



Western Area  
Power Administration

Western Area Power Administration (WAPA)  
Upper Great Plains Region (WAPA-UGP)  
Transmission and Ancillary Services  
Rate Calculation

**Effective January 1, 2022**

WAPA-UGP 2022 Rate Estimate Calculation

(Rate Order No. WAPA-188)

## WAPA-UGP

### Transmission and Ancillary Services List of Workpapers and Schedules

#### **Worksheet Tab Label**

Summary-ATRR  
WS1-RateBase  
WS2-AllocFactor  
WS3-RevCredits  
WS4-CostData  
WS5-BPUz  
WS6-BPUr  
WS7-BPUFac  
WS8-TranFac  
WS9-AI-Incl  
WS10-AI-Excl  
WS11-FacChanges  
WS12-SSCD  
WS13-SSCDFac  
WS14-Reg  
WS15-Res

#### **Worksheet Tab Description**

[Worksheet "Summary-ATRR" -- Calculation of ATRRs](#)  
[Worksheet 1 -- Calculation of Rate Base](#)  
[Worksheet 2 -- Allocation Factors](#)  
[Worksheet 3 -- Revenue Credit Detail](#)  
[Worksheet 4 -- Cost Support Data](#)  
[Worksheet 5 -- SPP Base Plan Upgrades \(BPU\) - Zonal](#)  
[Worksheet 6 -- SPP Base Plan Upgrades \(BPU\) - Regional](#)  
[Worksheet 7 -- SPP Base Plan Upgrades \(BPU\) - Facilities](#)  
[Worksheet 8 -- Transmission Facilities](#)  
[Worksheet 9 -- WAPA-UGP Facilities Included per SPP Tariff Attachment A1](#)  
[Worksheet 10 -- WAPA-UGP Facilities Excluded per SPP Tariff Attachment A1](#)  
[Worksheet 11 -- Facility Changes Detail](#)  
[Worksheet 12 -- Scheduling, System Control and Dispatch Service \(SSCD\) ARR](#)  
[Worksheet 13 -- Scheduling, System Control and Dispatch Service \(SSCD\) Facilities](#)  
[Worksheet 14 -- Regulation and Frequency Response ARR](#)  
[Worksheet 15 -- Reserves ARR](#)

Date	Worksheet	Reference Cell(s)	Change From	Change To	Description
9/1/2021					

Summary of incremental changes: thru XX/XX/XXXX -- Annual Update.

WAPA-UGP 2022 Rate Estimate Calculation

[\(Back to Worksheet Links\)](#)

Summary-ATRR - Calculation of ATRRs (Sched 9, Sched 11)

12 Months Ending 09/30/2022 ESTIMATE

		REFERENCE	COMPANY TOTAL \$	ALLOCATOR	ALLOCATION %	TRANSMISSION	
Line No.	(1)	(2)	(3)		(4)	ALLOCATED AMOUNT \$ (5)	
1	Gross Zonal Revenue Requirement-Sch 9	WS1-RateBase C5L1				160,025,370	
2	REVENUE CREDITS						
3	Firm Point-to-Point Revenue Credit	WS3-RevCredits C5L3+C5L6	(6,094,000)	NA	100%	(6,094,000)	
4	Non-Firm Point-to-Point Revenue Credit	WS3-RevCredits C5L9	(2,725,000)	NA	100%	(2,725,000)	
5	Revenue from Existing Transmission Agreements	WS3-RevCredits C5L12	(1,170,700)	NA	100%	(1,170,700)	
6	Scheduling, System Control, and Dispatch Service Credit	WS12-SSCD C2L11	(12,798,966)	NA	100%	(12,798,966)	
7	Account No. 454	WS3-RevCredits C5L18	(61,359)	TP	100%	(61,359)	
8	Z2 Nonfirm Point-to-Point Revenue Credit		-	NA	100%	-	
9	Schedule 11 Point-to-Point Revenue Credit	WS3-RevCredits C5L15	(68,400)	NA	100%	(68,400)	
10	TOTAL REVENUE CREDITS	Subtotal L3:L9	(22,918,425)			(22,918,425)	
11	TRUE-UP ADJUSTMENT (from TRUEUP Sheet)	Summary-TrueUp L12	(721,952)			(721,952)	
12	Net Revenue Requirement	Total L1-L10+L11				136,384,993	
13							
Line No.	(1)	TOTAL PROJECT ATRR \$ (2)	ZONAL \$ (3)	REGIONAL \$ (4)	REVENUE CREDIT \$ (5)	TRUE-UP ADJ \$ (6)	ALLOCATED AMOUNT \$ (7)
14	<b>SPP Upgrades - Gross Revenue Requirement-Sch 11*</b>	<b>883,739</b>	<b>765,913</b>	<b>117,826</b>	<b>(76,825)</b>	<b>64,840</b>	<b>871,754</b>
15	Zonal less True-Up (from TRUEUP Sheet)					74,476	771,989
16	Regional less True-Up (from TRUEUP Sheet)					(9,636)	99,765
17	Breakout by Facility:						
18	Lewis-Richland 115 kV Ckt 1, 72052	14,120	9,460	4,660	(1,178)	539	13,481
19	Roberts County 115 kV Substation, 71926	342,885	229,733	113,152	(28,607)	13,085	327,363
20	Roberts County 115/69 kV Transformer, 71927	526,692	526,692	-	(47,036)	51,215	530,870
21	Williston Substation 115kV Terminal Upgrades, 61856	42	28	14	(3)	2	40
23							
24							
25	Net Revenue Requirement						871,754

WAPA-UGP 2022 Rate Estimate Calculation  
Worksheet 1 - Schedule 9 Revenue Requirement - Non-Levelized  
Utilizing Financial Statement Results of Operations (ROOs)  
12 Months Ending 09/30/2022 ESTIMATE

Line No.	REFERENCE (2)	COMPANY TOTAL (3)	ALLOCATOR	(4)	TRANSMISSION ALLOCATED AMOUNT (5)
(1)					
1	GROSS REVENUE REQUIREMENT (L69)	160,025,370			160,025,370
2	REVENUE CREDITS Estimate	(22,918,425)			(22,918,425)
3	PRIOR PERIOD TRUE-UP (Over-collection)	(721,952)			(721,952)
4	NET REVENUE REQUIREMENT (L1 + L2 + L3)	136,384,993			136,384,993
<b>RATE BASE:</b>					(Col 3 times Col 4)
GROSS PLANT IN SERVICE (Note A)					
5	Production WS4-CostData L4 C2+C3+C4	1,215,278,994	NA		
6	Transmission WS4-CostData L3 C2+C3+C4	1,565,254,710	TP	1.00000	1,565,254,710
7	Distribution WS4-CostData C2 L2-L3-L4	63,028,853	NA		
8	General & Intangible Bal Sheet - Other Assets - SGL 175002	-	W/S	1.00000	0
9	Common	-	CE	0.00000	0
10	TOTAL GROSS PLANT (sum L5 : 9)	2,843,562,557	GP=	55.046%	1,565,254,710
ACCUMULATED DEPRECIATION					
11	Production WS4-CostData L15 C2+C3+C4	615,057,021	NA		
12	Transmission WS4-CostData L14 C2+C3+C4	803,509,096	TP	1.00000	803,509,096
13	Distribution WS4-CostData C2 L13-L14-L15	32,384,651	NA		
14	General & Intangible Bal Sheet - Other Assets - SGL 175902	0	W/S	1.00000	0
15	Common	0	CE	0.00000	0
16	TOTAL ACCUM. DEPRECIATION (sum L11 : 15)	1,450,950,767			803,509,096
NET PLANT IN SERVICE					
17	Production (L5 - L11)	600,221,974			
18	Transmission (L6 - L12)	761,745,614			761,745,614
19	Distribution (L7 - L13)	30,644,203			
20	General & Intangible (L8 - L14)	0			0
21	Common (L9 - L15)	0			0
22	TOTAL NET PLANT (sum L17 : 21)	1,392,611,790	NP=	54.699%	761,745,614
ADJUSTMENTS TO RATE BASE (Note B)					
23	Account No. 281 (enter negative)	0		0.00000	0
24	Account No. 282 (enter negative)	0	NP	0.54699	0
25	Account No. 283 (enter negative)	0	NP	0.54699	0
26	Account No. 190	0	NP	0.54699	0
27	Account No. 255 (enter negative)	0	NP	0.54699	0
28	TOTAL ADJUSTMENTS (sum L23 : 27)	0			0
29	LAND HELD FOR FUTURE USE (Note C)	0	TP	1.00000	0
WORKING CAPITAL (Note D)					
30	CWC calculated	25,593,570			0
31	Materials & Supplies Bal Sheet - Other Assets - SGL 151191 (Note C)	0	TE	0.00000	0
32	Prepayments Bal Sheet Other Assets	0	GP	0.55046	0
33	TOTAL WORKING CAPITAL (sum L30 : 32)	25,593,570			0
34	RATE BASE (sum L22, 28, 29, 33)	1,418,205,359			761,745,614
<b>O&amp;M</b>					
Transmission					
35	Western-UGP ROOs Schedule 11 (Note E)				
36	Western-RMR WS4-CostData L105 C2	75,043,005	PTP/UGP	0.94851	71,178,803
37	COE WS4-CostData L105 C3	46,417,099	PTP/RMR	0.00894	414,763
38	Less Account 565 WS4-CostData L105 C4 (Note E)	54,504,188	PTP/COE	0.07543	4,111,111
A&G					
39	Western-UGP ROOs Schedule 11 (Note F)				
40	Western-RMR WS4-CostData L79 C2	15,789,470	PTP/UGP	0.94851	14,976,421
41	Less FERC Annual Fees WS4-CostData L79 C3	12,994,794	PTP/RMR	0.00894	116,116
42	Less EPRI & Reg. Comm. Exp. & Non-safety Ad (Note G)	0	W/S	1.00000	0
43	Plus Transmission Related Reg. Comm. Exp (Note G)	0	W/S	1.00000	0
44	Common	0	TE	0.00000	0
45	Transmission Lease Payments	0	CE	0.00000	0
46	TOTAL O&M (sum L35, 36, 37, 39, 40, 43, 44 less 38, 41, 42)	204,748,556	NA	1.00000	90,797,213
DEPRECIATION EXPENSE					
Transmission					
47	Western-UGP ROOs Schedule 4				
48	Western-RMR WS4-CostData L38 C2	36,477,830	PTP/UGP	0.94851	34,599,472
49	COE WS4-CostData L38 C3	18,388,293	PTP/RMR	0.00894	164,310
50	General WS4-CostData L38 C4	17,919,229	PTP/COE	0.07543	1,351,601
51	Common	0	W/S	1.00000	0
52	TOTAL DEPRECIATION (sum L47 : 52)	72,785,352	CE	0.00000	36,115,383
TAXES OTHER THAN INCOME TAXES (Note H)					
LABOR RELATED					
54	Payroll	0	W/S	1.00000	0
55	Highway and vehicle	0	W/S	1.00000	0
PLANT RELATED					
56	Property	0	GP	0.55046	0
57	Gross Receipts	0	GP	0.00000	0
58	Other	0	GP	0.55046	0
59	Payments in lieu of taxes	0	GP	0.55046	0
60	TOTAL OTHER TAXES (sum L54 : 59)	0			0
INCOME TAXES (Note I)					
61	T=1 - [(1 - SIT) * (1 - FIT)] / (1 - SIT * FIT * p) =	0.00%			
62	CIT=(T/1-T) * (1-(WCLTD/R)) = where WCLTD= (line 100) and R= (line 102) and FIT, SIT & p are as given in footnote I.	0.00%			
63	1 / (1 - T) = (from line 61)	0.0000			
64	Amortized Investment Tax Credit (enter negative)	0			0
65	Income Tax Calculation (L62 * L68)	0	NA		0
66	ITC adjustment (L63 * L64)	0	NP	0.54699	0
67	Total Income Taxes (L65 + L66)	0			0
68	RETURN [ Rate Base * Rate of Return] (L34 * L102)	61,648,814	NA		33,112,774
69	REV. REQUIREMENT (sum L46, 53, 60, 67, 68)	339,182,722			160,025,370

**SUPPORTING CALCULATIONS AND NOTES**

TRANSMISSION PLANT INCLUDED IN UMZ RATES									
70	Total transmission plant	(L6, C3)						1,565,254,710	
71	Less transmission plant excluded from UMZ rates	(Note K)						0	
72	<u>Less transmission plant included in OATT Ancillary Services</u>	(Note L)						0	
73	Transmission plant included in UMZ rates	(L70 less L71 and L72)						1,565,254,710	
74	Percentage of transmission plant included in UMZ Rates	(L73 / L70)				TP=		1.00000	
TRANSMISSION EXPENSES									
75	Total transmission expenses	(sum L35 to L37, C3)							
76	<u>Less transmission expenses included in OATT Ancillary Services</u>	(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)						0.00000	
79	Percentage of transmission plant included in UMZ Rates	(L74)				TP		1.00000	
80	Percentage of transmission expenses included in UMZ Rates	(L79 * L78)				TE=		0.00000	
WAGES & SALARY ALLOCATOR (W&S)									
			\$		TP	Allocation			
81	Production		0		0.00	0			
82	Transmission		14,976,421		1.00	14,976,421			
83	Distribution		0		0.00	0			W&S Allocator
84	Other		0		0.00	0			(\$ / Allocation)
85	Total	(sum L81 to L84)	14,976,421			14,976,421	=	1.00000	
PERCENTAGE OF TOTAL PLANT ALLOCATOR PTP									
			\$						
86	Transmission Plant in Service Western-UGP		1,460,100,610						
87	Total Plant in Service Western-UGP		1,539,367,508						
88	UGP Percentage of Transmission Plant to Total Plant	(L86 / L87)				PTP/UGP	=	0.94851	
89	Transmission Plant in Service Western-RMR		7,335,303						
90	Total Plant in Service Western-RMR		820,911,400						
91	RMR Percentage of Transmission Plant to Total Plant	(L89 / L90)				PTP/RMR	=	0.00894	
92	Transmission Plant in Service COE		97,818,796						
93	Total Plant in Service COE		1,296,859,746						
94	COE Percentage of Transmission Plant to Total Plant	(L92 / L93)				PTP/COE	=	0.07543	
COMMON PLANT ALLOCATOR (CE)									
			\$			% Electric		Labor Ratio =	CE
95	Electric		0			(L95 / L98)		(L85)	0.00000
96	Gas		0			0.00000	*	1.00000	
97	Water		0						
98	Total	(sum L95 : L97)	0						
RETURN (R)									
99	Long Term Interest ROOs Schedule 5		\$37,933,681			Cost			=WCLTD
			\$		%	(Note O)		Weighted	
100	Long Term Debt	HFD Sch's 21RX & 21X Col 8	872,648,581	100%		0.0435		0.0435	=R
101	Proprietary Capital	L23,25,26,29,30	0	0%		0.1238		0.0000	
102	Total (sum L31-32)	(sum L100 : 101)	872,648,581	100%				0.0435	
103						Proprietary Capital Cost Rate =		12.38%	
104						TIER =		1.00	
REVENUE CREDITS									
ACCOUNT 447 (SALES FOR RESALE)									
105	a. Bundled Non-RQ Sales for Resale	(Note P)						0	
106	<u>b. Bundled Sales for Resale included in Divisor on page 1</u>							0	
107	Total of (a)-(b)							0	
108	ACCOUNT 454 (RENT FROM ELECTRIC PROPERTY)	(Note Q)						61,359	
109	ACCOUNT 456 (OTHER ELECTRIC REVENUES)							0	
110	a. Transmission charges for all transmission transactions							0	
111	<u>b. Transmission charges for all transmission transactions included in Divisor on page 1</u>							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 56S), 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.

