



Western Area
Power Administration

Western Area Power Administration (WAPA) Upper Great Plains Region (WAPA-UGP) Transmission and Ancillary Services Rate True-up Calculation Effective January 1, 2024

WAPA-UGP 2022 Rate True-up Calculation (Rev 1)

(Rate Order No. WAPA-188)

WAPA-UGP

Transmission and Ancillary Services List of Workpapers and Schedules

Worksheet Tab Label

Summary-TrueUp
WS1-RateBase
WS2-AllocFactor
WS3-RevCredits
WS4-CostData
WS5-BPUz
WS6-BPUr
WS7-BPUFac
WS8-TranFac
WS9-AI-Inc
WS10-AI-Excl
WS11-FacChanges
WS12-SSCD
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Worksheet Tab Description

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WAPA-UGP 2022 Rate True-up Calculation (Rev 1)			Back to Worksheet Links			
Summary-TrueUp						
12 Months Ending 09/30/2022 True-up						
	(1)	(2)	(3)	(4)	(5)	(6)
Western-UGP True-up Summary						
Line No.	Description	Reference	SPP 2022 Estimate	SPP 2022 Actual	Allocation	Western-UGP Difference Annual
1	Gross Zonal Revenue Requirement-Sch 9	WS1-RateBase C5L1	\$ 160,025,370	\$ 159,607,649		\$ (417,721)
2	Firm Point-to-Point Transmission Service Credit/1	WS3-RevCredits C6L28	\$ (6,094,000)	\$ (6,972,608)	100%	\$ (878,608)
3	Non-Firm Point-to-Point Transmission Service Credit	WS3-RevCredits C6L42	\$ (2,725,000)	\$ (3,231,131)	100%	\$ (506,131)
4	Revenue from Existing Transmission Agreements	WS3-RevCredits C6L56+L70	\$ (1,170,700)	\$ (1,247,563)	100%	\$ (76,863)
5	Scheduling, System Control, and Dispatch Service Credit	WS12-SSCD C2L11	\$ (12,798,990)	\$ (13,100,841)	100%	\$ (301,851)
6	Account No. 454	WS3-RevCredits C6L98	\$ (61,359)	\$ (4,240)	100%	\$ 57,119
7	Z2 Nonfirm Point-to-Point Revenue Credit	WS3-RevCredits C6L14	\$ -	\$ 13,438	100%	\$ 13,438
8	Schedule 11 Point-to-Point Revenue Credit	Summary-ATRR C5L9	\$ (68,400)	\$ -	100%	\$ 68,400
9	Total Revenue Credits	Subtotal	\$ (22,918,449)	\$ (24,542,945)		\$ (1,624,496)
11	Prior Year True Up /2	WS1-RateBase C5L3	\$ (721,970)	\$ (1,135,858)		\$ (413,888)
12	2022 Net Revenue Requirement-Sch 9	Subtotal	\$ 136,384,951	\$ 133,928,846		\$ (2,456,105)
13	2022 Network Revenue (estimated/received)	WS3-RevCredits C6L112	\$ (136,384,951)	\$ (136,384,950)		\$ (0)
14	Total Schedule 9 2022 True-up (to WS1-RateBase, Line 3, 2024 est)		\$ -	\$ (2,456,104)		\$ (2,456,105)
15						
16	SPP BPU - Gross Zonal Schedule 11 Revenue Requirement	WS5-BPUz C12L15	\$ 765,921	\$ 761,765		\$ (4,156)
17	BPU Zonal Schedule 11 PTP Revenue (estimated/received)	WS3-RevCredits C6L182	\$ (68,400)	\$ (73,719)		\$ (5,319)
18	BPU Zonal Schedule 11 Revenue (estimated/received)	WS3-RevCredits C6L168	\$ (697,521)	\$ (759,858)		\$ (62,337)
19	Total SPP BPU - Zonal Schedule 11 2022 True-up (to WS5-BPUz, C14L12, 2024 est)		\$ -	\$ (71,813)		\$ (71,813)
20						
21	SPP BPU - Gross Regional Schedule 11 Revenue Requirement	WS5-BPUr C12L13	\$ 117,827	\$ 113,140		\$ (4,687)
22	BPU Regional Schedule 11 PTP Revenue (estimated/received)	WS3-RevCredits C6L210	\$ (8,425)	\$ (8,435)		\$ (10)
23	BPU Regional Schedule 11 Revenue (estimated/received)	WS3-RevCredits C6L196	\$ (109,402)	\$ (126,979)		\$ (17,577)
24	Total SPP BPU - Regional Schedule 11 2022 True-up (to WS6-BPUr, C14L11, 2024 est)		\$ -	\$ (22,274)		\$ (22,274)
25						
26	2022 Actual SSCD Revenue Requirement	WS12-SSCD C2L13	\$ 10,273,311	\$ 12,285,103		
27	2022 Revenue received for SSCD service	WS3-RevCredits C6L84		\$ (11,817,815)		
28	Total SSCD 2022 True-up (to WS12-SSCD, Line 13, 2024 est)	Subtotal L25+L26		\$ 467,288		
29						
30	2022 Actual Regulation & Frequency Response Revenue Requirement	WS14-Reg C2L9	\$ 289,081	\$ 314,135		
31	2022 Revenue received (estimated/received)	WS3-RevCredits C6L154		\$ (289,081)		
32	Total Regulation & Freq Response 2022 True-up (to WS14-Reg, Line 2, 2024 est)	Subtotal L28+L29		\$ 25,054		
33						
34	2022 Actual Reserves Revenue Requirement	WS15-Res C2L11	\$ 283,557	\$ 319,108		
35	2022 Revenue received (estimated/received)	WS3-RevCredits C6L126+L140		\$ (283,557)		
36	Total Reserves 2022 True-up (to WS15-Res, Line 11, 2024 est)	Subtotal L31+L32		\$ 35,551		
37						
38	1/ Short-Term Firm Point-to-Point Transmission Service Credit					
39	2/ Prior Year True-up includes 2021 True-up adjustment for difference in AI excluded/included plant detail					

Summary of incremental changes: Minor updates to increase transparency

(1) Date	(2) Worksheet	(3) Reference Cell(s)	(4) Change From	(5) Change To	(6) Description
9/1/2023	WS4-CostData	L76		Exclude deficit interest	Update reference note for transparency
9/1/2023	Summary-TrueU	C2L16		WS5-BPUz C12L15	Update reference note for transparency
9/1/2023	Summary-TrueU	C2L17		WS3-RevCredits C6L182	Update reference note for transparency
9/1/2023	Summary-TrueU	C2L18		WS3-RevCredits C6L168	Update reference note for transparency
9/1/2023	Summary-TrueU	C2L21		WS5-BPUr C12L13	Update reference note for transparency
9/1/2023	Summary-TrueU	C2L22		WS3-RevCredits C6L210	Update reference note for transparency
9/1/2023	Summary-TrueU	C2L23		WS3-RevCredits C6L196	Update reference note for transparency
9/15/2023	Summary-TrueU	C3L25	\$ 10,681,584	\$ 10,273,311	Update to correct value
9/15/2023	Summary-TrueU	C3L28	\$ 447,694	\$ 289,081	Update to correct value
9/15/2023	Summary-TrueU	C3L31	\$ 487,465	\$ 283,557	Update to correct value
9/15/2023	WS8-TransFac	C4 Header	Prior Year Facility Tot	FY2022 Facility Total	Update header for clarification
9/15/2023	WS11-FacChang	L10-13, 15, 17, 18	Deleted		Deleted rows due to duplication
9/15/2023	WS8-TransFac	C5L150	\$ (183,385)	\$ -	Corrected to include Denison Breaker 2552
9/15/2023	WS4-CostData	C2L88	\$ -	\$ 2,233.07	Updated to correct value
9/15/2023	WS4-CostData	C2L90	\$ -	\$ (36.77)	Updated to correct value
9/15/2023	WS4-CostData	C2L91	\$ -	\$ (47.81)	Updated to correct value
9/20/2023	WS8-TransFac	C5L186	\$ (3,366,859)	\$ (1,112,294)	Corrected to match ROOS data
9/15/2023	WS4-CostData	C2L113	\$ 38,360	\$ 42,587	Updated to correct value
9/15/2023	WS4-CostData	C3L113	\$ 38,360	\$ 42,587	Updated to correct value
9/15/2023	Summary-TrueU	C4L11	\$ (721,970)	\$ (1,135,858)	Updated to include PY adjustment for Shelby, Denison, Rugby facilities
9/15/2023	Summary-TrueU	L35		Footnote	Provided footnote for prior year adjustment

WAPA-UGP 2022 Rate True-up Calculation (Rev 1)					
Worksheet 1 - Schedule 9 Revenue Requirement - Non-Levelized					
Utilizing Financial Statement Results of Operations (ROOs)					
12 Months Ending 09/30/2022 True-up					
Line No.	REFERENCE	COMPANY TOTAL (\$)	ALLOCATOR	TRANSMISSION ALLOCATED AMOUNT (\$)	
(1)	(2)	(3)	(4)	(5)	
1	GROSS REVENUE REQUIREMENT	(L69)		159,607,649	
2	REVENUE CREDITS	(Note R)		(24,542,945)	
3	PRIOR PERIOD TRUE-UP			(1,135,858)	
4	NET REVENUE REQUIREMENT	(L1 + L2 + L3)		133,928,846	
RATE BASE:					(Col 3 times Col 4)
GROSS PLANT IN SERVICE					
5	Production	WS4-CostData L4 C2+C3+C4	NA		
6	Transmission	WS4-CostData L3 C2+C3+C4	TP	1,565,234,980	
7	Distribution	WS4-CostData C2 L2-L3-L4	NA		
Bal Sheet - Other Assets - SGL					
8	General & Intangible	175002	W/S	0	
9	Common		CE	0	
10	TOTAL GROSS PLANT	(sum L5 : 9)	GP=	1,565,234,980	
ACCUMULATED DEPRECIATION					
11	Production	WS4-CostData L15 C2+C3+C4	NA		
12	Transmission	WS4-CostData L14 C2+C3+C4	TP	797,723,390	
13	Distribution	WS4-CostData C2 L13-L14-L15	NA		
Bal Sheet - Other Assets - SGL					
14	General & Intangible	175902	W/S	0	
15	Common		CE	0	
16	TOTAL ACCUM. DEPRECIATION	(sum L11 : 15)		797,723,390	
NET PLANT IN SERVICE					
17	Production	(L5 - L11)			
18	Transmission	(L6 - L12)		767,511,589	
19	Distribution	(L7 - L13)			
20	General & Intangible	(L8 - L14)		0	
21	Common	(L9 - L15)		0	
22	TOTAL NET PLANT	(sum L17 : 21)	NP=	767,511,589	
ADJUSTMENTS TO RATE BASE					
23	Account No. 281	(enter negative)		0	
24	Account No. 282	(enter negative)	NP	0.54	
25	Account No. 283	(enter negative)	NP	0.54	
26	Account No. 190		NP	0.54	
27	Account No. 255	(enter negative)	NP	0.54	
28	TOTAL ADJUSTMENTS	(sum L23 : 27)		0	
29	LAND HELD FOR FUTURE USE	(Note C)	TP	1.00	
WORKING CAPITAL					
30	CWC	calculated		0	
Bal Sheet - Other Assets - SGL					
31	Materials & Supplies	151191 (Note C)	TE	0.00	
32	Prepayments	Bal Sheet Other Assets	GP	0.54	
33	TOTAL WORKING CAPITAL	(sum L30 : 32)		0	
34	RATE BASE	(sum L 22, 28, 29, 33)		767,511,589	
O&M					
Transmission					
35	Western-UGP	WS4-CostData L118 C2	PTP/UGP	0.95	
36	Western-RMR	WS4-CostData L118 C3	PTP/RMR	0.01	
37	COE	WS4-CostData L118 C4	PTP/COE	0.07	
38	Less Account 565	(Note E)	NA	1.00	
A&G					
39	Western-UGP	WS4-CostData L92 C2	PTP/UGP	0.95	
40	Western-RMR	WS4-CostData L92 C3	PTP/RMR	0.01	
41	Less FERC Annual Fees		W/S	1.00	
42	Less EPRI & Reg. Comm. Exp. & Non-safety Ad	(Note G)	W/S	1.00	
43	Plus Transmission Related Reg. Comm. Exp	(Note G)	TE	0.00	
44	Common		CE	0.00	
45	Transmission Lease Payments		NA	1.00	
(sum L 35, 36, 37, 39, 40, 43, 44 less 38, 41, 42)					
46	TOTAL O&M	211,192,838		96,638,756	
DEPRECIATION EXPENSE					
Transmission					
47	Western-UGP	WS4-CostData L38 C2	PTP/UGP	0.95	
49	Western-RMR	WS4-CostData L38 C3	PTP/RMR	0.01	
50	COE	WS4-CostData L38 C4	PTP/COE	0.07	
51	General		W/S	1.00	
52	Common		CE	0.00	
53	TOTAL DEPRECIATION	(sum L47 : 52)		32,624,917	
TAXES OTHER THAN INCOME TAXES					
LABOR RELATED					
54	Payroll		W/S	1.00	
55	Highway and vehicle		W/S	1.00	
PLANT RELATED					
56	Property		GP	0.54	
57	Gross Receipts			0.00	
58	Other		GP	0.54	
59	Payments in lieu of taxes		GP	0.54	
60	TOTAL OTHER TAXES	(sum L 54 : 59)		0	
INCOME TAXES					
61	T=1 - [(1 - SIT) * (1 - FIT)] / (1 - SIT * FIT * p) =	0.0%	NA		
62	CIT=(T/(1-T)) * (1-{WCLTD/R}) =	0.0%			
where WCLTD= (line 100) and R= (line 102) and FIT, SIT & p are as given in footnote I.					
63	1 / (1 - T) = (from line 61)	0.0			
64	Amortized Investment Tax Credit	(enter negative)		0	
65	Income Tax Calculation	(L62 * L68)	NA	0	
66	ITC adjustment	(L63 * L64)	NP	0.54	
67	Total Income Taxes	(L65 + L66)		0	
68	RETURN [Rate Base * Rate of Return]	(L34 * L102)	NA	30,343,976	
69	REV. REQUIREMENT	(sum L46, 53 ,60, 67, 68)		159,607,649	

SUPPORTING CALCULATIONS AND NOTES									
TRANSMISSION PLANT INCLUDED IN UMZ RATES									
70	Total transmission plant	(L6, C3)						1,565,234,980	
71	Less transmission plant excluded from UMZ rates	(Note K)						0	
72	Less transmission plant included in OATT Ancillary Services	(Note L)						0	
73	Transmission plant included in UMZ rates	(L70 less L71 and L72)						1,565,234,980	
74	Percentage of transmission plant included in UMZ Rates	(L73 / L70)				TP=		1.00	
TRANSMISSION EXPENSES									
75	Total transmission expenses	(sum L35 to L37, C3)							
76	Less transmission expenses included in OATT Ancillary Services	(Note J)						0	
77	Included transmission expenses	(L75 - L76)						0	
78	Percentage of transmission expenses after adjustment (line 8 divided by line 6)	(L77/ L75)						0.0%	
79	Percentage of transmission plant included in UMZ Rates	(L74)				TP=		1.00	
80	Percentage of transmission expenses included in UMZ Rates	(L79 * L78)				TE=		0.0%	
WAGES & SALARY ALLOCATOR (W&S)									
					TP	Allocation			
81	Production		0	0.00		0			
82	Transmission		23,856,154	1.00		23,856,154			
83	Distribution		0	0.00		0			W&S Allocator
84	Other		0	0.00		0			(\$ / Allocation)
85	Total	(sum L81 to L84)	23,856,154			23,856,154	=		1.00
PERCENTAGE OF TOTAL PLANT ALLOCATOR PTP									
		(Note M)							
86	Transmission Plant in Service Western-UGP		1,468,694,512						
87	Total Plant in Service Western-UGP		1,548,022,490						
88	UGP Percentage of Transmission Plant to Total Plant	(L86 / L87)				PTP/UGP	=		0.95
89	Transmission Plant in Service Western-RMR		7,340,383						
90	Total Plant in Service Western-RMR		871,983,915						
91	RMR Percentage of Transmission Plant to Total Plant	(L89 / L90)				PTP/RMR	=		0.01
92	Transmission Plant in Service COE		89,200,085						
93	Total Plant in Service COE		1,345,230,531						
94	COE Percentage of Transmission Plant to Total Plant	(L92 / L93)				PTP/COE	=		0.07
COMMON PLANT ALLOCATOR (CE)									
		(Note N)							
95	Electric		0			% Electric		Labor Ratio =	CE
96	Gas		0			(L95 / L98)		(L85)	0.00000
97	Water		0			0.00000	*	1.00	
98	Total	(sum L95 to L97)	0						
RETURN (R)									
99	Long Term Interest ROOs Schedule 5		36,104,994						
					Cost				=WCLTD
					(Note O)				
					%			Weighted	
100	Long Term Debt	HFD Sch's 21RX & 21X Col 8 L	913,229,082	100%	0.04			0.04 =R	
101	Proprietary Capital	23,25,26,29,30	0	0%	0.12			0.00	
102	Total (sum lines 31-32)	(sum L100 to L101)	913,229,082	100%				0.04	
103						Proprietary Capital Cost Rate =		12.38%	
104						TIER =		1.00	
REVENUE CREDITS									
								Load	
ACCOUNT 447 (SALES FOR RESALE)									
105	a. Bundled Non-RQ Sales for Resale	(Note P)						0	
106	b. Bundled Sales for Resale included in Divisor on page 1							0	
107	Total of (a)-(b)							0	
108	ACCOUNT 454 (RENT FROM ELECTRIC PROPERTY)	(Note Q)						4,240	
109	ACCOUNT 456 (OTHER ELECTRIC REVENUES)							0	
110	a. Transmission charges for all transmission transactions							0	
111	b. Transmission charges for all transmission transactions included in Divisor on page 1							0	
112	Total of (a)-(b)							0	
Note Letter									
General Note: References to Results of Operations in this revenue requirement template indicate the Financial Statement Results of Operations (ROOs) Schedule where data is located									
To the extent the references to ROOs data are missing, the entity will include a "Notes" section to provide this data.									
A	Combines plant data for both the Western-Upper Great Plains Region (Western-UGP) and Western-Rocky Mountain Region (Western-RMR).								
B	Does not apply to Western. For others, the balances in Accounts 190, 281, 282 and 283, as adjusted by any contra accounts identified as regulatory assets amounts in or liabilities related to FASB 106 or 109. Balance of Account 255 is reduced by prior flow throughs and excluded if the utility chose to utilize amortization of tax credits against taxable income as discussed in Note K. Account 281 is not allocated.								
C	Transmission related only.								
D	Cash Working Capital assigned to transmission is one-eighth of O&M allocated to transmission at line 46 column 5. Prepayments are the electric related prepayments booked to Account No. 165 and reported in the Other Assets Section of the Balance Sheet.								
E	For O&M Expense, Calculated from ROOs Schedule 11 as Total O&M less Purchase Power, Transmission Service Provided by Others (FERC 565), O&M Expense Fort Peck Powerhouse, Prior Year Adjustments, A&G Expense from ROOs Schedule 11, plus CME and Warehouse Interest from ROOs Schedule 5. Depreciation Expense from ROOs Schedule 4.								
F	Totals of ROOs Schedule 11A Object Classes 1411, 1412, 1415, 1416, 1421, 1422, 1425, 1426, 1431, 1432, 1441, 1442.								
G	Line 42 - EPRI Annual Membership Dues, all Regulatory Commission Expenses, and non-safety related advertising. Line 43 - Regulatory Commission Expenses directly related to transmission service, ISO filings, or transmission siting.								
H	Includes only FICA, unemployment, highway, property, gross receipts, and other assessments charged in the current year. Taxes related to income are excluded. Gross receipts taxes are not included in transmission revenue requirement in the Rate Formula Template, since they are recovered elsewhere.								
I	Western is not subject to Federal or State Income Tax.								
	Inputs Required:		FIT =	0.00%					
			SIT=	0.00%	(State Income Tax Rate or Composite SIT)				
			p =	0.00%	(percent of federal income tax deductible for state purposes)				
J	Removes dollar amount of transmission expenses included in the OATT ancillary services rates, including Acct No. 561. Western does not include transmission expenses in ancillary service rates.								
K	Removes transmission plant determined by Commission order to be state-jurisdictional according to the seven-factor test (until RUS 12 balances are adjusted to reflect application of seven-factor test).								
L	Removes dollar amount of transmission plant included in the development of OATT ancillary services rates and generation step-up facilities, which are deemed to be included in OATT ancillary services. For these purposes, generation step-up facilities are those facilities at a generator substation on which there is no through-flow when the generator is shut down.								
M	Percentage of Total Plant Allocators are developed separately for Western-UGP and Western-RMR to allocate O&M, A&G, and Depreciation Expenses between Transmission and Generation.								
N	Western does not have Common Plant.								
O	Debt cost rate = long-term interest (line 99) / long term debt (line 100). The Proprietary Capital Cost rate is implicit, a residual calculation after TIER is determined. TIER will be supported in the filing and no change in TIER may be made absent a filing with the ISO and the FERC, if the entity is under FERC's jurisdiction.								
P	Line 105 must equal zero since all short-term power sales must be unbundled and the transmission component reflected in Account No. 456 and all other uses are to be included in the divisor.								
Q	Includes income related only to transmission facilities, such as pole attachments, rentals and special use.								
R	The revenues credited shall include only the amounts received directly reflecting the Transmission Owner's integrated transmission facilities. They do not include revenues associated with FERC annual charges, gross receipts taxes, facilities not included in this template (e.g., direct assignment facilities and GSUs) which are not recovered under this Revenue Requirement Template.								

