Formula Rate calculation

Rate Formula Template
Utilizing Attachment O - ATCLLC Data

American Transmission Company LLC

To be completed in conjunction with Attachment O - ATCLLC.

Line No.	(1)	(2) Attachment O - ATCLLC Page, Line, Col.	(3) Transmission	(4) Allocator
1	Gross Transmission Plant - Total	Attach O - ATCLLC, p 2, lines 2 & 3a col 5 less Note K (Note A)	9,243,097,305	
2	Net Transmission Plant - Total	Attach O - ATCLLC, p 2, lines 14 & 15a col 5 less Note K (Note B)	6,625,737,301	
	O&M EXPENSE			
3	Total O&M Allocated to Transmission	Attach O - ATCLLC, p 3, line 8 col 5	193,131,346	
3a	Less: Preliminary Survey and Investigation Adjustment (Note I)	Included in Attach O - ATCLLC, P 3, line 1 col 5	21,795,130	
3b	Adjusted O&M Allocated to Transmission	(line 3 minus line 3a col 3)	171,336,216	
4	Annual Allocation Factor for O&M	(line 3b divided by line 1 col 3)	1.85%	1.85%
	REGULATORY LIABILITY AMORTIZATION AND GENERAL AND COMMON (G&C) DEPRECIATION EXPENSE			
5	Total Reg. Liability Amort. and G&C Depreciation Expense	Attach O - ATCLLC, p 3, lines 9a, 10 & 11, col 5 plus Note K (Note H)	42,817,242	
6	Annual Allocation Factor for G&C Depreciation Expense	(line 5 divided by line 1 col 3)	0.46%	0.46%
	TAXES OTHER THAN INCOME TAXES			
7	Total Other Taxes	Attach O - ATCLLC, p 3, line 20 col 5	36,496,384	
8	Annual Allocation Factor for Other Taxes	(line 7 divided by line 1 col 3)	0.39%	0.39%
9	**Annual Allocation Factor for Expense**	**Sum of line 4, 6, and 8**		**2.71%**
	INCOME TAXES			
10	Total Income Taxes	Attach O - ATCLLC, p 3, line 27 col 5	96,183,657	
11	Annual Allocation Factor for Income Taxes	(line 10 divided by line 2 col 3)	1.45%	1.45%
	RETURN			
12	Return on Rate Base	Attach O - ATCLLC, p 3, line 28 col 5	469,140,300	
13	Annual Allocation Factor for Return on Rate Base	(line 12 divided by line 2 col 3)	7.08%	7.08%
14	**Annual Allocation Factor for Return**	**Sum of line 11 and 13**		**8.53%**