WAPA-UGP 2022 Rate Estimate Calculation  
Worksheet 2 - Allocation Factor, Determination of Pick-Sloan Missouri Basin Program--Eastern Division Annual Costs  
12 Months Ending 09/30/2022 ESTIMATE

Line No.	DESCRIPTION (1)	TRANSMISSION (2)	GENERATION (3)	COE GENERATION (5)	BASE PLAN UPGRADES- REGIONAL (4)	BASE PLAN UPGRADES- ZONAL (5)	REFERENCE (6)
1	<b>A. Operation and Maintenance Expense</b>						
2	O&M Expense	\$75,704,677	\$92,938,029	\$50,393,077	\$55,325	\$359,632	WS4-Cost Data (O&M Expenses Worksheet)
3	Transmission of Electricity by Others	\$0	\$0	\$0	\$0	\$0	
4	Total O&M Expense	\$75,704,677	\$92,938,029	\$50,393,077	\$55,325	\$359,632	L2 + L3
5	Net Plant Investment	\$761,745,614	\$778,361,862	\$592,327,146	\$551,771	\$3,586,732	WS4-Cost-Data (Net Plant Investment Worksheet)
6	O&M as % of Net Plant Investment	9.938%	11.940%	8.508%	10.027%	10.027%	L4/L5
7	<b>B. A&amp;G Expense</b>						
8	A&G Expense	\$15,092,536	\$166,555	\$0	\$11,641	\$75,669	WS4-Cost Data (A&G Expenses Worksheet)
9	Net Plant Investment	\$761,745,614	\$778,361,862	\$592,327,146	\$551,771	\$3,586,732	L5
10	A&G as % of Net Plant Investment	1.981%	0.021%	0.000%	2.110%	2.110%	L8/L9
11	<b>C. Depreciation Expense</b>						
12	Depreciation Expense	\$36,115,383	\$21,576,014	\$16,567,628	\$26,893	\$174,814	WS4-CostData (Depreciation Expense Worksheet)
13	Net Plant Investment	\$761,745,614	\$778,361,862	\$592,327,146	\$551,771	\$3,586,732	L5
14	Depreciation as a % of Net Plant Investment	4.741%	2.772%	2.797%	4.874%	4.874%	L12/L13
15	<b>D. Taxes Other than Income Taxes for Transmission</b>						
16	Not applicable.						
17	<b>E. Allocation of General Plant</b>						
18	No General Plant identified at this time, all plant is identified as either generation or transmission related.						
19	<b>F. Cost of Capital</b>						
20	Weighted Transmission Composite Interest Rate	4.344%	4.553%	4.553%	4.344%	4.344%	WS4-CostData (Cost of Capital Worksheet)
21	<b>G. Fixed Charge Rate</b>						
22	Operation and Maintenance Expense	9.938%	11.940%	8.508%	10.027%	10.027%	L6
23	A&G Expense	1.981%	0.021%	0.000%	2.110%	2.110%	L10
24	Depreciation Expense	4.741%	2.772%	2.797%	4.874%	4.874%	L14
25	Taxes Other than Income Taxes	0.000%	0.000%	0.000%	0.000%	0.000%	
26	Allocation of General Plant to Transmission	0.000%	0.000%	0.000%	0.000%	0.000%	
27	Cost of Capital	4.344%	4.553%	4.553%	4.344%	4.344%	L20
28	Total	21.005%	19.286%	15.857%	21.354%	21.354%	
29	<b>H. Revenue Requirement</b>						
30	Fixed Charge Rate	21.005%	19.286%	15.857%	21.354%	21.354%	L28
31	Net Plant Investment	\$761,745,614	\$778,361,862	\$592,327,146	\$551,771	\$3,586,732	L5
32	Annual Western-UGPR Cost	\$160,001,007	\$150,117,523	\$93,927,921	\$117,826	\$765,913	L30 * L31

WAPA-UGP 2022 Rate Estimate Calculation  
 Worksheet 3 - Revenue Credit Calculation  
 12 Months Ending 09/30/2022 ESTIMATE

Line No.	ACCOUNT	MONTH (1)	REFERENCE (2)	COMPANY TOTAL		TRANSMISSION	
				\$ (3)	ALLOCATION (4)	ALLOCATION (4)	ALLOCATED AMOUNT \$ (5)
1	Z2 Sch 11		Z2	56,000	NA	100%	56,000
2	Z2 Sch 11 Adjustments		Z2	-		100%	0
3	Subtotal			56,000			56,000
4	Schedule 7		FIRM PTP	(6,150,000)	TP	100%	(6,150,000)
5	Schedule 7 Adjustments		FIRM PTP	-	TP	100%	0
6	Subtotal			(6,150,000)			(6,150,000)
7	Schedule 8		NONFIRM PTP	(2,725,000)	TP	100%	(2,725,000)
8	Schedule 8 Adjustments		NONFIRM PTP	-	TP	100%	0
9	Subtotal			(2,725,000)			(2,725,000)
10	Sch 7/8/11		MISO SEAMS	(1,170,700)	TP	100%	(1,170,700)
11	Sch 7/8/11 Adjustments		MISO SEAMS	-	TP	100%	0
12	Subtotal			(1,170,700)			(1,170,700)
13	Schedule 11		ZONAL PTP	(68,400)	NA	100%	(68,400)
14	Schedule 11 Adjustments		ZONAL PTP ADJUSTMENTS	-	NA	100%	0
15	Subtotal			(68,400)			(68,400)
16	45420		RENT FROM ELECTRIC PROPERTY	(61,359)	TP	100%	(61,359)
17	45420 Adjustments		RENT FROM ELECTRIC PROPERTY	-	TP	100%	0
18	Subtotal			(61,359)			(61,359)
19	Sch 11		BPU-ZONAL PTP	(68,400)	NA	100%	(68,400)
20	Sch 11 Adjustments		BPU-ZONAL PTP	-	NA	100%	0
21	Subtotal			(68,400)			(68,400)
22	Sch 11		BPU-REGIONAL PTP	(8,425)	NA	100%	(8,425)
23	Sch 11 Adjustments		BPU-REGIONAL PTP	-	NA	100%	0
24	Subtotal			(8,425)			(8,425)
25	NOTES:	Includes twelve months of revenue credits from January-December or February-January depending on when WAPA began receiving revenue credits from SPP.					
26		Revenue credit sheet may be updated or adjusted as necessary to include all revenue credits received.					
27		Z2 Schedule 7/8 clawbacks					
28		Schedule 7 - Firm PTP Transmission revenues					
29		Schedule 8 - Non-Firm PTP Transmission revenues					
30		Schedule 7/8/11 - MISO's SPP PTP transmission service revenues					
31		Schedule 11 - Zonal PTP adjustment revenues					
32		45420 - Other Rental revenues					
33		Schedule 11 Base Plan Upgrade, Zonal and Regional revenues					



Line No.	(1)	WESTERN-UGP (2)	WESTERN-RMR (3)	COE (4)	BOR (5)	TOTAL (6)				
1	<b>Net Plant Investment Worksheet</b>									
2	Total PS Plant-in-Service	1,539,367,508	1/	820,911,400	2/	1,296,859,746	3/	552,632,734	12/	4,209,771,388
3	PS-ED Transmission Plant-in-Service	1,460,100,610	4/	7,335,303	5/	97,818,796	6/	0		1,565,254,710
4	PS-ED Generation Plant-in-Service	16,238,045	7/	0		1,199,040,950	L2-L3	552,632,734	L2-L3	1,767,911,728
5	PS-ED SSCD Plant-in-Service	23,121,573	8/							23,121,573
6	BPU-Regional Plant-in-Service	1,134,879								1,134,879
7	BPU-Zonal Plant-in-Service	7,377,173								7,377,173
8	Generation Plant to Total Plant	0.01055	L4/L2	0.00000	L4/L2	0.92457	L4/L2	1.00000	L4/L2	
9	Transmission Plant to Total Plant	0.94851	L3/L2	0.00894	L3/L2	0.07543	L3/L2	0.00000	L3/L2	
10	SSCD Plant to Total Plant	0.01502	L5/L2							
11	BPU-Regional Plant to Total Plant	0.00074	L6/L2							
12	BPU-Zonal Plant to Total Plant	0.00479	L7/L2							
13	PS Accumulated Depreciation	790,937,425	9/	425,636,730	10/	656,210,040	11/	374,492,845	12/	2,247,277,039
14	PS-ED Trans. Accumulated Depreciation	750,209,557	L13*L9	3,803,302	L13*L9	49,496,236	L13*L9	0	L13*L9	803,509,096
15	PS-ED Gen. Accumulated Depreciation	8,343,217	L13*L8	0		606,713,803	L13-L14	374,492,845	L13*L8	989,549,866
16	PS-ED SSCD Accumulated Depreciation	11,880,021	L13*L10							11,880,021
17	BPU-Regional Accumulated Depreciation	583,109	L13*L11							583,109
18	BPU-Zonal Accumulated Depreciation	3,790,441	L13*L12							3,790,441
19	PS-ED Net Transmission Plant	709,891,053	L3-L14	3,532,000	L3-L14	48,322,560	L3-L14	0	L3-L14	761,745,614
20	PS-ED Net Generation Plant	7,894,828	L4-L15	0	L4-L15	592,327,146	L4-L15	178,139,889	L4-L15	778,361,862
21	PS-ED Net SSCD Plant	11,241,553	L5-L16							11,241,553
22	Regional Net Plant	551,771	L6-L17							551,771
23	Base Plan Upgrade Net Plant	3,586,732	L7-L18							3,586,732
24	1/ WS8-TransFac, C3L510									
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, C7L512									
28	5/ WS8-TransFac, C7L501									
29	6/ WS8-TransFac, C7L508									
30	7/ WS8-TransFac, C5L510									
31	8/ SSCD Plant-in-Service is based on a percentage of Watertown Operations Centers cost, based on FTE									
32	9/ FY UGPCSR - Pick-Sloan Missouri River Basin and UGPCSR - Ft. Peck Power System Results of Operations, Schedule 4									
33	10/ FY RMCSR - Pick-Sloan Missouri River Basin Results of Operations, Schedule 4									
34	11/ FY Corps of Engineers Financial Statements, Statement of Assets and Liabilities									
35	12/ Combined Financial Statements, Detail by Agency									

WAPA-UGP 2022 Rate Estimate Calculation										
Line No.	(1)	WESTERN-UGP (2)		WESTERN-RMR (3)		COE (4)		BOR (5)		TOTAL (6)
36	<b>Depreciation Worksheet</b>									
37	PS Depreciation Expense	36,477,830	1/	18,388,293	2/	17,919,229	3/	4,623,599	4/	77,408,951
38	PS-ED Transmission Depreciation 5/	34,599,472	L37*L9	164,310	L37*L9	1,351,601	L37*L9	0	L37*L9	36,115,383
39	PS-ED Generation Depreciation 6/	384,787	L37*L8	0	L37*L8	16,567,628	L37*L8	4,623,599	L37*L8	21,576,014
40	PS-ED SSCD Depreciation 7/	547,903	L37*L10							547,903
41	BPU-Regional Depreciation	26,893	L37*L11							26,893
42	BPU-Zonal Depreciation	174,814	L37*L12							174,814
43	1/ FY UGPCSR - Pick-Sloan Missouri River Basin and UGPCSR - Ft. Peck Power System Results of Operations, Schedule 4									
44	2/ FY RMCSR - Pick-Sloan Missouri River Basin Results of Operations, Schedule 4									
45	3/ FY Corps of Engineers Statement of Revenues and Expenses									
46	4/ Combined Financial Statements, Detail by Agency									
47	5/ For Western-UGP, Western-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									
48	plant-in-service, calculated on L9 of the Net Plant Investment Worksheet									
49	6/ For Western-UGP, Western-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,									
50	calculated on L8 of the Net Plant Investment Worksheet. COE generation depreciation is COE total depreciation less transmission depreciation									
51	7/ For Western-UGP, 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									
52	Investment Worksheet									

WAPA-UGP 2022 Rate Estimate Calculation										
Line No.	(1)	WESTERN-UGP (2)		WESTERN-RMR (3)		COE (4)		BOR (5)		TOTAL (6)
53	<b>Cost of Capital Worksheet</b>									
54	<b>Long Term Debt:</b>									
55	FY Balances	864,610,604	1/	343,716,718	1/	656,103,606	1/	224,828,062	1/	2,089,258,990
56	<b>Interest Expenses:</b>									
57	FY Interest	37,901,878	13/	17,399,110	13/	24,235,474	2/	14,436,858	2/	93,973,320
58	Average Interest Rate	4.384%	L57/L55	5.062%	L57/L55	3.694%	L57/L55	6.421%	L57/L55	
59	Transmission Plant Factor	0.9328	3/	0.0047	4/	0.0625	5/	0.0000	6/	
60	Weighted Trans. Composite Rate									4.344%
61	Generation Plant Factor	0.0092	8/	0.0000	9/	0.6782	10/	0.3126	11/	
62	Weighted Gen. Composite Rate									4.553%
63	1/ FY Historical Financial Data in Support of the Power Repayment Study for the P-SMBP, Schedules 21X and 21RX									
64	2/ Interest from Combined Financial Statements, Detail By Agency/Col M L53									
65	3/ C2L3, Net Plant Investment Worksheet/C6L3, Net Plant Investment Worksheet									
66	4/ C3L3, Net Plant Investment Worksheet/C6L3, Net Plant Investment Worksheet									
67	5/ C4L3, Net Plant Investment Worksheet/C6L3, Net Plant Investment Worksheet									
68	6/ C5L3, Net Plant Investment Worksheet/C6L3, Net Plant Investment Worksheet									
69	7/ (C2L58*C2L59)+(C3L58*C3L59)+(C4L58*C4L59)+(C5L58*C5L59)									
70	8/ C2L4, Net Plant Investment Worksheet/C6L4, Net Plant Investment Worksheet									
71	9/ C3L4, Net Plant Investment Worksheet/C6L4, Net Plant Investment Worksheet									
72	10/ C4L4, Net Plant Investment Worksheet/C6L4, Net Plant Investment Worksheet									
73	11/ C5L4, Net Plant Investment Worksheet/C6L4, Net Plant Investment Worksheet									
74	12/ (C2L58*C2L61)+(C3L58*C3L61)+(C4L58*C4L61)+(C5L58*C5L61)									
75	13/ FY UGPCSR - Pick-Sloan Missouri River Basin and UGPCSR - Ft. Peck Power System Results of Operations, Schedule 5									

WAPA-UGP 2022 Rate Estimate Calculation						
Line No.	(1)	WESTERN-UGP (2)	WESTERN-RMR (3)	COE (4)	BOR (5)	TOTAL (6)
76	<b>A&amp;G Expenses Worksheet</b>					
77		<b>WESTERN-UGP 1/</b>	<b>WESTERN-RMR 2/</b>	<b>COE 3/</b>	<b>BOR 3/</b>	<b>Total</b>
78	<b>PS Total Est. A&amp;G</b>	15,789,470	12,994,794	0	0	28,784,264
79	<b>PS-ED Est. Transmission A&amp;G 4/</b>	14,976,421	116,116	0	0	15,092,536
80	<b>PS-ED Generation A&amp;G 5/</b>	166,555	0	0	0	166,555
81	<b>PS-ED SSCD A&amp;G 6/</b>	237,161	0	0	0	237,161
82	<b>BPU-Regional A&amp;G</b>	11,641	0	0	0	11,641
83	<b>BPU-Zonal A&amp;G</b>	75,669	0	0	0	75,669
84	1/ Western-UGP A&G Est. Expenses are from the FY UGPCSR - Pick-Sloan Missouri River Basin and UGPCSR - Ft. Peck Power System Budget					
85	2/ Western RMR A&G Expenses are from the FY RMCSR - Pick-Sloan Missouri River Basin Budget					
86	3/ A&G Expenses for COE and BOR are unavailable. All COE and BOR A&G expenses are included in O&M Expenses					
87	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 Investment Worksheet					
88	Investment Worksheet					
89	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 Investment Worksheet					
90	Investment Worksheet					
91	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 Estimate Calculation						
Line No.	(1)	WESTERN-UGP (2)	WESTERN-RMR (3)	COE (4)	BOR (5)	TOTAL (6)
92	<b>O&amp;M Expenses Worksheet</b>					
93		<b>WESTERN-UGP 1/</b>	<b>WESTERN-RMR 2/</b>	<b>COE 3/</b>	<b>BOR 4/</b>	
94	<b>Total Electric Operating Expense</b>	82,647,000	45,826,814	54,504,188	41,753,360	224,731,362
95	<b>Less:</b>					
96	<b>Other Power Supply Expenses</b>					
97	<b>A&amp;G Expenses</b>	15,789,470				15,789,470
98	<b>Prior Year Adjustments</b>					
99	<b>Annual Reserve Sharing Group Cost</b>	65,525				65,525
100	<b>Plus:</b>					
101	<b>Moveable Property Interest</b>	8,251,000				8,251,000
102	<b>Warehouse Stores Interest</b>					
103	<b>Scheduling, System Control &amp; Dispatch</b>	11,525,595				11,525,595
104	<b>PS Total O&amp;M</b>	75,043,005	46,417,099	54,504,188	41,753,360	217,127,366
105	<b>PS-ED Transmission O&amp;M 5/</b>	71,178,803	414,763	4,111,111	0	75,704,677
106	<b>PS-ED Generation O&amp;M 6/</b>	791,592	0	50,393,077	41,753,360	92,938,029
107	<b>BPU-Regional O&amp;M</b>	55,325				55,325
108	<b>BPU-Zonal O&amp;M</b>	359,632				359,632
109	1/ All Western-UGP O&M Expenses are from the FY UGPCSR - Pick-Sloan Missouri River Basin and UGPCSR - Ft. Peck Power System Budget					
110	2/ All Western RMR O&M Expenses are from the FY RMCSR - Pick-Sloan Missouri River Basin Results of Operations, Schedule 11; except Moveable Property and Warehouse					
111	Stores Interest, which are from Schedule 5					
112	3/ Total Corps O&M Expenses are from the FY Corps of Engineers Financial Statements					
113	4/ Total BOR O&M Expenses are from the Combined Financial Statements					
114	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					
115	Net Plant Investment Worksheet					
116	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					
117	Net Plant Investment Worksheet					