Line No.	DESCRIPTION (1)	TRANSMISSION (2)	GENERATION (3)	COE GENERATION (4)	BASE PLAN UPGRADES- REGIONAL (5)	BASE PLAN UPGRADES- ZONAL (6)	REFERENCE (7)
1	A. Operation and Maintenance Expense						
2	O&M Expense	\$72,658,931	\$92,527,589	\$45,560,716	\$51,205	\$344,762	WS4-CostData (O&M Expenses Worksheet)
3	Transmission of Electricity by Others	\$0	\$0	\$0	\$0	\$0	
4	Total O&M Expense	\$72,658,931	\$92,527,589	\$45,560,716	\$51,205	\$344,762	L2 + L3
5	Net Plant Investment	\$767,511,589	\$811,786,133	\$623,311,750	\$534,116	\$3,596,168	WS4-CostData (Net Plant Investment Worksheet)
6	O&M as % of Net Plant Investment	9.47%	11.40%	7.31%	9.59%	9.59%	L4/L5
7	B. A&G Expense						
8	A&G Expense	\$23,979,825	\$233,925	\$0	\$17,703	\$119,192	WS4-CostData (A&G Expenses Worksheet)
9	Net Plant Investment	\$767,511,589	\$811,786,133	\$623,311,750	\$534,116	\$3,596,168	L5
10	A&G as % of Net Plant Investment	3.12%	0.03%	0.00%	3.31%	3.31%	L8/L9
11	C. Depreciation Expense						
12	Depreciation Expense	\$32,624,917	\$24,860,610	\$18,186,154	\$23,136	\$155,775	WS4-CostData (Depreciation Expense Worksheet)
13	Net Plant Investment	\$767,511,589	\$811,786,133	\$623,311,750	\$534,116	\$3,596,168	L5
14	Depreciation as a % of Net Plant Investment	4.25%	3.06%	2.92%	4.33%	4.33%	L12/L13
15	D. Taxes Other than Income Taxes for Transmission						
16	Not applicable.						
17	E. Allocation of General Plant						
18	No General Plant identified at this time, all plant is identified as either generation or transmission related.						
19	F. Cost of Capital						
20	Weighted Transmission Composite Interest Rate	3.95%	3.64%	3.64%	3.95%	3.95%	WS4-CostData (Cost of Capital Worksheet)
21	G. Fixed Charge Rate						
22	Operation and Maintenance Expense	9.47%	11.40%	7.31%	9.59%	9.59%	L6
23	A&G Expense	3.12%	0.03%	0.00%	3.31%	3.31%	L10
24	Depreciation Expense	4.25%	3.06%	2.92%	4.33%	4.33%	L14
25	Taxes Other than Income Taxes	0.00%	0.00%	0.00%	0.00%	0.00%	
26	Allocation of General Plant to Transmission	0.00%	0.00%	0.00%	0.00%	0.00%	
27	Cost of Capital	3.95%	3.64%	3.64%	3.95%	3.95%	L20
28	Total	20.79%	18.13%	13.87%	21.18%	21.18%	
29	H. Revenue Requirement						
30	Fixed Charge Rate	20.79%	18.13%	13.87%	21.18%	21.18%	L28
31	Net Plant Investment	\$767,511,589	\$811,786,133	\$623,311,750	\$534,116	\$3,596,168	L5
32	Annual Western-UGPR Cost	\$159,577,590	\$147,164,867	\$86,430,601	\$113,140	\$761,765	L30 * L31

WAPA-UGP 2022 Rate True-up Calculation (Rev 1)

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Worksheet 3 - Revenue Credit Calculation

12 Months Ending 09/30/2022 True-up

Line No.	ACCOUNT	MONTH	REFERENCE	COMPANY TOTAL	ALLOCATOR	LOCATION	TRANSMISSION
							ALLOCATED AMOUNT
	(1)	(2)	(3)	(4)		(5)	(6)
1	Z2 Sch 7/8/11	Jan-22	Z2	1,963	NA	100%	1,963
2	Z2 Sch 7/8/11	Feb-22	Z2	1,827	NA	100%	1,827
3	Z2 Sch 7/8/11	Mar-22	Z2	1,837	NA	100%	1,837
4	Z2 Sch 7/8/11	Apr-22	Z2	1,859	NA	100%	1,859
5	Z2 Sch 7/8/11	May-22	Z2	1,703	NA	100%	1,703
6	Z2 Sch 7/8/11	Jun-22	Z2	698	NA	100%	698
7	Z2 Sch 7/8/11	Jul-22	Z2	701	NA	100%	701
8	Z2 Sch 7/8/11	Aug-22	Z2	699	NA	100%	699
9	Z2 Sch 7/8/11	Sep-22	Z2	694	NA	100%	694
10	Z2 Sch 7/8/11	Oct-22	Z2	694	NA	100%	694
11	Z2 Sch 7/8/11	Nov-22	Z2	692	NA	100%	692
12	Z2 Sch 7/8/11	Dec-22	Z2	71	NA	100%	71
13	Z2 Sch 7/8/11 Adjustments		Z2	-		100%	0
14	Subtotal			13,438			13,438
15	Schedule 7	Jan-22	FIRM PTP	(582,217)	TP	100%	(582,217)
16	Schedule 7	Feb-22	FIRM PTP	(699,543)	TP	100%	(699,543)
17	Schedule 7	Mar-22	FIRM PTP	(531,109)	TP	100%	(531,109)
18	Schedule 7	Apr-22	FIRM PTP	(557,409)	TP	100%	(557,409)
19	Schedule 7	May-22	FIRM PTP	(395,842)	TP	100%	(395,842)
20	Schedule 7	Jun-22	FIRM PTP	(588,012)	TP	100%	(588,012)
21	Schedule 7	Jul-22	FIRM PTP	(561,524)	TP	100%	(561,524)
22	Schedule 7	Aug-22	FIRM PTP	(727,530)	TP	100%	(727,530)
23	Schedule 7	Sep-22	FIRM PTP	(668,088)	TP	100%	(668,088)
24	Schedule 7	Oct-22	FIRM PTP	(514,765)	TP	100%	(514,765)
25	Schedule 7	Nov-22	FIRM PTP	(566,043)	TP	100%	(566,043)
26	Schedule 7	Dec-22	FIRM PTP	(580,526)	TP	100%	(580,526)
27	Schedule 7 Adjustments		FIRM PTP	-		100%	0
28	Subtotal			(6,972,608)			(6,972,608)
29	Schedule 8	Jan-22	NONFIRM PTP	(238,537)	TP	100%	(238,537)
30	Schedule 8	Feb-22	NONFIRM PTP	(296,738)	TP	100%	(296,738)
31	Schedule 8	Mar-22	NONFIRM PTP	(249,792)	TP	100%	(249,792)
32	Schedule 8	Apr-22	NONFIRM PTP	(260,478)	TP	100%	(260,478)
33	Schedule 8	May-22	NONFIRM PTP	(201,116)	TP	100%	(201,116)
34	Schedule 8	Jun-22	NONFIRM PTP	(363,686)	TP	100%	(363,686)
35	Schedule 8	Jul-22	NONFIRM PTP	(337,676)	TP	100%	(337,676)
36	Schedule 8	Aug-22	NONFIRM PTP	(283,268)	TP	100%	(283,268)
37	Schedule 8	Sep-22	NONFIRM PTP	(259,895)	TP	100%	(259,895)
38	Schedule 8	Oct-22	NONFIRM PTP	(161,260)	TP	100%	(161,260)
39	Schedule 8	Nov-22	NONFIRM PTP	(251,316)	TP	100%	(251,316)
40	Schedule 8	Dec-22	NONFIRM PTP	(327,369)	TP	100%	(327,369)
41	Schedule 8 Adjustments		NONFIRM PTP	-		100%	0
42	Subtotal			(3,231,131)			(3,231,131)
43	Sch 7/8/11	Jan-22	MISO SEAMS	(102,558)	TP	100%	(102,558)
44	Sch 7/8/11	Feb-22	MISO SEAMS	(80,652)	TP	100%	(80,652)
45	Sch 7/8/11	Mar-22	MISO SEAMS	(100,207)	TP	100%	(100,207)
46	Sch 7/8/11	Apr-22	MISO SEAMS	(100,207)	TP	100%	(100,207)
47	Sch 7/8/11	May-22	MISO SEAMS	(102,212)	TP	100%	(102,212)
48	Sch 7/8/11	Jun-22	MISO SEAMS	(102,212)	TP	100%	(102,212)
49	Sch 7/8/11	Jul-22	MISO SEAMS	(102,212)	TP	100%	(102,212)
50	Sch 7/8/11	Aug-22	MISO SEAMS	(130,764)	TP	100%	(130,764)
51	Sch 7/8/11	Sep-22	MISO SEAMS	(130,764)	TP	100%	(130,764)
52	Sch 7/8/11	Oct-22	MISO SEAMS	(99,861)	TP	100%	(99,861)
53	Sch 7/8/11	Nov-22	MISO SEAMS	(96,988)	TP	100%	(96,988)
54	Sch 7/8/11	Dec-22	MISO SEAMS	(98,926)	TP	100%	(98,926)
55	Sch 7/8/11 Adjustments		MISO SEAMS	-		100%	0
56	Subtotal			(1,247,563)			(1,247,563)
57	Sch 11	Jan-22	ZONAL PTP ADJUSTMENTS	-	BP		0
58	Sch 11	Feb-22	ZONAL PTP ADJUSTMENTS	-	BP		0
59	Sch 11	Mar-22	ZONAL PTP ADJUSTMENTS	-	BP		0
60	Sch 11	Apr-22	ZONAL PTP ADJUSTMENTS	-	BP		0
61	Sch 11	May-22	ZONAL PTP ADJUSTMENTS	-	BP		0
62	Sch 11	Jun-22	ZONAL PTP ADJUSTMENTS	-	BP		0
63	Sch 11	Jul-22	ZONAL PTP ADJUSTMENTS	-	BP		0
64	Sch 11	Aug-22	ZONAL PTP ADJUSTMENTS	-	BP		0
65	Sch 11	Sep-22	ZONAL PTP ADJUSTMENTS	-	BP		0
66	Sch 11	Oct-22	ZONAL PTP ADJUSTMENTS	-	BP		0
67	Sch 11	Nov-22	ZONAL PTP ADJUSTMENTS	-	BP		0
68	Sch 11	Dec-22	ZONAL PTP ADJUSTMENTS	-	BP		0
69	Sch 11 Adjustments		ZONAL PTP ADJUSTMENTS	-	BP		0
70	Subtotal			-			0
71	7088	Feb-22	SSCD	(1,100,286)	NA	100%	(1,100,286)
72	7088	Mar-22	SSCD	(1,074,609)	NA	100%	(1,074,609)
73	7088	Apr-22	SSCD	(1,012,710)	NA	100%	(1,012,710)

74	7088	May-22	SSCD	(866,068)	NA	100%	(866,068)
75	7088	Jun-22	SSCD	(843,936)	NA	100%	(843,936)
76	7088	Jul-22	SSCD	(964,721)	NA	100%	(964,721)
77	7088	Aug-22	SSCD	(990,314)	NA	100%	(990,314)
78	7088	Sep-22	SSCD	(1,007,035)	NA	100%	(1,007,035)
79	7088	Oct-22	SSCD	(970,382)	NA	100%	(970,382)
80	7088	Nov-22	SSCD	(896,994)	NA	100%	(896,994)
81	7088	Dec-22	SSCD	(997,311)	NA	100%	(997,311)
82	7088	Jan-21	SSCD	(1,093,451)	NA	100%	(1,093,451)
83	7088	Adjustments	SSCD	-	NA	100%	0
84		Subtotal		(11,817,815)			(11,817,815)
85	45420	Jan-22	RENT FROM ELECTRIC PROPERTY	(353)	TP	100%	(353)
86	45420	Feb-22	RENT FROM ELECTRIC PROPERTY	(353)	TP	100%	(353)
87	45420	Mar-22	RENT FROM ELECTRIC PROPERTY	(353)	TP	100%	(353)
88	45420	Apr-22	RENT FROM ELECTRIC PROPERTY	(353)	TP	100%	(353)
89	45420	May-22	RENT FROM ELECTRIC PROPERTY	(353)	TP	100%	(353)
90	45420	Jun-22	RENT FROM ELECTRIC PROPERTY	(353)	TP	100%	(353)
91	45420	Jul-22	RENT FROM ELECTRIC PROPERTY	(353)	TP	100%	(353)
92	45420	Aug-22	RENT FROM ELECTRIC PROPERTY	(353)	TP	100%	(353)
93	45420	Sep-22	RENT FROM ELECTRIC PROPERTY	(353)	TP	100%	(353)
94	45420	Oct-22	RENT FROM ELECTRIC PROPERTY	(353)	TP	100%	(353)
95	45420	Nov-22	RENT FROM ELECTRIC PROPERTY	(353)	TP	100%	(353)
96	45420	Dec-22	RENT FROM ELECTRIC PROPERTY	(353)	TP	100%	(353)
97	45420	Adjustments	RENT FROM ELECTRIC PROPERTY	-	TP	100%	-
98		Subtotal		(4,240)			(4,240)
99	45643	Feb-22	REVENUE FROM TRANS.	(11,365,413)	TP	100%	(11,365,413)
100	45643	Mar-22	REVENUE FROM TRANS.	(11,365,413)	TP	100%	(11,365,413)
101	45643	Apr-22	REVENUE FROM TRANS.	(11,365,412)	TP	100%	(11,365,412)
102	45643	May-22	REVENUE FROM TRANS.	(11,365,412)	TP	100%	(11,365,412)
103	45643	Jun-22	REVENUE FROM TRANS.	(11,365,413)	TP	100%	(11,365,413)
104	45643	Jul-22	REVENUE FROM TRANS.	(11,365,413)	TP	100%	(11,365,413)
105	45643	Aug-22	REVENUE FROM TRANS.	(11,365,413)	TP	100%	(11,365,413)
106	45643	Sep-22	REVENUE FROM TRANS.	(11,365,413)	TP	100%	(11,365,413)
107	45643	Oct-22	REVENUE FROM TRANS.	(11,365,413)	TP	100%	(11,365,413)
108	45643	Nov-22	REVENUE FROM TRANS.	(11,365,412)	TP	100%	(11,365,412)
109	45643	Dec-22	REVENUE FROM TRANS.	(11,365,412)	TP	100%	(11,365,412)
110	45643	Jan-21	REVENUE FROM TRANS.	(11,365,413)	TP	100%	(11,365,413)
111	45643	Adjustments	REVENUE FROM TRANS.	-	TP	100%	0
112		Subtotal		(136,384,950)			(136,384,950)
113	7080	Feb-22	RESRV-SUPPLEMENTAL	(11,815)	NA	100%	(11,815)
114	7080	Mar-22	RESRV-SUPPLEMENTAL	(11,815)	NA	100%	(11,815)
115	7080	Apr-22	RESRV-SUPPLEMENTAL	(11,815)	NA	100%	(11,815)
116	7080	May-22	RESRV-SUPPLEMENTAL	(11,815)	NA	100%	(11,815)
117	7080	Jun-22	RESRV-SUPPLEMENTAL	(11,815)	NA	100%	(11,815)
118	7080	Jul-22	RESRV-SUPPLEMENTAL	(11,815)	NA	100%	(11,815)
119	7080	Aug-22	RESRV-SUPPLEMENTAL	(11,815)	NA	100%	(11,815)
120	7080	Sep-22	RESRV-SUPPLEMENTAL	(11,815)	NA	100%	(11,815)
121	7080	Oct-22	RESRV-SUPPLEMENTAL	(11,815)	NA	100%	(11,815)
122	7080	Nov-22	RESRV-SUPPLEMENTAL	(11,815)	NA	100%	(11,815)
123	7080	Dec-22	RESRV-SUPPLEMENTAL	(11,815)	NA	100%	(11,815)
124	7080	Jan-21	RESRV-SUPPLEMENTAL	(11,815)	NA	100%	(11,815)
125	7080	Adjustments	RESRV-SUPPLEMENTAL	-	NA	100%	0
126		Subtotal		(141,779)			(141,779)
127	7089	Feb-22	RESRV-SPIN	(11,815)	NA	100%	(11,815)
128	7089	Mar-22	RESRV-SPIN	(11,815)	NA	100%	(11,815)
129	7089	Apr-22	RESRV-SPIN	(11,815)	NA	100%	(11,815)
130	7089	May-22	RESRV-SPIN	(11,815)	NA	100%	(11,815)
131	7089	Jun-22	RESRV-SPIN	(11,815)	NA	100%	(11,815)
132	7089	Jul-22	RESRV-SPIN	(11,815)	NA	100%	(11,815)
133	7089	Aug-22	RESRV-SPIN	(11,815)	NA	100%	(11,815)
134	7089	Sep-22	RESRV-SPIN	(11,815)	NA	100%	(11,815)
135	7089	Oct-22	RESRV-SPIN	(11,815)	NA	100%	(11,815)
136	7089	Nov-22	RESRV-SPIN	(11,815)	NA	100%	(11,815)
137	7089	Dec-22	RESRV-SPIN	(11,815)	NA	100%	(11,815)
138	7089	Jan-21	RESRV-SPIN	(11,815)	NA	100%	(11,815)
139	7089	Adjustments	RESRV-SPIN	-	NA	100%	0
140		Subtotal		(141,779)			(141,779)
141	7091	Feb-22	REGULATION	(24,090)	NA	100%	(24,090)
142	7091	Mar-22	REGULATION	(24,090)	NA	100%	(24,090)
143	7091	Apr-22	REGULATION	(24,090)	NA	100%	(24,090)
144	7091	May-22	REGULATION	(24,090)	NA	100%	(24,090)
145	7091	Jun-22	REGULATION	(24,090)	NA	100%	(24,090)
146	7091	Jul-22	REGULATION	(24,090)	NA	100%	(24,090)
147	7091	Aug-22	REGULATION	(24,090)	NA	100%	(24,090)
148	7091	Sep-22	REGULATION	(24,090)	NA	100%	(24,090)
149	7091	Oct-22	REGULATION	(24,090)	NA	100%	(24,090)
150	7091	Nov-22	REGULATION	(24,090)	NA	100%	(24,090)
151	7091	Dec-22	REGULATION	(24,090)	NA	100%	(24,090)