Formula Rate calculation

Rate Formula Template
Utilizing Attachment O - ATCLLC Data

American Transmission Company LLC

Network Upgrade Charge Calculation By Project

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(9a)	(10)	(11)	(12)
Line No.	Project Name	MTEP Project Number	Project Gross Plant	Annual Allocation Factor for Expense	Annual Expense Charge	Project Net Plant	Annual Allocation Factor for Return	Annual Return Charge	Project Depreciation Expense	Preliminary Survey and Investigation Expense	Annual Revenue Requirement	True-Up Adjustment	Network Upgrade Charge
			(Note C)	(Page 1 line 9)	(Col. 3 * Col. 4)	(Note D)	(Page 1 line 14)	(Col. 6 * Col. 7)	(Note E)	(Note J)	(Sum Col. 5, 8, 9 & 9a)	(Note F)	(Sum Col. 10 & 11) (Note G)
1a	Werner West-Morgan (MTEP06)	345	$ 141,489,623	2.71%	$ 3,836,847	$ 86,167,125	8.53%	$ 7,351,988	$ 3,312,803	$ -	$ 14,501,638	$ (170,370)	$ 14,331,267
1b	Cranberry-Conover-Iron River-Plains (MTEP06)	352	$ 88,185,651	2.71%	$ 2,391,376	$ 50,630,626	8.53%	$ 4,319,928	$ 2,064,406	$ -	$ 8,775,710	$ (109,066)	$ 8,666,644
1c	Rockdale-W.Middleton 345kV (MTEP08)	356	$ 140,831,065	2.71%	$ 3,818,989	$ 97,264,899	8.53%	$ 8,298,877	$ 3,113,340	$ -	$ 15,231,206	$ (176,655)	$ 15,054,551
1d	Pleasant Valley - St. Lawrence (MTEP06)	1453	$ 8,744,623	2.71%	$ 237,132	$ 4,265,197	8.53%	$ 363,917	$ 255,567	$ -	$ 856,616	$ (10,637)	$ 845,979
1e	G507-Cedar Ridge Wind Farm (MTEP07)	1616	$ 1,259,093	2.71%	$ 34,143	$ 862,697	8.53%	$ 73,607	$ 32,489	$ -	$ 140,239	$ (15,128)	$ 125,112
1f	2nd Kewaunee Xfr (MTEP11)	1950	$ 14,480,990	2.71%	$ 392,688	$ 8,972,616	8.53%	$ 765,565	$ 407,889	$ -	$ 1,566,142	$ (15,228)	$ 1,550,915
1g	GIC706-H012 Glacier Hills Wind Park (MTEP09/11)	2452	$ 1,964,607	2.71%	$ 53,275	$ 1,449,390	8.53%	$ 123,665	$ 53,379	$ -	$ 230,319	$ (19,093)	$ 211,227
1h	G833 Interim Upgrades (MTEP10)	2793	$ 14,405	2.71%	$ 391	$ 354,978	8.53%	$ 30,288	$ 726	$ -	$ 31,405	$ 16,893	$ 48,298
1i	G834 Interim Upgrades (MTEP10)	2837	$ 313,646	2.71%	$ 8,505	$ 412,946	8.53%	$ 35,234	$ 8,863	$ -	$ 52,602	$ (5,398)	$ 47,203
1j	Straits Power Flow Controller (MTEP11)	2846	$ 120,152,856	2.71%	$ 3,258,247	$ 71,552,146	8.53%	$ 6,105,002	$ 4,284,032	$ -	$ 13,647,281	$ (151,771)	$ 13,495,509
1k	Arnold Transformer (MTEP12)	3125	$ 26,280,957	2.71%	$ 712,674	$ 18,391,090	8.53%	$ 1,569,172	$ 741,704	$ -	$ 3,023,550	$ (41,133)	$ 2,982,418
1l	G833/4 Long Term Solution (MTEP11)	3206	$ 25,747,210	2.71%	$ 698,200	$ 20,425,050	8.53%	$ 1,742,715	$ 658,030	$ -	$ 3,098,945	$ (35,338)	$ 3,063,607
1m	Green Bay to Morgan 345 kV / Memominee Co to Delta Co 138 kV (MTEP12)	3679	$ 226,582,493	2.71%	$ 6,144,354	$ 178,567,200	8.53%	$ 15,235,786	$ 5,485,038	$ -	$ 26,865,178	$ (409,362)	$ 26,455,816
