actual			15,830					
Apr	Actual		701	(11,143)	(20,000)	132,804			
May	Budget								
Jun	Budget								
Jul	Budget								
Aug	Budget								
Sep	Budget								
Oct	Budget								
Nov	Budget								
Dec	Budget								
Total			1 444	4 854	(19.688)	132 804			- 2 042

Total New Transmission Plant Additions for Year 3 (13 month average balance)

1	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(1)
	1.7	(-)	(-)	(-)	Meadowbrook SS		(-)	V-7	
				Waldo Run SS	Capacitor	Conemaugh	Rider	Cabot Substation	
		(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)
LIEC (Prior Tear	Lateral Control								
CWIP) p216.b.43				79,195	2,812	122,871	7,813	132	
Jan 2020	Actual			79,695			3,607	29	
Feb	Actual			48,183	201		4,644		
Mar	Actual			15,190	(131)		1,615		
Apr	Actual			7,974			996	131	
May	Budget								
Jun	Budget								
Jul	Budget								
Aug	Budget								
Sep	Budget								
Oct	Budget			1,771,817		161,314			
Nov	Budget								
Dec	Budget					3,616			
Total			-	2,002,053	2,882	287,801	18,675	291	

New Transmission Plant Additions for Year 3 (13 month average balance)

				Month End Balanc	es			
				WORLT ETG BUILD				
Other Projects PIS (Monthly additions)	Richwood Hill	Erie South	Joffre Sub	Oak Mound	Damascus SS	Warren SS	Kammer SS	502 Junction - Territori Line (monthly additions
	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)
	877	2,407	194	48,977	-	13,593	23,163	49,55
	1,822	2,371	1,447	15,156	-	21,870	24,967	63,05
	2,698	2,525	2,134	24,334	-	23,140	24,967	66,23
	3,821	2,525	3,198	29,834	-	23,140	24,967	136,76
	4,697	2,525	162,720	56,597		23,140	24,967	166,48
	4,697	2,525	162,720	189,956	-	23,140	24,967	166,48
	4,697	2,525	162,720	189,956	-	23,140	24,967	550,63
	4,697	2,525	162,720	189,956	-	23,140	24,967	550,63
	4,697	2,525	162,720	189,956	-	23,140	24,967	742,53
	4,697	2,525	162,720	189,956		23,140	24,967	742,53
	4,697	2,525	162,720	409,931	-	23,140	24,967	742,53
	4,697	2,525	162,720	409,931	-	23,140	24,967	742,53
	4,697	2,525	162,720	409,931	-	23,140	24,967	742,53
	51,487	32,558	1,471,454	2,354,471	-	290,008	322,764	5,462,50
	3,961	2,504	113,189	181,113		22,308	24,828	420,19

				Month End Balanc	es			
Other Projects PIS Monthly additions)		502 Jct Substation	Black Oak	Osage Whiteley	Squab Hollow SS			Wylie Ridge
	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)
	-	743	168	298	-	-	-	1,9
	-	743	168	298		-	-	2,0
	-	743	168	312	-	-	-	2,0
	-	743	15,998	312		-	-	2,0
	-	1,444	4,854	(19,688)	132,804	-	-	2,0
	-	1,444	4,854	(19,688)	132,804	-	-	2,0
	-	1,444	4,854	(19,688)	132,804	-	-	2,0
	-	1,444	4,854	(19,688)	132,804	-	-	2,0
	-	1,444	4,854	(19,688)	132,804	-	-	2,0
	-	1,444	4,854	(19,688)	132,804	-	-	2,0
	-	1,444	4,854	(19,688)	132,804	-	-	2,0
		1,444	4,854	(19,688)	132,804		-	2,0
	-	1,444	4,854	(19,688)	132,804	-	-	2,0
	-	15,963	60,191	(175,971)	1,195,237			26,4
	-	1,227.96	4,630.06	(13,536.24)	91,941.34	-	-	2,031

				Month End Balance	s			
Other Projects PIS				Meadowbrook SS				
(Monthly additions)			Waldo Run SS	Capacitor	Conemaugh	Rider	Cabot Substation	
		(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)
		-	79,195	2,812	122,871	7,813	132	-
	-	-	158,889	2,812	122,871	11,420	161	-
	-	-	207,072	3,012	122,871	16,064	161	-
	-	-	222,262	2,882	122,871	17,679	161	-
	-	-	230,236	2,882	122,871	18,675	291	-
	-	-	230,236	2,882	122,871	18,675	291	-
	-	-	230,236	2,882	122,871	18,675	291	-
	-	-	230,236	2,882	122,871	18,675	291	-
	-	-	230,236	2,882	122,871	18,675	291	-
	-	-	230,236	2,882	122,871	18,675	291	-
	-	-	2,002,053	2,882	284,185	18,675	291	-
	-	-	2,002,053	2,882	284,185	18,675	291	-
	-	-	2,002,053	2,882	287,801	18,675	291	-
	-	-	8,054,992	37,452	2,084,882	221,055	3,237	-
	-	-	619,614.78	2,880.93	160,375.52	17,004.21	248.97	-

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(1)
		Mainsburg	Piercebrook SS	Moshannon	Farmers Valley SS				
		(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)	(in service)
Dec (Prior Tear									
CWIP) p216.b.43	Actual	37,693	26						
Jan 2020	Actual	168,844	2,431						
Feb	Actual	9,936	10						
Mar	Actual	15,849	(108)						
Apr	Actual	46,090	621		1,093				
May	Budget								
Jun	Budget								
Jul	Budget								
Aug	Budget	171,202							
Sep	Budget	6,551							
Oct	Budget								
Nov	Budget								
Dec	Budget								
Total		456,165	2,981		1,093				
New Transmission	Plant Additions for Year 3 (13 m	nonth average balance)							

				Month End Balance	Š			
Other Projects PIS Monthly additions)	Mainsburg	Piercebrook SS	Moshannon	Farmers Valley SS				
	(in service)			(in service)	(in service)	(in service)	(in service)	(in service
	37,693	26	-		-	-	-	
	206,537	2,457	-		-	-	-	
	216,473	2,467	-	-	-	-	-	
	232,322	2,360	-	-	-	-	-	
	278,412	2,981	-	1,093	-	-	-	
	278,412	2,981	-	1,093	-	-	-	
	278,412	2,981	-	1,093	-	-	-	
	278,412	2,981	-	1,093	-	-	-	
	449,614	2,981	-	1,093	-	-	-	
	456,165	2,981	-	1,093	-	-	-	
	456,165	2,981	-	1,093	-	-	-	
	456,165	2,981	-	1,093	-	-	-	
	456,165	2,981	-	1,093	-	-	-	
	4,080,946	34,135	-	9,837	-	-	-	
	313.918.90	2.625.73	-	756.69		-		

Wyle Ridge (Monthly additions) \$ 2,516,730	Black Oak (Monthly additions) 5,203,115.70	North Shenandoah (Monthly additions) 212,921.78	Meadowbrook Transformer (Monthly additions) 864,354.75	Bedington Transformer (Monthly additions) 821,148.65	Meadow Brook SS Capacitor (Monthly additions) 701,199.58	Kammer Transformers (Monthly additions) 4,273,583	Doubs Transformer #2 (Monthly additions) 565,818	Doubs Transformer #3 (Monthly additions) 521,445	Doubs Transformer #4 (Monthly additions) 630,252	Cabot SS (Monthly Additions) 831,309	Hunterstown 5,219,291	Farmers Valley 235,187	Harvey Run 98,257	Doubs SS 592,857	Potter SS (Monthly Additions) 231,103	Osage Whiteley (Monthly Additions) 2,874,632	Meadowbrook SS 7,295,823	502 Junction - Territorial Line (Monthly additions) 125,636,084
502 Junction Substation \$ 1,653,493.74	Waldo Run 7,362,088.83	Conemaugh 3,422,958.10	Blairsville 395,030.99	Four Mile Junction 1,152,908.92	Johnstown 587,044.32	Yeagertown 136,355	Grandview Capacitor 76,881	Altoona SVC 4,306,429	Luxor 143,067	Grandpoint & Gulford 211,257	Moshannon 907,590	Carbon Center 67,754	Shawville 274,630	Oak Mound 13,827,820	Shuman Hill 181,181	Buffalo Road 52,218	Conemaugh Capacitor	Grover SS Capacitor 103,456
Richwood Hill \$ 9,440,793.52	Handsome Lake - Homer City 1,525,263.75	West Union 106,661.35	Rider Sub (West Milford) 2,371,548.52	Erie South 5,975,005.12	Monocacy SS 4,647,064.08	Bartonville SS Capacitor 84,801	Mainsburg SS 3,994,370	Johnstown Sub Capacitor 165,929	Claysburg Ring Bus 935,567	Joffre Sub 6,142,248	Squab Hollow SS 2,329,033	Squab Hollow SVC 3,947,509	Shingletown Capacitor 216,586	Nyswaner 114,378	Armstrong 1,855,896	Farmers Valley Substation 4,826,489	Damascus Substation 242,146	Warren Substation 3,016,162

Total Revenue Requirement \$ 247,484,300.84 Piercebrook Substation Joffre Substation S1041

7 April Year 3 Reco

Reconcilation - TO calculates Reconcilation by populating the 13 monthly plant balances and beginning and end of year balances for the other rate base items and the 13 monthly averages for CWIP in Reconcilation (adjusted to include any Reconcilation amount from prior year).

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)
							Line (monthly additions)		
		(in service)	CWIP	CWIP	CWIP				
CWIP) p216.b.43	Actual						1,735		
		-	-	-					
Jan 2019	Actual	-	-	-	-				
Feb	Actual	-	-	-			-		
//ar	Actual	-	-	-			-		
Apr	Actual	-	-	-					
ву	Actual	-	-						
1	Actual	-							
	Actual	_	_						
9	Actual	_	_						
p	Actual	_	_	_					
t	Actual	_	_	_					
	Actual	-	-	-					
с	Actual	•	•	-					
otal							1,735		

				Month End Balance	-00			
(Monthly additions)	0	U	U	0	// / \	(monthly additions) CWIP		
				(in service)	(in service)	CWP		
	-	-	-	-	-	142,845	-	
	-	-	-	-	-	-	-	
	-	-	-			-	-	
	-	=	-	=	-	-	=	
	-	=	-	=	-	-	=	
	-	=	-	=	-	-	=	
	-	=	-	=	-	-	=	
	=	=	-	=	-	-	=	
	-	-	-	-	-	-	-	
	-	-	-	-	-	-	-	
	=	=	-	=	-	=	=	
	-	-	-	-	-	-	-	
		•	-	-	•	-	8	
	•	-	•	•	•	142,845	•	

		Result of Formula for Recon	Ollapori															
Total Revenue Requirement	Potter SS	Cabot SS Transformer	Doubs Transformer #4 (Monthly additions)	Doubs Transformer #3 (Monthly additions)	(Monthly additions)	Kammer Transformers (Monthly additions)	additions)	Bedington Transformer (Monthly additions)	Meadowbrook Transformer (Monthly additions)	North Shenandoah (Monthly additions)	Black Oak (Monthly additions)	Wyle Ridge (Monthly additions)	502 Junction - Territorial Line (Monthly additions)	Osage Whiteley	Armstrong	Farmers Valley	Harvey Run	Doubs SS
\$ 248,756,431.19	232,897.76	830,378.86	638,257.96	524,638.22	570,809.28	4,312,573	708,599	829,757	873,130	215,062	5,257,758	2,536,533	126,783,830	2,906,503	1,873,454	236,160	99,180	599,355
	Meadowbrook SS		Handsome Lake-Homer City		Luxor Capacitor	Grand Point & Guilford SS			Conemaugh Transformer			Hunterstown	Johnstown	Moshannon	Waldo Run	Four Mile Junction	West Union SS	Bartonville SS Capacitor
	7,371,448	52,704	1,539,877	//,611	144,404	213,223	4,346,602	398,718	3,386,693	1,629,181	68,385	5,268,845	592,521	914,892	7,195,250	1,162,932	107,648	85,567
	Yeagertown	Rider	Monocacy SS	Shuman Hill Sub	Mainsburg SS	Johnstwon Sub Capcitor	Grover SS	Claysburg Ring Bus	Squab Hollow SS	Squab Hollow SVC	Shingletown Capacitor	Nyswaner	Shawville	Oak Mound	Joffre SS	Erie South	Farmers Valley Substation	Richwood Hill
	137,611	2,276,047	4,689,309	182,840	3,693,849	167,444	104,032	944,170	2,344,533	3,995,810	218,932	115,414	277,105	13,775,615	6,195,550	6,047,989	4,883,078	9,538,120

| Damascus SS | Warren Substation | Joffre Substation S1041 | Piercebrook Substation | 196,320 | 3,038,975 | - 1,348,312 |

8 April Year 3 Reconcilation - TO adds the difference between the Reconcilation in Step 7 and the forecast in Step 5 with interest to the result of Step 7 (this difference is also added to Step 7 in the subsequent year)

> The Reconciliation in Step 8 248,756,431 The forecast in Prior Year 242,807,448 5,948,983 <Note: for the first rate year, divide this reconciliation amount by 12 and multiply by the number of months and fractional months the rate was in effect. Interest on Amount of Refunds or Surcharges