Line No.	(1)	WESTERN-UGP (2)	WESTERN-RMR (3)	COE (4)	BOR (5)	TOTAL (6)
1	Net Plant Investment Worksheet					
2	Total PS Plant-in-Service	1,548,022,490	1/ 871,983,915	2/ 1,345,230,531	3/ 565,922,078	12/ 4,331,159,014
3	PS-ED Transmission Plant-in-Service	1,468,694,512	4/ 7,340,383	5/ 89,200,085	6/ 0	1,565,234,980
4	PS-ED Generation Plant-in-Service	14,401,500	7/ 0	1,256,030,446	L2-L3 565,922,078	L2-L3 1,836,354,024
5	PS-ED SSCD Plant-in-Service	17,251,263	8/			17,251,263
6	BPU-Regional Plant-in-Service	1,089,866	13/			1,089,866
7	BPU-Zonal Plant-in-Service	7,338,000	13/			7,338,000
8	Generation Plant to Total Plant	0.00930	L4/L2 0.00000	L4/L2 0.93369	L4/L2 1.00000	L4/L2
9	Transmission Plant to Total Plant	0.94876	L3/L2 0.00842	L3/L2 0.06631	L3/L2 0.00000	L3/L2
10	SSCD Plant to Total Plant	0.01114	L5/L2			
11	BPU-Regional Plant to Total Plant	0.00070	L6/L2			
12	BPU-Zonal Plant to Total Plant	0.00474	L7/L2			
13	PS Accumulated Depreciation	789,375,761	9/ 459,121,572	10/ 677,652,767	11/ 384,505,507	12/ 2,310,655,607
14	PS-ED Trans. Accumulated Depreciation	748,924,422	L9*L13 3,864,897	L9*L13 44,934,071	L9*L13 0	L9*L13 797,723,390
15	PS-ED Gen. Accumulated Depreciation	7,343,689	L8*L13 0	L6*L9 632,718,696	L13-L14 384,505,507	L8*L13 1,024,567,891
16	PS-ED SSCD Accumulated Depreciation	8,796,855	L10*L13			8,796,855
17	BPU-Regional Accumulated Depreciation	555,750	L11*L13			555,750
18	BPU-Zonal Accumulated Depreciation	3,741,831	L12*L13			3,741,831
19	PS-ED Net Transmission Plant	719,770,090	L3-L14 3,475,486	L3-L14 44,266,014	L3-L14 0	L3-L14 767,511,589
20	PS-ED Net Generation Plant	7,057,811	L4-L15 0	L4-L15 623,311,750	L4-L15 181,416,571	L4-L15 811,786,133
21	PS-ED Net SSCD Plant	8,454,409	L5-L16			8,454,409
22	BPU-Regional Net Plant	534,116	L6-L17			534,116
23	BPU-Zonal Net Plant	3,596,168	L7-L18			3,596,168
24	1/ WS8-TransFac, C4L508					
25	2/ RMCSR - Pick-Sloan Missouri River Basin Results of Operations (ROOs), Schedule 1					
26	3/ Corps of Engineers (COE) Financial Statements, Electric and Power Multi-Purpose Plant in Service					
27	4/ WS8-TransFac, C8L519					
28	5/ WS8-TransFac, C8L505					
29	6/ WS8-TransFac, C8L512					
30	7/ WS8-TransFac, C6L514					
31	8/ SSCD Plant-in-Service is based on a percentage of Watertown Operations Centers cost, based on FTE					
32	9/ UGPCSR - Pick-Sloan Missouri River Basin and UGPCSR - Ft. Peck Power System Results of Operations, Schedule 4					
33	10/ RMCSR - Pick-Sloan Missouri River Basin Results of Operations, Schedule 4					
34	11/ Corps of Engineers Financial Statements, Statement of Assets and Liabilities					
35	12/ Combined Financial Statements, Combining Schedules of Revenues and Expenses Data by Agency					
36	13/ WS7-BPUFac					

WAPA-UGP 2022 Rate True-up Calculation (Rev 1)										
Line No.	(1)	WESTERN-UGP		WESTERN-RMR		COE		BOR		TOTAL
		(2)	(3)	(4)	(5)	(6)				(6)
37	Depreciation Worksheet									
38	PS Depreciation Expense	32,862,314	1/	18,423,416	2/	19,477,688	3/	6,368,733	4/	77,132,151
39	PS-ED Transmission Depreciation 5/	31,178,294		155,089		1,291,534		0		32,624,917
40	PS-ED Generation Depreciation 6/	305,723		0		18,186,154		6,368,733		24,860,610
41	PS-ED SSCD Depreciation 7/	366,220								366,220
42	BPU-Regional Depreciation	23,136								23,136
43	BPU-Zonal Depreciation	155,775								155,775
44	1/ FY UGPCSR - Pick-Sloan Missouri River Basin and UGPCSR - Ft. Peck Power System Results of Operations, Schedule 4									
45	2/ FY RMCSR - Pick-Sloan Missouri River Basin Results of Operations, Schedule 4									
46	3/ FY Corps of Engineers Statement of Revenues and Expenses									
47	4/ Combined Financial Statements, Detail by Agency									
48	5/ For UGPR, RMR, COE, and BOR the portion of depreciation expense allocated to PS-ED transmission is based on the ratio of transmission plant-in-service to total plant-in-service,									
49	calculated on L9 of the Net Plant Investment Worksheet									
50	6/ For UGPR, RMR and BOR the portion of depreciation expense allocated to PS-ED generation is based on the ratio of generation plant-in-service to total plant-in-service, calculated									
51	on L8 of the Net Plant Investment Worksheet. COE generation depreciation is COE total depreciation less transmission depreciation									
52	7/ For UGPR, the portion of depreciation expense allocated to PS-ED SSCD is based on the ratio of SSCD plant-in-service to total plant in service, calculated on L10 of the Net Plant									
53	Investment Worksheet									

WAPA-UGP 2022 Rate True-up Calculation (Rev 1)										
Line No.	(1)	WESTERN-UGP (2)		WESTERN-RMR (3)		COE (4)		BOR (5)		TOTAL (6)
54	Cost of Capital Worksheet									
55	Long Term Debt:									
56	FY Balances	909,534,006	1/	383,865,578	1/	709,902,522	1/	229,003,928	1/	2,232,306,034
57	Interest Expenses:									
58	FY Interest	36,333,083	13/	16,248,964	13/	22,576,411	2/	10,646,248	2/	85,804,706
59	Average Interest Rate	3.995%	L58/L56	4.233%	L58/L56	3.180%	L58/L56	4.649%	L58/L56	
60	Transmission Plant Factor	0.9387	3/	0.0047	4/	0.0567	5/	0.0000	6/	
61	Weighted Trans. Composite Rate									3.94963639590%
62	Generation Plant Factor	0.0078	8/	0.0000	9/	0.6840	10/	0.3082	11/	
63	Weighted Gen. Composite Rate									3.639%
64	1/ Historical Financial Data in Support of the Power Repayment Study for the P-SMBP, Schedules 21X and 21RX									12/
65	2/ Interest from Combined Financial Statements, Detail By Agency/Col M L53									
66	3/ C2L3+C2L6+L7, Net Plant Investment Worksheet/C6L3+C6L6+C6L7, Net Plant Investment Worksheet									
67	4/ C3L3, Net Plant Investment Worksheet/C6L3+C6L6+C6L7, Net Plant Investment Worksheet									
68	5/ C4L3, Net Plant Investment Worksheet/C6L3+C6L6+C6L7, Net Plant Investment Worksheet									
69	6/ C5L3, Net Plant Investment Worksheet/C6L3+C6L6+C6L7, Net Plant Investment Worksheet									
70	7/ (C2L59*C2L60)+(C3L59*C3L60)+(C4L59*C4L60)+(C5L59*C5L60)									
71	8/ C2L4, Net Plant Investment Worksheet/C6L4, Net Plant Investment Worksheet									
72	9/ C3L4, Net Plant Investment Worksheet/C6L4, Net Plant Investment Worksheet									
73	10/ C4L4, Net Plant Investment Worksheet/C6L4, Net Plant Investment Worksheet									
74	11/ C5L4, Net Plant Investment Worksheet/C6L4, Net Plant Investment Worksheet									
75	12/ (C2L59*C2L62)+(C3L59*C3L62)+(C4L59*C4L62)+(C5L59*C5L62)									
76	13/ FY UGPCSR - Pick-Sloan Missouri River Basin and UGPCSR - Ft. Peck Power System Results of Operations, Schedule 5-excludes deficit interest									

WAPA-UGP 2022 Rate True-up Calculation (Rev 1)						
Line No.	(1)	WESTERN-UGP (2)	WESTERN RMR (3)	COE (4)	BOR (5)	TOTAL (6)
77	A&G Expenses Worksheet					
78	Object Class	WESTERN UGPR 1/	WESTERN RMR 2/	COE 3/	BOR 3/	Total
79	1411	14,131,804	9,375,146	0	0	23,506,950
80	1412	7,638,994	4,101,925	0	0	11,740,919
81	1415	222,142	124,773	0	0	346,915
82	1416	106,031	(67,413)	0	0	38,619
83	1421	1,721,120	1,140,756	0	0	2,861,876
84	1422	1,278,687	329	0	0	1,279,016
85	1425	27,523	15,794	0	0	43,317
86	1426	16,236	(100)	0	0	16,135
87	1431	0	0	0	0	0
88	1432	2,233	0	0	0	2,233
89	1441	0	0	0	0	0
90	1442	(37)	0	0	0	(37)
91	1444	(48)	0	0	0	(48)
92	PS Total A&G	25,144,686	14,691,211	0	0	39,835,897
93	PS-ED Transmission A&G 4/	23,856,154	123,671	0	0	23,979,825
94	PS-ED Generation A&G 5/	233,925	0	0	0	233,925
95	PS-ED SSCD A&G 6/	280,214	0	0	0	280,214
96	BPU-Regional A&G	17,703				17,703
97	BPU-Zonal A&G	119,192				119,192
98	1/ Western-UGP A&G Expenses are from the UGPCSR - Pick-Sloan Missouri River Basin and UGPCSR - Ft. Peck Power System Results of Operations, Schedule 11A					
99	2/ Western RMR A&G Expenses are from the RMCSR - Pick-Sloan Missouri River Basin Results of Operations, Schedule 11A					
100	3/ A&G Expenses for COE and BOR are unavailable. All COE and BOR A&G expenses are included in O&M Expenses					
101	4/ The portion of A&G expenses allocated to PS-ED transmission is based on the ratio of transmission plant-in-service to total plant-in-service, calculated on L9 of the Net Plant					
102	Investment Worksheet					
103	5/ The portion of A&G expenses allocated to PS-ED generation is based on the ratio of generation plant-in-service to total plant-in-service, calculated on L8 of the Net Plant					
104	Investment Worksheet					
105	6/ The portion of A&G expenses allocated to PS-ED SSCD is based on the ratio of SSCD plant-in-service to total plant-in-service, calculated on L10 of the Net Plant Investment Worksheet					

WAPA-UGP 2022 Rate True-up Calculation (Rev 1)						
Line No.	(1)	WESTERN-UGP (2)	WESTERN RMR (3)	COE (4)	BOR (5)	TOTAL (6)
106	O&M Expenses Worksheet					
107		WESTERN-UGP 1/	WESTERN-RMR 2/	COE 3/	BOR 4/	Total
108	Total Electric Operating Expense	284,774,853	194,997,488	48,796,322	46,290,246	574,858,909
109	Less:					
110	Other Power Supply Expenses	187,844,675	131,000,218			318,844,893
111	A&G Expenses	25,144,686	14,691,211			39,835,897
112	Prior Year Adjustments	137,450	0			137,450
113	Annual Reserve Sharing Group Cost	42,587	42,587			85,174
114	Plus:					
115	Moveable Property Interest	970,418	437,783			1,408,201
116	Warehouse Stores Interest	155,060	85,843			240,903
117	Scheduling, System Control & Dispatch	12,120,489				12,120,489
118	PS Total O&M	72,730,934	49,829,685	48,796,322	46,290,246	217,604,600
119	PS-ED Transmission O&M 5/	69,003,857	419,468	3,235,606	0	72,658,931
120	PS-ED Generation O&M 6/	676,627	0	45,560,716	46,290,246	92,527,589
121	BPU-Regional O&M	51,205				51,205
122	BPU-Zonal O&M	344,762				344,762
123	1/ All Western-UGP O&M Expenses are from the UGPCSR - Pick-Sloan Missouri River Basin and UGPCSR - Ft. Peck Power System Results of Operations, Schedule 11; except					
124	Moveable Property and Warehouse Stores Interest, which are from Schedule 5					
125	2/ All Western RMR O&M Expenses are from the RMCSR - Pick-Sloan Missouri River Basin Results of Operations, Schedule 11; except Moveable Property and Warehouse					
126	Stores Interest, which are from Schedule 5					
127	3/ Total Corps O&M Expenses are from the Corps of Engineers Financial Statements					
128	4/ Total BOR O&M Expenses are from the Combined Financial Statements					
129	5/ The portion of O&M expenses allocated to PS-ED transmission is based on the ratio of transmission plant-in-service to total plant-in-service, calculated on L9 of the					
130	Net Plant Investment Worksheet					
131	6/ The portion of O&M expenses allocated to PS-ED generation is based on the ratio of generation plant-in-service to total plant-in-service, calculated on L8 of the					
132	Net Plant Investment Worksheet					

Line No.	Project Name and # (1)	Type (2)	Project Gross Plant (Zonal Allocation) \$ (3)	Allocation Factor % (4)	Project Accumulated Depreciation \$ (5)	Allocation for Transmission O&M \$ (6)	Allocation for General Plant Depreciation \$ (7)	Allocation for A&G \$ (8)	Cost of Capital (9)	Project Net Plant \$ (10)	Cost of Capital \$ (11)	Gross ATRR \$ (12)	Revenue Credit Allocation \$ /1 (13)	Net ATRR \$ (14)
1	LEWIS-RICHLAND 115 kV Ckt 1, 72052, /1	TL	51,813	0.71%	26,421	2,434	1,100	842	3.95%	25,392	1,003	5,379	(521)	4,858
2	ROBERTS COUNTY 115 kV SUBSTATION, 71926	SUB	2,212,759	30.15%	1,128,342	103,962	46,974	35,942	3.95%	1,084,417	42,831	229,709	(22,230)	207,479
3	ROBERTS COUNTY 115/69 kV TRANSFORMER, 71927	SUB	5,073,024	69.13%	2,586,863	238,347	107,693	82,402	3.95%	2,486,161	98,194	526,636	(50,965)	475,671
4	WILLISTON SUBSTATION 115 kV TERMINAL UPGRADES, 61856. 1/	SUB	403	0.01%	205	19	9	7	3.95%	198	8	42	(4)	38
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15	Total		7,338,000	100%	3,741,831	344,762	155,775	119,192		3,596,168	142,036	761,765	(73,719)	688,045
16	1/ Revenue Credit Allocation Total from WS3-Rev Credit C6L182 and allocated based on the ratio of Zonal project plant-in-service to total Zonal plant-in-service, calculated in column 4 of this worksheet													

WAPA-UGP 2022 Rate True-up Calculation (Rev 1)
Worksheet 6 - Base Plan Upgrades-Regional
12 Months Ending 09/30/2022 True-up

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Project Name and #		Type	Project Gross Plant (Regional Allocation) \$	Allocation Factor %	Project Accumulated Depreciation \$	Allocation for Transmission O&M \$	Allocation for General Plant Depreciation \$	Allocation for A&G \$	Cost of Capital	Project Net Plant \$	Cost of Capital \$	Gross ATRR \$	Revenue Credit Allocation \$ /1	Net ATRR \$
Line No.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1	Roberts County 115 kV Substation, 71926	SUB	1,089,866	100.00%	555,750	51,205	23,136	17,703	3.95%	534,116	21,096	113,140	(8,435)	104,705
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13	Total		1,089,866	100%	555,750	51,205	23,136	17,703		534,116	21,096	113,140	(8,435)	104,705

1/ Revenue Credit Allocation Total from WS3-Rev Credit C6L210 and allocated based on the ratio of Regional project plant-in-service to total Regional plant-in-service, calculated in column 4 of this worksheet

WAPA-UGP 2022 Rate True-up Calculation (Rev 1)		(Back to Worksheet Links)				
Worksheet 7 - SPP Base Plan Upgrades-Facilities						
12 Months Ending 09/30/2022 True-up						
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2022 SPP TRUE-UP SUMMARY						
Line No.	FID	DESCRIPTION	PRIOR YEAR FACILITY TOTALS (\$)	BASE PLAN UPGRADES-REGIONAL	BASE PLAN UPGRADES-ZONAL	FY2022 SPP TOTALS (\$)
1	LC-RH	LEWIS-RICHLAND 115 kV Ckt 1, 72052, /1	51,813	0	51,813	51,813
2	RCO	ROBERTS COUNTY 115 kV SUBSTATION, 71926	3,302,626	1,089,866	2,212,759	3,302,626
3	RCO	ROBERTS COUNTY 115/69 kV TRANSFORMER, 71927	5,073,024	0	5,073,024	5,073,024
4	WN	WILLISTON SUBSTATION 115 kV TERMINAL UPGRADES, 61856. 1/	403	0	403	403
5			8,427,867	1,089,866	7,338,000	8,427,866
2022 SPP TRUE-UP DETAIL:						
	FID	DESCRIPTION	FID COST DETAIL (\$)	REG %	REG TOTAL (\$)	ZONAL % ZONAL TOTAL (\$)
6	LC-RH	CONDUCTOR	51,813	0.00%	0	100.00% 51,813
8		LEWIS-RICHLAND 115 kV Ckt 1, 72052 - SUBTOTAL	51,813		-	51,813
9	RCO	STEEL STRUCTURE	181,965	33.00%	60,049	67.00% 121,917
10	RCO	STEEL STRUCTURE	131,277	33.00%	43,321	67.00% 87,956
11	RCO	STEEL STRUCTURE	265,373	33.00%	87,573	67.00% 177,800
12	RCO	DISCONNECT SWITCH	73,712	33.00%	24,325	67.00% 49,387
13	RCO	DISCONNECT SWITCH	141,931	33.00%	46,837	67.00% 95,094
14	RCO	DISCONNECT SWITCH	179,996	33.00%	59,399	67.00% 120,597
15	RCO	CCVT	39,217	33.00%	12,942	67.00% 26,276
16	RCO	CCVT	89,701	33.00%	29,601	67.00% 60,100
17	RCO	CIRCUIT BREAKER	22,459	33.00%	7,412	67.00% 15,048
18	RCO	CIRCUIT BREAKER	410,893	33.00%	135,595	67.00% 275,298
19	RCO	STEEL STRUCTURE	304,124	33.00%	100,361	67.00% 203,763
20	RCO	STATION SERVICE, LAND, CONTROL BUILDING	1,461,976	33.00%	482,452	67.00% 979,524
21		ROBERTS COUNTY 115 kV SUBSTATION, 71926 - SUBTOTAL	3,302,626		1,089,866	2,212,759
22	RCO	POWER TRANSFORMER	20,893	0.00%	0	100.00% 20,893
23	RCO	POWER TRANSFORMER	461,395	0.00%	0	100.00% 461,395
24	RCO	POWER TRANSFORMER	481,329	0.00%	0	100.00% 481,329
25	RCO	DISCONNECT SWITCH	158,422	0.00%	0	100.00% 158,422
26	RCO	DISCONNECT SWITCH	61,693	0.00%	0	100.00% 61,693
27	RCO	DISCONNECT SWITCH	161,498	0.00%	0	100.00% 161,498
28	RCO	CCVT	13,072	0.00%	0	100.00% 13,072
29	RCO	CCVT	28,805	0.00%	0	100.00% 28,805
30	RCO	VOLTAGE TRANSFORMER	13,891	0.00%	0	100.00% 13,891
31	RCO	VOLTAGE TRANSFORMER	32,368	0.00%	0	100.00% 32,368
32	RCO	VOLTAGE TRANSFORMER	14,101	0.00%	0	100.00% 14,101
33	RCO	INSTRUMENT TRANSFORMER	13,037	0.00%	0	100.00% 13,037
34	RCO	INSTRUMENT TRANSFORMER	35,655	0.00%	0	100.00% 35,655
35	RCO	CIRCUIT BREAKER	25,490	0.00%	0	100.00% 25,490
36	RCO	CIRCUIT BREAKER	397,859	0.00%	0	100.00% 397,859
37	RCO	STEEL STRUCTURE	229,083	0.00%	0	100.00% 229,083
38	RCO	POWER TRANSFORMER	138,325	0.00%	0	100.00% 138,325
39	RCO	STEEL STRUCTURE	423,875	0.00%	0	100.00% 423,875
40	RCO	ARRESTER	13,145	0.00%	0	100.00% 13,145
41	RCO	OIL STORAGE TANK	103,408	0.00%	0	100.00% 103,408
42	RCO	STATION SERVICE, LAND, CONTROL BUILDING	2,245,681	0.00%	0	100.00% 2,245,681
43		ROBERTS COUNTY 115/69 kV TRANSFORMER, 71927 - SUBTOTAL	5,073,024	-	-	5,073,024
44	WN	RELAYS	403	0.00%	0	100.00% 403
45		WILLISTON SUBSTATION 115 kV TERMINAL UPGRADES, 61856 - SUBTOTAL	403		0	403
46		TOTAL	8,427,866		1,089,866	7,338,000
47	1/ The Region-Wide Revenue Requirement Amount for this project or reservation is 0%, pursuant to the provisions of Tariff Attachment J because the investment is less than \$100,000.					
48	The remainder of the Revenue Requirement is the Zonal Revenue Requirement Amount.					