WAPA-UGP 2022 Rate Estimate Calculation  
 Worksheet 5 - Zonal SPP Upgrade Calculations  
 12 Months Ending 09/30/2022 ESTIMATE

[\(Back to Worksheet Links\)](#)

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)	Project ATRR \$ (12)	Revenue Credit Allocation \$ /1 (13)	True-Up Calculation \$/2 (14)	Net ATRR \$ (15)
1	Lewis-Richland 115 kV Ckt 1, 72052	TL	91,120	1.235%	\$ 46,818	4,442	2,159	935	4.344%	44,302	1,924	9,460	(845)	920	9,535
2	Roberts County 115 kV Substation, 71926	SUB	2,212,759	29.995%	\$ 1,136,931	107,870	52,435	22,697	4.344%	1,075,829	46,731	229,733	(20,516)	22,339	231,556
3	Roberts County 115/69 kV Transformer, 71927	SUB	5,073,024	68.767%	\$ 2,606,554	247,306	120,214	52,035	4.344%	2,466,470	107,138	526,692	(47,036)	51,215	530,870
4	Williston Substation 115 kV Terminal Upgrades, 61856	SUB	270	0.004%	\$ 139	13	6	3	4.344%	131	6	28	(3)	3	28
5															
6															
7															
8															
9															
10															
11															
12	<b>Total</b>		<b>7,377,173</b>	<b>100%</b>	<b>\$ 3,790,441</b>	<b>359,632</b>	<b>174,814</b>	<b>75,669</b>		<b>3,586,732</b>	<b>155,799</b>	<b>765,913</b>	<b>(68,400)</b>	<b>74,476</b>	<b>771,989</b>
13	1/ Revenue Credit Allocation Total from W53-Rev Credit C5L21 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														
14	2/ True-up Total from Summary-ATRR C6L15 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 Estimate Calculation  
 Worksheet 6 - Base Plan Upgrades-Regional  
 12 Months Ending 09/30/2022 ESTIMATE

[\(Back to Worksheet Links\)](#)

Line No.	Project Name and # (1)	Type (2)	Project Gross Plant (Regional 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)	Project ATRR \$ (12)	Revenue Credit Allocation \$ /1 (13)	True-up Calculation \$ /2 (14)	Net ATRR \$ (15)
1	Lewis & Clark-Richland 115 kV Ckt 1, 72052	TL	44,880	3.955%	23,060	2,188	1,064	460	4.344%	21,820	948	4,660	(333)	(381)	3,945
2	Roberts County 115 kV Substation, 71926	SUB	1,089,866	96.034%	559,981	53,130	25,826	11,179	4.344%	529,886	23,017	113,152	(8,091)	(9,254)	95,808
3	Williston Substation 115 kV Terminal Upgrades, 61856	SUB	133	0.012%	68	6	3	1	4.344%	65	3	14	(1)	(1)	12
4															
5															
6															
7															
8															
9															
10															
11															
12															
13	<b>Total</b>		<b>1,134,879</b>	<b>100%</b>	<b>583,109</b>	<b>55,325</b>	<b>26,893</b>	<b>11,641</b>		<b>551,771</b>	<b>23,968</b>	<b>117,826</b>	<b>(8,425)</b>	<b>(9,636)</b>	<b>99,765</b>
14	1/ Revenue Credit Allocation Total from WS3-Rev Credit CSL24 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														
15	2/ True-up Total from Summary-ATRR C6L16 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 Estimate Calculation Worksheet 7 - SPP Base Plan Upgrades-Facilities 12 Months Ending 09/30/2022 ESTIMATE		<a href="#">(Back to Worksheet Links)</a>					
FID		DESCRIPTION	PRIOR YEAR FACILITY TOTALS (\$)	FY2021-22 ESTIMATE ADD/REPL/RETIRE (\$)	BASE PLAN UPGRADES- REGIONAL	BASE PLAN UPGRADES ZONAL	FY2022 EST SPP TOTALS (\$)
2022 SPP ESTIMATE SUMMARY							
LC-RH		LEWIS - RICHLAND 115 kV Ckt 1, 72052 (SPP set Regional/Zonal Allocation to 33%/67%)	-	136,000	44,880	91,120	136,000
RCO		ROBERTS COUNTY 115 kV SUBSTATION, 71926 (SPP set Regional/Zonal Allocation to 33%/67%)	3,302,626	-	1,089,866	2,212,759	3,302,626
RCO		ROBERTS COUNTY 115/69 kV TRANSFORMER, 71927 (SPP set Regional/Zonal Allocation to 0%/100%)	5,073,024	-	0	5,073,024	5,073,024
WN		WILLISTON SUBSTATION 115 kV TERMINAL UPGRADES, 61856	403	-	133	270	403
<b>TOTAL</b>			<b>8,376,053</b>	<b>136,000</b>	<b>1,134,879</b>	<b>7,377,173</b>	<b>8,512,053</b>
2020 SPP ESTIMATE DETAIL: FID		DESCRIPTION	FID COST DETAIL (\$)	REG %	REG TOTAL (\$)	ZONAL %	ZONAL TOTAL (\$)
LC-RH		WOOD POLE	20,000	33%	6,600	67%	13,400
LC-RH		CONDUCTOR	116,000	33%	38,280	67%	77,720
<b>LEWIS - RICHLAND 115 kV Ckt 1, 72052 - SUBTOTAL (SPP directed Regional/Zonal Split of 33%/67%)</b>			<b>136,000</b>		<b>44,880</b>		<b>91,120</b>
RCO		STEEL STRUCTURE	181,965	33%	60,049	67%	121,917
RCO		STEEL STRUCTURE	131,277	33%	43,321	67%	87,956
RCO		STEEL STRUCTURE	265,373	33%	87,573	67%	177,800
RCO		DISCONNECT SWITCH	73,712	33%	24,325	67%	49,387
RCO		DISCONNECT SWITCH	141,931	33%	46,837	67%	95,094
RCO		DISCONNECT SWITCH	179,996	33%	59,399	67%	120,597
RCO		CCVT	39,217	33%	12,942	67%	26,276
RCO		CCVT	89,701	33%	29,601	67%	60,100
RCO		CIRCUIT BREAKER	22,459	33%	7,412	67%	15,048
RCO		CIRCUIT BREAKER	410,893	33%	135,595	67%	275,298
RCO		STEEL STRUCTURE	304,124	33%	100,361	67%	203,763
RCO		STATION SERVICE, LAND, CONTROL BUILDING	1,461,976	33%	482,452	67%	979,524
<b>ROBERTS COUNTY 115 kV SUBSTATION, 71926 - SUBTOTAL</b>			<b>3,302,626</b>		<b>1,089,866</b>		<b>2,212,759</b>
RCO		POWER TRANSFORMER	20,893	0%	0	100%	20,893
RCO		POWER TRANSFORMER	461,395	0%	0	100%	461,395
RCO		POWER TRANSFORMER	481,329	0%	0	100%	481,329
RCO		DISCONNECT SWITCH	158,422	0%	0	100%	158,422
RCO		DISCONNECT SWITCH	61,693	0%	0	100%	61,693
RCO		DISCONNECT SWITCH	161,498	0%	0	100%	161,498
RCO		CCVT	13,072	0%	0	100%	13,072
RCO		CCVT	28,805	0%	0	100%	28,805
RCO		VOLTAGE TRANSFORMER	13,891	0%	0	100%	13,891
RCO		VOLTAGE TRANSFORMER	32,368	0%	0	100%	32,368
RCO		VOLTAGE TRANSFORMER	14,101	0%	0	100%	14,101
RCO		INSTRUMENT TRANSFORMER	13,037	0%	0	100%	13,037
RCO		INSTRUMENT TRANSFORMER	35,655	0%	0	100%	35,655
RCO		CIRCUIT BREAKER	25,490	0%	0	100%	25,490
RCO		CIRCUIT BREAKER	397,859	0%	0	100%	397,859
RCO		STEEL STRUCTURE	229,083	0%	0	100%	229,083
RCO		POWER TRANSFORMER	138,325	0%	0	100%	138,325
RCO		STEEL STRUCTURE	423,875	0%	0	100%	423,875
RCO		ARRESTER	13,145	0%	0	100%	13,145
RCO		OIL STORAGE TANK	103,408	0%	0	100%	103,408
RCO		STATION SERVICE, LAND, CONTROL BUILDING	2,245,681	0%	0	100%	2,245,681
<b>ROBERTS COUNTY 115/69 kV TRANSFORMER, 71927 - SUBTOTAL</b>			<b>5,073,024</b>		<b>0</b>		<b>5,073,024</b>
WN		RELAY SETTINGS	403	33%	133	67%	270
<b>WILLISTON SUBSTATION 115 kV TERMINAL UPGRADES - SUBTOTAL</b>			<b>403</b>		<b>133</b>		<b>270</b>
<b>TOTAL SPP UPGRADES</b>			<b>8,512,053</b>	<b>-</b>	<b>1,134,879</b>	<b>-</b>	<b>7,377,173</b>



WAPA-UGP 2022 Rate Estimate Calculation  
Worksheet 8 - Transmission Facilities  
12 Months Ending 09/30/2022 ESTIMATE

[\(Back to Worksheet Links\)](#)

Line No.	FID	DESCRIPTION	(1)	(2)	(3)	(4)	(5)	(6)	(7)
			PRIOR YEAR FACILITY TOTALS (\$)	EST ADD/REPL/RETIRE (\$)	ESTIMATED FACILITY TOTAL (\$)	ATTACHMENT AI ADJUSTMENTS (\$)	GENERATION ADJUSTMENTS (\$)	BASE UPGRADE ADJUSTMENTS (\$)	FY2022 EST SPP TOTALS (\$)
1	TL	AUR BR	AURORA- BROOKINGS 115-KV T/L	133,158		133,158	-	-	133,158
2	TL	AUR FL	AURORA-FLANDREAU 115-KV T/L	96,623		96,623	-	-	96,623
3	TL	BK HET	BAKER-HETTINGER	459,778		459,778	-	-	459,778
4	TL	BU GA	BEULAH-GARRISON	357,312		357,312	-	-	357,312
5	TL	BS GH	BISMARCK-GLENHAM	6,319,980		6,319,980	-	-	6,319,980
6	TL	BS JT 1	BISMARCK-JAMESTOWN NO. 1	9,317,120		9,317,120	-	-	9,317,120
7	TL	BS JT 2	BISMARCK-JAMESTOWN NO. 2	4,229,572		4,229,572	-	-	4,229,572
8	TL	BS MDR	BISMARCK-MEDORA	12,764,457		12,764,457	-	-	12,764,457
9	TL	BR SF	BROOKINGS-SIOUX FALLS	2,564,429		2,564,429	-	-	2,564,429
10	TL	BR WT 1	BROOKINGS-WATERTOWN NO. 1	1,718,240		1,718,240	-	-	1,718,240
11	TL	BR WT 2	BROOKINGS-WATERTOWN NO. 2	3,318,558		3,318,558	-	-	3,318,558
12	TL	BR WHT	BROOKINGS-WHITE 115/230KV	2,952,237		2,952,237	-	-	2,952,237
13	TL	CF EH A	CANYON FERRY-EAST HELENA "A"	337,236		337,236	-	-	337,236
14	TL	CA JT	CARRINGTON-JAMESTOWN	1,259,668		1,259,668	-	-	1,259,668
15	TL	WC BU	CHARLIE CREEK - WATFORD CITY	13,451,446		13,451,446	-	-	13,451,446
16	TL	CCR BEF	CHARLIE CREEK-BELFIELD	14,513,308		14,513,308	-	-	14,513,308
14	TL	CR DC	CIRLCE-DAWSON COUNTY	3,624,968		3,624,968	-	-	3,624,968
15	TL	CONSH2	CONRAD-SHELBY #2	6,735,890		6,735,890	-	-	6,735,890
16	TL	CS MY	CRESTON-MARYVILLE	1,366,481		1,366,481	-	-	1,366,481
17	TL	DC MC	DAWSON COUNTY - MILES CITY	2,605,678		2,605,678	-	-	2,605,678
18	TL	DC GL	DAWSON-GLENDIVE	553,800		553,800	-	-	553,800
19	TL	DC MDR	DAWSON-MEDORA	3,464,064		3,464,064	-	-	3,464,064
20	TL	DC OF	DAWSON-O'FALLON CREEK	918,676		918,676	-	-	918,676
21	TL	DC WN	DAWSON-WILLISTON	1,258,900		1,258,900	-	-	1,258,900
22	TL	DN CS	DENISON-CRESTON	20,977,731		20,977,731	-	-	20,977,731
23	TL	DL CA	DEVILS LAKE-CARRINGTON	9,154,519		9,154,519	-	-	9,154,519
24	TL	DL LA	DEVILS LAKE-LAKOTA	1,872,142		1,872,142	-	-	1,872,142
25	TL	ED FO	EDGELEY-FORMAN	375,316		375,316	-	-	375,316
26	TL	ED GR	EDGELEY-GROTON	771,572		771,572	-	-	771,572
27	TL	ELCMA	ELK CREEK-NEWELL-MAURINE 115-kv T/L	60,704		60,704	-	-	60,704
28	TL	FA GK	FARGO-GRAND FORKS	2,369,098		2,369,098	-	-	2,369,098
29	TL	FA MO	FARGO-MORRIS	8,267,213		8,267,213	-	-	8,267,213
30	TL	FO RCO	FORMAN-ROBERTS COUNTY	183,485		183,485	-	-	183,485
31	TL	FO SU D	FORMAN-SUMMIT (BISMARCK)	922,098		922,098	-	-	922,098
32	TL	FO SU C	FORMAN-SUMMIT (HURON)	4,465,037		4,465,037	-	-	4,465,037
33	TL	FP DC 1	FORT PECK-DAWSON 1	3,908,826		3,908,826	-	-	3,908,826
34	TL	FP DC 2	FORT PECK-DAWSON 2	4,627,356		4,627,356	-	-	4,627,356
35	TL	FP HV	FORT PECK-HAVRE	28,806,330		28,806,330	-	-	28,806,330
36	TL	FP WH	FORT PECK-WHATELY	157,876		157,876	-	-	157,876
37	TL	FP WN	FORT PECK-WILLISTON	13,223,860		13,223,860	-	-	13,223,860
38	TL	FP WP 2	FORT PECK-WOLF POINT #2	7,554,492		7,554,492	-	-	7,554,492
39	TL	FR FT D	FORT RANDALL-FORT THOMPSON 1&2	7,782,247		7,782,247	-	-	7,782,247
40	TL	FR GP	FORT RANDALL-GAVIN'S POINT	2,319,939		2,319,939	-	-	2,319,939