Interest on Amount of	Refunds or Surcharges					
Interest 35.19a for Mar		0.4200%				
Month	Yr	1/12 of Step 9	Interest 35.19a for		Interest	Surcharge (Refund) Owed
			March Current Yr	Months		
Jun	Year 1	495,749	0.4200%	11.5	23,945	519,693
Jul	Year 1	495,749	0.4200%	10.5	21,863	517,611
Aug	Year 1	495,749	0.4200%	9.5	19,780	515,529
Sep	Year 1	495,749	0.4200%	8.5	17,698	513,447
Oct	Year 1	495,749	0.4200%	7.5	15,616	511,365
Nov	Year 1	495,749	0.4200%	6.5	13,534	509,283
Dec	Year 1	495,749	0.4200%	5.5	11,452	507,200
Jan	Year 2	495,749	0.4200%	4.5	9,370	505,118
Feb	Year 2	495,749	0.4200%	3.5	7,288	503,036
Mar	Year 2	495,749	0.4200%	2.5	5,205	500,954
Apr	Year 2	495,749	0.4200%	1.5	3,123	498,872
May	Year 2	495,749	0.4200%	0.5	1,041	496,790
Total		5,948,983				6,098,898
		Balance	Interest	Amort	Balance	
Jun	Year 2	6,098,898	0.4200%	522,223	5,602,290	
Jul	Year 2	5,602,290	0.4200%	522,223	5,103,596	
Aug	Year 2	5,103,596	0.4200%	522,223	4,602,808	
Sep	Year 2	4,602,808	0.4200%	522,223	4,099,917	
Oct	Year 2	4,099,917	0.4200%	522,223	3,594,914	
Nov	Year 2	3,594,914	0.4200%	522,223	3,087,789	
Dec	Year 2	3,087,789	0.4200%	522,223	2,578,535	
Jan	Year 3	2,578,535	0.4200%	522,223	2,067,142	
Feb	Year 3	2,067,142	0.4200%	522,223	1,553,601	
Mar	Year 3	1,553,601	0.4200%	522,223	1,037,903	
Apr	Year 3	1,037,903	0.4200%	522,223	520,039	
May	Year 3	520,039	0.4200%	522,223	-	
Total with interest				6.266.677		

The difference between the Reconciliation in Step 8 and the forecast in Prior Year with interest Rev Req based on Year 2 data with estimated Cap Adds for Year 3 (Step 8) Revenue Requirement for Year 3

6,266,677 Input to Appendix A, Line 147 247,484,301 253,750,978

	Reconciliation Amount by Project Reconciliation Amount by Project Reconciliation Amount by Project																	
Total Revenue Requirema	ent Potter SS	Cabot SS Transformer					Capacitor (Monthly		Transformer (Monthly				Line (Monthly	Osage Whiteley	Armstrong	Farmers Valley	Harvey Run	Doubs SS
\$ 6,266,0	6,673	26,520	12,873	14,947	15,346	104,569	16,050	19,841	18,347	5,305	90,505	49,535	2,946,362	71,088	48,134	8,269	2,561	15,020
ly.																		
	Meadowbrook SS	Buffalo Road Capacitor	Handsome Lake-Homer City	Grandview Capacitor	Luxor Capacitor	Grand Point & Guilford SS	Altoona	Blairsville	Conemaugh Transformer	502 Junction Substation	Cabron Center	Hunterstown	Johnstown	Moshannon	Waldo Run	Four Mile Junction	West Union SS	Bartonville SS Capacitor
	182,759	1,368	39,245	1,990	3,738	5,535	112,675	10,332	96,749	84,202	1,775	136,065	15,360	32,002	280,035	31,436	2,804	2,263
	Yeagertown	Rider	Monocacy SS	Shuman Hill Sub	Mainsburg SS	Johnstown Sub Capcitor	Grover SS	Claysburg Ring Bus	Squab Hollow SS	Squab Hollow SVC	Shingletown Capacitor	Nyswaner	Shawville	Oak Mound	Joffre SS	Erie South	Farmers Valley Substation	Richwood Hill
	1,551	131,087	122,747	3,508	89,827	4,399	3,382	24,693	53,690	81,885	5,103	3,047	7,335	331,074	145,429	125,654	113,305	230,629
					_													
	Damascus SS	Warren Substation	Joffre SS	Piercebrook SS														
	43,210	80,996	-	151,848]													

9 May Year 3 Post results of Step 8 on PJM web site \$ 253,750,978

10 June Year 3

Results of Step 8 go into effect \$ 253,750,978

Attachment 7 - Transmission Enhancement Charge Worksheet

Revenue Requirement By Project

	Formula Line		
A	137	FCR without Depreciation and Pre-Commercial Costs	11.0510%
В	145	FCR with Incentive ROE without Depreciation and Pre-Commercial	11.7208%
C		Line B less Line A	0.6698%
CR if a CIAC			
D	138	FCR without Depreciation. Return. nor Income Taxes	1,9224%

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

				PJM Upgr	ade ID: b0328.1 b0	3328.2; b0347.1;	b0347.2; b0347.3; b	0347.4	PJ	M Upgrade ID:	b0218; b0220; b116			PJM Upgrade	ID: b0216	
10		Details			502 Junction - Ten	ritorial Line (CWIP	+ Plant In Service)		,	Vylie Ridge Transf	ormer (Plant In Service)		Black Oak	(SVC) Dynamic React	ive Device (Plant In Se	rvice)
11	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Schedule 12	(Yes or No)	Yes					Yes				Yes			
12	"Yes" if the customer has paid a lump sum payment in the amount of the investment on line 29, Otherwise "No"	CIAC	(Yes or No)	No					No				No			
13	Input the allowed ROE From line 3 above if "No" on line 12 and From line 7 above	Allowed ROE		12.70%					11.70%				12.70%			
14	if "Yes" on line 12	FCR without Incentive RI	Œ	11.0510%					11.0510%				11.0510%			
15	If line 13 equals 12.7%, then line 4, if line 13 equals 11.79 then line 3, and if line 12 is "Yes" then line 7	FCR for This Project		11 7208%					11,0510%				11.7208%			
16	then line 3, and if line 12 is "Yes" then line 7 Forecast – bind of prior year net prant plus current year forecast of CWIP or Cap Adds.	FCR for This Project		11.7208%					11.0510%				11.7208%			
	reconciliation – Average of 13 month prior year net plant balances plus prior year 13-mo CWIP balances.	Investment		890,683,910					17,543,016				32,356,115			
17	Annual Depreciation Exp from Attachment 5			21,240,606					578,056				1,410,713			
						Pre-Commercial	Reconciliation				Reconciliation				Reconciliation	
18			Invest Yr	Return	Depreciation	Екр.	Amount	Revenue	Return	Depreciation	Amount	Revenue	Return	Depreciation	Amount	Revenue
19	See Calculations for each item below See Calculations for each item below	We Incentive ROE W Incentive ROE	2011	98,429,254.47 104,395,478.49	21,240,605.57 21,240,605.57	0.00	2,946,361.83 2,946,361.83	122,616,221.87 128,582,445.89	1,938,674.25	578,055.88 578,055.88	49,535.40 49,535.40	2,566,265.53 2,566,265.53	3,575,666.07	1,410,713.00	90,504.69	5,076,883.76 5,293,620.39
2.0	Des Calculatora for each rain beauti	II	2011	104,200,410.40	21,240,002.20	0.00	1,340,301.03	140,000,440.00	1,230,014.23	310,032.00	40,00040	2,000,202.00	3,735,965.70	1,114,114	20,204.00	0,230,020.00

For Plant in Service

Pro-Commercial Exp. is equal to the amount of pro-commercial expense on Autonoment as for each project expense on year and amonazed in year Revenue is equal to the "Return" ("Investment" times FCR) plus "Despreciation" plus "Pro-Commercial Exp" plus project year "Reconciliation amount" "Reconciliation Amount" is created in the reconciliation in Attachment 6 and included in the forecasted revenue requirement.

			PJM Upgrad	e ID: b0323			PJM Upgrade	a ID: b0230			PJM Upgrad	le ID: b0229	
10		No	th Shenandoah Trans	former (Plant In Service			eadowbrook Transfor	mer (Plant In Service)			Bedington Transform	mer (Plant In Service)	
11	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Yes				Yes				Yes			
12	"Yes" if the customer has paid a lump sum payment in the amount of the investment on line 29. Otherwise "No"	No				No				No			
13	Input the allowed ROE From line 3 shows if "No" on line 12 and From line 7 shows	11.70%				11.70%				11.70%			
15	if "Yes" on line 12 If line 13 equals 12.7%, then line 4, if line 13 equals 11.7%	11.0510%				11.0510%				11.0510%			
16	then line 3, and if line 12 is "Yes" then line 7 Forecast – End of prior year net prant plus current year forecast of CWIP or Cao Adds.	11.0510%				11.0510%				11.0510%			
	reconciliation – Average of 13 month prior year net plant balances plus prior year 13-mo CWIP balances.	1.561.128				6.309.246				5 962 862			
17	Annual Depreciation Exp from Attachment 5	40,402				167,122				162,194			
				Reconciliation				Reconciliation				Reconciliation	
18	See Calculations for each item heliow	Return	Depreciation	Amount	Revenue	Return	Depreciation	Amount	Revenue	Return	Depreciation	Amount	Revenue
19 20	See Calculations for each item below See Calculations for each item below	172,519.82 172,519.82	40,401.96 40,401.96	5,304.69 5,304.69	218,226.47 218,226.47	697,233.14 697,233.14	167,121.61 167,121.61	18,346.65 18,346.65	882,701.40 882,701.40	658,954.37 658,954.37	162,194.28 162,194.28	19,841.22 19,841.22	840,989.88 840,989.88

For Plant in Service
"Pre-Commercial Exp" is equal to the amount of pre-comme
Revenue is equal to the "Return" ("Investment" times FCR)

,																	
			PJM Upgrad	le ID: b0559			PJM Upgrad	e ID: b0495			PJM Upgra	de ID: b0343			PJM Upgrai	le ID: b0344	
10			Neadowbrook Capac	itor (Plant In Service)			Kammer Transforms	rs (Plant In Service)			Doubs Replace	Transformer #2			Doubs Replace	Transformer #3	
11	"Yes" if a project under PJM OATT Schedule 12, officereise "No"	Yes				Yes				Yes				Yes			
12	"Yes" if the customer has paid a lump sum payment in the					144				144				142			
-	amount of the investment on line 29, Otherwise "No"	No				No				No				No			
13	Input the allowed ROE	11.70%				11.70%				11.70%				11.70%			
14	From line 3 above if "No" on line 12 and From line 7 above																
	if "Yes" on line 12	11.0510%				11.0510%				11.0510%				11.0510%			
15	If line 13 equals 12.7%, then line 4, if line 13 equals 11.7% then line 3, and if line 12 is "Yes" then line 7	11.0510%				11.0510%				11.0510%				11.0510%			
16	Forecast - End of prior year net prant plus current year	11.021076				11.0070.8				11.001076				11.0010.0			
-	forecast of CWIP or Cap Adds.																
	reconciliation - Average of 13 month prior year net plant																
-	balances plus prior year 13-mo CWIP balances.	5,034,017				31,148,012				4,261,024				3,967,640			
17	Annual Depreciation Exp from Attachment 5	144,892				831,424				94,934				82,982			
				Reconciliation				Reconciliation				Reconciliation				Reconciliation	
18		Return	Depreciation	Amount	Revenue	Return	Depreciation	Amount	Revenue	Return	Depreciation	Amount	Revenue	Return	Depreciation	Amount	Revenue
19	See Calculations for each item below	556,307.94	144,891.64	16,049.81	717,249.40	3,442,158.98	831,423.82	104,589.49	4,378,152.30	470,884.74	94,933.50	15,345.70	581,163.93	438,462.90	82,981.84	14,947.20	538,391.94
20	See Calculations for each item below	556,307.94	144,891.64	16,049.81	717,249.40	3,442,158.98	831,423.82	104,589.49	4,378,152.30	470,884.74	94,933.50	15,345.70	581,163.93	438,462.90	82,981.84	14,947.20	536,391.94

For Plant in Service
"Pre-Commercial Exp" is equal to the amount of pre-comm
Revenue is equal to the "Return" ("Investment" times FCR.