WAPA-UGP 2022 Rate True-up Calculation (Rev 1)

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Worksheet 8 - Transmission Facilities

12 Months Ending 09/30/2022 True-up

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
				FY2022 FACILITY TOTALS (\$)	ATTACHMENT AI ADJUSTMENTS (\$)	GENERATION ADJUSTMENTS (\$)	OTHER ADJUSTMENTS (\$)	FY2022 ACT SPP TOTALS (\$)
Line No.		FID	DESCRIPTION					
1	TL	AUR BR	AURORA- BROOKINGS 115-KV T/L	343,710	-	-		343,710
2	TL	AUR FL	AURORA-FLANDREAU 115-KV T/L	96,623	-	-		96,623
3	TL	BK HET	BAKER-HETTINGER	459,778	-	-		459,778
4	TL	BU GA	BEULAH-GARRISON	357,312	-	-		357,312
5	TL	BS GH	BISMARCK-GLENHAM	6,362,300	-	-		6,362,300
6	TL	BS JT 1	BISMARCK-JAMESTOWN NO. 1	9,317,120	-	-		9,317,120
7	TL	BS JT 2	BISMARCK-JAMESTOWN NO. 2	4,229,572	-	-		4,229,572
8	TL	BS MDR	BISMARCK-MEDORA	12,795,412	-	-		12,795,412
9	TL	BR SF	BROOKINGS-SIOUX FALLS	2,564,429	-	-		2,564,429
10	TL	BR WT 1	BROOKINGS-WATERTOWN NO. 1	1,718,240	-	-		1,718,240
11	TL	BR WT 2	BROOKINGS-WATERTOWN NO. 2	3,318,558	-	-		3,318,558
12	TL	BR WHT	BROOKINGS-WHITE 115/230KV	3,135,515	-	-		3,135,515
13	TL	CA JT	CARRINGTON-JAMESTOWN	1,259,668	-	-		1,259,668
14	TL	WC BU	CHARLIE CREEK - WATFORD CITY	13,451,446	-	-		13,451,446
15	TL	CCRBEF	CHARLIE CREEK-BELFIELD	14,513,308	-	-		14,513,308
16	TL	CR DC	CIRCLE-DAWSON COUNTY	5,768,275	-	-		5,768,275
17	TL	CONSH2	CONRAD-SHELBY #2	6,735,890	-	-		6,735,890
18	TL	CS MY	CRESTON-MARYVILLE	1,366,481	-	-		1,366,481
19	TL	DC MC	DAWSON COUNTY - MILES CITY	2,605,678	-	-		2,605,678
20	TL	DC GL	DAWSON-GLENDIVE	553,800	-	-		553,800
21	TL	DC MDR	DAWSON-MEDORA	3,464,064	-	-		3,464,064
22	TL	DC OF	DAWSON-O'FALLON CREEK	918,676	-	-		918,676
23	TL	DC WN	DAWSON-WILLISTON /2	1,258,900	-	-	(51,813)	1,207,087
24	TL	DN CS	DENISON-CRESTON	20,977,731	-	-		20,977,731
25	TL	DL CA	DEVILS LAKE-CARRINGTON	9,154,519	-	-		9,154,519
26	TL	DL LA	DEVILS LAKE-LAKOTA	1,872,142	-	-		1,872,142
27	TL	ED FO	EDGELEY-FORMAN	1,981,753	-	-		1,981,753
28	TL	ED GR	EDGELEY-GROTON	771,572	-	-		771,572
29	TL	ELCMA	ELK CREEK-NEWELL-MAURINE 115-kv T/L	34,388	-	-		34,388
30	TL	FA GK	FARGO-GRAND FORKS	2,369,098	-	-		2,369,098
31	TL	FA MO	FARGO-MORRIS	8,661,076	-	-		8,661,076
32	TL	FO RCO	FORMAN-ROBERTS COUNTY	183,485	-	-		183,485
33	TL	FO SU D	FORMAN-SUMMIT (BISMARCK)	922,098	-	-		922,098
34	TL	FO SU C	FORMAN-SUMMIT (HURON)	4,465,037	-	-		4,465,037
35	TL	FP DC 1	FORT PECK-DAWSON 1	200,790	-	-		200,790
36	TL	FP DC 2	FORT PECK-DAWSON 2	8,301,710	-	-		8,301,710
37	TL	FP HV	FORT PECK-HAVRE	28,806,330	-	-		28,806,330
38	TL	FP WH	FORT PECK-WHATELY	157,876	-	-		157,876
39	TL	FP WN	FORT PECK-WILLISTON	17,813,196	-	-		17,813,196
40	TL	FP WP 2	FORT PECK-WOLF POINT #2	7,554,492	-	-		7,554,492
41	TL	FR FT D	FORT RANDALL-FORT THOMPSON 1&2	7,782,247	-	-		7,782,247
42	TL	FR GP	FORT RANDALL-GAVIN'S POINT	2,319,939	-	-		2,319,939
43	TL	FR GY	FORT RANDALL-GREGORY	777,327	-	-		777,327
44	TL	FR MV	FORT RANDALL-MT VERNON	2,269,522	-	-		2,269,522

45	TL	FR ON	FORT RANDALL-O'NEILL	937,082	-	-	937,082
46	TL	FR SC D	FORT RANDALL-SIOUX CITY 1&2	11,919,659	-	-	11,919,659
47	TL	FT GI	FORT THOMPSON-GRAND ISLAND	17,840,941	-	-	17,840,941
48	TL	FT HU D	FORT THOMPSON-HURON 230-KV 1&2	7,747,203	-	-	7,747,203
49	TL	FT SF D	FORT THOMPSON-SIOUX FALLS 1&2	10,455,917	-	-	10,455,917
50	TL	GA BS D	GARRISON-BISMARCK 230KV 1&2	10,713,977	-	-	10,713,977
51	TL	GA JT	GARRISON-JAMESTOWN	5,062,688	-	-	5,062,688
52	TL	GA ML	GARRISON-MALLARD	1,948,079	-	-	1,948,079
53	TL	GA WJ	GARRISON-WM. J. NEAL	1,521,174	-	-	1,521,174
54	TL	GP BN	GAVINS POINT-BELDEN	455,727	-	-	455,727
55	TL	GP SF	GAVINS POINT-SIOUX FALLS	3,361,449	-	-	3,361,449
56	TL	GF MO	GRANITE FALLS- MORRIS	3,279,089	-	-	3,279,089
57	TL	GF MNV	GRANITE FALLS-MINNESOTA VALLEY	156,778	-	-	156,778
58	TL	GTFCON	GREAT FALLS-CONRAD	12,744,945	-	-	12,744,945
59	TL	GY MS	GREGORY-MISSION	10,110,752	-	-	10,110,752
60	TL	GR HU	GROTON-HURON	1,270,645	-	-	1,270,645
61	TL	GR SU	GROTON-SUMMIT	3,255,847	-	-	3,255,847
62	TL	HV RB	HAVRE-RAINBOW	8,681,332	-	-	8,681,332
63	TL	HV SH2	HAVRE-SHELBY#2	5,561,905	-	-	5,561,905
64	TL	HE DV	HESKETT-DEVAUL	6,016,436	-	-	6,016,436
65	TL	HETNU	HETTINGER-NEW UNDERWOOD	11,263,708	-	-	11,263,708
66	TL	HU MV	HURON-MT VERNON	617,623	-	-	617,623
67	TL	HU WT D	HURON-WATERTOWN 230KV 1&3	6,319,622	-	-	6,319,622
68	TL	JT ED	JAMESTOWN-EDGELEY	1,189,520	-	-	1,189,520
69	TL	JT FA 1	JAMESTOWN-FARGO NO. 1	4,941,649	-	-	4,941,649
70	TL	JT FA 2	JAMESTOWN-FARGO NO. 2	3,155,850	-	-	3,155,850
71	TL	JT GK	JAMESTOWN-GRAND FORKS	28,856,299	-	-	28,856,299
72	TL	JT VC	JAMESTOWN-VALLEY CITY	1,055,414	-	-	1,055,414
73	TL	LAHCF	LAKE HELENA SWITCHYARD - CANYON FERRY 100 KV	619,324	-	-	619,324
74	TL	LE DL	LEEDS-DEVILS LAKE	8,987,642	-	-	8,987,642
75	TL	LE RL	LEEDS-ROLLA	6,257,786	-	-	6,257,786
76	TL	ML RG	MALLARD-RUGBY	1,089,083	-	-	1,089,083
77	TL	MR MS	MARTIN-MISSION	1,816,904	-	-	1,816,904
78	TL	MR PL	MARTIN-PHILIP	2,349,423	-	-	2,349,423
79	TL	MA RC	MAURINE-RAPID CITY	6,346,265	-	-	6,346,265
80	TL	MC BK	MILES CITY-BAKER	11,220,164	-	-	11,220,164
81	TL	MC CU	MILES CITY-CUSTER	3,750,704	-	-	3,750,704
82	TL	NU PL	NEW UNDERWOOD-PHILIP	3,215,519	-	-	3,215,519
83	TL	NU RC 1	NEW UNDERWOOD-RAPID CITY NO. 1	1,132,486	-	-	1,132,486
84	TL	NU RC 2	NEW UNDERWOOD-RAPID CITY NO. 2	309,991	-	-	309,991
85	TL	NU SG C	NEW UNDERWOOD-STEGALL (HURON)	2,651,860	-	-	2,651,860
86	TL	OA FT N	OAHE-FORT THOMPSON 230KV 1&2	3,973,416	-	-	3,973,416
87	TL	OA FT S	OAHE-FORT THOMPSON 230KV 3&4	5,563,296	-	-	5,563,296
88	TL	OA GH	OAHE-GLENHAM	5,949,648	-	-	5,949,648
89	TL	OA MA	OAHE-MAURINE	1,967,901	-	-	1,967,901
90	TL	OA NU	OAHE-NEW UNDERWOOD	6,683,770	-	-	6,683,770
91	TL	OA PI	OAHE-PIERRE	388,816	-	-	388,816
92	TL	OF MC	O'FALLON CREEK-MILES CITY	2,488,318	-	-	2,488,318
93	TL	ORD GSO	ORDWAY-GROTON SOUTH	2,038,920	-	-	2,038,920
94	TL	PI PL	PIERRE-PHILIP	2,140,436	-	-	2,140,436
95	TL	RC DRY	RAPID CITY-DRY CREEK	9,269,194	-	-	9,269,194

96	TL	ELCRC	RAPID CITY-ELK CREEK 115-kV T/L	52,064	-	-	52,064
97	TL	RCOSU	ROBERTS COUNTY-SUMMIT	757,812	-	-	757,812
98	TL	RG LE	RUGBY-LEEDS	2,235,655	-	-	2,235,655
99	TL	SH SH2	SHELBY-SHELBY #2	576,090	(576,090)	-	0
100	TL	SC DN	SIOUX CITY-DENISON	15,738,204	-	-	15,738,204
101	TL	SC SP	SIOUX CITY-SPENCER	1,938,353	-	-	1,938,353
102	TL	SC SF	SIOUX FALLS- SIOUX CITY	3,217,192	-	-	3,217,192
103	TL	SF VFO	SIOUX FALLS-VIRGIL FODNESS 230KV T-LINE	277,897	-	-	277,897
104	TL	SU WT	SUMMIT-WATERTOWN	6,743,203	-	-	6,743,203
105	TL	TT TI	TIBER TAP-TIBER	1,084,858	-	-	1,084,858
106	TL	UJ SF	UTICA JCT-SIOUX FALLS	3,485,236	-	-	3,485,236
107	TL	VC FO	VALLEY CITY-FORMAN	2,418,957	-	-	2,418,957
108	TL	VR GTF	VERONA GREAT FALLS 161-kV LINE	5,110,115	-	-	5,110,115
109	TL	UJ VFO	VIRGIL FODNESS-UTICA JUNCTION-FT RANDALL/RASMUS	312,931	-	-	312,931
110	TL	WDDBEF	WARD DELIVERY-BELFIELD 230KV T-LINE	120,026	-	-	120,026
111	TL	WT GF D	WATERTOWN-GRANITE FALLS 1&2	7,488,154	-	-	7,488,154
112	TL	WT SC	WATERTOWN-SIOUX CITY	26,924,889	-	-	26,924,889
113	TL	WC BU	WATFORD CITY-BEULAH	349,954	-	-	349,954
114	TL	WN WC	WILLISTON-WATFORD CITY	17,627,868	-	-	17,627,868
115	TL	WP CR	WOLF POINT-CIRCLE	11,035,514	-	-	11,035,514
116	TL	WJ RG	WM. J. NEAL-RUGBY	4,629,316	-	-	4,629,316
117	TL	YT CU	YELLOWTAIL-CUSTER	4,270,497	-	-	4,270,497
118	TL Total		TRANSMISSION LINES	611,018,038	(576,090)	-	610,390,135
119	SUB	AN	ANITA	6,259	-	-	6,259
120	SUB	AVS	ANTELOPE VALLEY	12,377	-	-	12,377
121	SUB	APD	APPELDORN SUBSTATION	5,795,384	-	-	5,795,384
122	SUB	AR	ARMOUR SUBSTATION	2,318,295	(800,024)	-	1,518,272
123	SUB	AHS	ASH SUBSTATION	63,325	-	-	63,325
124	SUB	AB	ASSINNIBOINE	35,005	(35,005)	-	0
125	SUB	AUR	AURORA SUBSTATION	2,931,082	(124,344)	-	2,806,738
126	SUB	BK	BAKER	279,691	-	-	279,691
127	SUB	BN	BELDEN SUBSTATION	298,522	-	-	298,522
128	SUB	BEF	BELFIELD SUBSTATION	13,926,843	(109,224)	-	13,817,619
129	SUB	BE	BERESFORD SUBSTATION	4,733,510	(231,321)	-	4,502,189
130	SUB	BB	BISBEE SUBSTATION	495,306	(441,104)	-	54,202
131	SUB	BS	BISMARK SUBSTATION	18,573,658	(200,648)	-	18,373,010
132	SUB	BI	BISON	37,821	-	-	37,821
133	SUB	BOL	BOLE SUB	3,077,348	(630,455)	-	2,446,893
134	SUB	BO	BONESTEEL SUBSTATION	3,496,396	(1,310,501)	-	2,185,895
135	SUB	BR	BROOKINGS SUBSTATION	14,164,196	-	-	14,164,196
136	SUB	CBC	CAMPBELL COUNTY SWITCHING STATION	4,765,826	-	-	4,765,826
137	SUB	CF	CANYON FERRY	83,039	-	-	83,039
138	SUB	CRP	CARPENTER SUBSTATION	2,841,163	-	-	2,841,163
139	SUB	CA	CARRINGTON SUBSTATION	3,879,364	(1,007,873)	-	2,871,491
140	SUB	CCR	CHARLIE CREEK	1,401,477	-	-	1,401,477
141	SUB	CR	CIRCLE SUBSTATION	8,543,590	(2,065,347)	-	6,478,242
142	SUB	CON	CONRAD SUB	5,362,775	(151,625)	-	5,211,149
143	SUB	CS	CRESTON SUBSTATION	8,521,707	-	-	8,521,707
144	SUB	CRO	CROSSOVER SUB	13,977,734	-	-	13,977,734
145	SUB	CQE	CULBERTSON EAST SWITCHING STATION	2,390,851	-	-	2,390,851
146	SUB	CU	CUSTER SUBSTATION	4,865,007	(346,142)	-	4,518,865

147	SUB	CT	CUSTER TRAIL SUBSTATION	1,567,242	(1,567,242)	-	0
148	SUB	DC	DAWSON COUNTY SUBSTATION	10,803,793	(2,305)	-	10,801,488
149	SUB	DNT	DENBIGH TAP	848,872	(109,673)	-	739,200
150	SUB	DN	DENISON SUBSTATION	16,272,743	-	-	16,272,743
151	SUB	DV	DEVAUL SUBSTATION	1,657,438	(1,657,438)	-	0
152	SUB	DL	DEVILS LAKE SUBSTATION	14,635,855	(537,805)	-	14,098,050
153	SUB	DK	DICKINSON	101,980	-	-	101,980
154	SUB	EJ	E. J. MANNING	49,112	-	-	49,112
155	SUB	EA	EAGLE	88,696	-	-	88,696
156	SUB	EB	EAGLE BUTTE SUBSTATION	2,149,404	(1,211,250)	-	938,154
157	SUB	ED	EDGELEY SUBSTATION	6,811,986	(1,197,122)	-	5,614,864
158	SUB	ELC	ELK CREEK SUBSTATION	2,101,779	(17,147)	-	2,084,632
159	SUB	EL	ELLENDALE SUBSTATION	579	(579)	-	0
160	SUB	ELI	ELLIOTT SWITCHING STATION	3,507,129	(41,652)	-	3,465,476
161	SUB	END	ENDERLIN TAP STATION	749,768	(494,847)	-	254,921
162	SUB	EXI	EXIRA SWITCHING STATION	5,508,482	(164,229)	-	5,344,253
163	SUB	FVW	FAIRVIEW WEST SWITCHING STATION	4,296,873	-	-	4,296,873
164	SUB	FH	FAITH SUBSTATION	1,235,034	(586,377)	-	648,658
165	SUB	FA	FARGO SUBSTATION	27,447,906	-	-	27,447,906
166	SUB	FL	FLANDREAU SUBSTATION	4,485,548	(40,435)	-	4,445,113
167	SUB	FO	FORMAN SUBSTATION	7,486,471	(1,303,371)	-	6,183,099
168	SUB	FR	FORT RANDALL	253,710	-	-	253,710
169	SUB	FT2	FORT THOMPSON #2	13,833,713	-	-	13,833,713
170	SUB	FT	FORT THOMPSON SUBSTATION	17,456,296	(163,144)	-	17,293,152
171	SUB	GL	GLENDIVE SUBSTATION	1,725,310	-	-	1,725,310
172	SUB	GK	GRAND FORKS SUBSTATION	14,306,727	-	-	14,306,727
173	SUB	GI	GRAND ISLAND SUBSTATION	19,014,782	-	-	19,014,782
174	SUB	GRP	GRAND PRAIRIE SUBSTATION /1	269,023	-	-	269,023
175	SUB	GF	GRANITE FALLS SUBSTATION	23,973,749	(1,922,930)	-	22,050,819
176	SUB	GTF	GREAT FALLS SUB	8,470,404	-	-	8,470,404
177	SUB	GY	GREGORY SUBSTATION	1,517,925	(43,752)	-	1,474,173
178	SUB	GR	GROTON SUBSTATION	6,180,011	(326,877)	-	5,853,134
179	SUB	GSO	GROTON SOUTH SUBSTATION	8,552,324	-	-	8,552,324
180	SUB	HA	HARLEM	98,534	-	-	98,534
181	SUB	HV	HAVRE SUBSTATION	12,268,218	(62,475)	-	12,205,743
182	SUB	HBN	HEBRON SWITCHING STATION	6,872,238	(59,777)	-	6,812,460
183	SUB	HET	HETTINGER	10,832	-	-	10,832
184	SUB	HLK	HILKEN SWITCHING STATION	3,937,936	(143,716)	-	3,794,220
185	SUB	HU	HURON SUBSTATION	12,929,080	(786,536)	-	12,142,544
186	SUB	JT	JAMESTOWN SUBSTATION	25,958,919	(1,112,294)	-	24,846,625
187	SUB	KD	KILLDEER SUBSTATION	7,092,854	(1,181,101)	-	5,911,753
188	SUB	LA	LAKOTA SUBSTATION	3,972,264	(1,591,198)	-	2,381,066
189	SUB	LE	LEEDS SUBSTATION	4,045,847	(158,722)	-	3,887,126
190	SUB	LET	LETCHER SUBSTATION	11,108,748	-	-	11,108,748
191	SUB	ML	MALLARD	29,969	-	-	29,969
192	SUB	MT	MALTA	340,848	-	-	340,848
193	SUB	MDN	MANDAN SUBSTATION	19,476	-	-	19,476
194	SUB	MR	MARTIN SUBSTATION	6,503,752	(836,290)	-	5,667,462
195	SUB	MA	MAURINE SUBSTATION	7,612,599	(343,742)	-	7,268,857
196	SUB	MD	MIDLAND SUBSTATION	1,329,826	(154,097)	-	1,175,729
197	SUB	MC2	MILES CITY SUB #2	7,904,071	-	-	7,904,071