1n	Lafayette County Wind GIC-J395 Falcon Substation & Network Upgrades (MTEP17)	12284	$ 7,445,003	2.71%	$ 201,890	$ 5,949,505	8.53%	$ 507,626	$ 193,112	$ -	$ 902,628	$ (52,843)	$ 849,786
1o	West Riverside GIC J390 Kittyhawk Substation (MTEP17)	13103	$ 19,801,267	2.71%	$ 536,961	$ 17,296,227	8.53%	$ 1,475,756	$ 511,744	$ -	$ 2,524,461	$ (96,514)	$ 2,427,948
1p	J704 WeEnergies GIC-Network Upgrades (MTEP18)	13769	$ 8,380,625	2.71%	$ 227,262	$ 6,715,721	8.53%	$ 573,002	$ 238,091	$ -	$ 1,038,355	$ (56,579)	$ 981,776
1q	J703 WeEnergies GIC-Network Upgrades (MTEP18)	13784	$ 6,619,944	2.71%	$ 179,516	$ 5,388,999	8.53%	$ 459,802	$ 184,537	$ -	$ 823,855	$ (44,729)	$ 779,126
1r	J505 GIC, Apollo SS Network Facilities (MTEP18)	14925	$ 2,664,959	2.71%	$ 72,267	$ 2,306,424	8.53%	$ 196,790	$ 76,177	$ -	$ 345,234	$ (9,089)	$ 336,144
1s	Garden Corners SS GIC Network Upgrades (MTEP19)	16494	$ 216,108	2.71%	$ 5,860	$ 186,279	8.53%	$ 15,894	$ 7,018	$ -	$ 28,772	$ (667)	$ 28,105
1t	J928/J849 Indian Lake Common Use Upgrades (MTEP19)	17064	$ 52,198	2.71%	$ 1,415	$ 45,037	8.53%	$ 3,843	$ 1,695	$ -	$ 6,953	$ 107	$ 7,060
1u	J870/J871 MPFCA Highland Generator Network Upgrades (MTEP20)	17525	$ 7,276,441	2.71%	$ 197,319	$ 6,551,426	8.53%	$ 558,984	$ 204,528	$ -	$ 960,831	$ 111,719	$ 1,072,551
1v	J886 GIC Kewaunee SS Network Upgrades (MTEP20)	17526	$ 539,932	2.71%	$ 14,642	$ 398,704	8.53%	$ 34,018	$ 18,064	$ -	$ 66,724	$ (4,735)	$ 61,988
1w	J850/J878 MPFCA East Paris New SS (MTEP20)	18665	$ 2,437,257	2.71%	$ 66,092	$ 2,265,540	8.53%	$ 193,301	$ 65,508	$ -	$ 324,901	$ (1,918)	$ 322,983
1x	J870 J871 Highland SS Network Upgrades (MTEP20)	18849	$ 3,367,348	2.71%	$ 91,314	$ 3,073,472	8.53%	$ 262,236	$ 90,416	$ -	$ 443,966	$ (22,294)	$ 421,672
1y	J818 Jefferson SS Generator Network Upgrades (MTEP20)	18925	$ -	2.71%	$ -	$ -	8.53%	$ -	$ -	$ -	$ -	$ (265)	$ (265)
1z	J850/J878 MPFCA East Paris New SS (MTEP20)	18985	$ 16,492,425	2.71%	$ 447,234	$ 15,953,497	8.53%	$ 1,361,191	$ 431,142	$ -	$ 2,239,567	$ -	$ 2,239,567
1aa	J947 Tennyson SS Network Upgrades (MTEP20)	19145	$ 6,319,203	2.71%	$ 171,361	$ 5,959,358	8.53%	$ 508,467	$ 171,024	$ -	$ 850,852	$ (9,296)	$ 841,556
1bb	J850 North Creek Network Upgrade (MTEP20)	19146	$ 7,490,843	2.71%	$ 203,133	$ 7,217,785	8.53%	$ 615,839	$ 218,474	$ -	$ 1,037,446	$ -	$ 1,037,446
1cc	J864 J870 J871 J947 MPFCA Common Use Upgrades (MTEP20)	19246	$ 182,733	2.71%	$ 4,955	$ 170,738	8.53%	$ 14,568	$ 4,552	$ -	$ 24,075	$ 11,215	$ 35,290
1dd	J807 J819 J870 J947 MPFCA Common Use Upgrades (MTEP20)	19248	$ 108,109	2.71%	$ 2,932	$ 101,725	8.53%	$ 8,679	$ 3,005	$ -	$ 14,616	$ 821	$ 15,437
1ee	J878 GIC Paris SS Network Upgrades (MTEP20)	19265	$ 1,612,838	2.71%	$ 43,736	$ 1,535,903	8.53%	$ 131,047	$ 51,290	$ -	$ 226,073	$ (182,825)	$ 43,248