41	TL	FR GY	FORT RANDALL-GREGORY	777,327		777,327	-	-	777,327
42	TL	FR MV	FORT RANDALL-MT VERNON	1,308,562		1,308,562	-	-	1,308,562
43	TL	FR ON	FORT RANDALL-O'NEILL	937,082		937,082	-	-	937,082
44	TL	FR SC D	FORT RANDALL-SIOUX CITY 1&2	11,019,006		11,019,006	-	-	11,019,006
45	TL	FT GI	FORT THOMPSON-GRAND ISLAND	17,840,941		17,840,941	-	-	17,840,941
46	TL	FT HU D	FORT THOMPSON-HURON 230-KV 1&2	6,788,951		6,788,951	-	-	6,788,951
47	TL	FT SF D	FORT THOMPSON-SIOUX FALLS 1&2	10,455,917		10,455,917	-	-	10,455,917
48	TL	GA BS D	GARRISON-BISMARCK 230KV 1&2	10,713,977		10,713,977	-	-	10,713,977
49	TL	GA JT	GARRISON-JAMESTOWN	5,062,688		5,062,688	-	-	5,062,688
50	TL	GA ML	GARRISON-MALLARD	1,948,079		1,948,079	-	-	1,948,079
51	TL	GA WJ	GARRISON-WM. J. NEAL	1,521,174		1,521,174	-	-	1,521,174
52	TL	GP BN	GAVINS POINT-BELDEN	455,727		455,727	-	-	455,727
53	TL	GP SF	GAVINS POINT-SIOUX FALLS	3,361,449		3,361,449	-	-	3,361,449
54	TL	GF MO	GRANITE FALLS- MORRIS	3,279,089		3,279,089	-	-	3,279,089
55	TL	GF MNV	GRANITE FALLS-MINNESOTA VALLEY	156,778		156,778	-	-	156,778
56	TL	GTFCON	GREAT FALLS-CONRAD	12,744,945		12,744,945	-	-	12,744,945
57	TL	GY MS	GREGORY-MISSION	10,110,752		10,110,752	-	-	10,110,752
58	TL	GR HU	GROTON-HURON	1,270,645		1,270,645	-	-	1,270,645
59	TL	GR SU	GROTON-SUMMIT	3,255,847		3,255,847	-	-	3,255,847
60	TL	HV RB	HAVRE-RAINBOW	8,681,332		8,681,332	-	-	8,681,332
61	TL	HV SH2	HAVRE-SHELBY#2	5,561,905		5,561,905	-	-	5,561,905
62	TL	HE DV	HESKETT-DEVAUL	6,016,436		6,016,436	-	-	6,016,436
63	TL	HETNU	HETTINGER-NEW UNDERWOOD	11,263,708		11,263,708	-	-	11,263,708
64	TL	HU MV	HURON-MT VERNON	617,623		617,623	-	-	617,623
65	TL	HU WT D	HURON-WATERTOWN 230KV 1&3	6,319,622		6,319,622	-	-	6,319,622
66	TL	JT ED	JAMESTOWN-EDGELEY	1,189,520		1,189,520	-	-	1,189,520
67	TL	JT FA 1	JAMESTOWN-FARGO NO. 1	4,941,649		4,941,649	-	-	4,941,649
68	TL	JT FA 2	JAMESTOWN-FARGO NO. 2	3,155,850		3,155,850	-	-	3,155,850
69	TL	JT GK	JAMESTOWN-GRAND FORKS	28,856,299		28,856,299	-	-	28,856,299
70	TL	JT VC	JAMESTOWN-VALLEY CITY	1,055,414		1,055,414	-	-	1,055,414
71	TL	KD CCR	KILLDEER-CHARLIE CREEK	-	3,715,102	3,715,102	-	-	3,715,102
72	TL	LAHCF	LAKE HELENA SWITCHYARD - CANYON FERRY 10I	282,088		282,088	-	-	282,088
73	TL	LE DL	LEEDS-DEVILS LAKE	8,987,642		8,987,642	-	-	8,987,642
74	TL	LE RL	LEEDS-ROLLA	6,257,786		6,257,786	-	-	6,257,786
75	TL	LC RH	LEWIS-RICHLAND	-	136,000	136,000	-	(136,000)	-
76	TL	ML RG	MALLARD-RUGBY	1,089,083		1,089,083	-	-	1,089,083
77	TL	MR MS	MARTIN-MISSION	1,816,904		1,816,904	-	-	1,816,904
78	TL	MR PL	MARTIN-PHILIP	1,790,108		1,790,108	-	-	1,790,108
79	TL	MA RC	MAURINE-RAPID CITY	6,346,265		6,346,265	-	-	6,346,265
80	TL	MC BK	MILES CITY-BAKER	10,569,338		10,569,338	-	-	10,569,338
81	TL	MC CU	MILES CITY-CUSTER	3,750,704		3,750,704	-	-	3,750,704
82	TL	NU PL	NEW UNDERWOOD-PHILIP	2,915,316		2,915,316	-	-	2,915,316
83	TL	NU RC 1	NEW UNDERWOOD-RAPID CITY NO. 1	1,132,486		1,132,486	-	-	1,132,486
84	TL	NU RC 2	NEW UNDERWOOD-RAPID CITY NO. 2	309,991		309,991	-	-	309,991
85	TL	NU SG C	NEW UNDERWOOD-STEGALL (HURON)	2,651,860		2,651,860	-	-	2,651,860
86	TL	OA FT N	OAHE-FORT THOMPSON 230KV 1&2	3,973,416		3,973,416	-	-	3,973,416
87	TL	OA FT S	OAHE-FORT THOMPSON 230KV 3&4	5,563,296		5,563,296	-	-	5,563,296
88	TL	OA GH	OAHE-GLENHAM	5,949,648		5,949,648	-	-	5,949,648
89	TL	OA MA	OAHE-MAURINE	1,967,901		1,967,901	-	-	1,967,901
90	TL	OA NU	OAHE-NEW UNDERWOOD	6,683,770		6,683,770	-	-	6,683,770
91	TL	OA PI	OAHE-PIERRE	388,816		388,816	-	-	388,816

92	TL	OF MC	O'FALLON CREEK-MILES CITY	2,488,318		2,488,318	-	-	2,488,318
93	TL	PI PL	PIERRE-PHILIP	2,140,436		2,140,436	-	-	2,140,436
94	TL	RC DRY	RAPID CITY-DRY CREEK	9,269,194		9,269,194	-	-	9,269,194
95	TL	ELCRC	RAPID CITY-ELK CREEK 115-kV T/L	52,064		52,064	-	-	52,064
96	TL	RCOSU	ROBERTS COUNTY-SUMMIT	91,742		91,742	-	-	91,742
97	TL	RG LE	RUGBY-LEEDS	2,235,655		2,235,655	-	-	2,235,655
98	TL	SH SH2	SHELBY-SHELBY #2	576,090		576,090	(576,090)	-	(0)
99	TL	SC DN	SIOUX CITY-DENISON	10,989,275		10,989,275	-	-	10,989,275
100	TL	SC SP	SIOUX CITY-SPENCER	1,938,353		1,938,353	-	-	1,938,353
101	TL	SC SF	SIOUX FALLS- SIOUX CITY	3,217,192		3,217,192	-	-	3,217,192
102	TL	SF VFO	SIOUX FALLS-VIRGIL FODNESS 230KV T-LINE	277,897		277,897	-	-	277,897
103	TL	SU WT	SUMMIT-WATERTOWN	6,743,203		6,743,203	-	-	6,743,203
104	TL	TT TI	TIBER TAP-TIBER	1,084,858		1,084,858	-	-	1,084,858
105	TL	UJ SF	UTICA JCT-SIOUX FALLS	3,485,236		3,485,236	-	-	3,485,236
106	TL	VC FO	VALLEY CITY-FORMAN	2,418,957		2,418,957	-	-	2,418,957
107	TL	VR GTF	VERONA GREAT FALLS 161-kV LINE	5,110,115		5,110,115	-	-	5,110,115
108	TL	UJ VFO	VIRGIL FODNESS-UTICA JUNCTION-FT RANDALL/	312,931		312,931	-	-	312,931
109	TL	WT GF D	WATERTOWN-GRANITE FALLS 1&2	7,488,154		7,488,154	-	-	7,488,154
110	TL	WT SC	WATERTOWN-SIOUX CITY	26,924,889		26,924,889	-	-	26,924,889
111	TL	WC BU	WATFORD CITY-BEULAH	349,954		349,954	-	-	349,954
112	TL	WN WC	WILLISTON-WATFORD CITY	17,627,868		17,627,868	-	-	17,627,868
113	TL	WP CR	WOLF POINT-CIRCLE	11,035,514		11,035,514	-	-	11,035,514
114	TL	WJ RG	WM. J. NEAL-RUGBY	4,629,316		4,629,316	-	-	4,629,316
115	TL	YT CU	YELLOWTAIL-CUSTER	2,265,163		2,265,163	-	-	2,265,163
116	<b>TL Total</b>		<b>TRANSMISSION LINES</b>	<b>587,968,501</b>	<b>3,851,102</b>	<b>591,819,603</b>	<b>(576,090)</b>	<b>-</b>	<b>591,107,513</b>
117	SUB	AN	ANITA	6,259		6,259	-	-	6,259
118	SUB	APD	APPELDORN SUBSTATION	5,878,984		5,878,984	-	-	5,878,984
119	SUB	AR	ARMOUR SUBSTATION	2,318,295		2,318,295	(800,024)	-	1,518,271
120	SUB	AHS	ASH SUBSTATION	63,325		63,325	-	-	63,325
121	SUB	AB	ASSINNIBOINE	35,005		35,005	(35,005)	-	(0)
122	SUB	AUR	AURORA SUBSTATION	2,899,881		2,899,881	(124,344)	-	2,775,537
123	SUB	BK	BAKER	279,691		279,691	-	-	279,691
124	SUB	BN	BELDEN SUBSTATION	298,522		298,522	-	-	298,522
125	SUB	BEF	BELFIELD SUBSTATION	13,779,308		13,779,308	(163,836)	-	13,615,472
126	SUB	BE	BERESFORD SUBSTATION	4,733,510		4,733,510	(231,321)	-	4,502,189
127	SUB	BB	BISBEE SUBSTATION	272,529		272,529	(218,122)	-	54,407
128	SUB	BS	BISMARCK SUBSTATION	18,166,329	650,000	18,816,329	(237,218)	-	18,579,111
129	SUB	BI	BISON	12,472		12,472	-	-	12,472
130	SUB	BOL	BOLE SUB	2,997,082		2,997,082	(630,455)	-	2,366,627
131	SUB	BO	BONESTEEL SUBSTATION	3,398,446		3,398,446	(1,226,623)	-	2,171,823
132	SUB	BR	BROOKINGS SUBSTATION	17,356,137	10,753,569	28,109,706	-	-	28,109,706
133	SUB	CB	CAMPBELL COUNTY SWITCHING STATION /1	4,765,826		4,765,826	-	-	4,765,826
134	SUB	CF	CANYON FERRY	45,210		45,210	-	-	45,210
135	SUB	CRP	CARPENTER SUBSTATION	2,463,312		2,463,312	-	-	2,463,312
136	SUB	CA	CARRINGTON SUBSTATION	3,845,459		3,845,459	(1,007,873)	-	2,837,586
137	SUB	CCR	CHARLIE CREEK	1,376,076		1,376,076	-	-	1,376,076
138	SUB	CR	CIRCLE SUBSTATION	9,139,054		9,139,054	(2,140,670)	-	6,998,384
139	SUB	CON	CONRAD SUB	5,387,897		5,387,897	(151,625)	-	5,236,272
140	SUB	CS	CRESTON SUBSTATION	8,453,084		8,453,084	-	-	8,453,084
141	SUB	CRO	CROSSOVER SUB	12,735,595		12,735,595	-	-	12,735,595
142	SUB	CQE	CULBERTSON EAST SWITCHING STATION	2,390,851		2,390,851	-	-	2,390,851

143	SUB	CU	CUSTER SUBSTATION	4,672,136		4,672,136	(346,142)	-	4,325,994
144	SUB	CT	CUSTER TRAIL SUBSTATION	1,567,242		1,567,242	(1,567,242)	-	-
145	SUB	DC	DAWSON COUNTY SUBSTATION	10,478,271		10,478,271	(2,305)	-	10,475,966
146	SUB	DNT	DENBIGH TAP	848,872		848,872	(109,673)	-	739,199
147	SUB	DN	DENISON SUBSTATION	16,394,238		16,394,238	(183,385)	-	16,210,853
148	SUB	DV	DEVAUL SUBSTATION	1,705,147		1,705,147	(1,705,147)	-	0
149	SUB	DL	DEVILS LAKE SUBSTATION	2,918,979	8,875,000	11,793,979	(97,895)	-	11,696,084
150	SUB	DK	DICKINSON	23,704		23,704	-	-	23,704
151	SUB	EJ	E. J. MANNING	49,112		49,112	-	-	49,112
152	SUB	EA	EAGLE	66,108		66,108	-	-	66,108
153	SUB	EB	EAGLE BUTTE SUBSTATION	2,201,771	70,380	2,272,151	(421,703)	-	1,850,448
154	SUB	ED	EDGELEY SUBSTATION	6,773,221		6,773,221	(1,197,122)	-	5,576,099
155	SUB	ELC	ELK CREEK SUBSTATION	2,099,907		2,099,907	(17,147)	-	2,082,760
156	SUB	EL	ELLENDALE SUBSTATION	579		579	(579)	-	0
157	SUB	ELI	ELLIOTT SWITCHING STATION	3,507,129		3,507,129	(41,652)	-	3,465,477
158	SUB	END	ENDERLIN TAP STATION	749,768		749,768	(247,423)	-	502,345
159	SUB	EXI	EXIRA SWITCHING STATION	5,529,337		5,529,337	(164,229)	-	5,365,108
160	SUB	FVW	FAIRVIEW WEST SWITCHING STATION	4,296,873		4,296,873	-	-	4,296,873
161	SUB	FH	FAITH SUBSTATION	1,235,034		1,235,034	(541,181)	-	693,853
162	SUB	FA	FARGO SUBSTATION	27,861,695		27,861,695	-	-	27,861,695
163	SUB	FL	FLANDREAU SUBSTATION	4,266,040		4,266,040	(40,435)	-	4,225,605
164	SUB	FO	FORMAN SUBSTATION	7,435,622		7,435,622	(1,050,833)	-	6,384,789
165	SUB	FR	FORT RANDALL	253,710		253,710	-	-	253,710
166	SUB	FT2	FORT THOMPSON #2	13,463,134		13,463,134	-	-	13,463,134
167	SUB	FT	FORT THOMPSON SUBSTATION	16,988,725		16,988,725	(163,144)	-	16,825,581
168	SUB	GL	GLENDIVE SUBSTATION	1,725,310		1,725,310	-	-	1,725,310
169	SUB	GK	GRAND FORKS SUBSTATION	10,579,463	1,909,824	12,489,287	-	-	12,489,287
170	SUB	GI	GRAND ISLAND SUBSTATION	17,413,353		17,413,353	-	-	17,413,353
171	SUB	GRP	GRAND PRAIRIE SUBSTATION /1	-		-	-	-	-
172	SUB	GF	GRANITE FALLS SUBSTATION	23,914,829		23,914,829	(2,113,167)	-	21,801,662
173	SUB	GTF	GREAT FALLS SUB	8,439,044		8,439,044	-	-	8,439,044
174	SUB	GY	GREGORY SUBSTATION	1,517,925		1,517,925	(43,752)	-	1,474,173
175	SUB	GR	GROTON SUBSTATION	6,180,011		6,180,011	(326,877)	-	5,853,134
176	SUB	GSO	GROTON SOUTH SUBSTATION	8,552,324		8,552,324	-	-	8,552,324
177	SUB	HA	HARLEM	98,534		98,534	-	-	98,534
178	SUB	HV	HAVRE SUBSTATION	11,868,322		11,868,322	(62,475)	-	11,805,847
179	SUB	HBN	HEBRON SUBSTATION	6,841,034		6,841,034	(59,777)	-	6,781,257
180	SUB	HET	HETTINGER	10,832		10,832	-	-	10,832
181	SUB	HLK	HILKEN SUBSTATION	3,894,020		3,894,020	(143,716)	-	3,750,304
182	SUB	HU	HURON SUBSTATION	12,505,665		12,505,665	(362,525)	-	12,143,140
183	SUB	JT	JAMESTOWN SUBSTATION	25,178,539	899,906	26,078,445	(2,354,747)	-	23,723,697
184	SUB	KD	KILLDEER SUBSTATION	7,092,854		7,092,854	(1,180,480)	-	5,912,374
185	SUB	LA	LAKOTA SUBSTATION	3,670,766		3,670,766	(1,307,837)	-	2,362,929
186	SUB	LE	LEEDS SUBSTATION	3,943,917		3,943,917	(158,722)	-	3,785,195
187	SUB	LET	LETCHER SUBSTATION	11,108,748		11,108,748	-	-	11,108,748
188	SUB	ML	MALLARD	29,969		29,969	-	-	29,969
189	SUB	MT	MALTA	340,848		340,848	-	-	340,848
190	SUB	MDN	MANDAN SUBSTATION	19,476		19,476	-	-	19,476
191	SUB	MR	MARTIN SUBSTATION	1,829,481	4,091,000	5,920,481	(1,134,120)	-	4,786,361
192	SUB	MA	MAURINE SUBSTATION	8,065,072		8,065,072	(593,801)	-	7,471,271
193	SUB	MD	MIDLAND SUBSTATION	831,466		831,466	(154,097)	-	677,369