198	SUB	MC3	MILES CITY SUB #3	1,895,702	-	-	1,895,702
199	SUB	MC	MILES CITY SUBSTATION	1,202,099	-	-	1,202,099
200	SUB	MGV	MINGUSVILLE SUBSTATION	5,351,152	-	-	5,351,152
201	SUB	MS	MISSION SUBSTATION	3,531,441	(586,992)	-	2,944,449
202	SUB	MO	MORRIS SUBSTATION	7,937,660	(1,095,435)	-	6,842,224
203	SUB	MV	MT VERNON SUBSTATION	5,418,696	(195,318)	-	5,223,378
204	SUB	NA	NASHUA SUB	72,368	(72,368)	-	0
205	SUB	NEL	NELSON SUBSTATION	1,944,817	(33,744)	-	1,911,073
206	SUB	NU	NEW UNDERWOOD SUBSTATION	18,362,017	-	-	18,362,017
207	SUB	NL	NEWELL SUBSTATION	4,160,418	(287,497)	-	3,872,921
208	SUB	OF	O'FALLON CREEK SUBSTATION	3,770,311	(71,356)	-	3,698,955
209	SUB	ON	O'NEILL SUB (NPP)	180,660	-	-	180,660
210	SUB	PET	PENN TAP	890,607	(108,485)	-	782,122
211	SUB	PL	PHILIP SUBSTATION	2,034,592	(209,290)	-	1,825,302
212	SUB	PI	PIERRE SUBSTATION	4,220,541	(699,890)	-	3,520,651
213	SUB	PLL	PLEASANT LAKE TAP	992,415	(160,601)	-	831,814
214	SUB	RB	RAINBOW SUBSTATION	250,629	(250,629)	-	0
215	SUB	RC	RAPID CITY SUBSTATION	5,739,051	(630,015)	-	5,109,036
216	SUB	RH	RICHLAND SUBSTATION	1,733,528	(1,733,528)	-	0
217	SUB	RCO	ROBERTS COUNTY /2	8,375,651	-	(8,375,651)	(0)
218	SUB	RL	ROLLA SUBSTATION	623,513	-	-	623,513
219	SUB	RY	RUDYARD SUBSTATION	3,439,427	(1,380,449)	-	2,058,978
220	SUB	RG	RUGBY SUBSTATION	8,746,430	(1,538,024)	-	7,208,406
221	SUB	SA	SAVAGE SUB	74,403	-	-	74,403
222	SUB	SH	SHELBY SUBSTATION	4,043,804	(4,043,804)	-	(0)
223	SUB	SH2	SHELBY SUBSTATION #2	5,664,918	(169,696)	-	5,495,222
224	SUB	SL	SHIRLEY TAP	22,102	-	-	22,102
225	SUB	SC2	SIOUX CITY #2	12,976,455	-	-	12,976,455
226	SUB	SC	SIOUX CITY SUBSTATION	15,965,765	-	-	15,965,765
227	SUB	SF	SIOUX FALLS SUBSTATION	14,869,650	(516,513)	-	14,353,137
228	SUB	SP	SPENCER	8,022,741	(254,683)	-	7,768,058
229	SUB	SNY	STANLEY	49,735	-	-	49,735
230	SUB	SB	SULLY BUTTES	93,606	-	-	93,606
231	SUB	SUH	SULPHUR	21,126	-	-	21,126
232	SUB	SU	SUMMIT SUBSTATION	3,393,721	(334,513)	-	3,059,208
233	SUB	TR	TERRY TAP	638,489	(103,121)	-	535,368
234	SUB	TT	TIBER TAP	166,306	-	-	166,306
235	SUB	TN	TOWNER	5,243,015	-	-	5,243,015
236	SUB	TY	TYNDALL SUBSTATION	937,621	(125,594)	-	812,027
237	SUB	UJ	UTICA JCT.	12,816,177	-	-	12,816,177
238	SUB	VH	V. T. HANLON	12,228,700	-	-	12,228,700
239	SUB	VC	VALLEY CITY SUBSTATION	6,935,918	(176,541)	-	6,759,377
240	SUB	VR	VERONA	50,121	-	-	50,121
241	SUB	VE	VETAL TAP	232,375	-	-	232,375
242	SUB	VFO	VIRGIL FODNESS SUBSTATION	3,220,641	-	-	3,220,641
243	SUB	WL	WALL SUBSTATION	1,645,871	(654,299)	-	991,572
244	SUB	WNB	WANBLEE TAP	-	-	-	0
245	SUB	WDD	WARD SUBSTATION	3,453,847	(45,362)	-	3,408,486
246	SUB	WB	WASHBURN SUBSTATION	2,244,715	(942,415)	-	1,302,300
247	SUB	WT2	WATERTOWN #2	3,223,563	-	-	3,223,563
248	SUB	WTS	WATERTOWN STATIC VAR SYSTEM	11,778,775	-	-	11,778,775

249	SUB	WT	WATERTOWN SUBSTATION	18,723,157	-	-	18,723,157
250	SUB	WC	WATFORD CITY SUB	7,600,294	(108,365)	-	7,491,928
251	SUB	WSG	WESSINGTON SPRINGS SUBSTATION	5,141,440	(181,849)	-	4,959,591
252	SUB	WH2	WHATELY (NORTHERN)	40,860	-	-	40,860
253	SUB	WH	WHATELY SUBSTATION	109,910	(54,083)	-	55,827
254	SUB	WHT	WHITE 345/115 SUB	11,088,274	-	-	11,088,274
255	SUB	WV	WICKSVILLE SUBSTATION	849,186	(250,593)	-	598,593
256	SUB	WN2	WILLISTON 2 SUBSTATION	15,594,604	-	-	15,594,604
257	SUB	WN	WILLISTON SUBSTATION /2	8,198,987	(97,320)	-	8,101,264
258	SUB	WI	WINNER SUBSTATION	3,289,729	(243,117)	-	3,046,613
259	SUB	WJ	WM. J. NEAL	183,222	-	-	183,222
260	SUB	WP	WOLF POINT SUBSTATION	7,289,287	(1,346,899)	-	5,942,388
261	SUB	WO	WOONSOCKET SUBSTATION	2,775,992	(1,579,680)	-	1,196,312
262	SUB	YJ	YANKTON JCT.	76,396	-	-	76,396
263	SUB	YA	YANKTON SUBSTATION	2,935	-	-	2,935
264	SUB Total		SUBSTATIONS	768,126,381	(45,553,806)	-	714,196,521
265	O&M	ARC	ARMOUR O&M SER. CEN.	3,488,667	-	-	3,488,667
266	O&M	BSM	BISMARCK O&M SER. CEN.	9,888,331	-	-	9,888,331
267	O&M	DCF	DAWSON SER. CEN.	6,853,289	-	-	6,853,289
268	O&M	DLM	DEVILS LAKE O&M SER. CEN.	3,852,064	-	-	3,852,064
269	O&M	FAO	FARGO LINE MAINTENANCE FACILITY	2,203,121	-	-	2,203,121
270	O&M	FAM	FARGO O&M SER. CEN.	584,445	-	-	584,445
271	O&M	FPM	FORT PECK SER. CEN.	8,407,259	-	-	8,407,259
272	O&M	FTM	FORT THOMPSON O&M S. C.	2,209,623	-	-	2,209,623
273	O&M	HVM	HAVRE SERVICE CENTER	493,999	-	-	493,999
274	O&M	HUM	HURON O&M SER. CEN.	3,084,644	-	-	3,084,644
275	O&M	JTM	JAMESTOWN O&M SER. CEN.	3,874,657	-	-	3,874,657
276	O&M	MCM	MILES CITY MTCE FAC.	1,025,254	-	-	1,025,254
277	O&M	NUM	NEW UNDERWOOD SER. CEN.	96,884	-	-	96,884
278	O&M	PLM	PHILIP O&M SER. CENT.	1,699,741	-	-	1,699,741
279	O&M	PIM	PIERRE O&M SER. CEN.	1,051,383	-	-	1,051,383
280	O&M	RCM	RAPID CITY GARAGE & STOR.	2,221,967	-	-	2,221,967
281	O&M	RCN	RAPID CITY NORTH O&M SER. CEN.	1,285,819	-	-	1,285,819
282	O&M	SCM	SIOUX CITY O&M SER. CEN.	7,115,527	-	-	7,115,527
283	O&M	SFC	SIOUX FALLS O&M SER. CEN.	239,920	-	-	239,920
284	O&M	WTM	WATERTOWN MAINT. CEN.	7,452,151	-	-	7,452,151
285	O&M Total		O&M SERVICE & MAINT. CENTERS	67,128,745	-	-	67,128,745
286	OPS	WAO	WATERTOWN ALTERNATE OPERATIONS CENTER	6,174,391	-	-	6,174,391
287	OPS	WTO	WATERTOWN OPERATIONS CENT	1,785,958	-	-	1,502,920
288	OPS	WTO F	WATERTOWN OPER CTR (BFPS)	11,977,195	-	-	10,711,386
289	OPS Total		OPERATION CENTERS	19,937,544	-	-	18,388,698
290	MOB	MOBW2	MOB 115KV SWITCH TRAILER	69,741	-	-	69,741
291	MOB	MOBT2	MOB TRANSF 115KV 10MVA	218,493	-	-	218,493
292	MOB	MOBT12	MOB TRANSF 115KV 25MVA	814,665	-	-	814,665
293	MOB	MOBT4	MOB TRANSF 115KV 40MVA	526,201	-	-	526,201
294	MOB	MOBT6	MOB TRANSF 230KV 1-33MVA	170,278	-	-	170,278
295	MOB	MOBB2	MOBILE BY PASS KIT (BISMARCK)	35,071	-	-	35,071
296	MOB	MOBB1	MOBILE BY PASS KIT (HURON)	163,695	-	-	163,695
297	MOB	MOBC4	MOBILE CAPACITOR BANK	19,075	-	-	19,075
298	MOB	MOBS6	MOBILE SUB 110KV	127,144	-	-	127,144
299	MOB	MOBS9	MOBILE SUB 115KV 20MVA	404,166	-	-	404,166

300	MOB	MOBS10	MOBILE SUB 115KV/41.8 KV 20MVA	1,474,766	(1,474,766)	0
301	MOB	MOBS7	MOBILE SUB 41.8 KV	192,498	(192,498)	0
302	MOB	MOBS5	MOBILE SUB 69KV	71,118	-	71,118
303	MOB	MOBR2	MOB SH.REACTOR	179,328	-	179,328
304	MOB Total		MOBILE EQUIPMENT	4,466,239	(1,667,264)	2,798,975
305	GEN	BG FT L	BIG BEND-FORT THOMPSON (LOW VOLTAGE)	81,944	-	0
306	GEN	FP	FORT PECK POWERPLANT (COE)	64,611	-	0
307	GEN	FT BG 1	FORT THOMPSON-BIG BEND NO. 1	922,164	-	922,164
308	GEN	FT BG 2	FORT THOMPSON-BIG BEND NO. 2	690,735	-	690,735
309	GEN Total		TRANSMISSION-RELATED GEN. FACILITIES	1,759,454	(146,555)	1,612,899
310	COM	ATC	ATLANTIC COMMUNICATION SITE	58,086	-	39,527
311	COM	BK2	BAKER RELAY	278,673	-	189,637
312	COM	BTY	BANTRY	409,860	-	278,909
313	COM	BAE	BARRETT	99,835	-	67,937
314	COM	BMW	BATTLE MT. MICROWAVE	352,404	-	239,811
315	COM	BPR	BELLE PRAIRIE	257,179	-	175,010
316	COM	BET	BENEDICT	227,040	-	154,501
317	COM	BU	BEULAH	10,679	-	7,267
318	COM	BG	BIG BEND	113,362	-	77,143
319	COM	BJR	BIJOU REPEATER	517,974	-	352,482
320	COM	BAO	BILLINGS AREA OFFICE	175,877	-	119,684
321	COM	BDO	BISMARCK DIS. OFFICE	44,789	-	30,479
322	COM	BSR	BISMARCK REPEATER	426,667	-	290,347
323	COM	BIR	BISON REPEATER	232,618	-	158,296
324	COM	BON	BOLE NORTH REPEATER	149,228	-	101,550
325	COM	BRI	BRINSMADE	279,566	-	190,245
326	COM	BSL	BRISTOL	19,704	-	13,409
327	COM	BRV	BRUNSVILLE REPEATER	92,595	-	63,011
328	COM	BFF	BUFFALO	107,342	-	73,046
329	COM	CAH	CAHOON	280,480	-	190,867
330	COM	CAZ	CARRINGTON REPEATER	703,661	-	478,841
331	COM	CHK	CHARTER OAK REPEATER	37,034	-	25,201
332	COM	CHI F	CHINOOK (BEFP)	284,048	-	193,295
333	COM	CHR	CHINOOK REPEATER	17,797	-	12,111
334	COM	CKR	CLARK MW REPEATER	771,076	-	524,717
335	COM	CLV	CLEVELAND REPEATER, N.D.	66,872	-	45,507
336	COM	CMR	COLEMAN REPEATER	105,281	-	71,644
337	COM	CME	COLOME REPEATER	301,355	-	205,072
338	COM	CBR	CONRAD BUTTE REPEATER	809,166	-	550,638
339	COM	CNN	COTTON	1,399	-	952
340	COM	CSR	CRESTON REPEATER	64,775	-	44,079
341	COM	CLR	CROW LAKE REPEATER	251,029	-	170,825
342	COM	CBT	CROWN BUTTE	52,565	-	35,770
343	COM	CRR	CULBERTSON RADIO RELAY SITE	1,926	-	1,311
344	COM	CQR	CULBERTSON REPEATER	31,102	-	21,165
345	COM	CUL	CUSTER LOOKOUT	208,941	-	142,184
346	COM	DAL	DALTON (WES)	63,660	-	43,321
347	COM	DLC	DEVILS LAKE FIBER REGEN	347,320	-	236,351
348	COM	DLZ	DEVILS LAKE REPEATER	658,544	-	448,139
349	COM	DOD	DODSON REPEATER	874,144	-	594,855
350	COM	DO	DOGDEN BUTTE	399,032	-	271,541

351	COM	DRS	DRISCOLL	79,113	-	(25,277)	53,837
352	COM	DU	DUPREE REPEATER	1,821	-	(582)	1,239
353	COM	DUT	DUTTON REPEATER (BEFP)	147,653	-	(47,175)	100,478
354	COM	ERB	EAST RAINY BUTTE	209,857	-	(67,049)	142,808
355	COM	ECK	ECKELSON	240,324	-	(76,783)	163,540
356	COM	EKR	ELKTON	211,379	-	(67,536)	143,844
357	COM	ELZ	ELLENDALE REPEATER	814,135	-	(260,116)	554,019
358	COM	EWA	ELLSWORTH AIR BASE	219,052	-	(69,987)	149,065
359	COM	ERH	ERHARD	99,569	-	(31,812)	67,757
360	COM	EX	EXIRA REPEATER	2,527	-	(807)	1,720
361	COM	FB	F. L. BLAIR	101,254	-	(32,351)	68,904
362	COM	FAP	FAIRPOINT REPEATER	206,550	-	(65,993)	140,557
363	COM	FNR	FALLON REPEATER	211,743	-	(67,652)	144,091
364	COM	FAC	FARGO MICROWAVE	128,931	-	(41,194)	87,738
365	COM	FCS	FERGUS FALLS COMMUNICATIONS SITE	542,231	-	(173,243)	368,988
366	COM	FLW	FLOWING WELLS	68,763	-	(21,970)	46,793
367	COM	FBS	FORBES COMMUNICATION SITE	70,575	-	(22,549)	48,026
368	COM	FTH	FORSYTH	227,269	-	(72,613)	154,657
369	COM	FP1	FORT PECK RELAY (WES)	97,512	-	(31,155)	66,357
370	COM	FPC	FORT PECK COMMUNICATIONS BUILDING	423,029	-	(135,158)	287,871
371	COM	FPR	FORT PECK REPEATER	105,589	-	(33,736)	71,853
372	COM	FPI	FORT PIERRE POLE YARD	785,698	-	(251,031)	534,668
373	COM	FTR	FORT THOMPSON REPEATER	99,223	-	(31,702)	67,521
374	COM	FTP	FORT THOMPSON REPEATER (EAST RIVER)	301,614	-	(96,366)	205,248
375	COM	FCR	FOX CREEK MICROWAVE	423,094	-	(135,179)	287,915
376	COM	FRY	FRYBURG SUB & MICROWAVE	61,204	-	(19,555)	41,649
377	COM	GA	GARRISON	331,415	-	(105,887)	225,528
378	COM	GAD	GARRISON DAM	26,390	-	(8,432)	17,959
379	COM	GRR	GARY REPEATER	80,799	-	(25,815)	54,983
380	COM	GP	GAVIN'S POINT	148,752	-	(47,526)	101,226
381	COM	GPR	GAVINS POINT REPEATER	325,520	-	(104,004)	221,516
382	COM	GET	GETTYSBURG REPEATER	378,095	-	(120,801)	257,294
383	COM	GH	GLENHAM COMM SITE	391,618	-	(125,122)	266,496
384	COM	GKM	GRAND FORKS MINNKOTA (MPC)	23,847	-	(7,619)	16,228
385	COM	GWN	GWINNER COMMUNICATIONS SITE	736,184	-	(235,211)	500,974
386	COM	HSB	HAILSTONE BUTTE	189,434	-	(60,524)	128,910
387	COM	HOY	HALLOWAY REPEATER	109,706	-	(35,051)	74,655
388	COM	HRT	HARLEM REPEATER	882,588	-	(281,987)	600,601
389	COM	HTH	HATHAWAY	174,404	-	(55,722)	118,682
390	COM	HMW	HERMOSA MICROWAVE	302,701	-	(96,713)	205,988
391	COM	HMR	HIGHMORE REPEATER	157,601	-	(50,354)	107,248
392	COM	HIW	HIGHWOOD	22,896	-	(7,315)	15,581
393	COM	HI	HINSDALE	201,837	-	(64,487)	137,350
394	COM	HIR	HINSDALE REPEATER	85,068	-	(27,179)	57,889
395	COM	HOE	HOPEWELL REPEATER	189,111	-	(60,421)	128,690
396	COM	HNT	HUNTER MICROWAVE	229,259	-	(73,248)	156,011
397	COM	HUD	HURON DISTRICT OFFICE	800,964	-	(255,908)	545,056
398	COM	HYS	HYSHAM	238,655	-	(76,250)	162,405
399	COM	JTR	JAMESTOWN REPEATER	46,981	-	(15,011)	31,971
400	COM	JCK	JONES CREEK	267,395	-	(85,433)	181,962
401	COM	KCK	KELLY CREEK	371,812	-	(118,794)	253,018