9																	
			PJM Upgrad	le ID: b0345			PJM Upgrade	ID: b0704			PJM Upgrade	ID: b1941			PJM Upgrad	e ID: b0563	
10			Doubs Replace	Transformer #4			Cabot SS - Install	Autotransformer			Armstr	ong			Farmers Valle	ay Capacitor	
11	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Yes				Yes				Yes				Yes			
	"Yes" if the customer has paid a lump sum payment in the amount of the investment on line 29, Otherwise "No"	No				No				No				No			
	Input the allowed ROE From line 3 above if "No" on line 12 and From line 7 above	11.70%				11.70%				11.70%				11.70%			
	if "Yes" on line 12	11.0510%				11.0510%				11.0510%				11.0510%			
	If line 13 equals 12.7%, then line 4, if line 13 equals 11.7% then line 3, and if line 12 is "Yes" then line 7.	11.0510%				11.0510%				11.0510%				11.0510%			
16	Porecast – End of prior year net prant prus current year forecast of CWIP or Cap Adds.	11.0510%				11.0610%				11.0510%				11.0510%			
	reconciliation – Average of 13 month prior year net plant balances plus prior year 13-mo CWIP balances.	4,349,069				6,151,627				13,784,827				1,950,022			
17	Annual Depreciation Exp from Attachment 5	149,638				151,494				332,538				19,691			
				Reconciliation				Reconciliation				Reconciliation				Reconciliation	
18		Return	Depreciation	Amount	Revenue	Return	Depreciation	Amount	Revenue	Return	Depreciation	Amount	Revenue	Return	Depreciation	Amount	Revenue
19 20	See Calculations for each item below See Calculations for each item below	480,614.51 480,614.51	149,637.85 149,637.85	12,873.04 12,873.04	643,125.40 643,125.40	679,814.76 679,814.76	151,493.92 151,493.92	26,519.93 26,519.93	857,828.61 857,828.61	1,523,357.71 1,523,357.71	332,538.12 332,538.12	48,133.53 48,133.53	1,904,029.36 1,904,029.36	215,496.44 215,496.44	19,690.68 19,690.68	8,269.43 8,269.43	243,456.55 243,456.55

For Plant in Service
"Pre-Commercial Exp" is equal to the amount of pre-comme
Revenue is equal to the "Return" ("Investment" times FCR)

			PJM Upgrade	ID: b0564			PJM Upgrad	e ID: b1803			PJM	Jpgrade ID: b124	13			PJM Upgrade	ID: 60674, 6102	3, b1023.3	
10			Harvey Run	Capacitor			Doub	s 88				Potter SS					Osage Whiteley		
11	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Yes				Yes				Yes					Yes				
12	"Yes" if the customer has paid a lump sum payment in the					163				142					140				
	amount of the investment on line 29. Otherwise "No"	No				No				No					No				
13	Input the allowed ROE	11.70%				11.70%				11.70%					11.70%				
14	From line 3 above if "No" on line 12 and From line 7 above																		
	if "Yes" on line 12	11.0510%				11.0510%				11.0510%					11.0510%				
15	If line 13 equals 12.7%, then line 4, if line 13 equals 11.7% then line 3, and if line 12 is "Yes" then line 7	11.0510%				11.0510%				11.0510%					11.0510%				
10	Forecast - End of prior year net plant plus current year	11.0310%				11.0510%				11.0010%					11.0010%				
10	forecast of CWIP or Cap Adds.																		
	reconciliation – Average of 13 month prior year net plant																		
	balances plus prior year 13-mo CWIP balances.	730,986				4,422,935				1,780,112					20,829,938				
17	Annual Depreciation Exp from Attachment 5	17,476				104,080				34,383					572,721				
				Reconciliation				Reconciliation				Pre-Commercial R	econciliation				Pre-Commercial	Reconciliation	
18		Return	Depreciation	Amount	Revenue	Return	Depreciation	Amount	Revenue	Return	Depreciation	Екр.	Amount	Revenue	Return	Depreciation	Exp.	amount	Revenue
19	See Calculations for each item below	80,781.10	17,476.20	2,560.86	100,818.17	488,777.43	104,079.60	15,020.48	607,877.50	196,720	34,383	0	6,673	237,775.85	2,301,911	572,721	0	71,088	2,945,720.21
20	See Calculations for each item below	80,781.10	17,476.20	2,560.86	100,818.17	488,777.43	104,079.60	15,020.48	607,877.50	196,720	34,383		6,673	237,775.85	2,301,911	572,721		71,088	2,945,720.21

For Plant in Service
"Pre-Commercial Exp" is equal to the amount of pre-comm
Revenue is equal to the "Return" ("Investment" times FCR)

			PJM Upgrade ID:	b1800, b1804			PJM Upgrad	ID: 61800		PJM U	pgrade ID: b243	3.1, b2433.2, b24	33.3		PJM Upgra	de ID: b1153	
10			Meadowbr	ook SS			Hunters	town			Waldo Ru	un SS			Coner	maugh	
11	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Yes				Yes				Yes				Yes			
	"Yes" if the customer has paid a lump sum payment in the amount of the investment on line 29, Otherwise "No"	No				No				No				No 11 70%			
	Input the allowed ROE From line 3 above if "No" on line 12 and From line 7 above	11.70%				11.70%				11.70%				11,0510%			
15	if "Yes" on line 12 If line 13 equals 12.7%, then line 4, if line 13 equals 11.7% then line 3, and if line 12 is "Yes" then line 7	11.0510%				11.0510%				11.0510%				11.0510%			
16	then line 3, and if line 12 is "Yes" then line 7 Forecast — End of prior year net prant prus current year forecast of CWIP or Cap Adds.	11.0510%				11.0510%				11.0510%				11.0510%			
	reconciliation – Average of 13 month prior year net plant balances plus prior year 13-mo CWIP balances.	54.498.150				38.869.857				52,928,763				25.082.622			
17	Annual Depreciation Exp from Attachment 5	1,273,246				923,792				1,512,945				651,084			
				teconciliation				Reconciliation				Reconciliation				Reconciliation	
18 19 20	See Calculations for each item below See Calculations for each item below	Return 6,022,577 6,022,577	1,273,246 1,273,246	amount 182,759 182,759	7,478,581.98 7,478,581.98	Return 4,295,498 4,295,498	Depreciation 923,792 923,792	amount 136,065 136,065	Revenue 5,355,355.46 5,355,355.46	Return 5,849,144 5,849,144	Depreciation 1,512,945 1,512,945	amount 280,035 280,035	7,642,123.74 7,642,123.74	Return 2,771,874 2,771,874	Depreciation 651,084 651,084	amount 96,749 96,749	Revenue 3,519,706.71 3,519,706.71

"Pre-Commercial Exp" is equal to the amount of pre-comme Revenue is equal to the "Return" ("Investment" times FCR) "Reconciliation Amount" is created in the reconciliation in A

-																	
			PJM Upgra	de ID: b1967			PJM Upgrade ID	: b1609, b1769			PJM Upgrade	ID: b1945			PJM Upgrad	le ID: b1610	
10			Blain	wille SS			Four Mi	le Jet			Johnstown SS	(2nd xfmr)			Yeage	rtown	
11	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Yes				Yes				Yes				Yes			
12	"Yes" if the customer has paid a lump sum payment in the amount of the investment on line 29. Otherwise "No"	No				No				No				No			
13	Input the allowed ROE From line 3 above if "No" on line 12 and From line 7 above	11.70%				11.70%			l	11.70%				11.70%			
15	if "Yes" on line 12 If line 13 equals 12.7%, then line 4, if line 13 equals 11.7%	11.0510%				11.0510%				11.0510%				11.0510%			
16	then line 3, and if line 12 is "Yes" then line 7 Forecast – End of prior year net priorit prior current year forecast of CWIP or Cap Adds.	11.0510%				11.0510%				11.0510%				11.0510%			
	reconciliation – Average of 13 month prior year net plant balances plus prior year 13-mo CWIP balances.	2,942,274				8,706,865				4,372,899				1,036,490			
17	Annual Depreciation Exp from Attachment 5	69,881				190,716				103,796				21,813			
				Reconciliation				Reconciliation				Reconciliation				Reconciliation	
18 19 20	See Calculations for each item below See Calculations for each item below	Return 325,150 325,150	Depreciation 69,881 69,881	amount 10,332 10,332	Revenue 405,363.32 405.363.32	Return 962,193 962,193	Depreciation 190,716 190,716	amount 31,436 31,436	Revenue 1,184,344.94 1,184,344.94	Return 483,248 483,248	Depreciation 103,796 103,796	amount 15,360 15,360	Revenue 602,403.91 602,403.91	Return 114,542 114,542	Depreciation 21,813 21.813	amount 1,551 1,551	Revenue 137,906.31 137,906.31
20	ONE CHILDREN IN EACH MET DEOW	323, 150	69,001	10,332	~0,363.32	362,133	190,716	31,430	1,104,349.34	403,240	103,730	10,390	ww.403.91	114,342	21,813	1,001	12/,300.31

For Plant in Service
"Pre-Commercial Exp" is equal to the amount of pre-comme
Revenue is equal to the "Return" ("Investment" times FCR)

9																	
			PJM Upgrad	ID: b1990			PJM Upgrad	a ID: b1801			PJM Upgrade	ID: b1965			PJM Upgrad	ie ID: b1839	
10			Grandview	Capacitor			Altoona	svc			Luno	×			Grand Point	t & Guilford	
11	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Yes				Yes				Yes				Yes			
12	"Yes" if the customer has paid a lump sum payment in the amount of the investment on line 29, Otherwise "No"	No				No				No				No			
13 14	Input the allowed ROE From line 3 above if "No" on line 12 and From line 7 above					11.70%				11.70%				11.70%			
15	if "Yes" on line 12 If line 13 equals 12.7%, then line 4, if line 13 equals 11.7%					11.0510%				11.0510%				11.0510%			
16	then line 3, and if line 12 is "Yes" then line 7 Forecast – End of pror year net peart plus current year forecast of CWIP or Cap Adds.	11.0510%				11.0510%				11.0510%				11.0510%			
	reconciliation – Average of 13 month prior year net plant balances plus prior year 13-mo CWIP balances.	570,699				32,078,659				1,065,257				1,574,402			
17	Annual Depreciation Exp from Attachment 5	13,814				761,425				25,345				37,270			
				Reconciliation				Reconciliation				Reconciliation				Reconciliation	
18		Return	Depreciation	amount	Revenue	Return	Depreciation	amount	Revenue	Return	Depreciation	amount	Revenue	Return	Depreciation	amount	Revenue
19	See Calculations for each item below See Calculations for each item below	63,068	13,814	1,990	78,871.72	3,545,004	761,425	112,675	4,419,104.33	117,721	25,345	3,738	146,804.96	173,987	37,270	5,535	216,792.60
20	See Calculations for each item below	63,068	13,814	1,990	78,871.72	3,545,004	761,425	112,675	4,419,104.33	117,721	25,345	3,738	146,804.96	173,987	37,270	5,535	216,792.60

"Pre-Commercial Exp" is equal to the amount of pre-comm Revenue is equal to the "Return" ("Investment" times FCR "Reconciliation Amount" is created in the reconciliation in A

			PJM Upgrade	ID: b1964			PJM Upgradi	ID: b1672			PJM Upgrade	ID: b1998			PJM Upgrade ID	: b1999, b2002			PJM Upgrad	e ID: b2342	
10			Moshan	non			Carbon (enter			Shawv	ile			Northe	rood			Shuman	Hill Sub	
11	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Yes				Yes				Yes				Yes				Yes			
12	"Yes" if the customer has paid a lump sum payment in the																				
	amount of the investment on line 29, Otherwise "No"	No				No				No				No				No			
13		11.70%				11.70%				11.70%				11.70%				11.70%			
14	From line 3 above if "No" on line 12 and From line 7 above																				
	if "Yes" on line 12	11.0510%				11.0510%				11.0510%				11.0510%				11.0510%			
15	If line 13 equals 12.7%, then line 4, if line 13 equals 11.7%																				
	then line 3, and if line 12 is "Yes" then line 7 Forecast – End of prior year net plant plus current year	11.0510%				11.0510%				11.0510%				11.0510%				11.0510%			
16	forecast of CWIP or Cap Adds.																				
	reconciliation – Average of 13 month prior year net plant																				
	balances plus prior year 13-mo CWIP balances.	6,784,194				504,899				2,059,712				0				1,354,666			
17	Annual Depreciation Exp from Attachment 5	157.870				11,958				47.011				0				31,477			
				Reconciliation				Reconciliation			-	Reconciliation				Reconciliation				Reconciliation	
18		Return	Depreciation	amount	Revenue	Return	Depreciation	amount	Revenue	Return	Depreciation	amount	Revenue	Return	Depreciation	amount	Revenue	Return	Depreciation	amount	Revenue
19	See Calculations for each item below	749,720	157,870	32,002	939,591.98	55,796	11,958	1,775	69,528.64	227,618	47,011	7,335	281,964.60				0.00	149,704	31,477	3,508	184,688.87
20	See Calculations for each item below	749,720	157,870	32,002	939,591.98	55,796	11,958	1,775	69,528.64	227,618	47,011	7,335	281,964.60	0	0	0	0.00	149,704	31,477	3,508	184,688.87

For Plant in Service
"Pre-Commercial Exp" is equal to the amount of pre-comm
Revenue is equal to the "Return" ("Investment" times FCR)