194	SUB	MC2	MILES CITY SUB #2	6,938,868	1,026,626	7,965,494	-	-	7,965,494
195	SUB	MC3	MILES CITY SUB #3	1,895,702		1,895,702	-	-	1,895,702
196	SUB	MC	MILES CITY SUBSTATION	1,202,099		1,202,099	-	-	1,202,099
197	SUB	MGV	MINGUSVILLE	5,351,152		5,351,152	-	-	5,351,152
198	SUB	MS	MISSION SUBSTATION	3,473,710		3,473,710	(586,992)	-	2,886,718
199	SUB	MO	MORRIS SUBSTATION	8,007,360		8,007,360	(1,095,435)	-	6,911,925
200	SUB	MV	MT VERNON SUBSTATION	2,030,824	2,603,373	4,634,197	(139,934)	-	4,494,263
201	SUB	NA	NASHUA SUB	72,368		72,368	(72,368)	-	(0)
202	SUB	NEL	NELSON SUBSTATION	1,944,817		1,944,817	(33,744)	-	1,911,073
203	SUB	NU	NEW UNDERWOOD SUBSTATION	18,333,139		18,333,139	-	-	18,333,139
204	SUB	NL	NEWELL SUBSTATION	4,116,914		4,116,914	(287,497)	-	3,829,417
205	SUB	OF	O'FALLON CREEK SUBSTATION	3,335,109		3,335,109	(58,595)	-	3,276,514
206	SUB	ON	O'NEILL SUB (NPP)	180,660		180,660	-	-	180,660
207	SUB	PET	PENN TAP	890,607		890,607	(108,485)	-	782,122
208	SUB	PL	PHILIP SUBSTATION	2,037,148		2,037,148	(209,290)	-	1,827,858
209	SUB	PI	PIERRE SUBSTATION	4,310,496		4,310,496	(699,890)	-	3,610,606
210	SUB	PLL	PLEASANT LAKE TAP	992,415		992,415	(160,601)	-	831,814
211	SUB	RB	RAINBOW SUBSTATION	250,629		250,629	(250,629)	-	(0)
212	SUB	RC	RAPID CITY SUBSTATION	5,739,051		5,739,051	(556,793)	-	5,182,258
213	SUB	RH	RICHLAND SUBSTATION	1,733,528		1,733,528	(1,733,528)	-	(0)
214	SUB	RCO	ROBERTS COUNTY SUBSTATION 2/	8,375,651		8,375,651	-	(8,375,651)	(0)
215	SUB	RL	ROLLA SUBSTATION	623,513		623,513	-	-	623,513
216	SUB	RY	RUDYARD SUBSTATION	3,160,305		3,160,305	(1,380,449)	-	1,779,856
217	SUB	RG	RUGBY SUBSTATION	8,722,196		8,722,196	(570,712)	-	8,151,484
218	SUB	SA	SAVAGE SUB	74,403		74,403	-	-	74,403
219	SUB	SH	SHELBY SUBSTATION	861,699	3,078,229	3,939,928	(3,939,928)	-	0
220	SUB	SH2	SHELBY SUBSTATION #2	5,897,302		5,897,302	(169,696)	-	5,727,606
221	SUB	SL	SHIRLEY TAP	22,102		22,102	-	-	22,102
222	SUB	SC2	SIOUX CITY #2	13,150,690		13,150,690	-	-	13,150,690
223	SUB	SC	SIOUX CITY SUBSTATION	16,893,262		16,893,262	-	-	16,893,262
224	SUB	SF	SIOUX FALLS SUBSTATION	14,959,603		14,959,603	(516,513)	-	14,443,090
225	SUB	SP	SPENCER	8,022,741		8,022,741	(254,683)	-	7,768,058
226	SUB	SNY	STANLEY	49,735		49,735	-	-	49,735
227	SUB	SB	SULLY BUTTES	74,428		74,428	-	-	74,428
228	SUB	SUH	SULPHUR	-		-	-	-	-
229	SUB	SU	SUMMIT SUBSTATION	2,851,689		2,851,689	(384,548)	-	2,467,141
230	SUB	TR	TERRY TAP	606,044		606,044	(103,121)	-	502,923
231	SUB	TT	TIBER TAP	166,306		166,306	-	-	166,306
232	SUB	TN	TOWNER SUBSTATION	5,204,626		5,204,626	-	-	5,204,626
233	SUB	TY	TYNDALL SUBSTATION	937,621		937,621	(125,594)	-	812,027
234	SUB	UJ	UTICA JCT.	12,974,150		12,974,150	-	-	12,974,150
235	SUB	VH	V. T. HANLON	12,235,483		12,235,483	-	-	12,235,483
236	SUB	VC	VALLEY CITY SUBSTATION	6,894,550		6,894,550	(176,541)	-	6,718,009
237	SUB	VR	VERONA	120,972		120,972	-	-	120,972
238	SUB	VE	VETAL TAP	232,375		232,375	-	-	232,375
239	SUB	VFO	VIRGIL FODNESS SUBSTATION	3,206,763		3,206,763	-	-	3,206,763
240	SUB	WL	WALL SUBSTATION	1,571,437		1,571,437	(654,299)	-	917,138
241	SUB	WNB	WANBLEE TAP	-		-	-	-	-
242	SUB	WDD	WARD SUBSTATION	3,453,847		3,453,847	(45,362)	-	3,408,485
243	SUB	WB	WASHBURN SUBSTATION	2,072,439		2,072,439	(931,181)	-	1,141,258
244	SUB	WT2	WATERTOWN #2	3,223,563		3,223,563	-	-	3,223,563

245	SUB	WTS	WATERTOWN STATIC VAR SYSTEM	11,778,775		11,778,775	-	-	11,778,775	
246	SUB	WT	WATERTOWN SUBSTATION	16,071,738	1,137,695	17,209,433	-	-	17,209,433	
247	SUB	WC	WATFORD CITY SUB	7,600,294		7,600,294	(108,365)	-	7,491,929	
248	SUB	WSG	WESSINGTON SPRINGS SUBSTATION	5,141,440		5,141,440	(181,849)	-	4,959,591	
249	SUB	WH2	WHATELY (NORTHERN)	40,860		40,860	-	-	40,860	
250	SUB	WH	WHATELY SUBSTATION	109,910		109,910	(54,083)	-	55,827	
251	SUB	WHT	WHITE 345/115 SUB	11,080,709		11,080,709	-	-	11,080,709	
252	SUB	WV	WICKSVILLE SUBSTATION	831,304		831,304	(250,593)	-	580,711	
253	SUB	WN2	WILLISTON 2 SUBSTATION	15,594,604		15,594,604	-	-	15,594,604	
254	SUB	WN	WILLISTON SUBSTATION	8,198,987	218,552	8,417,539	(97,320)	-	(403)	8,319,816
255	SUB	WI	WINNER SUBSTATION	3,234,614		3,234,614	(101,869)	-	-	3,132,745
256	SUB	WJ	WM. J. NEAL	183,222		183,222	-	-	-	183,222
257	SUB	WP	WOLF POINT SUBSTATION	7,205,454		7,205,454	(1,346,899)	-	-	5,858,555
258	SUB	WO	WOONSOCKET SUBSTATION	2,775,992		2,775,992	(1,579,680)	-	-	1,196,312
259	SUB	YJ	YANKTON JCT.	76,396		76,396	-	-	-	76,396
260	SUB	YA	YANKTON SUBSTATION	2,935		2,935	-	-	-	2,935
261	<b>SUB Total</b>		<b>SUBSTATIONS</b>	<b>733,539,621</b>	<b>35,314,154</b>	<b>768,853,775</b>	<b>(43,827,513)</b>	<b>-</b>	<b>(8,376,054)</b>	<b>716,650,208</b>
262	O&M	ARC	ARMOUR O&M SER. CEN.	3,488,667		3,488,667	-	-	-	3,488,667
263	O&M	BSM	BISMARCK O&M SER. CEN.	9,917,899		9,917,899	-	-	-	9,917,899
264	O&M	DCF	DAWSON SER. CEN.	6,853,289		6,853,289	-	-	-	6,853,289
265	O&M	DLM	DEVILS LAKE O&M SER. CEN.	3,852,064		3,852,064	-	-	-	3,852,064
266	O&M	FAO	FARGO LINE MAINTENANCE FACILITY	2,203,121		2,203,121	-	-	-	2,203,121
267	O&M	FAM	FARGO O&M SER. CEN.	584,445		584,445	-	-	-	584,445
268	O&M	FPM	FORT PECK SER. CEN.	8,407,259		8,407,259	-	-	-	8,407,259
269	O&M	FTM	FORT THOMPSON O&M S. C.	2,209,623		2,209,623	-	-	-	2,209,623
270	O&M	HVM	HAVRE SERVICE CENTER	493,999		493,999	-	-	-	493,999
271	O&M	HUM	HURON O&M SER. CEN.	2,797,866		2,797,866	-	-	-	2,797,866
272	O&M	JTM	JAMESTOWN O&M SER. CEN.	3,874,657		3,874,657	-	-	-	3,874,657
273	O&M	MCM	MILES CITY MTCE FAC.	1,025,254		1,025,254	-	-	-	1,025,254
274	O&M	NUM	NEW UNDERWOOD SER. CEN.	96,884		96,884	-	-	-	96,884
275	O&M	PLM	PHILIP O&M SER. CENT.	1,679,382		1,679,382	-	-	-	1,679,382
276	O&M	PIM	PIERRE O&M SER. CEN.	1,051,383		1,051,383	-	-	-	1,051,383
277	O&M	RCM	RAPID CITY GARAGE & STOR.	2,221,967		2,221,967	-	-	-	2,221,967
278	O&M	SCM	SIOUX CITY O&M SER. CEN.	7,115,527		7,115,527	-	-	-	7,115,527
279	O&M	SFC	SIOUX FALLS O&M SER. CEN.	239,920	3,607,000	3,846,920	-	-	-	3,846,920
280	O&M	WTM	WATERTOWN MAINT. CEN.	7,452,151		7,452,151	-	-	-	7,452,151
281	<b>O&amp;M Total</b>		<b>O&amp;M SERVICE &amp; MAINT. CENTERS</b>	<b>65,565,356</b>	<b>3,607,000</b>	<b>69,172,356</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>69,172,356</b>
282	OPS	WAO	WATERTOWN ALTERNATE OPERATIONS CENTER	6,046,941		6,046,941	-	-	-	6,046,941
283	OPS	WTO	WATERTOWN OPERATIONS CENT	1,568,214		1,568,214	-	(272,719)	-	1,295,495
284	OPS	WTO F	WATERTOWN OPER CTR (BFPS)	12,069,072	7,053,192	19,122,264	-	(1,570,068)	-	17,552,196
285	<b>OPS Total</b>		<b>OPERATION CENTERS</b>	<b>19,684,227</b>	<b>7,053,192</b>	<b>26,737,419</b>	<b>-</b>	<b>(1,842,787)</b>	<b>-</b>	<b>24,894,632</b>
286	MOB	MOBW2	MOB 115KV SWITCH TRAILER	69,741		69,741	-	-	-	69,741
287	MOB	MOBT13	MOB TRANSF 111KV 15MVA	213,000		213,000	-	-	-	213,000
288	MOB	MOBT2	MOB TRANSF 115KV 10MVA	218,493		218,493	-	-	-	218,493
289	MOB	MOBT12	MOB TRANSF 115KV 25MVA	814,665		814,665	-	-	-	814,665
290	MOB	MOBT4	MOB TRANSF 115KV 40MVA	526,201		526,201	-	-	-	526,201
291	MOB	MOBT6	MOB TRANSF 230KV 1-33MVA	170,278		170,278	-	-	-	170,278
292	MOB	MOBB2	MOBILE BY PASS KIT (BISMARCK)	35,071		35,071	-	-	-	35,071
293	MOB	MOBB1	MOBILE BY PASS KIT (HURON)	163,695		163,695	-	-	-	163,695
294	MOB	MOBC4	MOBILE CAPACITOR BANK	19,075		19,075	-	-	-	19,075
295	MOB	MOBS6	MOBILE SUB 110KV	127,144		127,144	-	-	-	127,144

296	MOB	MOBS9	MOBILE SUB 115KV 20MVA	404,166	404,166	-	-	404,166
297	MOB	MOBS10	MOBILE SUB 115/41.8KV 20MVA	1,474,766	1,474,766	(1,474,766)	-	0
298	MOB	MOBS7	MOBILE SUB 41.8 KV	192,498	192,498	(192,498)	-	-
299	MOB	MOBS5	MOBILE SUB 69KV	71,118	71,118	-	-	71,118
300	MOB	MOBR2	MOB SH.REACTOR	179,328	179,328	-	-	179,328
301	MOB	MOBS11	MOBILE 69/13.2 SUBSTATION	-	1,221,207	1,221,207	(1,221,207)	-
302	<b>MOB Total</b>	<b>MOBILE EQUIPMENT</b>		<b>4,679,239</b>	<b>1,221,207</b>	<b>5,900,446</b>	<b>(2,888,471)</b>	<b>3,011,975</b>
303	GEN	BG FT L	BIG BEND-FORT THOMPSON (LOW VOLTAGE)	81,944	81,944	-	(81,944)	-
304	GEN	FP	FORT PECK POWERPLANT (COE)	64,611	64,611	-	(64,611)	0
305	GEN	FT BG 1	FORT THOMPSON-BIG BEND NO. 1	922,164	922,164	-	-	922,164
306	GEN	FT BG 2	FORT THOMPSON-BIG BEND NO. 2	690,735	690,735	-	-	690,735
307	<b>GEN Total</b>	<b>TRANSMISSION-RELATED GEN. FACILITIES</b>		<b>1,759,454</b>	<b>-</b>	<b>1,759,454</b>	<b>(146,555)</b>	<b>1,612,899</b>
308	COM	ATC	ATLANTIC COMMUNICATION SITE	17,199	17,199	-	(5,495)	11,704
309	COM	BK2	BAKER RELAY	255,789	255,789	-	(81,725)	174,064
310	COM	BTY	BANTRY	409,860	409,860	-	(130,950)	278,909
311	COM	BAE	BARRETT	99,835	99,835	-	(31,897)	67,937
312	COM	BMW	BATTLE MT. MICROWAVE	329,570	329,570	-	(105,298)	224,273
313	COM	BPR	BELLE PRAIRIE	257,179	257,179	-	(82,169)	175,010
314	COM	BET	BENEDICT	196,601	196,601	-	(62,814)	133,787
315	COM	BU	BEULAH	10,679	10,679	-	(3,412)	7,267
316	COM	BG	BIG BEND	113,362	113,362	-	(36,219)	77,143
317	COM	BJR	BIJOU REPEATER	587,474	587,474	-	(187,698)	399,776
318	COM	BAO	BILLINGS AREA OFFICE	158,946	158,946	-	(136,495)	22,451
319	COM	BSR	BISMARCK REPEATER	413,471	413,471	-	(132,104)	281,367
320	COM	BIR	BISON REPEATER	232,618	232,618	-	(74,321)	158,296
321	COM	BON	BOLE NORTH REPEATER	149,228	149,228	-	(47,678)	101,550
322	COM	BRI	BRINSMADE	122,277	122,277	-	(39,068)	83,210
323	COM	BSL	BRISTOL	19,704	19,704	-	(6,296)	13,409
324	COM	BRV	BRUNSVILLE REPEATER	92,595	92,595	-	(29,584)	63,011
325	COM	BFF	BUFFALO	107,342	107,342	-	(34,296)	73,046
326	COM	CAH	CAHOON	199,392	199,392	-	(63,706)	135,686
327	COM	CAZ	CARRINGTON REPEATER	703,661	703,661	-	(224,820)	478,841
328	COM	CHK	CHARTER OAK REPEATER	37,034	37,034	-	(11,832)	25,201
329	COM	CHI F	CHINOOK (BEFP)	284,048	284,048	-	(90,753)	193,295
330	COM	CHR	CHINOOK REPEATER	17,797	17,797	-	(5,686)	12,111
331	COM	CKR	CLARK MW REPEATER	742,840	742,840	-	(237,337)	505,502
332	COM	CLV	CLEVELAND REPEATER, N.D.	66,872	66,872	-	(21,366)	45,507
333	COM	CMR	COLEMAN REPEATER	105,281	105,281	-	(33,637)	71,644
334	COM	CME	COLOME REPEATER	301,355	301,355	-	(96,283)	205,072
335	COM	CBR	CONRAD BUTTE REPEATER	887,627	887,627	-	(283,597)	604,030
336	COM	CNN	COTTON	1,399	1,399	-	(447)	952
337	COM	CSR	CRESTON REPEATER	21,340	21,340	-	(6,818)	14,522
338	COM	CLR	CROW LAKE REPEATER	251,029	251,029	-	(80,204)	170,825
339	COM	CBT	CROWN BUTTE	52,565	52,565	-	(16,795)	35,770
340	COM	CRR	CULBERTSON RADIO RELAY SITE	1,926	1,926	-	(615)	1,311
341	COM	CQR	CULBERSTON REPEATER	31,102	31,102	-	(9,937)	21,165
342	COM	CUL	CUSTER LOOKOUT	84,854	84,854	-	(27,111)	57,743
343	COM	DAL	DALTON (WES)	63,660	63,660	-	(20,339)	43,321
344	COM	DLC	DEVILS LAKE FIBER REGEN	257,505	257,505	-	(82,273)	175,232
345	COM	DLZ	DEVILS LAKE REPEATER	530,315	530,315	-	(169,436)	360,879
346	COM	DOD	DODSON REPEATER	882,795	882,795	-	(282,053)	600,742