402	COM	KDZ	KILLDEER REPEATER	543,500	-	(173,648)	369,852
403	COM	KNE	KNEE HILL MW	896,566	-	(286,453)	610,113
404	COM	LAC	LAC QUI PARLE	759,357	-	(242,615)	516,743
405	COM	LKR	LAKE ANDES REPEATER	735,971	-	(235,143)	500,828
406	COM	LEF	LEFOR	210,945	-	(67,397)	143,548
407	COM	LI	LINDSAY RIDGE	64,370	-	(20,566)	43,804
408	COM	LCS	LINTON COMMUNICATIONS SITE	317,736	-	(101,517)	216,219
409	COM	LMO	LITTLE MISSOURI SUBSTATION	54,516	-	(17,418)	37,098
410	COM	MRP	MALTA REPEATER	794,469	-	(253,833)	540,636
411	COM	MNM	MANDAN MICROWAVE SITE	69,988	-	(22,361)	47,627
412	COM	MPR	MAPLE RIVER	172,792	-	(55,207)	117,585
413	COM	MRR	MARTIN REPEATER	308,682	-	(98,624)	210,058
414	COM	MAV	MAYVILLE	215,450	-	(68,836)	146,613
415	COM	MLR	MIDLAND REPEATER	550,238	-	(175,801)	374,437
416	COM	MOX	MOE REPEATER	15,012	-	(4,796)	10,215
417	COM	MH	MOORHEAD	125,057	-	(39,956)	85,101
418	COM	MSR	MORRIS REPEATER & MICROWAVE	161,994	-	(51,757)	110,237
419	COM	NWC	NEWCASTLE REPEATER	216,330	-	(69,117)	147,213
420	COM	OA	OAHE	669,569	-	(213,927)	455,641
421	COM	OK	O'KREEK REPEATER	395,868	-	(126,480)	269,388
422	COM	OR	ORCHARD REPEATER	587,442	-	(187,688)	399,754
423	COM	OTO	OTO MICROWAVE	16,445	-	(5,254)	11,191
424	COM	OTW	OTTUMWA ROAD REPEATER SITE	7,685	-	(2,455)	5,229
425	COM	PGE	PAGE N.D.	1,646	-	(526)	1,120
426	COM	PAH	PAHOJA SUB	126,805	-	(40,514)	86,291
427	COM	PEK	PEAK	92,751	-	(29,634)	63,117
428	COM	PLJ	PHILIP JCT. REPEATER	421,394	-	(134,635)	286,759
429	COM	PKT	PICKERT MINNKOTA (MPC)	17,849	-	(5,703)	12,147
430	COM	PIR	PINE RIDGE	315,256	-	(100,724)	214,532
431	COM	PO	POPLAR (MDU)	433,502	-	(138,504)	294,998
432	COM	PRR	PRIMGHAR REPEATER	37,178	-	(11,878)	25,299
433	COM	PUR	PUKWANNA REPEATER	4,772	-	(1,525)	3,247
434	COM	RCR	RAPID CITY REPEATER	419,355	-	(133,984)	285,371
435	COM	RE	RICHARDSON COULEE	161,748	-	(51,679)	110,070
436	COM	RER	RICHARDSON COULEE REPEATER	166,315	-	(53,138)	113,177
437	COM	RHM	RICHLAND MW REPEATER (BEPS)	235,573	-	(75,266)	160,307
438	COM	RRR	ROCKY RIDGE REPEATER	201,973	-	(64,530)	137,443
439	COM	ROG	ROLLAG	83,270	-	(26,605)	56,665
440	COM	RGZ	RUGBY REPEATER	822,053	-	(262,646)	559,407
441	COM	RI	RUTLAND	1,122,799	-	(358,734)	764,064
442	COM	RP	ROUNDUP	11,533	-	(3,685)	7,848
443	COM	SAO	SACO	1,237	-	(395)	842
444	COM	SNB	SENTINEL BUTTE	92,148	-	(29,441)	62,707
445	COM	SRE	SHEEP COULEE REPEATER	861,856	-	(275,363)	586,493
446	COM	SCQ	SIOUX CITY REPEATER	443,199	-	(141,602)	301,597
447	COM	SFR	SIOUX FALLS REPEATER	329,860	-	(105,390)	224,469
448	COM	SI	SIOUX PASS	1,366	-	(436)	930
449	COM	SNA	SNAKE BUTTE REPEATER	541,759	-	(173,092)	368,667
450	COM	SPN	SPALDING REPEATER	534,311	-	(170,712)	363,599
451	COM	SM	SPIRIT MOUND	295,982	-	(94,566)	201,416
452	COM	STR	STRASBERG	1,853	-	(592)	1,261

453	COM	SMR	SUMMIT REPEATER	50,053	-	(15,992)	34,061
454	COM	TCS	TAPPEN COMMUNICATION SITE	510,520	-	(163,111)	347,409
455	COM	TA	TAPPEN REPEATER	461,151	-	(147,338)	313,813
456	COM	TEN	TENNANT COMMUNICATIONS SITE	8,782	-	(2,806)	5,976
457	COM	TOR	TORONTO REPEATER	106,096	-	(33,898)	72,198
458	COM	TFR	TRIPP REPEATER	216,887	-	(69,295)	147,592
459	COM	TU	TURKEY RIDGE REPEATER	628,990	-	(200,962)	428,028
460	COM	TYE	TYLER REPEATER	1,168,081	-	(373,202)	794,879
461	COM	VIC	VICTOR (EREC)	228,059	-	(72,865)	155,194
462	COM	VIA	VIDA	102,031	-	(32,599)	69,432
463	COM	WLR	WALL REPEATER	579,363	-	(185,107)	394,257
464	COM	WTR	WATERTOWN REPEATER	729,389	-	(233,040)	496,349
465	COM	WS	WAYSIDE	37,023	-	(11,829)	25,194
466	COM	WSR	WESSINGTON SPGS. REPEATER	703,268	-	(224,694)	478,574
467	COM	WEF	WESTFIELD	25,198	-	(8,051)	17,147
468	COM	WSW	WHITE SWAN	91,987	-	(29,390)	62,597
469	COM	WK	WHITLOCK	21,500	-	(6,869)	14,631
470	COM	WK C	WHITLOCK (BCPS)	117,922	-	(37,676)	80,246
471	COM	WRP	WILLISTON REPEATER	36,499	-	(11,662)	24,838
472	COM	WOB	WOLBACH REPEATER	28,280	-	(9,035)	19,244
473	COM	YT P	YELLOWTAIL SWITCHYARD (BEPS)	318,585	-	(101,788)	216,797
474	COM Total		COMMUNICATION FACILITIES	44,616,415	-	(14,254,945)	30,361,470
475	MCCS	MC4	MILES CITY CONVERTER STATION - BEPS	19,890,752	-	-	19,890,752
476	MCCS	MC4	MILES CITY CONVERTER STATION - BEFP	3,771,807	-	-	3,771,807
477	MCCS Total		MILES CITY CONVERTER STATION	23,662,558	-	-	23,662,558
478	DIST	BFTBP	BUFORD TRENTON TAP - BUFORD TRENTON P.P.	650,001	(650,001)	-	0
479	DIST	BP	BUFORD TRENTON PUMP SUB	184,827	(184,827)	-	0
480	DIST	FN	FALLON PUMPING PLANT SUB	223,594	(223,594)	-	0
481	DIST	FE	FALLON RELIFT PUMPING PLANT	171,257	(171,257)	-	0
482	DIST	FN GG	FALLON-GLENDIVE PUMP #4	25,506	(25,506)	-	0
483	DIST	FP WP	FORT PECK-WOLF POINT	545,880	(391,368)	-	154,512
484	DIST	FG	FRAZER PUMP SUB	253,597	(253,597)	-	0
485	DIST	GA SK	GARRISON-SNAKE CREEK	1,079,092	(1,079,092)	-	0
486	DIST	GG	GLENDIVE P.P. #1 SUB	425,706	(425,706)	-	0
487	DIST	IN	INTAKE SUBSTATION	108,040	(108,040)	-	0
488	DIST	IN INP	INTAKE-INTAKE PUMP	6,494	(6,494)	-	0
489	DIST	SV	SAVAGE PUMPING PLANT SUB	102,283	(102,283)	-	0
490	DIST	SY	SHIRLEY PUMP SUBSTATION	1,237,730	(1,237,730)	-	0
491	DIST	SK	SNAKE CREEK PUMP SUBSTATION	920,941	(920,941)	-	0
492	DIST	TE	TERRY PUMPING PLANT SWITCH	474,404	(474,404)	-	0
493	DIST	TI	TIBER DAM SUBSTATION	681,602	(681,602)	-	(0)
494	DIST	VA	WIOTA SUBSTATION	216,163	(216,163)	-	0
495	DIST Total		DISTRIBUTION FACILITIES	7,307,117	(7,152,605)	-	154,511
496	RMR	NU SG J	NEW UNDERWOOD-STEGALL	287,835	-	-	287,835
497	RMR	SG	STEGALL SUBSTATION	12,414,413	(12,111,804)	-	302,609
498	RMR	SG	STEGALL SUBSTATION	220,814	(220,814)	-	0
499	RMR	SG WS	STEGALL-WAYSIDE	2,978,205	-	-	2,978,205
500	RMR	WS	WAYSIDE	237,296	-	-	237,296
501	RMR	YT PY	YELLOWTAIL SWITCHYARD-YELLOWTAIL (PPL)	121,495	(91,121)	-	30,374
502	RMR	PY	YELLOWTAIL (PPL)	692,335	(519,251)	-	173,084

503	RMR	YT P	YELLOWTAIL SWITCHYARD	13,290,836	(9,968,127)		3,322,709
504	RMR	YT	YELLOWTAIL SWITCHYARD (YT)	33,085	(24,814)		8,271
505	RMR Total		ROCKY MOUNTAIN REGION FACILITIES	30,276,314	(22,935,931)	-	7,340,383
506	COE		BIG BEND	2,370,873	(1,772,523)		598,349
507	COE		FORT PECK	16,421,523	(11,212,794)		5,208,728
508	COE		FORT RANDALL	25,829,317	(6,265,802)		19,563,515
509	COE		GARRISON	55,665,574	(14,103,135)		41,562,439
510	COE		GAVINS POINT	9,392,149	(7,097,567)		2,294,582
511	COE		OAHE	21,797,122	(1,824,651)		19,972,471
512	COE Total		CORPS OF ENGINEERS FACILITIES	131,476,558	(42,276,473)	-	89,200,085
513	Grand Total		TOTAL FACILITIES	1,709,775,362	(120,162,169)	(14,401,500)	(9,976,714)
514			SUBTOTAL WESTERN-UGP ONLY	1,548,022,490	(54,949,765)	14,401,500	9,976,714
515	1/ Plant balance does not include customer liability for network upgrades. Investment is only brought into plant balance as WAPA incurs expense (e.g. if transmission credits are provided to customer)						
516	2/ Plant balance does not include facilities included in Zonal and Regional Worksheet, WS7-BPUFac						
517			DISTRIBUTION FACILITIES		97,226,238		1,561,463,246

WAPA-UGP 2022 Rate True-up Calculation (Rev 1) (Back to Worksheet Links)											
Worksheet 9 - WAPA-UGP Facilities Included per SPP Tariff Attachment AI*											
12 Months Ending 09/30/2022 True-up											
(1)		(2)		(3)		(4)		(5) (6) (7) (8) (9) (10)		(11)	
Attachment AI Criteria											
Line No.	FID	Facility	Specific Plant Included	1	1(b)	2	3	4	5	6	Further Description
Substations											
1	APD	Appeldorn	230-kV breakers 482, 586, 682 and assoc. switches and switch 487	x							
2			station service KW4A, KW30A and switches	x							
3	AR	Armour	115-kV switches 16x, 26x, 76x	x							
4			12.47-kV switches 172x, KW1A	x							maintenance building SS
5			station service KZ1A, KX2A and switches	x							
6			115/69 kV transformer KY1A		x						Three East River members are served through KY1A (Charles Mix, Douglas and Southeastern)
7			69 kV breaker 1052 and assoc switches		x						Two East River members are served through 1052 (Douglas and Southeastern)
8	AHT	Ash Tap	115-kV switches 1161, 1261, 1361	x							
9	AUR	Aurora	115-kV breakers 266, 464, 562, 662 and assoc. switches	x							
10			capacitor PY4A	x							
11			station service KY2A and KW2A	x							
12	BN	Belden (NPPD)	115-kV breaker 1106 and assoc. switches	x							
13	BEF	Belfield	230-kV breakers 1282, 1382, 1582 and assoc. switches	x							
14			345/230-kV transformer KU1A	x							
15			345-kV breakers 292, 396, 492 and assoc. switches	x							
16			station service KW1B and assoc. switches	x							
17			reactor KW2A, 13.8 breaker 3224 and assoc. switches	x							
18	BEF	Beresford	115-kV breakers 262, 362, 462, 566, 764, 864 and assoc. switches	x							
19			capacitors PY7A, PY8A	x							
20			station service KZ1A and switch 1451	x							
21			115/69kV transformer KY1A		x						Two East River members are served through KY1A (Clay-Union and Southeastern)
22			69kV breaker 1652 and assoc. switches		x						Two East River members are served through 1652 (Clay-Union and Southeastern)
23	BB	Bisbee	69-kV switches 247, 347	x							
24	BS	Bismarck	230-kV breakers 182, 282, 382, 482, 582, 682, 782, 882, 986, 9182, 9282 and assoc. switches	x							
25			230/115-kV transformers KV3A, KV8A	x							
26			115-kV breakers 3062, 3162, 3362, 3562 and assoc. switches	x							
27			station service KW4A, KW4E, KW4F and assoc. switches	x							
28			12.47-kV breaker 1422, switches 142x, 152x, 1221, 1829	x							maintenance buildings ss
29	BOL	Bole	230-kV switches 182, 282, 481, 482	x							
30			station service KW21A, switch 2123	x							
31			230/69-kV transformer KV1A	x							
32			69-kV switches 1351, 1355	x							
33			69-kV breaker 1152 and assoc. switches		x						Sun River Electric Cooperative and NorthWestern MT
34	BO	Bonesteel	115-kV breakers 664, 764 and assoc. switches	x							
35			capacitors PY6A, PY7A	x							
36			115-kV switches 46x, 26x	x							
37			station service KW1A, switch 1521	x							
38	BR	Brookings	115-kV breakers 952, 1162, 1266, 1462, 1466, 1562, 1662, 1666, 1762, 1766 and	x							
39			capacitors PY21A and PY20A, breakers 2164, 2064	x							
40			station service KW1A, KW21A and assoc. switches	x							
41			115/69kV transformer KY1A		x						One East River member and two municipal customers served through KY1A (Sioux Valley Energy, City of White, and City of Volga)
42			69 kV breaker 1052 and assoc. switches		x						One East River member and two municipal customers served through 1052 (Sioux Valley Energy, City of White, and City of Volga)
43	CBC	Campbell County	230-kV breakers 182, 282, 382 and assoc. switches	x							
44	CD	Cando Tap	69-kV switches 1751, 1753	x							
45	CF	Canyon Ferry	100-kV breakers 162, 262, 266, 362, 366 and assoc. switches	x							
46	CRP	Carpenter	230-kV breakers 182, 382, 486 and assoc. switches	x	x						Two East River members (Coddington Clark and Kingsbury)
47			station service KW1A, KW3A and assoc. switches	x							
48	CA	Carrington	115-kV breakers 262, 362 and assoc. switches, switch 161	x							
49			capacitor PX3A	x							
50			station service KW9A and assoc. switches	x							
51	CCR	Charlie Creek	345-kV breakers 4096, 4192 and assoc switches	x							
52	CR	Circle	115-kV breakers 1462, 1562, 1666, 1764, 1864 and assoc. switches	x							
53			capacitors PY17A, PY18A	x							
54			reactor KY17A	x							
55			station service KX9A, switches 94x	x							
56	CON	Conrad	230-kV breakers 182, 382, 482 and assoc. switches	x							
57			230/115-kV transformer KV1A	x							
58			reactor KW31A, breaker 3124, switch 3123	x							
59			115-kV breaker 1162, 1362, 1452, and assoc. switches / switches 1263, 1265	x							
60			station service KW30A, switch 3023	x							
61	CS	Creston	161 kV breakers 162, 262, 362, 466, 562, 662, 762, 964, 8161, 8262 and assoc. switches	x							
62			161/69-kV transformer KY3A	x							
63			capacitors PZ21A and PY9A	x							
64			69-kV breakers 2252, 2352, 2456 and assoc. switches	x							
65			station service KW3A, KW6A, Breakers 323, 623 and assoc. switches	x							
66	CRO	Crossover	230-kV breakers 582, 586, 786, 882 and assoc. switches			x					to NWMT
67			230-kV switches 981, 983, 985, 987, 989, 990	x							
68			phase shifter KV8A	x							
69	CQE	Culbertson East	115-kV switches 16x, 26x, 36x	x	x						two customers (Oreg Generation and Basin Generation)
70	CU	Custer	230-kV breakers 182, 382, 482 and assoc. switches	x							
71			station service KW2A and assoc. switches	x							
72			reactor KW1B and assoc. switches	x							
73			230/69/12.47-kV transformer KV1A	x							
74			reactor KZ2A, 69-kV breaker 2152 and assoc. switches	x							
75	DC	Dawson County	115-kV breakers 162, 262, 362, 462, 662, 762, 862 and assoc. switches	x							
76			230-kV breakers 2282, 2382, 2482, 2582, 2682 and assoc switches	x							
77			230/115-kV transformer KU5A	x							
78			capacitors PY7A, PY8A	x							
79			reactor KY8A	x							
80			station service KZ2B, KW2B and assoc. switches	x							
81			reactors KZ1A, KZ2A, KZ3A, breakers 3122, 3222, 3322 and assoc. switches	x							
82	DN	Denison	161-kV breakers 1362, 1566, 1662 and assoc. switches / switches 1461, 1465	x							
83			230-kV breakers 186, 282, 382, 386 and assoc. switches	x							
84			230/161-kV transformer KV1A	x							
85			reactor KW30A and assoc. switches	x							
86			230/69-kV transformers KV2A and KV3A	x							
87			69-kV breakers 2156, 2254, 2352, 2452, 2552, 2652, 2754, 2952, 5152 and assoc. switches	x							
88			capacitors PZ27A, PZ22A	x							
89			reactors KZ27A, KZ22A	x							
90			station service KW30B, KW20C and assoc. switches	x							

[illegible]

[illegible]