			PJM Upgrade	ID: b1770			PJM Upgra	de ID: b2148			PJM Upgrade	ID: b0556			PJM Upgrade	ID: b1023.1			PJM Upgrade	ID: b1941	
10			Buffalo I	Road			Pleasurevil	le Capacitor			Grover SS C	apacitor			582 Junction S	Substation			Handsome Lake	- Homer City	
	"Yes" if a project under PJM OATT Schedule 12,																				
	otherwise "No" "Yes" if the customer has paid a lump sum payment in the	Yes				Yes				Yes				Yes				Yes			
	"Yes" if the customer has paid a lump sum payment in the amount of the investment on line 29. Otherwise "No."	No				No				No				No				No			
13	Input the allowed ROE	11,70%				11,70%				11,70%				11,70%				11.70%			
	From line 3 above if "No" on line 12 and From line 7 above																				
	if "Yes" on line 12	11.0510%				11.0510%				11.0510%				11.0510%				11.0510%			
	If line 13 equals 12.7%, then line 4, if line 13 equals 11.7%																				
	then line 3, and if line 12 is "Yes" then line 7 Forecast – End of prior year net plant plus current year	11.0510%				11.0510%				11.0510%				11.0510%				11.0510%			
10	forecast of CWIP or Cap Adds.																				
	reconciliation – Average of 13 month prior year net plant																				
	balances plus prior year 13-mo CWIP balances.	389,130				0				833,861				13,835,536				11,299,308			
17	Annual Depreciation Exp from Attachment 5	9,216				0				11,307				124,532				276,580			
				Reconciliation				Reconciliation				Reconciliation				Reconciliation				Reconciliation	
18		Return	Depreciation	amount	Revenue	Return	Depreciation	amount	Revenue	Return	Depreciation	amount	Revenue	Return	Depreciation	amount	Revenue	Return	Depreciation	amount	Revenue
	See Calculations for each item below	43,003	9,216	1,368	53,586.18	0		0	0.00	92,150	11,307	3,382	106,838.29	1,528,962	124,532	84,202	1,737,696.14	1,248,684	276,580	39,245	1,564,508.36
20	See Calculations for each item below	43,003	9,216	1,368	53,586.18	0	0	0	0.00	92,150	11,307	3,382	106,838.29	1,528,962	124,532	84,202	1,737,696.14	1,248,684	276,580	39,245	1,564,508.36

For Plant in Service
"Pre-Commercial Exp" is equal to the amount of pre-comme
Revenue is equal to the "Return" ("Investment" times FCR)

9																	
			PJM Upgrade	e ID: b2343			PJM Upgrade	ID: b1840			PJM Upgrade	ID: b2235			PJM Upgrade	e ID: b2260	
10			West U	Inion			Rider Sub (W	est Milford)			Monocac	y SS			Bartonville S	IS Capacitor	
11	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Yes				Yes				Yes				Yes			
12	"Yes" if the customer has paid a lump sum payment in the amount of the investment on line 29, Otherwise "No"	No				No				No				No			
13 14	Input the allowed ROE From line 3 above if "No" on line 12 and From line 7 above	11.70%				11.70%				11.70%				11.70%			
15	if "Yes" on line 12 If line 13 equals 12.7%, then line 4, if line 13 equals 11.7%	11.0510%				11.0510%				11.0510%				11.0510%			
16	then line 3, and if line 12 is "Yes" then line 7 Forecast – End of pror year net peart plus current year forecast of CWIP or Cap Adds.	11.0510%				11.0510%				11.0510%				11.0510%			
	reconciliation – Average of 13 month prior year net plant balances plus prior year 13-mo CWIP balances.	796,807				16,891,256				34,795,561				635,811			
17	Annual Depreciation Exp from Attachment 5	18,717				504,900				801,815				14,538			
				Reconciliation				Reconciliation				Reconciliation				Reconciliation	
18		Return	Depreciation	amount	Revenue	Return	Depreciation	amount	Revenue	Return	Depreciation	amount	Revenue	Return	Depreciation	amount	Revenue
19	See Calculations for each item below See Calculations for each item below	87,944	18,717	2,804	109,465.80	1,866,648	504,900	131,087	2,502,636.00	3,845,249	801,815	122,747	4,769,810.76	70,263	14,538	2,263	87,063.86
20	See Calculations for each item below	87,944	18,717	2,804	109,465.80	1,866,648	504,900	131,087	2,502,636.00	3,845,249	801,815	122,747	4,769,810.76	70,263	14,538	2,263	87,063.86

"Pre-Commercial Exp" is equal to the amount of pre-commercial Exp" is equal to the "Return" ("Investment" times FCR "Reconciliation Amount" is created in the reconciliation in.

		Р	JM Upgrade ID:	b1802 & b1608			PJM Upgrade	ID: b0555			PJM Upgrade	ID: b1943			PJM Upgrad	e ID: b0376		Р	JM Upgrade ID:	b2364 & b2364.1	
10			Mainsts	00			Johnstown Su	h Conseiler			Claysburg F	line Bur			Consmaud	Canadian			Squab H	illano 99	
10			BELLETE	arg oo			JOHN STATE OF	o Capacitor			Caysturg	ung bus			Conemaug	Capacitor			oquab n	110W 00	
- 11	"Yes" if a project under PJM OATT Schedule 12,	Yes				Yes				Yes				Yes				Yes			
	otherwise "No"					Yes				Yes				Yes				Yes			
12	"Yes" if the customer has paid a lump sum payment in the																				
	amount of the investment on line 29, Otherwise "No"	No				No				No				No				No			
13		11.70%				11.70%				11.70%				11.70%				11.70%			
14	From line 3 above if "No" on line 12 and From line 7 above																				
	if "Yes" on line 12	11.0510%				11.0510%				11.0510%				11.0510%				11.0510%			
15	If line 13 equals 12.7%, then line 4, if line 13 equals 11.7%																				
	then line 3, and if line 12 is "Yes" then line 7	11.0510%				11.0510%				11.0510%				11.0510%				11.0510%			
16	Forecast - End of prior year net plant plus current year																				
	forecast of CWIP or Cap Adds.																				
	reconciliation - Average of 13 month prior year net plant																				
	balances plus prior year 13-mo CWIP balances.	31,226,806				1,241,365				6,989,179				0				16,711,312			
17	Annual Depreciation Exp from Attachment 5	543.503				28.746				163.194								482.270			
										100,101				-				100,010			
				Reconciliation				Reconciliation				Reconciliation				Reconciliation				Reconciliation	
18		Return	Depreciation	amount	Revenue	Return	Depreciation	amount	Revenue	Return	Depreciation	amount	Revenue	Return	Depreciation	amount	Revenue	Return	Depreciation	amount	Revenue
19	See Calculations for each item below	3,450,866	543.503	89.827	4.084.196.10	137.183	28.746	4.399	170.327.98	772.372	163.194	24.693	960.260.01	0			0.00	1.846.763	482.270	53.690	2.382.723.11
20	See Calculations for each item below	3,450,866	543.503	89.827	4.084.196.10	137,183	28.746	4.399	170.327.98	772.372	163,194	24.693	960.260.01	0			0.00	1.846.763	482.270	53.690	2.382,723.11

For Plant in Service
"Pre-Commercial Exp" is equal to the amount of pre-comm
Revenue is equal to the "Return" ("Investment" times FCR

8 9																									
		Р	JM Upgrade ID:	b2362 & b2632.1	_		PJM Upgrade	ID: b2156			PJM Upgrade	ID: b2546			PJM Upgrade	ID: b2545			PJM Upgrade I	D: b2441		PJM	Jpgrade ID: b25-	7, b2547.1, b254	17.2
10			Squab Hol	low SVC			Shingletown	Capacitor			Nyswa	Ner			Richwoo	od Hill			Erie Sou	th			Joffre	ub	
11	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Yes				Yes				Yes				Yes				Yes				Yes			
12	"Yes" if the customer has paid a lump sum payment in the amount of the investment on line 29, Otherwise "No"	No				No				No				No				No				No			
13 14	Input the allowed ROE From line 3 above if "No" on line 12 and From line 7 above					11.70%				11.70%				11.70%				11.70%				11.70%			
15	if "Yes" on line 12 If line 13 equals 12.7%, then line 4, if line 13 equals 11.7%	11.0510%				11.0510%				11.0510%				11.0510%				11.0510%				11.0510%			
16	then line 3, and if line 12 is "Yes" then line 7 horecast – End of prior year net prant plus current year forecast of CWIP or Cap Adds.	11.0510%				11.0510%				11.0510%				11.0510%				11.0510%				11.0510%			
	reconciliation – Average of 13 month prior year net plant balances plus prior year 13-mo CWIP balances.	27,376,651				1,560,553				857,016				68,647,887				41,612,814				44,277,592			
17	Annual Depreciation Exp from Attachment 5	922,123				44,130				19,669				1,854,533				1,376,384				1,249,142			
				Reconciliation				Reconciliation				teconciliation				Reconciliation				econciliation				econciliation	
18 19 20	See Calculations for each item below See Calculations for each item below	Return 3,025,387 3,025,387	Depreciation 922,123 922,123	amount 81,885 81,885	Revenue 4,029,394.44 4,029,394.44	Return 172,456 172,456	Depreciation 44,130 44,130	amount 5,103 5,103	Revenue 221,689.03 221,689.03	Return 94,709 94,709	Depreciation 19,669 19,669	amount 3,047 3,047	Revenue 117,424.82 117,424.82	Return 7,586,261 7,586,261	Depreciation 1,854,533 1,854,533	amount 230,629 230,629	Revenue 9,671,422.14 9,671,422.14	Return 4,598,622 4,598,622	Depreciation 1,376,384 1,376,384	amount 125,654 125,654	Revenue 6,100,658.98 6,100,658.98	Return 4,893,106 4,893,106	Depreciation 1,249,142 1,249,142	amount 145,429 145,429	Revenue 6,287,676.78 6,287,676.78

For Plant in Service
"Pre-Commercial Exp" is equal to the amount of pre-com
Revenue is equal to the "Return" ("Investment" times FCR
"Pre-conditation Amount" is consted in the reconsistation in

\$6,182,960.65 Ax A Line 148

		_
10		Ī
11	"Yes" if a project under PJM OATT Schedule 12, otherwise "No"	Г
12	"Yes" if the customer has paid a lump sum payment in the amount of the investment on line 29, Otherwise "No"	
13	Input the allowed ROE	
14	From line 3 above if "No" on line 12 and From line 7 above if "Yes" on line 12	l
15	If line 13 equals 12.7%, then line 4, if line 13 equals 11.7% then line 3, and if line 12 is "Yes" then line 7	l
16	Forecast – End of prior year net prant plus current year forecast of CWIP or Cap Adds.	l
	reconciliation – Average of 13 month prior year net plant balances plus prior year 13-mo CWIP balances.	l
17	Annual Depreciation Exp from Attachment 5	1

L	PJM Upgrade ID: b2475	PJM Upgrade ID: b1991 PJM Upgrade ID: b2261	PJM Upgrade ID: b2494	PJM Upgrade ID: s1041	PJM Upgrade ID: b2587	i
	Oak Mound	Farmers Valley Substation Damascus Substation	Warren Substation	Joffre Substation S1941	Piercebrook Substation	
the	Yes	Yes	Yes	Yes	Yes	
bove	No. 11.70%	No 11.70% 11.70%	No 11.70%	No 11.70%	No. 11.70%	
1.7%		11.0510% 11.0510% 11.0510% 11.0510%	11.0510%	11.0510%	11.0510%	
ır	11.0510%	11.0510%	11.0510%	11.650%	11.0510%	
ant	106,153,657 2,096,806	36,176,067 1,886,817 826,881 33,634	22,734,917 503,732	0	10,317,833 219,356	
ŀ	2,000,000 Reconciliation	Reconciliation Reconciliation	Reconciliation	Reconciliation	Reconciliation	
	Return Depreciation amount Revenue 5 11,731,014 2,096,806 331,074 14,158,894.31	Naconcisiation Revenue Return Depreciation Depreciation Revenue Return Depreciation Revenue Return Depreciation Revenue Return Depreciation Revenue Return Depreciation Revenue Re		Return Depreciation amount Revenue 0 0 0 0 0.00		Total Incentive Charged Revenue Credit 247,568,016.93 247,568,016.93 253,759,977.57 253,759,977.57
	11,731,014 2,096,896 331,074 14,158,894.31	3,99/,808 828,881 113,305 4,939,/93.38 208,512 33,834 43,210 285,355.38	2,512,430 503,732 80,996 3,097,157.84	0 0 0.00	1,140,221 219,356 151,848 1,511,425,09	253,/50,9/7.57 253,/50,9/7.57

For Plant in Service
"Pre-Commercial Exp" is equal to the amount of pre-comm
Revenue is equal to the "Return" ("Investment" times FCR)

18
19 See Calculations for each item below
20 See Calculations for each item below

Template for Annual Information Filings with Formula Rate Debt Cost Disclosure and True-Up Attachment 8, page 1, Table 1 and 2 Template for Annual Information Filings with Formula Rate Debt Cost Disclosure and True-Up

TABLE 1: Summary Cost of Long											
CALCULATION OF COST OF DEBT											
YEAR ENDED 12/31/20	119										
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(i)	
			ORIGINAL	Net Proceeds	Net Amount Outstanding	Months Outstanding	Average Net Outstanding in Year*	Weighted Outstanding	Effective Cost Rate	Weighted Debt Cost at t = N	
t=N	Issue Date	Maturity Date	ISSUANCE	At Issuance	at t=N	at t=N	z*	Ratios	(Tables 2 and 3)	(h) * (i)	
Long Term Debt C 12/31/2019 First Mortgage Bonds:											
3.85%, Senior Unsecured Notes	12/11/2014	6/2/2025	\$ 550,000,000	\$ 545,247,429	\$ 547,537,066	12	\$ 547,537,066.00	88.00%	3.95%	3.48%	
3.76%, Senior Unsecured Notes	10/16/2015	5/30/2025	\$ 75,000,000	\$ 74,437,647	\$ 74,681,919	12	\$ 74,681,919.00	12.003%	3.85%	0.46%	
Total			\$ 625,000,000		\$ 622,218,985		\$ 622,218,985	100.000%		3.94%	
t = time											
The current portion of long term debt is included	in the Net Amount Outstanding at t = N in these calcul fired during the year is the outstanding amount at the I	lations.									