1ff	J807 J864 J870 J871 J947 MPFCA Common Use Upgrades (MTEP20)	19267	$ 66,596	2.71%	$ 1,806	$ 62,450	8.53%	$ 5,328	$ 1,851	$ -	$ 8,985	$ 1,137	$ 10,122
1gg	J864 J870 J871 MPFCA Common Use Upgrades (MTEP20)	19269	$ 237,889	2.71%	$ 6,451	$ 210,533	8.53%	$ 17,963	$ 7,957	$ -	$ 32,371	$ (1,778)	$ 30,594
1hh	J986 7 Mile Creek SS Network Upgrades (MTEP21)	20625	$ 4,540,500	2.71%	$ 123,127	$ 4,121,777	8.53%	$ 351,680	$ 130,485	$ -	$ 605,292	$ (34,673)	$ 570,620
1ii	J1000 Comet SS Network Upgrades (MTEP22)	21648	$ 3,277,291	2.71%	$ 88,872	$ 3,078,634	8.53%	$ 262,677	$ 85,797	$ -	$ 437,346	$ 107,002	$ 544,349
1jj	J1002 Wautoma SS Network Upgrades (MTEP22)	21812	$ 502,256	2.71%	$ 13,620	$ 469,233	8.53%	$ 40,036	$ 14,238	$ -	$ 67,894	$ (942)	$ 66,952
1kk	J986 J1002 MPFCA Network Upgrades (MTEP22)	21814	$ 2,806,960	2.71%	$ 76,118	$ 2,692,038	8.53%	$ 229,691	$ 81,065	$ -	$ 386,874	$ (80,450)	$ 306,424
1ll	J855 J864 J870 J871 MPFCA (MTEP22)	22045	$ 22,440	2.71%	$ 609	$ 20,845	8.53%	$ 1,779	$ 624	$ -	$ 3,012	$ 550	$ 3,562
1mm	J1154 Crawfish River Solar Network Upgrades (MTEP22)	22047	$ 637,854	2.71%	$ 17,297	$ 588,858	8.53%	$ 50,243	$ 22,595	$ -	$ 90,135	$ (28,937)	$ 61,198
1nn	J986 J1002 J1003 MPFCA (MTEP22)	22048	$ 42,759	2.71%	$ 1,160	$ 40,457	8.53%	$ 3,452	$ 1,013	$ -	$ 5,625	$ 554	$ 6,180
1oo	J1101 Kewaunee SS Network Upgrades (MTEP22)	22049	$ 16,842	2.71%	$ 457	$ 16,784	8.53%	$ 1,432	$ 500	$ -	$ 2,389	$ -	$ 2,389
1pp	J1002 J1003 MPFCA Network Upgrades (MTEP22)	22085	$ -	2.71%	$ -	$ -	8.53%	$ -	$ -	$ -	$ -	$ (1,551)	$ (1,551)
1qq	J1153 Holland SS Network Upgrades (MTEP22)	22145	$ 2,950,550	2.71%	$ 80,012	$ 2,762,271	8.53%	$ 235,684	$ 86,683	$ -	$ 402,379	$ (123,400)	$ 278,979
1rr	J1171 Butternut SS Network Upgrades (MTEP22)	22146	$ 1,253,010	2.71%	$ 33,979	$ 1,194,326	8.53%	$ 101,903	$ 42,712	$ -	$ 178,594	$ (2,723)	$ 175,870
1ss	J1042 J1188 MPFCA Network Upgrades (MTEP22)	22225	$ 152,680	2.71%	$ 4,140	$ 146,630	8.53%	$ 12,511	$ 4,414	$ -	$ 21,065	$ -	$ 21,065
1tt	J1374 Ebenezer SS Network Upgrades (MTEP23)	24445	$ -	2.71%	$ -	$ -	8.53%	$ -	$ -	$ -	$ -	$ -	$ -
1uu	J1304 J1305 J1460 MPFCA Network Upgrades (MTEP23)	24782	$ -	2.71%	$ -	$ -	8.53%	$ -	$ -	$ -	$ -	$ -	$ -
1vv	J1305 Norwegian CreekSS Netwrk Upgr (MTEP23)	25262	$ 3,370,695	2.71%	$ 91,405	$ 3,155,382	8.53%	$ 269,225	$ 92,656	$ -	$ 453,286	$ 440,483	$ 893,769
1ww	J1304 Big Hill Park Network Upgrade (MTEP24)	50036	$ 4,411,061	2.71%	$ 119,617	$ 4,132,868	8.53%	$ 352,626	$ 118,929	$ -	$ 591,172	$ 575,997	$ 1,167,169
1xx	Elm Road Generation POI Relocation Project (MTEP24)	50184	$ -	2.71%	$ -	$ -	8.53%	$ -	$ -	$ -	$ -	$ -	$ -
2	Annual Totals		$911,343,831		$24,713,380	$643,125,385		$54,873,017	$23,580,165	$0	$103,166,562	($648,905)	$102,517,656
3	Rev. Req. Adj For Attachment O - ATCLLC										$103,166,562		