284		69kV breaker 1252 and assoc breakers		x						One East River member and two irrigation districts served through KY2A and 1252 (Oahe, Grey Goose Irrigation and Crow Creek Irrigation)
285		Station Service KW1D, KW1E, KW1F and assoc switches		x						
286	RC	Rapid City	115-kV breakers 162, 262, 362, 462, 562, 664, 766, 862, 2164 and assoc switches	x						
287			reactors KY10A, KY21A	x						
288			capacitors PY6A, PY21A	x						
289			station service KW20A, KW43A KW42A, switches 202x, 422x, 432x, 431x	x						
290	RCO	Roberts County	115-kV breakers 2162, 2262, 2362 and assoc. switches	x						
291			69-kV breakers 5152, 5252, 5456, 5652 and assoc. switches	x						
292			station service KY21A	x						
293	RL	Rolla	115-kV breaker 1162 and assoc switches	x						
294	RY	Rudyard	115-kV switches 260, 261, 160, 161	x						
295			station service KW1A, switches 521, 523	x						
296	RG	Rugby	115-kV breakers 1262, 1362, 1462, 1566, 1662, 1762, 1864, 1966 and assoc switches	x						
297			capacitor PY8A	x						
298			reactor KY2A	x						
299			Station Service KX2A, KW1A and assoc. switches and equipment	x						
300	SH2	Shelby 2	115-kV breakers 1062, 1362, 1462 and assoc. switches, switches 1263, 1265	x						
301			230/115-kV transformer KV3A	x						
302			reactor KW3A, breaker 3124 and assoc switches	x						
303			station service KW2A and assoc. switches	x						
304			230-kV breakers 482, switches 481, 383, 281, 183	x						
305	SC	Sioux City	230-kV breakers 182, 282, 382, 482, 582, 682, 9182 and assoc switches, switch 7283	x						
306			230/161-kV transformers KV1A and KV5A	x						
307			161-kV breakers 1062, 1162, 1262, 1362, 1562, 1662, 8162	x						
308			reactors KW53A, KW54A, breakers 5324, 5424 and assoc switches	x						
309			station service KW1B, KW1C, switches 502x, 512x, 522x	x						
310			69-kV breakers 2156, 2352, 2852, 2952, 3052, 3152 and assoc switches	x	x					to NIPCO (looped) and MEC
311	SC2	Sioux City 2	345-kV breakers 8498, 8592, 8692, 8696 and assoc switches	x						
312			reactor KU6A	x						
313			345/230-kV transformers KU1A, KU1B, switches 8091, 8081, 8291, 8281	x						
314			230-kV breakers 7382, 7482 and assoc switches	x						
315			reactors KW10A, KW10B, breakers 5522, 5622 and assoc switches	x						
316			station service K1, K2 and assoc switches	x						
317	SF	Sioux Falls	230-kV breakers 2182, 2282, 2382, 2482, 2582, 2682, 2782, 9182 and assoc switches	x						
318			230/115-kV transformers KV3A, KV5A	x						
319			reactors KW31A, KW51A	x						
320			breakers 3124, 5124 and assoc switches	x						
321			station service KW33A, KW53A, KZ1A, switches 33xx, 53xx, 1851	x						
322			115-kV breakers 162, 262, 362, 462, 562, 662, 762, 966, 7162 and assoc switches	x						
323	SP	Spencer	161-kV breakers 162,462,562, 662 and assoc switches	x						
324			Reactor PY6A	x						
325			161/69-kV transformer KY1A	x						
326			69-kV breakers 1142, 1242, 1342, 1442, 1542 and assoc switches	x	x					to NIPCO and Wisdom Sub
327			station service KW10A and assoc switches	x						
328	SG	Stegall	230 kV main and transfer bus, breaker 382 and assoc switches	x						
329			Reactor KV3A, breaker 384 and assoc. switches	x						
330	SUH	Sulphur	115-kV breakers 162, 362, 462, and assoc switches	x						
331			station service KY31A1 and switch 3161	x						
332	SU	Summit	115-kV breakers 262, 362, 462, 562, 762, and assoc switches , switch 163	x						
333			station service KZ1A, switch 1351	x						
334			115/69 kV transformer KY1A	x						Four East River members served through KY1A (Whetstone, Lake Region, Traverse, and Codington-Clark)
335			69 kV breaker 1152 and assoc. switches	x						Three East River members served through 1152 (Whetstone, Lake Region, and Traverse)
336	TI	Tiber	115-kV switches 1260, 1261	x						2 customers (generator and Marias)
337	TN	Towner	115-kV breakers 2166, 2262, 2362, 2366 and assoc switches	x						
338			station service KY1A1	x						
339	TY	Tyndall	115-kV switches 16x, 26x, 361	x						
340			Station Service KZ1A and switches 351 and 751	x						
341	UJ	Utica Junction	230-kV breakers 282, 286, 382, 482, 486, 582, 682, 686 and assoc switches	x						
342			230/115-kV transformer KV3A	x						
343			115-kV breakers 1266, 1362, 1562, 1762 and assoc switches	x						
344			station service KW3A and assoc switches	x						
345	VC	Valley City	115-kV 162, 262, 362, 462, 562 and assoc switches	x						
346			115/69-kV transformer KY1A	x	x	x				2 customers (Minnkota Power and City of Valley City)
347			station service KW2A and switch 321	x						
348	VFO	Virgil Fodness	230-kV breakers 382, 386, 482, 486 and assoc switches	x						
349			230-kV switches 185 and 283	x						
350	VH	VT Hanlon	230-kV breakers 382, 482, 582, 682, 686 and assoc switches	x						
351			Reactor KW70A and breaker 7024	x						
352			69-kV breaker 5053 and assoc switch	x						
353			station service KW60A, KW24A, breaker 7423 and assoc switches	x						
354	WL	Wall	115-kV switches 16x, 26x, 36x, 461	x						
355			station service KW1B, switch 821	x						
356		Wanblee Tap	115-kV interrupters 162 and 262 and assoc. switches	x						Zero costs, customer funded
357	WDD	Ward	230-kV breakers 182, 282, 286 and assoc switches	x						
358			new 230-kV breaker in ring bus	x						Zero costs, customer funded
359	WB	Washburn	230-kV switches 18x, 28x	x						
360			station service KX3A, KW9A and assoc switches	x						
361	WT	Watertown	230-kV breakers 182, 282, 382, 482, 582, 682, 882, 984, 1082, 1182, 9182 and assoc switches	x						
362			reactor KV9A	x						
363			capacitor PV9A	x						
364			230/115-kV transformers KV2A, KV8A	x						
365			115-kV breakers 862, 1162, 1262, 1362, 1562, 1762, 1862, 1962, 8162 and assoc switches	x	x					1762 - two customers MRES and NorthWestern Energy
366			station service KY3A, KHA, KHB, K1, K2 and assoc switches	x						
367			reactor KW1A, breaker 3122 and assoc switches	x						
368			13.2-kV switches 372x, 362x, 82x	x						
369			115/69 kV transformer KY3A	x						Two East River members are served through KY3A (Codington-Clark and H-D)
370			69 kV breaker 2752 and assoc switches	x						Two East River members served through 2752 (Codington-Clark and H-D)
371	WT2	Watertown 2	345-kV breakers 7296, 7292, 7398 and assoc switches	x						
372			reactor KU3A	x						
373	WTS	Watertown Static Var	All Facilities and Equipment	x						
374	WC	Watford City	230-kV breakers 682, 782, 882, 982 and assoc switches	x						
375			230-kV switches 282, 283, 182, 183	x						
376			station service KW1B, switches 121, 123	x						
377			reactor KY16A, switches 166x	x						
378			capacitor PY16A	x						
379			115-kV breakers 1262, 1362 and assoc switches	x						

[illegible]

[illegible]

[illegible]

[illegible]

(1)		(2)		(3)	(4)
Line No.	FID	Facility	Specific Plant NOT Included	Further Description	
1		Substations			
2					
3	AR	Armour	34.5-kV breaker 542 and assoc. switches	NWPS	
4			115/34.5-kV transformer KY2A		
5			115-kV interrupter 462 and assoc. switches		
6	AUR	Aurora	115-kV breaker 162, 362 and assoc. switches		
7	BEF	Belfield	230-kV breaker 1482 and assoc. switches		
8	BE	Beresford	69-kV breaker 1552 and assoc. switches	East River	
9			12.47-kV switch 821, 823, 829	City of Beresford	
10	BG	Big Bend	230-kV interrupters 1081, 2081, 2081, 4081 and assoc. switches		
11	BB	Bisbee	69/12.5-kV transformer K21A and switch 145		
12			12.5-kV breaker 124 and assoc. switches	CPEC	
13	BS	Bismarck	115-kV breaker 3462 and assoc. switches	Capitol Electric	
14			12.5-kV switches 1527, 1529	USBR	
15	BOL	Bole	69-kV breaker 1452 and 1252 and assoc. switches	NWMT	
16	BO	Bonesteel	115-kV breaker 362 and assoc. switches		
17			115/12.47-kV transformer KY1A		
18			12.47-kV breaker 1422 and assoc. switches	Rosebud Electric	
19	BFT	Buford Trenton Tap	All Not Included		
20	BP	Buford Trenton Pumping	All Not Included		
21	CA	Carrington	115-kV interrupter 162	protection for non-included transformer (transformer not owned by Western)	
22			41.8-kV breakers 142, 242, 342, 442, 542, 642, 842 and assoc. switches	Otter Tail and CPE	
23	CR	Circle	115-kV breaker 1162 and assoc. switches	Keystone	
24			115-kV breaker 1262, 1362 and assoc. switches	McCone	
25			115/34.5-kV transformer KY12A		
26			34.5-kV breaker 142 and assoc. switches	McCone	
27	CON	Conrad	115-kV breaker 1062 and assoc. switches	Sun River	
28	CU	Custer	69-kV breakers 2252, 2352 and assoc. switches	Yellowstone Valley and Mid-Yellowstone	
29	CT	Custer Trail	All Not Included		
30	DC	Dawson County	115-kV switch 1061	protection for non-included transformer (transformer not owned by Western)	
31	DNT	Denbigh Tap	Switches 1460, 1461		
32	DV	Devaul	All Not Included		
33	DL	Devils Lake	41.8-kV breaker 342 and assoc. switches	Otter Tail normally open-emergency tie	
34			12.5-kV breaker 1122 and assoc. switches	Minnkota	
35	EB	Eagle Butte	115/69-kV transformer KY1A and 115-kV interrupter 762		
36			69-kV breaker 1752 and assoc. switches	Moreau Grand	
37	ED	Edgeley	115/41.8-kV transformer KY2A		
38			115-kV breaker 362		
39			41.8-kV breaker 2342 and assoc. switches	Otter Tail	
40			69-kV breaker 1252 and assoc. switches		
41	ELC	Elk Creek	115-kV ground switch 1160		
42	ELI	Elliot	115-kV interrupter 2063 and assoc. switches, 115-kV switch 369		
43	END	Endlerin Tap	Interrupter 1862 and assoc. switches		
44	EXI	Exira	Switches 169, 369, 569	Generator Lead	
45	FH	Faith	115/12.47-kV tranformer KY1A and 115-kV interrupter 362		
46			12.47-kV breaker 1022 and assoc. switches	City of Faith	
47	FN	Fallon Pumping	All Not Included		
48	FE	Fallon Relift	All Not Included		
49	FL	Flandreau	12.47-kV switches 3121, 3122, 3123, 3129, 3223	City of Flandreau	
50	FO	Forman	69-kV breaker 452 and assoc. switches		
51			69/41.8-kV transformer K23A and 69-kV switches 353, 355		
52			115-kV breaker 1662 and assoc. switches		
53			41.8-kV breaker 2142 and assoc. switches	Otter Tail	
54			41.8/12.5-kV transformer KX6A and switch 1443		
55			12.5-kV breaker 2222 and assoc. switches	Dakota Valley	
56	FR	Fort Randall	115-kV breaker 962 and assoc. switches		
57	FT	Fort Thompson	69-kV breaker 4452 and assoc. switches	West Central	
58	FG	Frazer Pumping	All Not Included		
59	GA	Garrison	115-kV breakers 462, 562 and assoc. switches	generator leads	
60	GP	Gavins Point	115-kV breakers 162, 262, 362 and assoc. switches	generator leads	
61	GGT	Glendive Pumping No. 1 Tap	All Not Included		
62	GG	Glendive Pumping No. 1	All Not Included		
63	GF	Granite Falls	69-kV breakers 4352, 4452, 4552, 4652 and assoc. switches	GRE normally open and Minn. Valley	
64			115/69-kV transformer KY2A		
65			115-kV breakers 2862, 3262 and assoc. switches		
66	GY	Gregory	115-kV Disconnect Switch 463	protection for non-included transformer (transformer not owned by Western)	
67			12.47-kV breaker 422 and assoc. switches		
68	GR	Groton	69-kV breaker 1552 and assoc. switches	East River	
69	HV	Havre	12.5-kV breaker 822 and assoc. switches	Hill County	
70	HBN	Hebron	230-kV switches 989 and 589		
71	HLK	Hilken	take-off structure to Baldwin Wind	generator lead	
72	HU	Huron	115-kV switches 1261, 1265		
73			115/69-kV transformer KY1A		
74			69-kV breakers 1952, 2052 and assoc. switches	East River	
75	IN	Intake	All Not Included		
76	INP	Intake Pumping	All Not Included		
77	JT	Jamestown	115/41.8-kV transformers KY1A and KY2A		
78			115-kV breaker 662 and assoc. switches		
79			41.8-kV breaker 1142 and assoc. switches	Otter Tail, Normally Open - emergency tie	
80			12.47-kV breaker 1522, 1722 and assoc. switches		
81	KD	Killdeer	115/41.8-kV transformer KY4A and switch 469		
82			41.8-kV breaker 442, 642 and switches 343, 345	MDU and Upper Mo.	
83	LA	Lakota	12.5-kV breaker 1022 and assoc. switches	City of Lakota	
84			69-kV breaker 152 and assoc. switches		
85			115/69-kV transformer KY1A, switches 362, 363		
86	LE	Leeds	69/12.5-kV transformer K23A and switch 645		
87			12.5-kV breaker 624 and assoc. switches	CPEC	
88	MR	Martin	115/34.5-kV transformer KY1A and breaker 1962 and assoc. switches		
89			34.5-kV breaker 1242 and assoc. switches	LaCreek	
90	MA	Maurine	115/69-kV transformer KY1A and breaker 1262 and assoc. switches		
91			115-kV breaker 1762		
92			69-kV breaker 2252 and assoc. switches	Grand Electric	
93	MD	Midland	Capacity Rights in 115/69 kV Transformer KY1A		
94	MS	Mission	115/24.9-kV transformer KY1A and interrupter 362	Cherry-Todd	
95	MO	Morris	41.8-kV breakers 3132, 3232, 3332 and assoc. switches		
96			115/41.8-kV transformer KY3A		
97			115-kV breaker 1362 and assoc. switches		
98	MV	Mount Vernon	69-kV breaker 1852 and assoc. switches	East River	
99	NAT	Nashua Tap	All Not Included		
100	NEL	Nelson Tap	Switch 1861		
101	NL	Newell	69-kV breakers 2252, 2452 and assoc. switches	Rushmore	
102	NU	New Underwood	13.8 kV interrupter 4423 and assoc. switch		
103	OA	Oahe	230-kV breakers 2882, 2482, 2486, 2082, 1162 and assoc. switches	generator lead	

104			115-kV breaker 1162 and assoc. switches	generator lead
105	OF	O'Fallon Creek	12.47-kV breaker 522 and assoc. switches and equipment	MDU
106	PET	Penn Tap	Switches 1860, 1861	
107	PL	Philip	115/69-kV transformer KY1A and switches 1963	
108			69-kV breaker 2152 and assoc. switches	West Central
109	PI	Pierre	115/12.47-kV transformer KY1A and 115-kV interrupter 762	
110			12.47-kV breakers 2212, 2312, 2412 and assoc. switches	City of Pierre
111	PLL	Pleasant Lake Tap	Switched 760, 761	
112	RC	Rapid City	115/12.47-kV transformer KY1A	
113	RH	Richland	All Not Included	
114	RY	Rudyard	115/69/12.5-kV transformer KY1A and interrupter 362	
115			69-kV breaker 752 and assoc. switches	Hill County
116			12.5-kV breaker 422 and assoc. switches	Hill County
117	RG	Rugby	115/41.8-kV transformer KY1A and breaker 1162 and assoc. switches	
118			41.8-kV breaker 2142 and assoc. switches	Otter Tail
119	SV	Savage Pumping	All Not Included	
120	SH2	Shelby	All Not Included	
121	SH2	Shelby 2	115-kV breaker 1162 and assoc. switches	to Shelby
122	SY	Shirley Pumping	All Not Included	
123	SF	Sioux Falls	115-kV breaker 862 and assoc. switches	East River
124			69-kV breaker 1552 and assoc. switches	East River
125	SP	Spencer	69-kV breaker 1642 and assoc. switches	City of Spencer
126	SU	Summit	41.8-kV breakers 2142, 2242 and assoc. switches	
127			115/41.8-kV transformer KY1B	
128			115-kV interrupter 862 and switch 861	
129	TE	Terry Pumping	All Not Included	
130	TR	Terry Tap	115/34.5-kV transformer KY1A and switch 363	
131			34.5-kV breaker 342 and assoc. switches	Buffalo Rapids and MDU
132	TI	Tiber	115/12.5-kV transformer KY1A and breaker 1262	
133			12.5-kV breaker 122 and assoc. switches	USBR
134	TY	Tyndall	69-kV breaker 452 and assoc. switches	East River
135			115-kV interrupter 362	protection for non-included transformer (transformer not owned by Western)
136	VC	Valley City	69-kV breakers 344, 1144 and assoc. switches	City of Valley City
137	WL	Wall	115/12.47-kV transformer KY1B and interrupters 461 and 562	
138			12.47-kV breaker 622 and assoc. switches	West River
139	WDD	Ward	230-kV switch 889	
140	WB	Washburn	230/41.8-kV transformer KU1A and breaker 282	
141			41.8-kV breaker 342 and assoc. switches	Otter Tail - emergency tie
142	WC	Watford City	115-kV interrupter 162	protection for non-included transformer (transformer not owned by Western)
143	WSG	Wessington Springs	230-kV switch 989	generator outlet
144	WH	Whately	69/12.5-kV transformer KYA and switches 253, 257	
145			12.5-kV breaker 224 and assoc. switches	Norval
146	WV	Wicksville	115-kV interrupter 362	protection for non-included transformer (transformer not owned by Western)
147			24.9-kV breaker 1032 and assoc. switches	West River
148	WN	Williston	60-kV breaker 3552 and assoc. switches	MDU non-credited line
149	WN2	Williston 2	115-kV breaker 2562 and assoc. switches	
150	WI	Winner	12.47-kV breakers 2222, 2422, 2523 and assoc. switches	City of Winner and Rosebud Electric
151	VAT	Wiota	All Not Included	
152	VAT	Wiota Tap	All Not Included	
153	WP	Wolf Point	115/34.5-kV transformer KY1A and switches 1963, 1965	
154			34.5-kV breakers 2142, 2242, 2342, 2442 and assoc. switches	MDU and Norval
155			12.5-kV breakers 3222, 3322, 3422 and assoc. switches	Norval and McCone
156	WO	Woonsocket	34.5-kV breakers 442 and 542 and assoc. switches	NWPS and City of Wessington Springs
157			115/69-kV transformer KY1B and 115-kV breaker 862	
158			Mobile Transformer 115/34.5-kV	
159			115-kV interrupters 362 and 862 and assoc. switches, switch M263, M261	
160	Transmission Lines			
161		SHELBY-SHELBY2	115-kV	
162	Corps Switchyard Facilities			
163		Big Bend	230-kV interrupters 1081, 2081, 3081, 4081 and assoc switches	
164		Fort Peck	230-kV interrupters 481, 581 and assoc switches	
165			115-kV switches 861, 961	
166		Fort Randall	115-kV switch 960	
167			230-kV switches 1180, 1280, 1380	
168		Garrison	230-kV breakers 182, 282, 382 and assoc switches	
169			115-kV breakers 462, 561, 1762 and assoc switches	
170			13.8-kV breaker 2722 and assoc switches	
171		Gavins Point	115-kV breakers 162, 262, 362 and assoc. switches	
172		Oahe	115-kV breaker 1162 and assoc. switches	
173			230-kV breakers 2082, 2882 and assoc. switches	

* Based upon Attachment AI of SPP's Tariff and consistent with criteria set forth in the "Zone 19 (Upper Missouri Zone) - Attachment AI Guidance Document", dated 06/14/2016, as prepared by the Attachment AI Working Group in FERC docket ER15-1775-000.