	TABLE 2: Effective Cost Rates For	Traditional Front-Loaded Debt Issuance	ces:										
	YEAR ENDED 12/31/2019 Long Term Debt Iss Affiliate	(aa) Issue Date	(bb) Maturity Date	(cc) Amount Issued	(dd) 14 (Discount) Premium at Issuance	(ee) Issuance Expense	(ff) Loss/Gain on Reacquired Debt	(gg) Less Related ADIT (Attachment 1)	(hh) Net Proceeds	(ii) Net Proceeds Ratio	(ij) Coupon Rate	(kk) Annual Interest	(II) Effective Cost Rate* (Yield to Maturity at Issuance, t = 0)
(1) (2)	3.85%, Senior Unsecured f No 3.76%, Senior Unsecured Notes	12/11/2014 10/16/2015	6/2/2025 5/30/2025	\$ 550,000,000 75,000,000	\$ (418,000)	4,334,571 562,353		xxx	\$ 545,247,429 \$ 74,437,647	99.1359 99.2502	0.03850 0.0376	\$ 21,175,000 \$ 2,820,000	3.95% 3.85%
		ond table or from YTM = Internal Rate of Return (IRR) ca it issuance): the t=0 Cashflow Q, equals Net Proceeds or	balculation column (gg); Semi-annual (or other) interest cashflows (\mathbb{Q}_1 , \mathbb{C}_{12}	\$ 625,000,000 , etc.).	(418,000)	\$ 4,896,924	-	XXX	\$ 619,685,076			\$ 23,995,000	

Attachment 9 - Financing Costs for Long Term Debt using the Internal Rate of Return Methodology

T/ALCo anticipates its financing will be a 7 year loan, where by T/ALCo pays Origination Fees of \$5.2 million and a Commitments Fee of 0.3% on the undrawn principle. Consistent with GAAP, T/ALCO will amortize the Origination Fees and Commitments Fees using the standard Internal Rate of Return formula below. Each year, T/ALCO will row up the amounts withdrawn, the interest paid in the year. Origination Fees, Commitments Fees, and total loan amount on this attachment.

Total Loan Amount		\$	900,000,000
Internal Rate of Retur	n¹		4.886348%
Based on following F	inancial Formula ² :		
NPV = 0 =	$\sum_{t=1}^{N} C_t/(1+IRR)pw$	r	(t)

 Origination Fees
 7.780,954

 Origination Fees
 7.780,954

 Addition Origination Fees
 15.125

 Total Issuance Expense
 7.796,079

 New Borrowing
 Old Borrowing

After borrowing is at the midpoint (\$275,000)

LIDOD Date	2008			2008	2009	2010			2013	2014	2015
LIBOR Rate	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%	0.0000%
Spread Interest Rate		. 0.00%	4.050/		0.400/	0.400/	0.400/	0.400/	0.400/	. 0.400/	. 0.400/
Bond \$450M Interest	6.13%	3.86%	4.05%	4.34%	2.12%	2.12%	2.12%	2.12%	2.12%	2.12%	2.12%
Rate	\$ 450,000,000					4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
Revolver Interest Rate	\$ 350,000,000	Draw 1	DONE			3.249%	4.50%	6.21%			
Revolver Interest Rate	\$ 350,000,000	Draw 2, 3, 4	DONE			3.247%	4.50%	6.21%			
Revolver Interest Rate	\$ 350,000,000	Draw 5	DONE			3.251%	4.50%	6.21%			
Revolver Interest Rate	\$ 350,000,000	Draw 6	DONE - Roll over Draw 1	and 4		3.316%	4.50%	6.21%			
Revolver Interest Rate	\$ 350,000,000	Draw 7	DONE			3.361%	4.50%	6.21%			
Revolver Interest Rate	\$ 350,000,000	Draw 8	DONE - Roll over Draw 2	3 and 5		3.422%	4.50%	6.21%			
Revolver Interest Rate	\$ 350,000,000	Draw 9	DONE			3.417%	4.50%	6.21%			
Revolver Interest Rate	\$ 350,000,000	Draw 10	DONE			3.348%	4.50%	6.21%			
Revolver Interest Rate	\$ 350,000,000	Draw 11	DONE - Roll over Draw 6	and 9		3.498%	4.50%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 12	DONE - Roll over Draw 1	0		3.418%	4.50%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 13	DONE - Roll over Draw 7	and 8		3.398%	4.50%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 14	DONE			3.275%	4.50%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 15	DONE			3.275%	4.50%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 16	DONE - Roll over Draw 1	1		3.289%	4.50%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 17	DONE			3.248%	4.50%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 17A	DONE - Roll over Draw 1:	2, 14 and 15		3.286%	4.50%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 18	DONE - Roll over Draw 1:	3 and 17		3.286%	4.50%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 19	DONE				3.283%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 20	DONE - Roll over Draw 1	6			3.304%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 21	DONE - Roll over Draw 1	7A and 19			3.312%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 22	DONE - Roll over Draw 1	8			3.312%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 23	DONE				3.222%	6.21%			
	\$ 450,000,000		DONE Roll over Draw 20				3.213%	6.21%			
	\$ 450,000,000		DONE Roll over Draw 21,				3.174%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 26	DONE Roll over Draw 25				3.169%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 27	DONE - Pay off Draw 26				3.196%	6.21%			
Revolver Interest Rate	\$ 450,000,000	Draw 28	DONE				1.936%	6.21%			

				GL '224100		GL '820204	GL '181100/654106	GL '820202			
(A)	(B)	(C)	(D)	(E)		(F)	(G)	(H)	(I)		Amortization of
Year		Capital Expenditures	Principle Drawn In Quarter (\$000's)	Principle Drawn To Date	Outstanding Debt Balance	Interest Expense	Origination Fees	Commitment	Net Cash Flows (D-F-G-H)	Interest at effective rate	origination fees and commitment fees
2008											
12/24/2007	Q4	68,183,000	10,000,000	10,000,000	10,000,000		734,955.02		9,265,045	-	-
01/31/2008	Q1			10,000,000	9,265,045		31,013.00		(31,013)	46,132	46,132
02/4/2008	Q1			10,000,000	9,280,164		69,578.45		(69,578)	4,853	4,853
02/6/2008	Q1			10,000,000	9,215,438		137.50		(138)	2,409	2,409
02/29/2008	Q1			10,000,000	9,217,710		2,960.00		(2,960)	27,752	27,752
03/5/2008	Q1			10,000,000	9,242,502		125,384.16		(125,384)	6,042	6,042
3/24/2008	Q1	25,543,000		10,000,000	9,123,160	155,047.57			(155,048)	22,684	(132,363)
03/31/2008	Q1			10,000,000	8,990,797		17,011.00		(17,011)	8,230	8,230
04/30/2008	Q2			10,000,000	8,982,016		197,269.56		(197,270)	35,289	35,289
05/19/2008	Q2			10,000,000	8,820,035		109,824.88		(109,825)	21,931	21,931
6/23/2008	Q2	20,509,000		10,000,000	8,732,141	97,477.43			(97,477)	40,038	(57,439)
06/26/2008	Q2			10,000,000	8,674,702		43,098.82		(43,099)	3,402	3,402
06/30/2008	Q2			10,000,000	8,635,005		13,267.50		(13,268)	4,516	4,516
08/8/2008	Q3			10,000,000	8,626,253		1,577.79		(1,578)	44,084	44,084
08/13/2008	Q3			10,000,000	8,668,760		62,776.98		(62,777)	5,667	5,667
8/15/2008	Q3		55,000,000	65,000,000	8,611,650	59,689.48	7,780,953.85		47,159,357	2,251	(57,438)
8/20/2008	Q3			65,000,000	55,773,258		530.00		(530)	36,461	36,461
8/25/2008	Q3			65,000,000	55,809,189		15,125.00		(15,125)	36,485	36,485
9/3/2008	Q3			65,000,000	55,830,549		82,654.66		(82,655)	65,714	65,714
9/8/2008	Q3			65,000,000	55,813,609		1,957.50		(1,958)	36,487	36,487
9/11/2008	Q3			65,000,000	55,848,138		41,845.84		(41,846)	21,903	21,903
9/15/2008	Q3		(20,000,000)	45,000,000	55,828,196	243,199.31			(20,243,199)	29,196	(214,004)
9/25/2008	Q3			45,000,000	35,614,192		7,525.25		(7,525)	46,580	46,580
9/29/2008	Q3	0.4.005.000		45,000,000	35,653,247		98,058.08	005 500 00	(98,058)	18,645	18,645
9/30/2008	Q3	24,995,000		45,000,000	35,573,834		18,136.90	235,520.83	(253,658)	4,650	4,650
10/2/2008	Q4		20,000,000	65,000,000	35,324,826			78,506.96	19,921,493	9,235	9,235
10/17/2008	Q4			65,000,000	55,255,554		2,030.03		(2,030)	108,439	108,439
10/29/2008	Q4			65,000,000	55,361,963		266.90		(267)	86,901	86,901
11/19/2008	Q4			65,000,000	55,448,597		96,048.71		(96,049)	152,404	152,404

Attachment 9 - Financing Costs for Long Term Debt using the Internal Rate of Return Methodology

T/ALCo anticipates its financing will be a 7 year loan, where by T/ALCo pays Origination Fees of \$5.2 million and a Commitments Fee of 0.3% on the undrawn principle. Consistent with GAAP, T/ALCO will amortize the Origination Fees and Commitments Fees using the standard Internal Rate of Return formula below. Each year, T/ALCO will row up the amounts withdrawn, the interest paid in the year. Origination Fees, Commitments Fees, and total loan amount on this attachment.

Total Loan Amount		\$	900,000,000
Internal Rate of Retur	n¹		4.886348%
Based on following Fi	inancial Formula ² :		
NPV = 0 =	$\sum_{t=1}^{N} C_t/(1+IRR)pw$	r.	(t)

Origination Fees		
Origination Fees		7,780,95
Addition Origination Fees		15,12
Total Issuance Expense		7,796,0
	New Borrowing	Old Borrowing
Revolving Credit Commitment Fee	0.0	0.00

After horrowing is at the midpoint (\$275,000)