347	COM	DO	DOGDEN BUTTE	403,352	403,352	-	(128,871)	274,481
348	COM	DRS	DRISCOLL	79,113	79,113	-	(25,277)	53,837
349	COM	DU	DUPREE REPEATER	1,821	1,821	-	(582)	1,239
350	COM	DUT	DUTTON REPEATER (BEFP)	79,275	79,275	-	(25,328)	53,946
351	COM	ERB	EAST RAINY BUTTE	151,425	151,425	-	(48,380)	103,045
352	COM	ECK	ECKELSON	240,324	240,324	-	(76,783)	163,540
353	COM	EKR	ELKTON	211,379	211,379	-	(67,536)	143,844
354	COM	ELZ	ELLENDALE REPEATER	814,135	814,135	-	(260,116)	554,019
355	COM	EWA	ELLSWORTH AIR BASE	200,661	200,661	-	(64,111)	136,550
356	COM	ERH	ERHARD	99,569	99,569	-	(31,812)	67,757
357	COM	EX	EXIRA REPEATER	2,527	2,527	-	(807)	1,720
358	COM	FB	F. L. BLAIR	76,407	76,407	-	(24,412)	51,995
359	COM	FAP	FAIRPOINT REPEATER	206,550	206,550	-	(65,993)	140,557
360	COM	FNR	FALLON REPEATER	211,743	211,743	-	(67,652)	144,091
361	COM	FAC	FARGO MICROWAVE	109,866	109,866	-	(35,102)	74,764
362	COM	FCS	FERGUS FALLS COMMUNICATIONS SITE	498,567	498,567	-	(159,292)	339,275
363	COM	FLW	FLOWING WELLS	68,763	68,763	-	(21,970)	46,793
364	COM	FBS	FORBES COMMUNICATION SITE	70,575	70,575	-	(22,549)	48,026
365	COM	FTH	FORSYTH	132,263	132,263	-	(42,258)	90,005
366	COM	FP1	FORT PECK RELAY (WES)	97,512	97,512	-	(31,155)	66,357
367	COM	FPC	FORT PECK COMMUNICATIONS BUILDING	423,028	423,028	-	(135,158)	287,871
368	COM	FPR	FORT PECK REPEATER	105,589	105,589	-	(33,736)	71,853
369	COM	FPI	FORT PIERRE POLE YARD	785,698	785,698	-	(251,031)	534,668
370	COM	FTR	FORT THOMPSON REPEATER	99,223	99,223	-	(31,702)	67,521
371	COM	FTP	FORT THOMPSON REPEATER (EAST RIVER)	301,614	301,614	-	(96,366)	205,248
372	COM	FCR	FOX CREEK MICROWAVE	423,094	423,094	-	(135,179)	287,915
373	COM	FRY	FRYBURG SUB & MICROWAVE	61,204	61,204	-	(19,555)	41,649
374	COM	GA	GARRISON	303,954	303,954	-	(97,113)	206,841
375	COM	GRR	GARY REPEATER	80,799	80,799	-	(25,815)	54,983
376	COM	GP	GAVIN'S POINT	148,752	148,752	-	(47,526)	101,226
377	COM	GPR	GAVINS POINT REPEATER	325,520	325,520	-	(104,004)	221,516
378	COM	GET	GETTYSBURG REPEATER	378,095	378,095	-	(120,801)	257,294
379	COM	GH	GLENHAM	272,857	272,857	-	(87,178)	185,679
380	COM	GKM	GRAND FORKS MINNKOTA (MPC)	23,847	23,847	-	(7,619)	16,228
381	COM	GWN	GWINNER COMMUNICATIONS SITE	736,184	736,184	-	(235,211)	500,974
382	COM	HSB	HAILSTONE BUTTE	78,926	78,926	-	(25,217)	53,709
383	COM	HOY	HALLOWAY REPEATER	109,706	109,706	-	(35,051)	74,655
384	COM	HRT	HARLEM REPEATER	882,588	882,588	-	(281,987)	600,601
385	COM	HTH	HATHAWAY	68,891	68,891	-	(22,011)	46,880
386	COM	HMW	HERMOSA MICROWAVE	302,701	302,701	-	(96,713)	205,988
387	COM	HLR	HIGHLAND REPEATER	22,884	22,884	-	(7,311)	15,572
388	COM	HMR	HIGHMORE REPEATER	157,601	157,601	-	(50,354)	107,248
389	COM	HIW	HIGHWOOD	22,896	22,896	-	(7,315)	15,581
390	COM	HI	HINSDALE	201,837	201,837	-	(64,487)	137,350
391	COM	HIR	HINSDALE REPEATER	85,068	85,068	-	(27,179)	57,889
392	COM	HOE	HOPEWELL REPEATER	273,932	273,932	-	(87,521)	186,411
393	COM	HNT	HUNTER MICROWAVE	210,227	210,227	-	(67,168)	143,060
394	COM	HUD	HURON DISTRICT OFFICE	780,865	780,865	-	(249,486)	531,379
395	COM	HYS	HYSHAM	90,227	90,227	-	(28,827)	61,399
396	COM	JTR	JAMESTOWN REPEATER	46,981	46,981	-	(15,011)	31,971
397	COM	JCK	JONES CREEK	267,395	267,395	-	(85,433)	181,962



398	COM	KCK	KELLY CREEK	206,813	206,813	-	(66,077)	140,736
399	COM	KDZ	KILLDEER REPEATER	543,500	543,500	-	(173,648)	369,852
400	COM	KNE	KNEE HILL MW	941,914	941,914	-	(300,941)	640,972
401	COM	LAC	LAC QUI PARLE	759,357	759,357	-	(242,615)	516,743
402	COM	LKR	LAKE ANDES REPEATER	735,971	735,971	-	(235,143)	500,828
403	COM	LEF	LEFOR	48,470	48,470	-	(15,486)	32,984
404	COM	LI	LINDSAY RIDGE	64,370	64,370	-	(20,566)	43,804
405	COM	LCS	LINTON COMMUNICATIONS SITE	330,604	330,604	-	(105,628)	224,976
406	COM	LMO	LITTLE MISSOURI SUBSTATION	54,516	54,516	-	(17,418)	37,098
407	COM	LDP	LODGEPOLE REPEATER	32,445	32,445	-	(10,366)	22,079
408	COM	MRP	MALTA REPEATER	794,469	794,469	-	(253,833)	540,636
409	COM	MNM	MANDAN MICROWAVE SITE	69,988	69,988	-	(22,361)	47,627
410	COM	MPR	MAPLE RIVER	172,792	172,792	-	(55,207)	117,585
411	COM	MRR	MARTIN REPEATER	291,094	291,094	-	(93,005)	198,089
412	COM	MAV	MAYVILLE	187,939	187,939	-	(60,046)	127,892
413	COM	MLR	MIDLAND REPEATER	542,296	542,296	-	(173,264)	369,033
414	COM	MOX	MOE REPEATER	15,012	15,012	-	(4,796)	10,215
415	COM	MH	MOORHEAD	125,057	125,057	-	(39,956)	85,101
416	COM	MSR	MORRIS REPEATER & MICROWAVE	133,451	133,451	-	(42,637)	90,813
417	COM	NWC	NEWCASTLE REPEATER	216,330	216,330	-	(69,117)	147,213
418	COM	OA	OAHE	577,874	577,874	-	(184,631)	393,243
419	COM	OK	O'KREEK REPEATER	373,459	373,459	-	(119,320)	254,139
420	COM	OR	ORCHARD REPEATER	2,626,362	2,626,362	-	(839,123)	1,787,239
421	COM	OTO	OTO MICROWAVE	16,445	16,445	-	(5,254)	11,191
422	COM	OTW	OTTUMWA ROAD REPEATER SITE	7,685	7,685	-	(2,455)	5,229
423	COM	PGE	PAGE N.D.	1,646	1,646	-	(526)	1,120
424	COM	PAH	PAHOJA SUB	107,003	107,003	-	(34,187)	72,816
425	COM	PEK	PEAK	92,751	92,751	-	(29,634)	63,117
426	COM	PLJ	PHILIP JCT. REPEATER	636,441	636,441	-	(203,343)	433,098
427	COM	PKT	PICKERT MINNKOTA (MPC)	17,849	17,849	-	(5,703)	12,147
428	COM	PIR	PINE RIDGE	190,891	190,891	-	(60,990)	129,901
429	COM	PO	POPLAR (MDU)	371,733	371,733	-	(118,769)	252,964
430	COM	PRR	PRIMGHAR REPEATER	37,178	37,178	-	(11,878)	25,299
431	COM	PUR	PUKWANNA REPEATER	4,772	4,772	-	(1,525)	3,247
432	COM	RCR	RAPID CITY REPEATER	428,660	428,660	-	(136,957)	291,703
433	COM	RE	RICHARDSON COULEE	161,748	161,748	-	(51,679)	110,070
434	COM	RER	RICHARDSON COULEE REPEATER	166,315	166,315	-	(53,138)	113,177
435	COM	RHM	RICHLAND MW REPEATER (BEPS)	267,563	267,563	-	(85,487)	182,077
436	COM	RRR	ROCKY RIDGE REPEATER	226,934	226,934	-	(72,505)	154,428
437	COM	ROG	ROLLAG	83,270	83,270	-	(26,605)	56,665
438	COM	RGZ	RUGBY REPEATER	396,627	396,627	-	(126,722)	269,905
439	COM	RI	RUTLAND	1,122,799	1,122,799	-	(358,734)	764,064
440	COM	SAO	SACO	1,237	1,237	-	(395)	842
441	COM	SNB	SENTINEL BUTTE	92,148	92,148	-	(29,441)	62,707
442	COM	SRE	SHEEP COULEE REPEATER	933,275	933,275	-	(298,181)	635,093
443	COM	SCQ	SIOUX CITY REPEATER	457,086	457,086	-	(146,039)	311,047
444	COM	SFR	SIOUX FALLS REPEATER	344,683	344,683	-	(110,126)	234,557
445	COM	SI	SIOUX PASS	1,366	1,366	-	(436)	930
446	COM	SNA	SNAKE BUTTE REPEATER	541,759	541,759	-	(173,092)	368,667
447	COM	SPN	SPALDING REPEATER	534,311	534,311	-	(170,712)	363,599
448	COM	SM	SPIRIT MOUND	295,982	295,982	-	(94,566)	201,416

449	COM	STR	STRASBERG	1,853	1,853	-	(592)	1,261
450	COM	SMR	SUMMIT REPEATER	50,053	50,053	-	(15,992)	34,061
451	COM	TCS	TAPPEN COMMUNICATIONS SITE	478,072	478,072	-	(152,744)	325,328
452	COM	TA	TAPPEN REPEATER	461,151	461,151	-	(147,338)	313,813
453	COM	TEN	TENNANT COMMUNICATIONS SITE	8,782	8,782	-	(2,806)	5,976
454	COM	TOR	TORONTO REPEATER	106,096	106,096	-	(33,898)	72,198
455	COM	TFR	TRIPP REPEATER	216,887	216,887	-	(69,295)	147,592
456	COM	TU	TURKEY RIDGE REPEATER	588,190	588,190	-	(187,927)	400,263
457	COM	TYE	TYLER REPEATER	1,242,428	1,242,428	-	(396,956)	845,472
458	COM	VIC	VICTOR (EREC)	228,059	228,059	-	(72,865)	155,194
459	COM	VIA	VIDA	102,031	102,031	-	(32,599)	69,432
460	COM	WLR	WALL REPEATER	543,452	543,452	-	(173,633)	369,819
461	COM	WTR	WATERTOWN REPEATER	729,389	729,389	-	(233,040)	496,349
462	COM	WS	WAYSIDE	17,781	17,781	-	(5,681)	12,100
463	COM	WSR	WESSINGTON SPGS. REPEATER	690,356	690,356	-	(220,569)	469,787
464	COM	WEF	WESTFIELD	25,198	25,198	-	(8,051)	17,147
465	COM	WSW	WHITE SWAN	91,987	91,987	-	(29,390)	62,597
466	COM	WK C	WHITLOCK (BCPS)	165,594	165,594	-	(52,907)	112,687
467	COM	WRP	WILLISTON REPEATER	19,230	19,230	-	(6,144)	13,086
468	COM	WOB	WOLBACH REPEATER	28,280	28,280	-	(9,035)	19,244
469	COM	YT P	YELLOWTAIL SWITCHYARD (BEPS)	223,367	223,367	-	(71,366)	152,001
470	<b>COM Total</b>		<b>COMMUNICATION FACILITIES</b>	<b>44,328,610</b>	<b>-</b>	<b>44,328,610</b>	<b>(14,248,703)</b>	<b>30,079,907</b>
471	MCCS	MC4	MILES CITY CONVERTER STATION - BEPS	19,890,752	19,890,752	-	-	19,890,752
472	MCCS	MC4	MILES CITY CONVERTER STATION - BEFP	3,680,369	3,680,369	-	-	3,680,369
473	<b>MCCS Total</b>		<b>MILES CITY CONVERTER STATION</b>	<b>23,571,121</b>	<b>-</b>	<b>23,571,121</b>	<b>-</b>	<b>23,571,121</b>
474	DIST	BFTBP	BUFORD TRENTON TAP - BUFORD TRENTON P.P.	650,001	650,001	(650,001)	-	(0)
475	DIST	BP	BUFORD TRENTON PUMP SUB	184,827	184,827	(184,827)	-	0
476	DIST	FN	FALLON PUMPING PLANT SUBS	223,594	223,594	(223,594)	-	0
477	DIST	FE	FALLON RELIFT PUMPING PLA	171,257	171,257	(171,257)	-	(0)
478	DIST	FN GG	FALLON-GLENDIVE PUMP #4	25,506	25,506	(25,506)	-	(0)
479	DIST	FP WP	FORT PECK-WOLF POINT	485,722	485,722	(485,722)	-	0
480	DIST	FG	FRAZER PUMP SUB	253,597	253,597	(253,597)	-	0
481	DIST	GA SK	GARRISON-SNAKE CREEK	1,079,092	1,079,092	(1,079,092)	-	(0)
482	DIST	GG	GLENDIVE P.P. #1 SUB.	425,706	425,706	(425,706)	-	0
483	DIST	IN	INTAKE SUBSTATION	108,040	108,040	(108,040)	-	0
484	DIST	IN INP	INTAKE-INTAKE PUMP	6,494	6,494	(6,494)	-	-
485	DIST	SV	SAVAGE PUMPING PLANT SUBS	102,283	102,283	(102,283)	-	(0)
486	DIST	SY	SHIRLEY PUMP SUBSTATION	1,237,730	1,237,730	(1,237,730)	-	0
487	DIST	SK	SNAKE CREEK PUMP SUBSTATION	920,941	920,941	(920,941)	-	0
488	DIST	TE	TERRY PUMPING PLANT SWITCH	474,404	474,404	(474,404)	-	(0)
489	DIST	TI	TIBER DAM SUBSTATION	659,368	659,368	(659,368)	-	0
490	DIST	VA	WIOTA SUBSTATION	216,163	216,163	(216,163)	-	(0)
491	<b>DIST Total</b>		<b>DISTRIBUTION FACILITIES</b>	<b>7,224,725</b>	<b>-</b>	<b>7,224,725</b>	<b>(7,224,725)</b>	<b>0</b>
492	RMR	NU SG	NEW UNDERWOOD-STEGALL	287,835	287,835	-	-	287,835
493	RMR	SG	STEGALL SUBSTATION	12,414,413	12,414,413	(12,111,804)	-	302,609
494	RMR	SG	STEGALL SUBSTATION	226,392	226,392	(226,392)	-	0
495	RMR	SG WY	STEGALL-WAYSIDE	2,978,205	2,978,205	-	-	2,978,205
496	RMR	WY	WAYSIDE	237,296	237,296	-	-	237,296
497	RMR	YT PY	YELLOWTAIL SWITCHYARD-YELLOWTAIL (PPL)	121,495	121,495	(91,121)	-	30,374
498	RMR	PY	YELLOWTAIL (PPL)	692,335	692,335	(519,251)	-	173,084
499	RMR	YT P	YELLOWTAIL SWITCHYARD	13,270,517	13,270,517	(9,952,888)	-	3,317,629

500	RMR	YT	YELLOWTAIL SWITCHYARD (YT)	33,085		33,085	(24,814)		8,271
501	<b>RMR Total</b>		<b>ROCKY MOUNTAIN REGION FACILITIES</b>	<b>30,261,573</b>	-	<b>30,261,573</b>	<b>(22,901,456)</b>	-	<b>7,335,303</b>
502	COE		BIG BEND	2,370,873	63,700	2,434,573	(1,772,523)		662,050
503	COE		FORT PECK	6,186,445	595,000	6,781,445	(933,623)		5,847,822
504	COE		FORT RANDALL	25,114,692	1,911,000	27,025,692	(3,244,666)		23,781,026
505	COE		GARRISON	88,976,669		88,976,669	(45,917,715)		43,058,954
506	COE		GAVINS POINT	11,255,584	342,300	11,597,884	(7,108,375)		4,489,509
507	COE		OAHE	22,940,618	596,400	23,537,018	(3,557,583)		19,979,435
508	<b>COE Total</b>		<b>CORPS OF ENGINEERS FACILITIES</b>	<b>156,844,881</b>	<b>3,508,400</b>	<b>160,353,281</b>	<b>(62,534,485)</b>	-	<b>97,818,796</b>
509	<b>Grand Total</b>		<b>TOTAL FACILITIES</b>	<b>1,675,427,308</b>	<b>54,555,055</b>	<b>1,729,982,363</b>	<b>(139,977,554)</b>	<b>(16,238,045)</b>	<b>(8,512,054)</b>
510			SUBTOTAL WESTERN-UGP ONLY	1,488,320,853	51,046,655	1,539,367,508	(54,541,613)	16,238,045	8,512,054
511	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)								
512	2/ Plant balance does not include facilities included in Zonal and Regional Worksheet, WS7-BPUFac								
513			DISTRIBUTION FACILITIES				117,076,098		1,561,488,056