Note Letter	
A	Gross Transmission Plant is that identified on page 2 line 2 of Attachment O - ATCLLC and includes any sub lines 2a or 2b etc. and is inclusive of any CWIP included in rate base when authorized by FERC orderless any prefunded AFUDC, if applicable. Also, includes Gross Energy Storage Plant identified as a transmission asset on page 2 line 3a of Attachment O - ATCLLC less Note K, line 1 adjustment.
B	Net Transmission Plant is that identified on page 2 line 14 of Attachment O - ATCLLC and includes any sub lines 14a or 14b etc. and is inclusive of any CWIP included in rate base when authorized by FERC orderless any prefunded AFUDC, if applicable. Also includes Net Energy Storage Plant identified as a transmission asset on page 2 line 15a of Attachment O - ATCLLC less Note K, line 3 adjustment.
C	Project Gross Plant is the total capital investment for the project calculated in the same method as the gross plant value in line 1, but does not exclude project-specific amounts in Accounts 351.1, 351.2, or 351.3 (if applicable), and includes CWIP in rate base less any prefunded AFUDC, if applicable. This value includes subsequent capital investments required to maintain the facilities to their original capabilities.
D	Project Net Plant is the Project Gross Plant Identified in Column 3 less the associated Accumulated Depreciation.
E	Project Depreciation Expense is the actual value booked for the project and included in the Depreciation Expense in Attachment O - ATCLLC page 3 line 12.
F	True-Up Adjustment is included pursuant to a FERC approved methodology, if applicable.
G	The Network Upgrade Charge is the value to be used in schedules associated with Attachment GG - ATCLLC.
H	The Total General and Common Depreciation Expense excludes any depreciation expense directly associated with a project and thereby included in page 2 column 9. Note the amount reported in Line 9a of Attachment O – ATCLLC is a negative and should be used as a negative number. Also includes Note K adjustment, line 4.
I	Preliminary Survey and Investigation expense (pre-certification costs) equals the actual value booked, or projected to be booked for forward-looking rate periods, for all of the MISO approved projects and included in Attachment O – ATCLLC, Page 3, Line 1, Column 5.
J	Preliminary Survey and Investigation expense (pre-certification costs) equals the actual value booked, or projected to be booked for forward-looking rate periods, for each of the MISO approved RECB Projects and included in Attachment O – ATCLLC, Page 3, Line 1, Column 5.
K	Gross plant, net plant and general and common depreciation expense adjustments related to Accounts 351.1, 351.2 and 351.3.

	Company Total	TP	Transmission	
1. Gross plant in Accounts 351.1, 351.2 and 351.3 (included in Attachment O-ATCLLC, p 2, line 2a).	$ 244,323,418	1.00000	$ 244,323,418	- Exclude from page 1, line 1
2. Accumulated depreciation related to Accounts 351.1, 351.2 and 351.3 (included in Attachment O-ATCLLC, p 2, line 8a).	$ 62,729,955	1.00000	$ 62,729,955	
3. Net plant for Accounts 351.1, 351.2 and 351.3.	$ 181,593,463		$ 181,593,463	- Exclude from page 1, line 2
4. Depreciation & amortization related to Accounts 351.1, 351.2 and 351.3 (included in Attachment O-ATCLLC, p 3, line 9)	$ 17,613,228	1.00000	$ 17,613,228	- Include with page 1, line 5