	11/21/2008	Q4			65,000,000	55,504,952	·	730.00		(720)	14,511	14,511
	12/15/2008	Q4 Q4		25,000,000	90,000,000	55,518,734	718,999.31	730.00		(730) 24,281,001	174,431	(544,569)
445		Q1	40,000,000	23,000,000	90,000,000	79,974,165	7 10,555.51		618,333.53	24,201,001	230,297	
(1)	1/6/2009	Q1	42,068,000			79,974,165	-		618,333.53	(618,334)		230,297
	2/17/2009	Q1		30,000,000	120,000,000	79,586,128			-	30,000,000	438,097	438,097
	3/16/2009	Q1	75,475,000	40,000,000	160,000,000	110,024,225	933,987.50			39,066,013	388,964	(545,023)
	3/25/2009	Q1 Q2		-	160,000,000	149,479,202			1,100,000.00	(1,100,000)	175,942	175,942
	4/8/2009	Q2		-	160,000,000	148,555,144			549,166.67	(549,167)	272,085	272,085
	5/15/2009	Q2		50,000,000	210,000,000	148,278,062				50,000,000	718,820	718,820
	6/16/2009	Q2		40,000,000	250,000,000	198,996,882	1,405,039.11			38,594,961	834,057	(570,982)
	6/30/2009	Q2		-	250,000,000	238,425,899				-	436,686	436,686
	7/31/2009	Q3		-	250,000,000	238,862,586			453,194.44	(453,194)	969,797	969,797
	8/3/2009	Q3		30,000,000	280,000,000	239,379,188			,	30,000,000	93,882	93,882
	9/4/2009	Q3		50,000,000	330,000,000	269,473,071				50,000,000	1,129,444	1,129,444
	9/16/2009	Q3		30,000,000	330,000,000	320,602,515	1,596,826.11			(1,596,826)	503,245	(1,093,581)
	10/5/2009	Q4		45,000,000	375,000,000	319,508,934	207,916.06			44,792,084	794,450	586,534
	10/16/2009	Q4 Q4		45,000,000	375,000,000	365,095,468	207,916.06		321,250.00	(321,250)	525,294	525,294
	11/5/2009	Q4 Q4		30,000,000	405,000,000	365,299,512			321,230.00	30,000,000	956,176	956,176
							-					
	12/4/2009	Q4	70 745 000	50,000,000	455,000,000	396,255,688				50,000,000	1,504,831	1,504,831
	12/16/2009	Q4	73,715,000	-	455,000,000	447,760,519	1,374,479.16			(1,374,479)	702,843	(671,636)
	1/4/2010	Q1			455,000,000	447,088,883			138,489.58	(138,490)	1,111,675	1,111,675
	1/5/2010	Q1		30,000,000	485,000,000	448,062,068	892,331.11			29,107,669	58,568	(833,764)
	1/15/2010	Q1		-	485,000,000	477,228,304	440,625.00			(440,625)	624,167	183,542
	1/25/2010	Q1		(485,000,000)		477,411,847	423,000.00		18,489.58	(485,441,490)	624,407	201,407
	1/25/2010	Q1		450,000,000	450,000,000	(7,405,236)		4,533,000.00		445,467,000	-	-
	1/25/2010	Q1		45,000,000	495,000,000	438,061,764		5,852,578.67		39,147,421	-	-
	1/27/2010 2/3/2010	Q1 Q1			495,000,000 495,000,000	477,209,186 477,326,969		6,979.59 58,000.00		(6,980) (58,000)	124,763	124,763
		Q1								(58,000)	124,763 436,922	124,763 436,922
	2/3/2010	Q1			495,000,000	477,705,891		5,500.00		(5,500)	-	-
	2/5/2010	Q1			495,000,000	477,700,391		82,116.73	2,934.74	(85,051)	124,892	124,892
	2/12/2010	Q1		20,000,000	515,000,000	477,740,231				20,000,000	437,300	437,300
	2/24/2010	Q1			515,000,000	498,177,531		23,770.00		(23,770)	781,982	781,982
	3/10/2010	Q1		30,000,000	545,000,000	498,935,743		90,000.00		29,910,000	913,821	913,821
	3/17/2010	Q1		-	545,000,000	529,759,564		195,720.20		(195,720)	484,916	484,916
	3/26/2010	Q1		20,000,000	565,000,000	530,048,759		17,821.04		19,982,179	623,885	623,885
	4/1/2010	Q2			565,000,000	550,654,823		,-=	255,416.67	(255,417)	432,008	432,008
	4/5/2010	02			565,000,000	550,831,415		123,660.90	22,	(123,661)	288,060	288,060
	4/7/2010	Q2 Q2			565,000,000	550,995,814		201,250.00		(201,250)	144,054	144,054
	4/8/2010	Q2			565,000,000	550,938,618		224,587.75		(224,588)	72,015	72,015
	4/12/2010	Q1		30,000,000	595,000,000	550,786,045		224,301.13		30,000,000	288,036	288,036
	4/14/2010	Q2		30,000,000	595,000,000	581,074,082		194,134.74		(194.135)	151,918	151,918
	4/14/2010											131,910
	4/21/2010	Q2		(05 000 000)	595,000,000	581,031,865	200 572 75	18,977.41		(18,977)	531,848	531,848
	4/26/2010	Q2		(65,000,000)	530,000,000	581,544,735	369,573.75			(65,369,574)	380,177	10,603
	4/26/2010	Q2 Q2 Q2		65,000,000	595,000,000	516,555,339	55,920.56			64,944,079		(55,921) 152,029
	4/28/2010	Q2			595,000,000	581,499,418	-	2,300.79		(2,301)	152,029	152,029
	4/30/2010	Q2			595,000,000	581,649,147		2,156.70		(2,157)	152,068	152,068
	5/7/2010	Q2		30,000,000	625,000,000	581,799,058				30,000,000	532,550	532,550
	5/12/2010	Q2		(80,000,000)	545,000,000	612,331,608				(80,000,000)	400,304	400,304
	5/12/2010	Q2 Q2		80,000,000	625,000,000	532,731,912	160,694.44			79,839,306	-	(160,694)
	5/12/2010	Q2			625,000,000	612,571,218	81,275.00			(81,275)	-	(81,275)
	5/12/2010	Q2			625,000,000	612,489,943	170,100.00			(170,100)	-	(170,100)
	5/20/2010	Q2			625,000,000	612,319,843		182.500.00		(182,500)	640,599	640,599
	5/26/2010	Q2		20,000,000	645,000,000	612,777,942		. ,		20,000,000	480,746	480,746
	6/14/2010	Q2			645,000,000	633,258,687		150,071.58		(150,072)	1,574,581	1,574,581
	7/1/2010	Q3			645,000,000	634,683,197		100,01 1.00	230,764	(230,764)	1,411,820	1,411,820
	7/2/2010	Q3			645,000,000	635,864,253		1,168.50	200,701	(1,169)	83,116	83,116
	7/7/2010	Q3		35,000,000	680,000,000	635,946,200		1,100.00		35,000,000	415,741	415,741
	7/15/2010	Q3		33,000,000	680,000,000	671,361,942	8,500,000.00			(8,500,000)	702,368	(7,797,632)
	7/26/2010	Q3		(65,000,000)	615,000,000	663,564,309	0,000,000.00			(65,000,000)	954,726	954,726
	7/26/2010	Q3		(20,000,000)	595,000,000	599,519,036				(20,000,000)	554,720	
	7/26/2010	Q3		(20,000,000)	710,000,000	579,519,036				115,000,000		-
				115,000,000			115 700 22					(445 700)
	7/26/2010	Q3			710,000,000	694,519,036 694,403,237	115,798.33			(115,798)	-	(115,798)
	7/26/2010	Q2 Q3		(2E 000 000)	710,000,000		544,837.22		100	(544,837)	4 070 000	(544,837)
	8/9/2010	Q3		(35,000,000)	675,000,000	693,858,400	107,415.00			(35,107,415)	1,270,829	1,163,414
	8/9/2010	Q3 Q3		35,000,000	710,000,000	660,021,814	274 000 00			35,000,000		-
	8/12/2010	Q3		(30,000,000)	680,000,000	695,021,814	271,680.83			(30,271,681)	272,581	900
	8/12/2010	Q3		(80,000,000)	600,000,000	665,022,714	699,608.89			(80,699,609)	-	(699,609)
	8/12/2010	Q3		110,000,000	710,000,000	584,323,106	-	107.010.00		110,000,000		
	8/30/2010	Q3		00 000 000	710,000,000	694,323,106	-	407,816.09		(407,816)	1,635,445	1,635,445
	9/7/2010	Q3		30,000,000	740,000,000	695,550,735				30,000,000	727,674	727,674
	9/26/2010	Q3			740,000,000	726,278,408	-				1,805,872	1,805,872
	10/1/2010	Q4			740,000,000	728,084,280			162,778	(162,778)	475,975	475,975
	10/8/2010	Q4		30,000,000	770,000,000	728,397,478	-			30,000,000	666,739	666,739
	10/26/2010	Q4		(115,000,000)	655,000,000	759,064,217	1,028,023.33			(116,028,023)	1,787,940	759,916
	10/26/2010	Q4		115,000,000	770,000,000	644,824,133				115,000,000	-	-
	11/5/2010	Q4		30,000,000	800,000,000	759,824,133	-			30,000,000	993,774	993,774
	11/9/2010	Q4		(35,000,000)	765,000,000	790,817,908	305,721.11			(35,305,721)	413,562	107,841
	11/9/2010	Q4		(30,000,000)	735,000,000	755,925,749	171.937.50			(30,171,938)		(171,938)
	11/9/2010	Q4		(30,000,000)	705,000,000	725,753,811	86,853.33			(30,086,853)	-	(86,853)
	11/9/2010	Q4		95,000,000	800,000,000	695,666,958	00,000.00			95,000,000		(55,555)
	11/12/2010	Q4 Q4		(110,000,000)	690,000,000	790,666,958	955,215.56			(110,955,216)	310,092	(645,123)
		Q4 Q4		(20,000,000)								
	11/12/2010			(30,000,000)	660,000,000	680,021,835	18,946.67			(30,018,947)	-	(18,947)
	11/12/2010	Q4		140,000,000	800,000,000	650,002,888	5.83			139,999,994		(6)
	12/6/2010	Q4		20,000,000	820,000,000	790,002,882				20,000,000	2,482,059	2,482,059
	12/23/2010	Q4			820,000,000	812,484,941		8,281.46		(8,281)	1,807,331	1,807,331
	1/3/2011	Q1			820,000,000	814,283,991			140,277.78	(140,278)	1,171,579	1,171,579
	1/18/2011	Q1			820,000,000	815,315,292	9,000,000			(9,000,000)	1,600,050	(7,399,950)
	1/26/2011	Q1		(115,000,000)	705,000,000	807,915,342	966,600.56			(115,966,601)	845,228	(121,373)
	1/26/2011	Q1		115,000,000	820,000,000	692,793,969	,			115,000,000	,	/
	2/9/2011	Q1		(20,000,000)	800,000,000	807,793,969	118,552.78			(20,118,553)	1,479,507	1,360,954
	2/9/2011	Q1		(95,000,000)	705,000,000	789,154,923	797,767.78			(95,797,768)	.,413,501	(797,768)
	20,2011	٩.		(00,000,000)	, 00,000,000	100,101,020				(00,707,700)	- !	(, , , , , , , , , , , , , , , , , , ,

Attachment 9 - Financing Costs for Long Term Debt using the Internal Rate of Return Methodology

T/ALCo anticipates its financing will be a 7 year loan, where by T/ALCo pays Origination Fees of \$5.2 million and a Commitments Fee of 0.3% on the undrawn principle. Consistent with GAAP, T/ALCo will amortize the Origination Fees and Commitments Fees using the standard Internal Rate of Return formula below. Each year, T/ALCo will row up the amounts withdrawn, the interest paid in the year, Origination Fees, Commitments Fees, and total loan count on this statchment.

Total Loan Amount		\$	900,000,000
Internal Rate of Retur	••		4.886348%
Based on following F	inancial Formula ² :		
NPV = 0 =	$\sum_{t=1}^{N} C_t/(1+IRR)pw$	v	(t)

Origination Fees		
Origination Fees		7,780,954
Addition Origination Fees		15,125
Total Issuance Expense		7,796,07
	New Borrowing	Old Borrowing
Revolving Credit Commitment Fee	0.005	0.005
Revolving Credit Commitment Fee		0.003

After borrowing is at the midpoint (\$275,000)

2/9/2011	Q1	115,000,000	820,000,000	693,357,156			_	115,000,000	-	-
2/14/2011	Q1	(140,000,000)	680,000,000	808,357,156	1,201,215.56			(141,201,216)	528,453	(672,763)
2/14/2011	Q1	140,000,000	820,000,000	667,684,393				140,000,000	-	-
2/16/2011	Q1		820,000,000	807,684,393		3,098.63		(3,099)	211,164	211,164
4/1/2011	Q2	-	820,000,000	807,892,458			97,777.78	(97,778)	4,659,577	4,659,577
4/14/2011	Q2	10,000,000	830,000,000	812,454,257			-	10,000,000	1,381,663	1,381,663
4/26/2011	Q2	(115,000,000)	715,000,000	823,835,920	949,900.00			(115,949,900)	1,293,164	343,264
4/26/2011	Q2	115,000,000	830,000,000	709,179,184				115,000,000	-	-
5/9/2011	Q2	(115,000,000)	715,000,000	824,179,184	941,620.00			(115,941,620)	1,401,603	459,983
5/9/2011	Q2	(140,000,000)	575,000,000	709,639,166	1,081,920.00			(141,081,920)	-	(1,081,920)
5/9/2011	Q2	(10,000,000)	565,000,000	568,557,246	22,375.00			(10,022,375)	-	(22,375)
5/9/2011	Q2	235,000,000	800,000,000	558,534,871				235,000,000		
5/16/2011	Q2	(235,000,000)	565,000,000	793,534,871	145,034.17			(235,145,034)	726,363	581,329
5/16/2011	Q2	235,000,000	800,000,000	559,116,200				235,000,000		
5/23/2011	Q2	(235,000,000)	565,000,000	794,116,200	144,805.69			(235,144,806)	726,895	582,089
5/23/2011	Q2	50,000,000	615,000,000	559,698,289				50,000,000		
5/26/2011	Q2	(115,000,000)	500,000,000	609,698,289	307,912.50	233,657		(115,541,569)	239,118	(68,795)
6/23/2011	Q2	(50,000,000)	450,000,000	494,395,838	88,994.45		-	(50,088,994)	1,812,670	1,723,675
6/23/2011	Q2	20,000,000	470,000,000	446,119,513				20,000,000		
7/6/2011	Q3		470,000,000	466,119,513			171,736.11	(171,736)	792,685	792,685
7/15/2011	Q3		470,000,000	466,740,462	9,000,000			(9,000,000)	549,369	(8,450,631)
7/25/2011	Q3	(20,000,000)	450,000,000	458,289,831	34,417.78			(20,034,418)	599,398	564,980
10/18/2011	Q4		450,000,000	438,854,811			290,416.67	(290,417)	4,902,813	4,902,813
1/17/2012	Q1		450,000,000	443,467,207	9,000,000	0.070.00		(9,000,000)	5,306,145	(3,693,855)
3/2/2012	Q1		450,000,000	439,773,352		3,070.00		(3,070)	2,594,240	2,594,240
7/15/2012	Q3		450,000,000	442,364,522	9,000,000			(9,000,000)	7,874,847	(1,125,153)
1/15/2013	Q1		450,000,000	441,239,369	9,000,000			(9,000,000)	10,740,283	1,740,283
7/15/2013	Q3		450,000,000	442,979,652	9,000,000			(9,000,000)	10,604,752	1,604,752
1/15/2014	Q1		450,000,000	444,584,404	9,000,000			(9,000,000)	10,821,705	1,821,705
7/15/2014	Q3	(450 000 000)	450,000,000	446,406,108	9,000,000			(9,000,000)	10,686,780	1,686,780
1/15/2015	Q1	(450,000,000)	-	448,092,888	9,000,000			(459,000,000)	10,907,105	1,907,105
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Commitment fees for 4th quarter 2008