457	GARRISON-BISMARCK 230KV 1&2		x								
458	GARRISON-JAMESTOWN		x								
459	GARRISON-MALLARD		x								
460	GARRISON-WM. J. NEAL		x								
461	GAVINS POINT-BELDEN		x								
462	GAVINS POINT-SIOUX FALLS		x								
463	GRANITE FALLS- MORRIS		x								
464	GRANITE FALLS-MINNESOTA VALLEY		x								
465	GREAT FALLS-CONRAD	230-kv	x								
466	GREGORY-MISSION		x								
467	GROTON-HURON		x								
468	GROTON-SUMMIT		x								
469	HAVRE-VERONA	161-kv	x								
470	HAVRE-SHELBY#2	115-kv	x								
471	HESKETT-DEVAUL		x								
472	HETTINGER-NEW UNDERWOOD		x								
473	HURON-MT VERNON		x								
474	HURON-WATERTOWN 230KV 1&3		x								
475	JAMESTOWN-EDGELEY		x								
476	JAMESTOWN-FARGO NO. 1		x								
477	JAMESTOWN-FARGO NO. 2		x								
478	JAMESTOWN-GRAND FORKS		x								
479	JAMESTOWN-VALLEY CITY		x								
480	LEEDS-DEVILS LAKE		x								
481	LEEDS-ROLLA		x								
482	MALLARD-RUGBY		x								
483	MARTIN-MISSION		x								
484	MARTIN-PHILIP		x								
485	MAURINE-RAPID CITY		x								
486	MILES CITY-BAKER		x								
487	MILES CITY-CUSTER	230-kv	x								
488	NEW UNDERWOOD-PHILIP		x								
489	NEW UNDERWOOD-RAPID CITY NO. 1		x								
490	NEW UNDERWOOD-RAPID CITY NO. 2		x								
491	NEW UNDERWOOD-STE GALL (HURON)		x								
492	OAHE-FORT THOMPSON 230KV 1&2		x								
493	OAHE-FORT THOMPSON 230KV 3&4		x								
494	OAHE-GLENHAM		x								
495	OAHE MAURINE		x								
496	OAHE-NEW UNDERWOOD		x								
497	OAHE-PIERRE		x								
498	O'FALLON CREEK-MILES CITY		x								
499	PIERRE-PHILIP		x								
500	RAPID CITY-DRY CREEK		x								
501	RAPID CITY-ELK CREEK 115-kv T/L		x								
502	RUGBY-LEEDS		x								
503	SIOUX CITY-DENISON		x								
504	SIOUX CITY-SPENCER		x								
505	SIOUX FALLS- SIOUX CITY		x								
506	SIOUX FALLS-VIRGIL FODNESS 230KV T-LINE		x								
507	SUMMIT-WATERTOWN		x								
508	TIBER TAP-TIBER	115-kv	x	x							
509	UTICA JCT-SIOUX FALLS		x								
510	VALLEY CITY-FORMAN		x								
511	VERONA GREAT FALLS	161-kv	x								
512	VIRGIL FODNESS-UTICA JUNCTION-FT RANDALL/RASMUS		x								
513	WATERTOWN-GRANITE FALLS 1&2		x								
514	WATERTOWN-SIOUX CITY		x								
515	WATFORD CITY-BEULAH		x								
516	WILLISTON-WATFORD CITY		x								
517	WOLF POINT-CIRCLE		x								
518	WM. J. NEAL-RUGBY		x								
519	YELLOWTAIL-CUSTER	230-kv	x								
520	YELLOWTAIL-YELLOWTAIL (PACE)	230-kv, 110 MW Capacity Rights on RMR Line	x								
521											
522	<b>Taps</b>										
523	CCR Charlie Creek	345-kv breakers 4096, 4192 and assoc switches	x								
524	DNT Denbigh Tap	115kv breakers 1362, 1562 and assoc switches	x								
525	ON O'Neill	115-kv inerrupters and switches	x								
526	PET Penn Tap	115-kv switches 176x, 196x	x								
527	PLL Pleasant Lake Tap	115-kv switches 56x, 66x	x								
528	SL Shirley Tap	115-kv switches 561, 560	x								
529	TR Terry Tap	115-kv switches 160, 161, 260, 261, 361	x								
530	TT Tiber Tap	115-kv switches 163, 260, 261, 360, 361	x	x							2 customers from Tiber (Bureau of Reclamation and Tiber LLC)
531	VE Vetal Tap	115-kv switches 16x, 26x, 36x	x								
532											
533	<b>O&amp;M Service &amp; Maintenance Centers</b>										
534	ARMOUR O&M SER. CEN.							x			
535	BISMARCK O&M SER. CEN.							x			
536	DAWSON SER. CEN.							x			
537	DEVILS LAKE O&M SER. CEN.							x			
538	FARGO LINE MAINTENANCE FACILITY							x			
539	FARGO O&M SER. CEN.							x			
540	FORT PECK SER. CEN.							x			
541	FORT THOMPSON O&M S. C.							x			
542	HAVRE SERVICE CENTER							x			
543	HURON O&M SER. CEN.							x			

544	JAMESTOWN O&M SER. CEN.			x					
545	MILES CITY MTCE FAC.			x					
546	MILES CITY MTCE FAC.			x					
547	NEW UNDERWOOD SER. CEN.			x					
548	PHILIP O&M SER. CEN.			x					
549	PIERRE O&M SER. CEN.			x					
550	RAPID CITY GARAGE & STOR.			x					
551	SIOUX CITY O&M SER. CEN.			x					
552	SIOUX FALLS O&M SER. CEN.			x					
553	WATERTOWN MAINT. CEN.			x					
554									
555	<b>Operation Centers</b>								
556	WATERTOWN ALTERNATE OPERATIONS CENTER			x					
557	WATERTOWN OPERATIONS CENT			x					
558	WATERTOWN OPER CTR (BFPS)			x					
559									
560	<b>Mobile Equipment</b>								
561	MOB 115KV SWITCH TRAILER		x						
562	MOB 115KV SWITCH TRAILER		x						
563	MOB TRANSF 111KV 15MVA		x						
564	MOB TRANSF 115KV 10MVA		x						
565	MOB TRANSF 115KV 10MVA		x						
566	MOB TRANSF 115KV 25MVA		x						
567	MOB TRANSF 115KV 40MVA		x						
568	MOB TRANSF 230KV 1-33MVA		x						
569	MOBILE BY PASS KIT (BISMARCK)		x						
570	MOBILE BY PASS KIT (HURON)		x						
571	MOBILE CAPACITOR BANK		x						
572	MOBILE SUB 110KV		x						
573	MOBILE SUB 115KV 20MVA		x						
574	MOBILE SUB 41.8 KV		x						
575	MOBILE SUB 69KV		x						
576	MOB SH.REACTOR		x						
577									
578	<b>Transmission-Related Generation Facilities</b>								
579	FORT THOMPSON-BIG BEND NO. 1		x						
580	FORT THOMPSON-BIG BEND NO. 2		x						
581									
582	<b>Communication Facilities</b>								
583	ANITA	SCADA		x					
584	AB ASSINIBOINE	meters for NWMT NITS from Havre		x					
585	BAKER	microwave, RTU		x					
586	ATLANTIC COMMUNICATION SITE			x					
587	BAKER RELAY			x					
588	BANTRY			x					
589	BARRETT			x					
590	BATTLE MT. MICROWAVE			x					
591	BELLE PRAIRIE			x					
592	BENEDICT			x					
593	BELULAH			x					
594	BIG BEND			x					
595	BIJOU REPEATER			x					
596	BISMARCK REPEATER			x					
597	BI Bison	microwave alarm system		x					
598	BISON REPEATER			x					
599	BOLE NORTH REPEATER			x					
600	BRINSMAD			x					
601	BRISTOL			x					
602	BRUNSVILLE REPEATER			x					
603	BUFFALO			x					
604	CAHOON			x					
605	CARRINGTON REPEATER			x					
606	CHARTER OAK REPEATER			x					
607	CHINOOK (BEFP)			x					
608	CHINOOK REPEATER			x					
609	CLARK MW REPEATER			x					
610	CLEVELAND REPEATER, N.D.			x					
611	COLEMAN REPEATER			x					
612	COLOME REPEATER			x					
613	CONRAD BUTTE REPEATER			x					
614	COTTON	meters for Central MT (Basin NITS)		x					
615	CRESTON REPEATER			x					
616	CROW LAKE REPEATER			x					
617	CROWN BUTTE			x					
618	CULBERTSON RADIO RELAY SITE			x					
619	CUSTER LOOKOUT			x					
620	DALTON (WES)			x					
621	DEVILS LAKE FIBER REGEN			x					
622	DEVILS LAKE REPEATER			x					
623	DICKINSON	communications equipment		x					
624	DODSON REPEATER			x					
625	DOGDEN BUTTE			x					
626	DRISCOLL			x					
627	DUPREE REPEATER			x					
628	DUTTON REPEATER (BEFP)			x					
629	EAGLE	microwave, RTU, SCADA		x					
630	EAST RAINY BUTTE			x					
631	ECKELSON			x					
632	E. J. MANNING	fiber, microwave, SCADA		x					
633	ELKTON			x					
634	ELLENDALE REPEATER			x					
635	ELLSWORTH AIR BASE			x					
636	ERHARD			x					
637	EXIRA REPEATER			x					
638	F. L. BLAIR			x					

639	FAIRPOINT REPEATER					x							
640	FALLON REPEATER					x							
641	FERGUS FALLS COMMUNICATIONS SITE					x							
642	FLOWING WELLS					x							
643	FORBES COMMUNICATION SITE					x							
644	FORSYTH radio, quarters, fence					x							
645	FORT PECK RELAY (WES)					x							
646	FORT PECK COMMUNICATIONS BUILDING					x							
647	FORT PECK REPEATER					x							
648	FR Fort Randall Multiplexer, Termination Equipment					x							
649	FORT THOMPSON REPEATER					x							
650	FORT THOMPSON REPEATER (EAST RIVER)					x							
651	FOX CREEK MICROWAVE					x							
652	FRYBURG SUB & MICROWAVE					x							
653	GARRISON					x							
654	GARY REPEATER					x							
655	GAVIN'S POINT					x							
656	GAVINS POINT REPEATER					x							
657	GETTYSBURG REPEATER					x							
658	GLENHAM					x							
659	GRAND FORKS MINNKOTA (MPC)					x							
660	HAILSTONE BUTTE					x							
661	HALLOWAY REPEATER					x							
662	HARLEM microwave, RTU					x							
663	HARLEM REPEATER					x							
664	HATHAWAY					x							
665	HERMOSA MICROWAVE					x							
666	HETTINGER RTU, PTs					x							
667	HIGHLAND REPEATER					x							
668	HIGHMORE REPEATER					x							
669	HIGHWOOD meters NWMT NITS from Great Falls					x							
670	HINSDALE					x							
671	HINSDALE REPEATER					x							
672	HOPEWELL REPEATER					x							
673	HUNTER MICROWAVE					x							
674	HURON DISTRICT OFFICE					x							
675	HYSHAM					x							
676	JAMESTOWN REPEATER					x							
677	JONES CREEK					x							
678	KELLY CREEK					x							
679	KILLDEER REPEATER					x							
680	KNEE HILL MW					x							
681	LAC QUI PARLE					x							
682	LAKE ANDES REPEATER					x							
683	LEFOR					x							
684	LINDSAY RIDGE					x							
685	LINTON COMMUNICATIONS SITE					x							
686	LITTLE MISSOURI SUBSTATION					x							
687	LODGEPOLE REPEATER					x							
688	MALLARD RTU, SCADA					x							
689	MALTA microwave, RTU					x							
690	MALTA REPEATER					x							
691	MDN Mandan multiplexer					x							
692	MANDAN MICROWAVE SITE					x							
693	MAPLE RIVER					x							
694	MARTIN REPEATER					x							
695	MAYVILLE					x							
696	MIDLAND REPEATER					x							
697	MILES CITY SUB (BEFP)					x							
698	MOE REPEATER					x							
699	MOORHEAD					x							
700	MORRIS REPEATER & MICROWAVE					x							
701	NEWCASTLE REPEATER					x							
702	OAHE					x							
703	O'KREEK REPEATER					x							
704	ORCHARD REPEATER					x							
705	OTO MICROWAVE					x							
706	OTTUMWA ROAD REPEATER SITE					x							
707	PAGE N.D.					x							
708	PAHOJA SUB					x							
709	PEAK					x							
710	PHILIP JCT. REPEATER					x							
711	PINE RIDGE					x							
712	POPLAR (MDU) antenna, meters for MDU					x							
713	PRIMGHAR REPEATER					x							
714	PUKWANNA REPEATER					x							
715	RAPID CITY REPEATER					x							
716	RICHARDSON COULEE					x							
717	RICHARDSON COULEE REPEATER					x							
718	RICHLAND MW REPEATER (BEPS)					x							
719	ROCKY RIDGE REPEATER					x							
720	ROLLAG					x							
721	RUGBY REPEATER					x							
722	RUTLAND					x							
723	SACO					x							
724	SA SAVAGE land, steel structure, meter equipment					x							
725	SENTINEL BUTTE					x							
726	SHEEP COULEE REPEATER					x							
727	SIOUX CITY REPEATER					x							
728	SIOUX FALLS REPEATER					x							
729	SIOUX PASS					x							
730	SNAKE BUTTE REPEATER					x							
731	SPALDING REPEATER					x							



Line No.	FID	Facility	Specific Plant NOT Included	Further Description
1		<b>Substations</b>		
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			115-kV breaker and assoc. switches	
10			12.47-kV switch 821, 823, 829	City of Beresford
11	BG	Big Bend	230-kV interrupters 1081, 2081, 2081, 4081 and assoc switches	
12	BB	Bisbee	69/12.5-kV transformer KZ1A and switch 145	
13			12.5-kV breaker 124 and assoc. switches	CPEC
14	B5	Bismarck	115-kV breaker 3462 and assoc. switches	Capitol Electric
15			12.5-kV switches 1527, 1529	USBR
16	BOL	Bole	69-kV breaker 1452 and 1252 and assoc. switches	NWMT
17	BO	Bonesteel	115-kV breaker 362 and assoc. switches	
18			115/12.47-kV transformer KY1A	
19			12.47-kV breaker 1422 and assoc. switches	Rosebud Electric
20	BFT	Buford Trenton Tap	All Not Included	
21	BP	Buford Trenton Pumping	All Not Included	
22	CA	Carrington	115-kV interrupter 162	protection for non-included transformer (transformer not owned by Western)
23			41.8-kV breakers 142, 242, 342, 442, 542, 642, 842 and assoc. switches	Otter Tail and CPE
24	CR	Circle	115-kV breaker 1162 and assoc. switches	Keystone
25			115-kV breaker 1262, 1362 and assoc. switches	McCone
26			115/34.5-kV transformer KY12A	
27			34.5-kV breaker 142 and assoc. switches	McCone
28	CON	Conrad	115-kV breaker 1062 and assoc. switches	Sun River
29	CU	Custer	69-kV breakers 2252, 2352 and assoc. switches	Yellowstone Valley and Mid-Yellowstone
30	CT	Custer Trail	All Not Included	
31	DC	Dawson County	115-kV switch 1061	protection for non-included transformer (transformer not owned by Western)
32	DNT	Denbigh Tap	Switches 1460, 1461	
33	DN	Denison	69-kV breaker 2552 and assoc. switches	City of Denison
34	DV	Devaul	All Not Included	
35	DL	Devils Lake	41.8-kV breaker 1442 and assoc. switches	Otter Tail normally open-emergency tie
36			12.5-kV breaker 1122 and assoc. switches	Minnesota
37	EB	Eagle Butte	115/69-kV transformer KY1A and 115-kV interrupter 762	
38			69-kV breaker 1752 and assoc. switches	Moreau Grand
39	ED	Edgeley	115/41.8-kV transformer KY2A	
40			115-kV breaker 362	
41			41.8-kV breaker 2342 and assoc. switches	Otter Tail
42			69-kV breaker 1252 and assoc. switches	
43	ELC	Elk Creek	115-kV ground switch 1160	
44	ELI	Elliot	115-kV interrupter 2063 and assoc. switches, 115-kV switch 369	
45	END	Enderlin Tap	Interrupter 1862 and assoc. switches	
46	EXI	Exira	Switches 169, 369, 569	Generator Lead
47	FH	Faith	115/12.47-kV transformer KY1A and 115-kV interrupter 362	
48			12.47-kV breaker 1022 and assoc. switches	City of Faith
49	FN	Fallon Pumping	All Not Included	
50	FE	Fallon Relift	All Not Included	
51	FL	Flandreau	12.47-kV switches 3121, 3122, 3123, 3129, 3223	City of Flandreau
52	FO	Forman	69-kV breaker 452 and assoc. switches	
53			69/41.8-kV transformer KZ3A and 69-kV switches 353, 355	
54			115-kV breaker 1662 and assoc. switches	Otter Tail
55			41.8-kV breaker 2142 and assoc. switches	
56			41.8/12.5-kV transformer KX6A and switch 1443	Dakota Valley
57			12.5-kV breaker 2222 and assoc. switches	
58	FR	Fort Randall	115-kV breaker 962 and assoc. switches	
59	FT	Fort Thompson	69-kV breaker 4452 and assoc. switches	West Central
60	FG	Frazier Pumping	All Not Included	
61	GA	Garrison	115-kV breakers 462, 562 and assoc switches	generator leads
62	GP	Gavins Point	115-kV breakers 162, 262, 362 and assoc. switches	generator leads
63	GGT	Glendive Pumping No. 1 Tap	All Not Included	
64	GG	Glendive Pumping No. 1	All Not Included	
65	GF	Granite Falls	69-kV breakers 4352, 4452, 4552, 4652 and assoc. switches	GRE normally open and Minn. Valley
66			115/69-kV transformer KY2A	
67			115-kV breaker 2862, 3262 and assoc. switches	
68	GY	Gregory	115-kV Disconnect Switch 463	protection for non-included transformer (transformer not owned by Western)
69			12.47-kV breaker 422 and assoc. switches	
70	GR	Groton	69-kV breaker 1552 and assoc. switches	East River
71	HV	Havre	12.5-kV breaker 822 and assoc. switches	Hill County
72	HBN	Hebron	230-kV switches 989 and 589	
73	HLK	Hilken	take-off structure to Baldwin Wind	generator lead
74	HU	Huron	115-kV switches 1261, 1265	
75			115/69-kV transformer KY1A	
76			69-kV breakers 1952, 2052 and assoc. switches	East River
77	IN	Intake	All Not Included	
78	INP	Intake Pumping	All Not Included	
79	JT	Jamestown	115/41.8-kV transformers KY1A and KY2A	
80			115-kV breaker 662 and assoc. switches	
81			41.8-kV breaker 1142 and assoc. switches	Otter Tail, Normally Open - emergency tie
82			12.47-kV breaker 1522, 1722 and assoc. switches	
83	KD	Killdeer	115/41.8-kV transformer KY4A and switch 469	
84			41.8-kV breaker 442, 642 and switches 343, 345	MDU and Upper Mo.
85	LA	Lakota	12.5-kV breaker 1022 and assoc. switches	City of Lakota
86			69-kV breaker 152 and assoc. switches	
87			115/69-kV transformer KY1A, switches 362, 363	
88	LE	Leeds	69/12.5-kV transformer KZ3A and switch 645	
89			12.5-kV breaker 624 and assoc. switches	CPEC
90	MR	Martin	115/34.5-kV transformer KX14A	
91			115 kV breaker 1962 and assoc switches	
92	MA	Maurine	115/69-kV transformer KY1A and switches 1263, 1265	
93			115-kV breaker 1762	
94			69-kV breaker 2252 and assoc. switches	Grand Electric
95	MD	Midland	Capacity Rights in 115/69 kV Transformer KY1A	
96	MS	Mission	115/24.9-kV transformer KY1A and interrupter 362	Cherry-Todd
97	MO	Morris	41.8-kV breakers 3132, 3232, 3332 and assoc switches	
98			115/41.8-kV transformer KY3A	
99			115-kV breaker 1362 and assoc switches	
100	MV	Mount Vernon	69-kV breaker 1852 and assoc. switches	East River
101	NAT	Nashua Tap	All Not Included	
102	NEL	Nelson Tap	Switch 1861	
103	NL	Newell	69-kV breakers 2252, 2452 and assoc. switches	Rushmore
104	NU	New Underwood	13.8 kV interrupter 4423 and assoc. switch	
105			115-kV bay for solar project	
106	OA	Oahe	230-kV breakers 2882, 2482, 2486, 2082, 1162 and assoc. switches	generator lead