WAPA-UGP 2022 Rate True-up Calculation (Rev 1) Worksheet 11 - Facility Changes 12 Months Ending 09/30/2022 True-up		(Back to Worksheet Links)
	(1)	(2)
Line No.	Facility	Description
1	Miles City 2	115 kV Line Bay for MDU (customer funded) and Cap Bank Addition (20% customer funded)
2	Watertown	Ownership transfer from Basin to WAPA of PCB 1082 and assoc. switches. Facilities already qualified for SPP Inclusion.
3	WDD-BEF (Ward Delivery - Belfield)	This appears as a new line segment, but is part of the established Bismarck-Medora line segment.
4	Antelope Valley	Costs for fiber in already established Basin Electric owned Substation.
5	Brookings	Customer Funded. New 69-kV Breaker 952 and assoc. switches.
6	Devils Lake	Rebuilt Substation. Addition of two 115-kV breakers/switches and 115-kV cap bank and removal of 41.8-kV cap bank.
7	Flandreau	Customer Funded. New 69-kV Breaker 2252 and assoc. switches.
8	White	Neutral Blocking Device funded by DOE
9	Bismarck District Office	Added communications
10	Lewis - Richland 115 kV Ckt 1, 72052	Reconductor 0.1 miles of 115-kV Transmission Line to increase rating due to 2018 ITP. NTC ID 210497. This project will be regionally shared.
11	Huron	Take over ownership of 230-kV Breaker 682 and assoc. switches. Was already in the Zone

(1)		(2)	(3)
Line No.	DESCRIPTION	SSCD	REFERENCE
1	A. Operation and Maintenance Expense (\$)	\$12,120,489	WS4-CostData (O&M Expenses Worksheet)
2	B. A&G Expense (\$)	\$280,214	WS4-CostData (A&G Expenses Worksheet)
3	C. Depreciation Expense (\$)	\$366,220	WS4-CostData (Depreciation Expense Worksheet)
4	D. Taxes Other than Income Taxes for Transmission (\$)	\$0	Not Applicable
5	E. Allocation of General Plant	\$0	No General Plant identified at this time, all plant is identified as either generation or transmission related
6	F. Cost of Capital		
7	Weighted Transmission Composite Interest Rate	3.95%	WS4-CostData (C6 L61)
8	Net Plant Investment	\$8,454,409	WS4-CostData (C2 L21)
9	Cost of Capital	\$333,918	L7*L8
10	H. Revenue Requirement		
11	Annual Western-UGPR Cost	\$13,100,841	L1+L2+L3+L9
12	SSCD Revenue from non-Transmission Facilities	\$815,738	L11*L15
13	Revenue Requirement for SSCD for Transmission Facilities	\$12,285,103	L11-L12
14			
15	Ratio for Line 12	6.23%	WS8-TranFac (L511 C5/C8)

WAPA-UGP 2022 Rate True-up Calculation (FID)		(Back to Worksheet Links)						
Worksheet 13 - SSCD Facilities								
12 Months Ending 09/30/2022 True-up								
		(1)	(2)	(3)	(4)	(5)	(6)	(7)
		2022 SPP TRUE UP SUMMARY:		PRIOR YEAR FACILITY TOTALS (\$)		ATTACHMENT AI ADJUSTMENTS (\$)	GENERATION ADJUSTMENTS (\$)	FY2022 ACT SPP TOTALS (\$)
Line No.	FID	DESCRIPTION	DATA SOURCE:					
1	WAO	WATERTOWN ALTERNATE OPERATIONS CENTER	2021 ROOS BALANCE	6,174,392		0	0	6,174,392
2	WTO	WATERTOWN OPERATIONS CENTER	2021 ROOS BALANCE	1,785,958		0	(283,038)	1,502,920
3	WTO F	WATERTOWN OPERATIONS CENTER (BFPS)	2021 ROOS BALANCE	11,977,195		0	(1,265,809)	10,711,386
4				19,937,544	-	0	(1,548,847)	18,388,698
		2022 SPP DETAIL:						
	FID	DESCRIPTION	ADDITIONAL:	FID COST DETAIL (\$)	SSCD %	SSCD TOTAL (\$)	TRANS %	TRANS TOTAL (\$)
5		IDC	IDC	299	100%	299	100%	299
6	WAO	LAND & RIGHTS	LAND & LAND RIGHTS	9,790	100%	9,790	100%	9,790
7	WAO	LAND AT KCR	LAND & LAND RIGHTS	1,539	100%	1,539	100%	1,539
8	WAO	MICROWAVE TOWER	ANTENNA TOWER	295,486	100%	295,486	100%	295,486
9	WAO	INTEREST DURING CONSTRUCTION	IDC	57,816	100%	57,816	100%	57,816
10	WAO	INTEREST DURING CONSTRUCTION	PLANT NOT CLASSIFIED	5,246	100%	5,246	100%	5,246
11	WAO	ANTENNA	PLANT NOT CLASSIFIED	17,480	100%	17,480	100%	17,480
12	WAO	MICROWAVE SYSTEM	MICROWAVE SYSTEM	122,582	100%	122,582	100%	122,582
13	WAO	MICROWAVE SYSTEM	MICROWAVE SYSTEM	12,407	100%	12,407	100%	12,407
14	WAO	SCADA COMMUNICATION EQUIPMENT	SEQUENTIAL EVENT RECORDING SYST	20,217	100%	20,217	100%	20,217
15	WAO	INTEREST DURING CONSTRUCTION	IDC	2,475	100%	2,475	100%	2,475
16	WAO	PLANT COMM SYSTEM	PLANT COMM SYSTEM	43,699	100%	43,699	100%	43,699
17	WAO	LAND & RIGHTS	LAND & LAND RIGHTS	54,138	100%	54,138	100%	54,138
18	WAO	SERVICE BUILDINGS	SERVICE BUILDINGS	531,049	100%	531,049	100%	531,049
19	WAO	BUILDINGS	ROOFING	90,309	100%	90,309	100%	90,309
20	WAO	OTHER STRUCTURES AND IMPROVEMENTS	OIL STORAGE TANK	54,257	100%	54,257	100%	54,257
21	WAO	OTHER STRUCTURES AND IMPROVEMENTS	HEATING	475,746	100%	475,746	100%	475,746
22	WAO	STATION EQUIPMENT	AUXILIARY POWER SYSTEM	95,962	100%	95,962	100%	95,962
23	WAO	SCADA COMMUNICATION EQUIPMENT	REMOTE TERMINAL UNIT	12,679	100%	12,679	100%	12,679
24	WAO	SCADA COMMUNICATION EQUIPMENT	SCADA	1,022,154	100%	1,022,154	100%	1,022,154
25	WAO	SCADA COMMUNICATION EQUIPMENT	UNITERRUPTABLE POWER SUPPLY	122,476	100%	122,476	100%	122,476
26	WAO	MICROWAVE COMMUNICATION EQUIPMENT	MICROWAVE SYSTEM	733,679	100%	733,679	100%	733,679
27	WAO	MICROWAVE COMMUNICATION EQUIPMENT	BATTERY	35,292	100%	35,292	100%	35,292
28	WAO	MICROWAVE COMMUNICATION EQUIPMENT	BATTERY CHARGER	13,959	100%	13,959	100%	13,959
29	WAO	MICROWAVE COMMUNICATION EQUIPMENT		73,162	100%	73,162	100%	73,162
30	WAO	INTEREST DURING CONSTRUCTION	IDC	924	100%	924	100%	924
31	WAO	TELEPHONE COMMUNICATION EQUIPMENT	PLANT COMM SYSTEM	53,112	100%	53,112	100%	53,112
32	WAO	FIBER OPTIC EQUIPMENT	FIBER OPTICS EQUIPMENT	184,307	100%	184,307	100%	184,307
33	WAO	SCADA COMMUNICATION EQUIPMENT	SCADA	23,258	100%	23,258	100%	23,258
34	WAO	INTEREST DURING CONSTRUCTION	IDC	294	100%	294	100%	294
35	WAO	FIBER OPTIC EQUIPMENT	CABLE TYPE OPGW	28,885	100%	28,885	100%	28,885
36	WAO	FIBER OPTIC EQUIPMENT	CHANNEL BANK EQUIPMENT	41,066	100%	41,066	100%	41,066
37	WAO	FIBER OPTIC EQUIPMENT	FIBER OPTICS EQUIPMENT	93,750	100%	93,750	100%	93,750
38	WAO	INTEREST DURING CONSTRUCTION	IDC	2,600	100%	2,600	100%	2,600
39	WAO	BUILDINGS	SERVICE BUILDINGS	1,320,913	100%	1,320,913	100%	1,320,913
40	WAO	INTEREST DURING CONSTRUCTION	IDC	445,915	100%	445,915	100%	445,915
41	WAO	PLANT COMM SYSTEM	PLANT COMM SYSTEM	40,642	100%	40,642	100%	40,642
42	WAO	INTEREST DURING CONSTRUCTION	IDC	577	100%	577	100%	577
43	WAO	SCADA COMMUNICATION EQUIPMENT	SCADA	33,157	100%	33,157	100%	33,157
44	WAO	INTEREST DURING CONSTRUCTION	IDC	1,093	100%	1,093	100%	1,093
45		TOTAL		6,174,392		6,174,392		6,174,392
46	WTO	AIR CONDITIONER	AIR CONDITIONER	146,013	66.7%	97,391	80.8%	117,979
47	WTO	INTEREST DURING CONSTRUCTION	IDC	10,941	66.7%	7,298	80.8%	8,841
48	WTO	ROOFING	ROOFING	676,147	66.7%	450,990	80.8%	546,327
49	WTO	GATE	GATE	67,521	66.7%	45,036	80.8%	54,557
50	WTO	FENCES	FENCES	573,532	66.7%	382,546	80.8%	463,414
51		TOTAL		1,474,154		983,261		1,191,117
52	WTO	FIBER OPTICS EQUIPMENT	PLANT COMM SYSTEM	54,317	100%	54,317	100%	54,317
53	WTO	INTEREST DURING CONSTRUCTION	IDC	20,639	100%	20,639	100%	20,639
54	WTO	FIBER OPTICS EQUIPMENT	PLANT COMM SYSTEM	141,934	100%	141,934	100%	141,934
55								

56	WTO	INTEREST DURING CONSTRUCTION	IDC	3,902	100%	3,902	100%	3,902
57	WTO	SCADA COMMUNICATION EQUIPMENT	SCADA	61,037	100%	61,037	100%	61,037
58	WTO	INTEREST DURING CONSTRUCTION	IDC	771	100%	771	100%	771
59	WTO	INTEREST DURING CONSTRUCTION	IDC	2,878	100%	2,878	100%	2,878
60	WTO	REMOTE TERMINAL UNIT	REMOTE TERMINAL UNIT	16,161	100%	16,161	100%	16,161
61	WTO	SCADA COMMUNICATION EQUIPMENT	SCADA	8,953	100%	8,953	100%	8,953
62	WTO	INTEREST DURING CONSTRUCTION	IDC	1,212	100%	1,212	100%	1,212
63		TOTAL		311,803		311,803		311,803
64	WTO F	ALCATEL 5620 FIBER TERMINAL EQUIP PART 2 OF 2	TERMINATION EQUIPMENT	134,174	100%	134,174	100%	134,174
65	WTO F	ADD DROP MULTIPLEXER (PART 2 OF 2)	ADD DROP MULTIPLEXER	59,005	100%	59,005	100%	59,005
66	WTO F	POWER SYSTEM DISPATCH CONSOLES	SCADA	119,667	100%	119,667	100%	119,667
67	WTO F	REMOTE TERMINAL UNIT	REMOTE TERMINAL UNIT	39,790	100%	39,790	100%	39,790
68	WTO F	IDC	IDC	1,601	100%	1,601	100%	1,601
69	WTO F	FIBER OPTIC EQUIPMENT	FIBER OPTICS EQUIPMENT	53,165	100%	53,165	100%	53,165
70	WTO F	FIBER OPTIC EQUIPMENT	ADD DROP MULTIPLEXER	307,465	100%	307,465	100%	307,465
71	WTO F	FIBER OPTIC EQUIPMENT	TERMINATION EQUIPMENT	12,820	100%	12,820	100%	12,820
72	WTO F	FIBER OPTIC EQUIPMENT	CHANNEL BANK EQUIPMENT	415,983	100%	415,983	100%	415,983
73	WTO F	IDC	IDC	146,435	100%	146,435	100%	146,435
74	WTO F	IDC	IDC	2,533	100%	2,533	100%	2,533
75	WTO F	TELEPHONE COMMUNICATION EQUIPMENT	TELEPHONE SYSTEM	31,658	100%	31,658	100%	31,658
76	WTO F	MICROWAVE COMMUNICATION EQUIPMENT	MICROWAVE SYSTEM	85,009	100%	85,009	100%	85,009
77	WTO F	FIBER OPTICS EQUIPMENT	ADD DROP MULTIPLEXER	108,685	100%	108,685	100%	108,685
78	WTO F	FIBER OPTICS EQUIPMENT	CHANNEL BANK EQUIPMENT	1,934	100%	1,934	100%	1,934
79	WTO F	FIBER OPTICS EQUIPMENT	FIBER OPTICS EQUIPMENT	38,123	100%	38,123	100%	38,123
80	WTO F	IDC	IDC	23,486	100%	23,486	100%	23,486
81	WTO F	MULTIPLEXER EXPANDED CAPABILITY ASSET 166934 - PRO	ADD DROP MULTIPLEXER	25,032	100%	25,032	100%	25,032
82	WTO F	IDC - ASSET 166934 MULTIPLEXER EXPANSION (PART 2)	IDC	514	100%	514	100%	514
83	WTO F	IDC	IDC	18,650	100%	18,650	100%	18,650
84	WTO F	ADD DROP MULTIPLEXER (PART 1 OF 2)	TERMINATION EQUIPMENT	2,850	100%	2,850	100%	2,850
85	WTO F	ALCATEL 5620 FIBER TERMINAL EQUIP (PART 1 OF 2)	TERMINATION EQUIPMENT	6,625	100%	6,625	100%	6,625
86	WTO F	SCADA COMMUNICATION EQUIPMENT	SCADA	(8,953)	100%	(8,953)	100%	(8,953)
87	WTO F	IDC	IDC	(1,212)	100%	(1,212)	100%	(1,212)
88	WTO F	MICROWAVE COMMUNICATION EQUIPMENT	MICROWAVE SYSTEM	226,333	100%	226,333	100%	226,333
89	WTO F	IDC	IDC	13,471	100%	13,471	100%	13,471
90	WTO F	TELEPHONE SYSTEM - 40 CHANNEL RECORDER & CRASH K	TELEPHONE SYSTEM	70,115	100%	70,115	100%	70,115
91	WTO F	IDC	IDC	1,421	100%	1,421	100%	1,421
92	WTO F	VOICE RECORDER SYSTEM	TELEPHONE SYSTEM	61,005	100%	61,005	100%	61,005
93	WTO F	SCADA SYSTEM HISTORIAN SOFTWARE	SCADA	202,050	100%	202,050	100%	202,050
94	WTO F	IDC	IDC	6,761	100%	6,761	100%	6,761
95	WTO F	SCADA	UNITERRUPTABLE POWER SUPPLY	121,027	100%	121,027	100%	121,027
96	WTO F	IDC	IDC	2,484	100%	2,484	100%	2,484
97	WTO F	AUX PWR SYS - BACKUP GENERATOR	AUXILIARY POWER SYSTEM	454,504	100%	454,504	100%	454,504
98	WTO F	IDC	IDC	12,877	100%	12,877	100%	12,877
99	WTO F	(5) DIGITAL VOICE RECORDERS - WTO F	SCADA	20,217	100%	20,217	100%	20,217
100	WTO F	IDC	IDC	1,979	100%	1,979	100%	1,979
101	WTO F	BATTERY BANK FOR UPS	BATTERY	36,320	100%	36,320	100%	36,320
102	WTO F	IDC	IDC	631	100%	631	100%	631
103	WTO F	DIGITAL TRANS & REC EQUIP	SCADA	23,847	100%	23,847	100%	23,847
104	WTO F	FREQUENCY CONTROL ADDITIONS	LOAD AND FREQUENCY CONTROL EQUIPMENT	57,731	100%	57,731	100%	57,731
105	WTO F	TELEPHONE COMMUNICATION EQUIPMENT	PLANT COMM SYSTEM	144,190	100%	144,190	100%	144,190
106	WTO F	PLANT COMM SYSTEM	PLANT COMM SYSTEM	167,020	100%	167,020	100%	167,020
107	WTO F	IDC	IDC	2,373	100%	2,373	100%	2,373
108	WTO F	ADD DROP MULTIPLEXER	ADD DROP MULTIPLEXER	267,249	100%	267,249	100%	267,249
109	WTO F	IDC	IDC	16,354	100%	16,354	100%	16,354
110	WTO F	SCADA COMMUNICATION EQUIPMENT	SCADA	24,732	100%	24,732	100%	24,732
111	WTO F	IDC	IDC	312	100%	312	100%	312
112	WTO F	TELEPHONE SYSTEM	TELEPHONE SYSTEM	559,892	100%	559,892	100%	559,892
113	WTO F	IDC	IDC	33,280	100%	33,280	100%	33,280
114	WTO F	SCADA	SCADA	1,215,754	100%	1,215,754	100%	1,215,754
115	WTO F	IDC	IDC	15,473	100%	15,473	100%	15,473
116		TOTAL		5,384,440		5,384,440		5,384,440
117	WTO F	WATERTOWN OPERATIONS BUILDING	CONTROL BUILDING	636,802	66.7%	424,747	80.8%	514,536
118	WTO F	RESURFACE PARKING LOT AT WATERTOWN OPS OFFICE	OFFICE BUILDING	152,204	66.7%	101,520	80.8%	122,981

119	WTO F	WALLS	WALLS	276,284	66.7%	184,281	80.8%	223,237
120	WTO F	IDC	IDC	2,835	66.7%	1,891	80.8%	2,291
121	WTO F	MICROWAVE COMMUNICATION EQUIPMENT	SYNC UNIT	20,893	66.7%	13,936	80.8%	16,882
122	WTO F	IDC	IDC	405,078	66.7%	270,187	80.8%	327,303
123	WTO F	VEHICLE/STORAGE BUILDING	GARAGE	651,816	66.7%	434,761	80.8%	526,667
124	WTO F	IDC	IDC	39,508	66.7%	26,352	80.8%	31,923
125	WTO F	SIDEWALKS	SIDEWALKS	153,428	66.7%	102,336	80.8%	123,970
126	WTO F	IDC	IDC	2,052	66.7%	1,368	80.8%	1,658
127	WTO F	TELEPHONE COMMUNICATION EQUIPMENT	TELEPHONE SYSTEM	146,115	66.7%	97,458	80.8%	118,061
128	WTO F	IDC - REPLACEMENTS	IDC	1,845	66.7%	1,231	80.8%	1,491
129	WTO F	IDC - ADDITIONS	IDC	3,845	66.7%	2,564	80.8%	3,106
130	WTO F	PSOO-WATER SYSTEM	METER EQUIPMENT	219,050	66.7%	146,106	80.8%	176,993
131	WTO F	IDC	IDC	285,734	66.7%	190,585	80.8%	230,873
132	WTO F	PWR SYS OPERATIONS OFFICE BUILDING (Part 1 of 2)	STORAGE BUILDING	1,929,776	66.7%	1,287,161	80.8%	1,559,259
133	WTO F	WATERTOWN OPS BLDG EXPANSION (PSOO)	STORAGE BUILDING	303,096	66.7%	202,165	80.8%	244,902
134	WTO F	WATERTOWN OPS BLDG EXPANSION	STORAGE BUILDING	1,362,395	66.7%	908,717	80.8%	1,100,815
135		TOTAL		6,592,755		4,397,368		5,326,946

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Worksheet 14 - Rate for Regulation and Frequency Response

12 Months Ending 09/30/2022 True-up

Line No.	(1) DESCRIPTION	(2) REGULATION and FREQUENCY RESPONSE	(3) REFERENCE
1	Fixed Charge Rate	13.87%	WS2-AllocFactor C4 L30
2	Corps Generation Net Plant Costs (\$)	\$623,311,750	WS2-AllocFactor C4 L31
3	Annual Corps Generation Cost (\$)	\$86,430,601	L1*L2
4	Plant Capacity (kW)	2,438,000	(1)
5	Cost/kW (\$/kW)	\$35.45	L3/L4
6	Capacity Used for Regulation (kW)	8,861	(2)
7	Regulation Revenue Requirement (\$) - Capacity	\$314,135	L5*L6
8	Regulation Revenue Requirement (\$) - Purchases	\$0	(3)
9	Total Regulation Revenue Requirement (\$)	\$314,135	
(1)	WAPA Annual Report plant capacity		
(2)	WAUW capacity used for regulation		
(3)	Cost of Purchases Required to Regulate for Intermittent Resources		

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Worksheet 15 - Rate for Reserves

12 Months Ending 09/30/2022 True-up

Line No.	(1) DESCRIPTION	(2) RESERVES	(3) REFERENCE
1	Fixed Charge Rate	13.9%	WS2-AllocFactor C4 L30
2	Corps Generation Net Plant Costs (\$)	\$623,311,750	WS2-AllocFactor C4 L31
3	Annual Corps Generation Cost (\$)	\$86,430,601	L1*L2
4	Plant Capacity (kW)	2,438,000	(1)
5	Cost/kW (\$/kW-Yr)	\$35.45	L3/L4
7	Western's Maximum Load in WAUW Control Area (kW)	167,000	(2)
8	Maximum Generation in WAUW Control Area (kW)	93,000	(3)
9	Capacity used for Reserves (kW) -- 3% Load + 3% Gen	7,800	L8*3% + L9*3% (4)
10	Annual Reserve Sharing Group Cost	\$42,587	(5)
11	Annual Reserves Revenue Requirement	\$319,108	L10*L5 + L11
(1)	WAPA Annual Report plant capacity		
(2)	WAUW maximum load data		
(3)	WAUW maximum generation data		
(4)	Western Power Pool Reserve Sharing System		
(5)	Annual cost associated with Western-UGP's current reserve sharing group membership		