ATTACHMENT 3 Accounting of Transfers Between CWIP and Plant In Service

West Order ID	Wasta Ondan Name	FERC Account 101/106	Parket (Paradistina		Date of Transfer from CWIP to Plant
Work Order ID	Work Order Number	Sub-Account	Project / Description	Amount	in Service
			TrAIL Projects		
			502 Junction to Territorial Line		
13412255	478229242 478229242	35022, 35400, 35610, 35500, 35620 35022, 35400, 35610, 35500, 35620		(7,068.45) (6,956.56)	May 1, 2019 October 1, 2019
13418596	478437863	35022, 35400, 35500, 35610, 35620 35022, 35400, 35500, 35610, 35620		125.00 111.89 236.89	February 1, 2019 May 1, 2019
13419997	478541318	35500 35610	Line Construction 3	3,000.00	January 1, 2019
13439253	485775299	35011	Sale of Property - Former Anderson	(65,795.28)	November 1, 2019
13439281	485776017	35011	Sale of Property - Former Krepps	(826,502.80)	January 1, 2019
14620046	740069164 740069164 740069164 740069164	35610 35610 35610 35610	502 Jct. Mt Storm 500kv 502 Jct. Mt Storm 500kv 502 Jct. Mt Storm 500kv 502 Jct. Mt Storm 500kv Total	3,892.73 (4,937.08) 204.28 (31,973.93) (32,814.00)	April 1, 2019 May 1, 2019 June 1, 2019 July 1, 2019
14692817	759166158	35610	TrAIL - VA TL 500 kv	(290.46)	August 1, 2019
14936079	804969618	35610	503 Jct - Mt Storm #536 Repl OPGW	7,068.45	October 1, 2019
	806721858 806721858 806721858 806721858 806721858	35610 35610 35610 35610 35610	502 Junction-MT Storm 500kv 503 Junction-MT Storm 500kv 504 Junction-MT Storm 500kv 505 Junction-MT Storm 500kv 506 Junction-MT Storm 500kv	(61,836.28) 67,999.15 (19,113.09) 1,329.05 242.62	May 1, 2019 June 1, 2019 July 1, 2019 August 1, 2019 September 1, 2019
14940439				(11,378.55)	, , , , ,
15036222	818278879 818278879 818278879	35610 35610 35610	502 jct-Mt Storm #536-Repl LAPP ins 502 jct-Mt Storm #536-Repl LAPP ins 502 jct-Mt Storm #536-Repl LAPP ins Total	1,527.73 59.19 <u>(635.88)</u> 951.04	August 1, 2019 September 1, 2019 October 1, 2019
15036223	818278880 818278880 818278880	35610 35610 35610	Meadow Brk-Mt Storm #529-Repl LAPP Meadow Brk-Mt Storm #529-Repl LAPP Meadow Brk-Mt Storm #529-Repl LAPP Total	(39,686.43) 6,087.46 28,908.63 (4,690.34)	May 1, 2019 June 1, 2019 August 1, 2019
15036224	818278744 818278744	35610 35610	502 jct-Mt Storm #536-Repl LAPP ins 502 jct-Mt Storm #536-Repl LAPP ins Total	(48,798.15) (1,406.25) (50,204.40)	May 1, 2019 August 1, 2019
15528779	3384867816	35210	502 Jct-Inst enhanced security syst	(5,189,198.92)	July 1, 2019
15706652	3405708956	35610	529 Line Meadowbrook-Mt. Storm 500k	8,820.98	August 1, 2019
	Various	35620 35620 35620 35620 35620 35620 35620 35620 35620 35620 35620 35620	Vegetation Management	11,408.30 28,184.55 14,497.34 19,292.28 12,451.53 15,138.73 18,752.73 27,526.10 8,769.35 10,327.18 24,482.19	January 1, 2019 February 1, 2019 March 1, 2019 April 1, 2019 May 1, 2019 June 1, 2019 July 1, 2019 August 1, 2019 September 1, 2019 October 1, 2019 November 1, 2019
Various			Total	240,383.77	,
			Total 502 Junction to Territorial Line	(5,927,370.18)	

					Date of Transfer
Work Order ID	Work Order Number	FERC Account 101/106 Sub-Account	Project / Description	Amount	from CWIP to Plant in Service
			TrAIL Projects		
			Other Projects		
13302963	511281437	35300	Mansfield-Everts Dr-Build new 345/1	19,458.14	November 1, 2019
	477989703 477989703	35500, 35610 35500, 35610	Osage-Whiteley (MP) 5.8 mi new 138 Osage-Whiteley (MP) 5.8 mi new 138	369.45 297.65	November 1, 2019 December 1, 2019
13395937			Total	667.10	
	486072630 486072630	35210, 35300 35210, 35300	502 jct substation - install 502 jct substation - install	537.09 1.06	November 1, 2019 December 1, 2019
13448299	400072000	30210, 00000	Total	538.15	Describer 1, 2010
	509201475 509201475	35500 35500	Rider 138kV Line ext Rider 138kV Line ext	126.32 2,871.30	January 1, 2019 March 1, 2019
	509201475	35500	Rider 138kV Line ext	8,411.23	April 1, 2019
	509201475	35500	Rider 138kV Line ext	6,674.40	May 1, 2019
	509201475	35500	Rider 138kV Line ext	350.92	June 1, 2019
	509201475 509201475	35500 35500	Rider 138kV Line ext Rider 138kV Line ext	6,962.18 2,996.32	September 1, 2019 October 1, 2019
13469732	303201473	33300	Total	28,392.67	October 1, 2019
	523690351	35210, 35220, 35300	Pierce Brook Sub: Install 345/230 kV	1,769.17	January 1, 2019
	523690351	35210, 35220, 35300	Pierce Brook Sub: Install 345/230 kV	354.00	February 1, 2019
	523690351	35210, 35220, 35300	Pierce Brook Sub: Install 345/230 kV	3,212.00	March 1, 2019
	523690351 523690351	35210, 35220, 35300 35210, 35220, 35300	Pierce Brook Sub: Install 345/230 kV Pierce Brook Sub: Install 345/230 kV	(881.65) (346.50)	April 1, 2019 May 1, 2019
	523690351	35210, 35220, 35300	Pierce Brook Sub: Install 345/230 kV	259.50	June 1, 2019
	523690351	35210, 35220, 35300	Pierce Brook Sub: Install 345/230 kV	564.50	November 1, 2019
13547208			Total	4,931.02	
	544395083	35610, 35900	Oak Mound - Waldo Run 138 kv	(8,333.71)	January 1, 2019
	544395083	35610, 35900	Oak Mound - Waldo Run 138 kv	673.41	February 1, 2019
	544395083 544395083	35610, 35900 35610, 35900	Oak Mound - Waldo Run 138 kv Oak Mound - Waldo Run 138 kv	1,318.15 4,154.30	March 1, 2019 April 1, 2019
	544395083	35610, 35900	Oak Mound - Waldo Run 138 kv	25.445.90	May 1, 2019
	544395083	35610, 35900	Oak Mound - Waldo Run 138 kv	9,594.92	June 1, 2019
	544395083	35610, 35900	Oak Mound - Waldo Run 138 kv	15,748.50	July 1, 2019
	544395083	35610, 35900	Oak Mound - Waldo Run 138 kv	346,117.56	August 1, 2019
	544395083 544395083	35610, 35900 35610, 35900	Oak Mound - Waldo Run 138 kv Oak Mound - Waldo Run 138 kv	278,038.60 161,151.17	September 1, 2019 October 1, 2019
	544395083	35610, 35900	Oak Mound - Waldo Run 138 kv	37,020.49	November 1, 2019
	544395083	35610, 35900	Oak Mound - Waldo Run 138 kv	3,524.98	December 1, 2019
14080138			Total	874,454.27	
	540699748	35210, 35220, 35300	Erie South: Install +250/-100 MVAR	211.57	February 1, 2019
	540699748 540699748	35210, 35220, 35300 35210, 35220, 35300	Erie South: Install +250/-100 MVAR Erie South: Install +250/-100 MVAR	84.34 1,002.32	March 1, 2019 April 1, 2019
	540699748	35210, 35220, 35300	Erie South: Install +250/-100 MVAR	892.42	May 1, 2019
	540699748	35210, 35220, 35300	Erie South: Install +250/-100 MVAR	(661.44)	
	540699748	35210, 35220, 35300	Erie South: Install +250/-100 MVAR	1,131.50	July 1, 2019
	540699748	35210, 35220, 35300	Erie South: Install +250/-100 MVAR	(524.95)	September 1, 2019
14197715	540699748	35210, 35220, 35300	Erie South: Install +250/-100 MVAR Total	2,407.36 4,543.12	December 1, 2019
17101110			Total	4,043.12	

		FERC Account 101/106			Date of Transfer from CWIP to Plant
Work Order ID	Work Order Number	Sub-Account	Project / Description	Amount	in Service
			TrAIL Projects		
14258354	544496386 544496386 544496386 544496386	35022 35022 35022 35022	Oak Mound - Waldo Run #1 Oak Mound - Waldo Run #1 Oak Mound - Waldo Run #1 Oak Mound - Waldo Run #1 Total	0.47 2,677.10 0.50 (200.00) 2,478.07	January 1, 2019 March 1, 2019 April 1, 2019 May 1, 2019
	545657671 545657671 545657671 545657671 545657671 545657671 545657671 545657671 545657671 545657671 545657671	35210, 35220, 35300 35220, 35300	Const New Richwood Hill SS	1,005.83 939.90 939.90 939.90 939.90 939.90 939.90 939.90 876.00	January 1, 2019 February 1, 2019 March 1, 2019 April 1, 2019 May 1, 2019 June 1, 2019 July 1, 2019 August 1, 2019 September 1, 2019 October 1, 2019 November 1, 2019
14276743	545657671 6895555910 6895555910 6895555910 6895555910 6895555910 6895555910 6895555910 6895555910 6895555910 6895555910	35210, 35220, 35300 35500, 35610, 35900 35500, 35610, 35900 35500, 35610, 35900 35500, 35610, 35900 35500, 35610, 35900 35500, 35610, 35900 35500, 35610, 35900 35500, 35610, 35900 35500, 35610, 35900 35500, 35610, 35900	Const New Richwood Hill SS Total Oak Mound - Waldo Run #1	876.71 11,511.80 4,970.97 27,583.32 139,940.78 255,429.13 223,994.00 332,393.10 335,753.90 178,496.11 (248,134.90) 151,929.95 80,698.08	January 1, 2019 February 1, 2019 February 1, 2019 March 1, 2019 April 1, 2019 June 1, 2019 July 1, 2019 July 1, 2019 July 1, 2019 September 1, 2019 October 1, 2019 November 1, 2019
14464108	6895555910	35500, 35610, 35900	Oak Mound - Waldo Run #1 Total	<u>45,452.13</u> 1,528,416.57	December 1, 2019

Work Order ID	Work Order Number	FERC Account 101/106 Sub-Account	Project / Description	Amount	Date of Transfer from CWIP to Plant in Service
			TrAIL Projects		
			·		
	696302028	35210, 35220, 35300	Warren: Install 4 breaker 230Kv	(1,365.94)	July 1, 2019
	696302028 696302028	35220, 35300 35220, 35300	Warren: Install 4 breaker 230Kv Warren: Install 4 breaker 230Kv	(1,001.65) 13,593.38	November 1, 2019 December 1, 2019
14490072	030002020	00220, 00000	Total	11,225.79	December 1, 2010
	710542810	35300	CIP IT Conemaugh PSP card reader	4,229.51	February 1, 2019
14521947	710542810	35300	CIP IT Conemaugh PSP card reader Total	<u>1,051.61</u> 5,281.12	March 1, 2019
14522061	710542837	35300	CIP IT Meadow Brook SVC PSP card reader	2,598.54	December 1, 2019
	711507286	35210, 35220, 35300	Joffre Substation - Construct 138kv	28.60	January 1, 2019
	711507286 711507286	35210, 35220, 35300 35210, 35220, 35300	Joffre Substation - Construct 138kv Joffre Substation - Construct 138kv	3,449.90 28.60	February 1, 2019 March 1, 2019
	711507286	35210, 35220, 35300	Joffre Substation - Construct 138kv	889.18	April 1, 2019
	711507286	35210, 35220, 35300	Joffre Substation - Construct 138kv	199.60	May 1, 2019
	711507286 711507286	35210, 35220, 35300 35210, 35220, 35300	Joffre Substation - Construct 138kv Joffre Substation - Construct 138kv	9,074.00 57.20	June 1, 2019 July 1, 2019
	711507286	35210, 35220, 35300	Joffre Substation - Construct 138kv	28.60	August 1, 2019
	711507286	35210, 35220, 35300	Joffre Substation - Construct 138kv	28.59	September 1, 2019
	711507286	35210, 35220, 35300	Joffre Substation - Construct 138kv Joffre Substation - Construct 138kv	28.60	October 1, 2019 November 1, 2019
	711507286 711507286	35210, 35220, 35300 35210, 35220, 35300	Joffre Substation - Construct 138kv	28.60 193.98	December 1, 2019
14528199			Total	14,035.45	
14667784	751292370	35300	Damascus SS-Inst 230Kv Capacitor	822,357.72	August 1, 2019
	753545861	35300	Pierce Brook SS-Inst 345 Kv Shunt Re	(276.30)	January 1, 2019
	753545861	35300	Pierce Brook SS-Inst 345 Kv Shunt Re	(100.18)	February 1, 2019
	753545861 753545861	35300 35300	Pierce Brook SS-Inst 345 Kv Shunt Re Pierce Brook SS-Inst 345 Kv Shunt Re	(7.20) 2,210.82	March 1, 2019 April 1, 2019
	753545861	35300	Pierce Brook SS-Inst 345 Kv Shunt Re	62,615.30	May 1, 2019
	753545861	35300	Pierce Brook SS-Inst 345 Kv Shunt Re	65,905.60	June 1, 2019
	753545861 753545861	35300 35300	Pierce Brook SS-Inst 345 Kv Shunt Re Pierce Brook SS-Inst 345 Kv Shunt Re	(210,187.17) (10,276.66)	July 1, 2019 August 1, 2019
	753545861	35300	Pierce Brook SS-Inst 345 Kv Shunt Re	43.52	October 1, 2019
14674519			Total	(90,072.27)	
	753546385	35300	Mainsburg SS-Inst 2nd Pilot Commun	101,801.76	February 1, 2019
	753546385 753546385	35300 35300	Mainsburg SS-Inst 2nd Pilot Commun	26,850.16	March 1, 2019
14674548	755546565	33300	Mainsburg SS-Inst 2nd Pilot Commun Total	(2,253,333.59) (2,124,681.67)	September 1, 2019
	765959807	35300	Mainsburg Substation	(56,092.15)	September 1, 2019
	765959807	35300	Mainsburg Substation	(26,925.93)	October 1, 2019
14716425	765959807	35300	Mainsburg Substation	8,792.71 (74.225.27)	November 1, 2019
14716425			Total	(74,225.37)	
14744334	774109364	35300	Doubs-Repl Arrestoers on T3 Xfmr	(13,152.28)	September 1, 2019
15039439	818656493	35300	502 junction-DWDM Expansion	(84,861.19)	July 1, 2019
	819169327	35300	Meadow Brook -Inst DWDM Node Meadow Brook -Inst DWDM Node	294.05	January 1, 2019
	819169327 819169327	35300 35300	Meadow Brook -Inst DWDM Node	38.21 (179,296.67)	February 1, 2019 July 1, 2019
15045085			Total	(178,964.41)	
	819168369	35300	Meadow Brook-Inst MPLS Router	166.50	January 1, 2019
	819168369	35300	Meadow Brook-Inst MPLS Router	373.79	June 1, 2019
15045134	819168369	35300	Meadow Brook-Inst MPLS Router Total	106.50 646.79	December 1, 2019
15045135	819169421	35300	Meadow Brook SVC-Inst MPLS Router	106.50	December 1, 2019
	819169432	35300	502 Junction-Inst MPLS Router	153,960.23	July 1, 2019
	819169432	35300	502 Junction-Inst MPLS Router	674.53	December 1, 2019
15045170			Total	154,634.76	
15085575	824654603	35300	Kammer- T200 Xfmr repair	23,163.08	December 1, 2019
15105602	827587905	35300	Meadow Brook SS Replace Bushings	(13,919.27)	September 1, 2019
	834027523	35210 35210	TREP - Waldo Run-Repairs along main	40,534.67	January 1, 2019
	834027523 834027523	35210 35210	TREP - Waldo Run-Repairs along main TREP - Waldo Run-Repairs along main	(17,992.13) 34,116.27	February 1, 2019 March 1, 2019
	834027523	35210	TREP - Waldo Run-Repairs along main	(2,576.19)	April 1, 2019
	834027523	35210	TREP - Waldo Run-Repairs along main	1,965.14	May 1, 2019
	834027523 834027523	35210 35210	TREP - Waldo Run-Repairs along main TREP - Waldo Run-Repairs along main	2,378.58 <u>14,367.28</u>	June 1, 2019 July 1, 2019
15150073			Total	72,793.62	, ., == .0
15157027	836234686	35300	Hunterstown SVC Reactor TCR11	(10,645.03)	September 1, 2019
				, ,	•
15311182	3379674313	35300	Black Oak SVC Reactor TCR22-L1	16,500.85	May 1, 2019

Work Order ID	Work Order Number	FERC Account 101/106 Sub-Account	Project / Description	Amount	Date of Transfer from CWIP to Plant in Service
Work Order ID	Work Order Number	3ub-Account		Amount	III Service
			TrAIL Projects		
	3366277229 3366277229 3366277229 3366277229 3366277229 3366277229	35300 35300 35300 35300 35300 35300 35300	Mainesburg-Inst Shunt Reactor+345kv Mainesburg-Inst Shunt Reactor+345kv Mainesburg-Inst Shunt Reactor+345kv Mainesburg-Inst Shunt Reactor+345kv Mainesburg-Inst Shunt Reactor+345kv Mainesburg-Inst Shunt Reactor+345kv Mainesburg-Inst Shunt Reactor+345kv	9,769,656.25 55,265.97 253,108.44 144,931.29 79,607.32 114,947.71 31,511.62	May 1, 2019 June 1, 2019 July 1, 2019 August 1, 2019 September 1, 2019 October 1, 2019 November 1, 2019
15386903	3366277229	35300	Mainesburg-Inst Shunt Reactor+345kv Total	37,667.19 10,486,695.79	December 1, 2019
15435831	3372644707 3372644707 3372644707 3372644707	35300 35300 35300 35300	Black Oak SVC-Inst Physical Securit Black Oak SVC-Inst Physical Securit Black Oak SVC-Inst Physical Securit Black Oak SVC-Inst Physical Securit Total	591.42 1,632.48 1,943.87 167.68 4,335.45	January 1, 2019 October 1, 2019 November 1, 2019 December 1, 2019
	3375029227 3375029227 3375029227 3375029227 3375029227 3375029227 3375029227 3375029227 3375029227 3375029227	35300 35300 35300 35300 35300 35300 35300 35300 35300 35300	Mainesburg-Remote end for Z1-069	12,571.37 (3,136.39) 3,698.13 (3,512.45) 86.23 (121.72) (171.08) 0.01 (12.99) 25.58	March 1, 2019 April 1, 2019 May 1, 2019 June 1, 2019 July 1, 2019 August 1, 2019 September 1, 2019 October 1, 2019 November 1, 2019
15454982	3375029235 3375029235 3375029235 3375029235 3375029235 3375029235 3375029235	35300 35300 35300 35300 35300 35300 35300 35300 35300	Total Pierce brook Remote end for Z1-069	9,426.69 1,346.54 33.46 (8,28) (1,21) (12,29) 84.29 (83.38) (12,99) 25.58	June 1, 2019 July 1, 2019 August 1, 2019 September 1, 2019 November 1, 2019
15454983	3375029235	33300	Total	1,371.72	December 1, 2019
15504855	3382211383 3382211383 3382211383 3382211383 3382211383	35400 35400 35400 35400 35400	Buckhannon Falls-Rider GlenFalls Buckhannon Falls-Rider GlenFalls Buckhannon Falls-Rider GlenFalls Buckhannon Falls-Rider GlenFalls Buckhannon Falls-Rider GlenFalls Total	1,402,464.43 107,968.72 159,925.69 15,813.98 7.812.91 1,693,985.73	August 1, 2019 September 1, 2019 October 1, 2019 November 1, 2019 December 1, 2019
	3384867816 3384867816 3384867816 3384867816 3384867816 3384867816	35300 35300 35300 35300 35300 35300	502 JCT-Int enhanced security syst 502 JCT-Int enhanced security syst 502 JCT-Int enhanced security syst 502 JCT-Int enhanced security syst 502 JCT-Int enhanced security syst 503 JCT-Int enhanced security syst	58,243.17 115,251.42 9,108.38 (1,312.10) 65.79 (25,406.41)	January 1, 2019 February 1, 2019 March 1, 2019 April 1, 2019 May 1, 2019 July 1, 2019
15528779	000.007.010	33333	Total	155,950.25	oaly 1, 2010
15677487	3402354876	35300	MPLS Installation at Conemaugh	124,370.99	December 1, 2019
15677526	3402355290	35300	Conemaugh RTU Replacement	(36,600.65)	November 1, 2019
15677573	3402357354 3402357354	35300 35300	Conemaugh- Install Security (ESS) Conemaugh- Install Security (ESS) Total	469,627.52 -1499.99 468,127.53	November 1, 2019 December 1, 2019
	3419116492 3419116492 3419116492 3419116492 3419116492 3419116492	35300 35300 35300 35300 35300 35300	Equip Investigate/Repair Miscella Equip Investigate/Repair Miscella Equip Investigate/Repair Miscella Equip Investigate/Repair Miscella Equip Investigate/Repair Miscella Equip Investigate/Repair Miscella	1,147,705.62 271,210.32 199,296.01 338,860.78 414,263.52 79194.54	July 1, 2019 August 1, 2019 September 1, 2019 October 1, 2019 November 1, 2019 December 1, 2019
15815914	0710110402	55500	Total	2,450,530.79	2000111201 1, 2019
15835814	3445916534 3445916534 3445916534 3445916534	35300 35300 35300 35300	Black Oak SVC SS Black Oak SVC SS Black Oak SVC SS Black Oak SVC SS Total	504,057.47 45,255.40 9,961.18 <u>561.18</u> 559,835.23	April 1, 2019 May 1, 2019 June 1, 2019 July 1, 2019
4500050	3432441748 3432441748 3432441748 3432441748 3432441748	35300 35300 35300 35300 35300	502 Junction SS-Repl 2 SEL-1102 502 Junction SS-Repl 2 SEL-1102 502 Junction SS-Repl 2 SEL-1102 502 Junction SS-Repl 2 SEL-1102 502 Junction SS-Repl 2 SEL-1102	220,773.96 2,422.99 941.06 6,503.65 618.61	July 1, 2019 August 1, 2019 September 1, 2019 October 1, 2019 November 1, 2019
15920252	3432441758	35300	Total 502 Junction SS-GE-D 60 Line Rely	231,260.27 179,278.81	June 1, 2019

Work Order ID	Work Order Number	FERC Account 101/106 Sub-Account	Project / Description	Amount	Date of Transfer from CWIP to Plant in Service
Work Order ID	Work Order Humber	oub-Account	<u> </u>	Amount	III Service
			TrAIL Projects		
	3432441758	35300	502 Junction SS-GE-D 60 Line Rely	18,604.43	July 1, 2019
	3432441758	35300	502 Junction SS-GE-D 60 Line Rely	6,188.63	August 1, 2019
	3432441758	35300	502 Junction SS-GE-D 60 Line Rely	1,976.46	September 1, 2019
	3432441758	35300	502 Junction SS-GE-D 60 Line Rely	496.81	October 1, 2019
	3432441758	35300	502 Junction SS-GE-D 60 Line Rely	427.81	November 1, 2019
45000050	3432441758	35300	502 Junction SS-GE-D 60 Line Rely	67.09	December 1, 2019
15920253			Total	207,040.04	
	3432749626	35300	Wylie Ridge SS-Repl SEL-1102	38,725.32	May 1, 2019
	3432749626	35300	Wylie Ridge SS-Repl SEL-1102	478.71	June 1, 2019
	3432749626	35300	Wylie Ridge SS-Repl SEL-1102	2,330.89	July 1, 2019
45000450	3432749626	35300	Wylie Ridge SS-Repl SEL-1102	(1,000.96)	August 1, 2019
15922453			Total	40,533.96	
	3432749643	35300	Wylie Ridge SS-Repl SAM-900	104,047.75	October 1, 2019
	3432749643	35300	Wylie Ridge SS-Repl SAM-900	1,323.91	November 1, 2019
	3432749643	35300	Wylie Ridge SS-Repl SAM-900	1,902.95	December 1, 2019
15922758			Total	107,274.61	
	3432749693	35300	Cabot SS-Repl SEL-1102	170,663.55	June 1, 2019
	3432749693	35300	Cabot SS-Repl SEL-1102	3,209.28	July 1, 2019
	3432749693	35300	Cabot SS-Repl SEL-1102	731.61	August 1, 2019
	3432749693	35300	Cabot SS-Repl SEL-1102	9.14	September 1, 2019
	3432749693	35300	Cabot SS-Repl SEL-1102	132.13	December 1, 2019
15922761			Total	174,745.71	
	3448565967	35210	Black Oak SS-Upg 500kv SVC cooling	80,754.97	April 1, 2019
	3448565967	35210	Black Oak SS-Upg 500kv SVC cooling	3,122.45	May 1, 2019
	3448565967	35210	Black Oak SS-Upg 500kv SVC cooling	1,378.23	June 1, 2019
	3448565967	35210	Black Oak SS-Upg 500kv SVC cooling	178.77	July 1, 2019
	3448565967	35210	Black Oak SS-Upg 500kv SVC cooling	323.92	August 1, 2019
16074657			Total	85,758.34	
	3451664947	35300	Pierce brook SS-Instl 7 SATEC Panel	29,976.26	June 1, 2019
	3451664947	35300	Pierce brook SS-Instl 7 SATEC Panel	21,245.46	July 1, 2019
	3451664947	35300	Pierce brook SS-Instl 7 SATEC Panel	(1,465.77)	August 1, 2019
	3451664947	35300	Pierce brook SS-Instl 7 SATEC Panel	431.86	September 1, 2019
16095556	3451664947		Total	50,187.81	
			Total Other Projects	17,823,043.90	
			Total Additions	11,895,673.72	