107			115-kV breaker 1162 and assoc. switches	generator lead
108	OF	O'Fallon Creek	12.47-kV breaker 522 and assoc. switches and equipment	MDU
109	PET	Penn Tap	Switches 1860, 1861	
110	PL	Philip	115/69-kV transformer KY1A and switches 1963	
111			69-kV breaker 2152 and assoc. switches	West Central
112	PI	Pierre	115/12.47-kV transformer KY1A and 115-kV interrupter 762	
113			12.47-kV breakers 2212, 2312, 2412 and assoc. switches	City of Pierre
114	PLL	Pleasant Lake Tap	Switched 760, 761	
115	RC	Rapid City	115/12.47-kV transformer KY1A	
116	RH	Richland	All Not Included	
117	RY	Rudyard	115/69/12.5-kV transformer KY1A and interrupter 362	
118			69-kV breaker 752 and assoc. switches	Hill County
119			12.5-kV breaker 422 and assoc. switches	Hill County
120	RG	Rugby	115/41.8-kV transformer KY1A and breaker 1162 and assoc. switches	
121			41.8-kV breaker 2142 and assoc. switches	Otter Tail
122	SV	Savage Pumping	All Not Included	
123	SH2	Shelby	All Not Included	
124	SH2	Shelby 2	115-kV breaker 1162 and assoc. switches	to Shelby
125	SY	Shirley Pumping	All Not Included	
126	SF	Sioux Falls	115-kV breaker 862 and assoc. switches	East River
127			69-kV breaker 1552 and assoc. switches	East River
128	SP	Spencer	69-kV breaker 1642 and assoc. switches	City of Spencer
129	SU	Summit	41.8-kV breakers 2142, 2242 and assoc. switches	
130			115/41.8-kV transformer KY1B	
131			115-kV interrupter 862 and switch 861	
132	TE	Terry Pumping	All Not Included	
133	TR	Terry Tap	115/34.5-kV transformer KY1A and switch 363	
134			34.5-kV breaker 342 and assoc. switches	Buffalo Rapids and MDU
135	TI	Tiber	115/12.5-kV transformer KY1A and breaker 1262	
136			12.5-kV breaker 122 and assoc. switches	USBR
137	TY	Tyndall	69-kV breaker 452 and assoc. switches	East River
138			115-kV interrupter 362	protection for non-included transformer (transformer not owned by Western)
139	VC	Valley City	69-kV breakers 344, 1144 and assoc. switches	City of Valley City
140	WL	Wall	115/12.47-kV transformer KY1B and interrupters 461 and 562	
141			12.47-kV breaker 622 and assoc. switches	West River
142	WNB	Wanblee	Interrupter 462 and assoc. switches	
143	WDD	Ward	230-kV Switch 889	
144	WB	Washburn	230/41.8-kV transformer KU1A and breaker 282	
145			41.8-kV breaker 342 and assoc. switches	Otter Tail - emergency tie
146			41.8 kV breaker 242 and assoc switches	MPC and CPEC Blue Flint
147	WC	Watford City	115-kV interrupter 162	protection for non-included transformer (transformer not owned by Western)
148	WSG	Wessington Springs	230-kV switch 989	generator outlet
149	WH	Whately	69/12.5-kV transformer KYA and switches 253, 257	
150			12.5-kV breaker 224 and assoc. switches	Norval
151	WV	Wicksville	115-kV interrupter 362	protection for non-included transformer (transformer not owned by Western)
152			24.9-kV breaker 1032 and assoc. switches	West River
153	WN	Williston	60-kV breaker 3552 and assoc. switches	MDU non-credited line
154	WN2	Williston 2	115-kV breaker 2562 and assoc. switches	
155	WI	Winner	12.47-kV breakers 2222, 2422, 2523 and assoc. switches	City of Winner and Rosebud Electric
156	VAT	Wiota	All Not Included	
157	VAT	Wiota Tap	All Not Included	
158	WP	Wolf Point	115/34.5-kV transformer KY1A and switches 1963, 1965	
159			34.5-kV breakers 2142, 2242, 2342, 2442 and assoc. switches	MDU and Norval
160			12.5-kV breakers 3222, 3322, 3422 and assoc. switches	Norval and McCone
161	WO	Woonsocket	34.5-kV breakers 442 and 542 and assoc. switches	NWPS and City of Wessington Springs
162			115/69-kV transformer KY1B and 115-kV breaker 862	
163			Mobile Transformer 115/34.5-kV	
164			115-kV interrupters 362 and 862 and assoc. switches, switch M263, M261	
165		<b>Transmission Lines</b>		
166		SHELBY-SHELBY2	115-kV	
167		<b>Corps Switchyard Facilities</b>		
168		Big Bend	230-kV interrupters 1081, 2081, 3081, 4081 and assoc switches	
169		Fort Peck	230-kV interrupters 481, 581 and assoc switches	
170			115-kV switches 861, 961	
171		Fort Randall	115-kV switch 960	
172			230-kV switches 1180, 1280, 1380	
173		Garrison	230-kV breakers 182, 282, 382 and assoc switches	
174			115-kV breakers 462, 561, 1762 and assoc switches	
175			13.8-kV breaker 2722 and assoc switches	
176		Gavins Point	115-kV breakers 162, 262, 362 and assoc. switches	
177		Oahe	115-kV breaker 1162 and assoc. switches	
178			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 Estimate Calculation		<a href="#">(Back to Worksheet Links)</a>
Worksheet 11 - Facility Changes		
12 Months Ending 09/30/2022 ESTIMATE		
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.	
Roberts County	Addition of 115-kV breakers 5456 and 5652 due to East River adding Roberts Co - Britton Line to SPP	
Towner	Customer Funded. 115-kV Bay Addition for CPEC.	
Sulphur	Customer Funded for Wind Project on Newell-Maurine Line, 3 breaker 115-kV ring bus	
Brookings	New breaker and half yard to replace the old main and transfer yard. Planned prior to SPP integration.	
Miles City 2	115 Line Bay for MDU (customer funded) and Cap Bank Addition (20% customer funded)	
Martin	Maintenance replacement of substation equipment. Ownership transfer from LaCreek to WAPA. Facilities already qualified for SPP inclusion.	
Devils Lake	New 115kV Yard, control building, panels, etc.	
Killdeer -Charlie Creek	Line Rebuild. Not a new line but was part of Watford City-Beulah line	
New Underwood	Customer Funded. New 115-kV bay.	
Watertown	230-kV Breaker 1082 replaced and ownership changed to WAPA. Facilities are already included in SPP	
Williston	115-kV Breaker 1162 replaced and ownership changed to WAPA. Facilities are already included in SPP	

Line No.	DESCRIPTION (1)	SSCD (2)	REFERENCE (3)
1	<b>A. Operation and Maintenance Expense (\$)</b>	11,525,595	WS4-CostData (O&M Expenses Worksheet)
2	<b>B. A&amp;G Expense (\$)</b>	237,161	WS4-CostData (A&G Expenses Worksheet)
3	<b>C. Depreciation Expense (\$)</b>	547,903	WS4-CostData (Depreciation Expense Worksheet)
4	<b>D. Taxes Other than Income Taxes for Transmission (\$)</b>	-	Not Applicable
5	<b>E. Allocation of General Plant (\$)</b>	-	No General Plant identified at this time, all plant is identified as either generation or transmission related
6	<b>F. Cost of Capital</b>		
7	Weighted Transmission Composite Interest Rate	4.344%	WS4-CostData (C6 L61)
8	Net Plant Investment (\$)	11,241,553	WS4-CostData (C2 L21)
9	Cost of Capital (\$)	488,306	L7*L8
10	<b>H. Revenue Requirement</b>		
11	Annual Western-UGPR Cost (\$)	12,798,966	L1+L2+L3+L9
12	<b>Estimated SSCD Revenue from non-Transmission facilities (\$)</b>	959,631	L11*L16
13	<b>Prior Year True-Up (\$)</b>	(1,566,266)	Prior year true-up
14	<b>Revenue Requirement for SSCD for Transmission facilities (\$)</b>	10,273,068	L11-L12+L13
15			
16	Ratio for Line 12	7.50%	WS8-TranFac (L513 C4/C7)



WAPA-UGP 2022 Rate Estimate Calculation  
Worksheet 13 - SSCD Facilities  
12 Months Ending 09/30/2022 ESTIMATE

[\(Back to Worksheet Links\)](#)

2022 SPP ESTIMATE SUMMARY		FID	DESCRIPTION	FACILITY TOTALS (\$)	FY2021-22 ESTIMATE ADD/REPL/RETIRE (\$)	ATTACHMENT AI ADJUSTMENTS (\$)	GENERATION ADJUSTMENTS (\$)	FY2022 EST SPP TOTALS (\$)	
	WAO		WATERTOWN ALTERNATE OPERATIONS CENTER	6,046,941	-	0	0	6,046,941	
	WTO		WATERTOWN OPERATIONS CENTER	1,568,214	-	0	(272,719)	1,295,496	
	WTO F		WATERTOWN OPERATIONS CENTER (BFPS)	19,122,264	7,053,192	0	(1,570,068)	17,552,196	
			Subtotal	26,737,419	7,053,192	0	(1,842,786)	24,894,632	
2022 SPP ESTIMATE DETAIL:		FID	DESCRIPTION	ADDITIONAL:	FID COST DETAIL (\$)	SSCD %	SSCD TOTAL (\$)	TRANS %	TRANS TOTAL (\$)
	WAO		IDC	IDC	299	100%	299	100%	299
	WAO		LAND & RIGHTS	LAND & LAND RIGHTS	9,790	100%	9,790	100%	9,790
	WAO		LAND AT KCR	LAND & LAND RIGHTS	1,539	100%	1,539	100%	1,539
	WAO		MICROWAVE TOWER	ANTENNA TOWER	295,486	100%	295,486	100%	295,486
	WAO		IDC	IDC	57,816	100%	57,816	100%	57,816
	WAO		IDC	PLANT NOT CLASSIFIED	5,246	100%	5,246	100%	5,246
	WAO		ANTENNA	PLANT NOT CLASSIFIED	17,480	100%	17,480	100%	17,480
	WAO		MICROWAVE SYSTEM	MICROWAVE SYSTEM	122,582	100%	122,582	100%	122,582
	WAO		MICROWAVE SYSTEM	MICROWAVE SYSTEM	12,407	100%	12,407	100%	12,407
	WAO		SCADA COMMUNICATION EQUIPMENT	SEQUENTIAL EVENT RECORDING SYST	20,217	100%	20,217	100%	20,217
	WAO		INTEREST DURING CONSTRUCTION	IDC	2,475	100%	2,475	100%	2,475
	WAO		FIXED RADIO COMM EQUIPMENT	FIXED RADIO COMM EQUIPMENT	38,408	100%	38,408	100%	38,408
	WAO		LAND & RIGHTS	LAND & LAND RIGHTS	54,138	100%	54,138	100%	54,138
	WAO		BUILDINGS	SERVICE BUILDINGS	531,049	100%	531,049	100%	531,049
	WAO		BUILDINGS	ROOFING	90,309	100%	90,309	100%	90,309
	WAO		OTHER STRUCTURES AND IMPROVEMENTS	OIL STORAGE TANK	54,257	100%	54,257	100%	54,257
	WAO		OTHER STRUCTURES AND IMPROVEMENTS	HEATING	475,746	100%	475,746	100%	475,746
	WAO		STATION EQUIPMENT	AUXILIARY POWER SYSTEM	95,962	100%	95,962	100%	95,962
	WAO		SCADA COMMUNICATION EQUIPMENT	REMOTE TERMINAL UNIT	12,679	100%	12,679	100%	12,679
	WAO		SCADA COMMUNICATION EQUIPMENT	SCADA	1,022,154	100%	1,022,154	100%	1,022,154
	WAO		SCADA COMMUNICATION EQUIPMENT	UNITERRUPTABLE POWER SUPPLY	122,476	100%	122,476	100%	122,476
	WAO		MICROWAVE COMMUNICATION EQUIPMENT	MICROWAVE SYSTEM	733,679	100%	733,679	100%	733,679
	WAO		MICROWAVE COMMUNICATION EQUIPMENT	BATTERY	35,292	100%	35,292	100%	35,292
	WAO		MICROWAVE COMMUNICATION EQUIPMENT	BATTERY CHARGER	13,959	100%	13,959	100%	13,959
	WAO		TELEPHONE COMMUNICATION EQUIPMENT	PLANT COMM SYSTEM	53,112	100%	53,112	100%	53,112
	WAO		FIBER OPTIC EQUIPMENT	FIBER OPTICS EQUIPMENT	184,307	100%	184,307	100%	184,307
	WAO		FIBER OPTIC EQUIPMENT	ADD DROP MULTIPLEXER	97,180	100%	97,180	100%	97,180
	WAO		FIBER OPTIC EQUIPMENT	CABLE TYPE OPGW	28,885	100%	28,885	100%	28,885
	WAO		FIBER OPTIC EQUIPMENT	CHANNEL BANK EQUIPMENT	41,066	100%	41,066	100%	41,066
	WAO		BUILDINGS	SERVICE BUILDINGS	1,320,913	100%	1,320,913	100%	1,320,913
	WAO		IDC	IDC	454,813	100%	454,813	100%	454,813
	WAO		PLANT COMM SYSTEM	PLANT COMM SYSTEM	40,642	100%	40,642	100%	40,642
	WAO		IDC	IDC	577	100%	577	100%	577
			TOTAL		6,046,941		6,046,941		6,046,941
	WTO		AIR CONDITIONER	AIR CONDITIONER	146,013	63.7%	93,011	81.5%	119,001
	WTO		IDC	IDC	10,941	63.7%	6,970	81.5%	8,917
	WTO		ROOFING	ROOFING	676,147	63.7%	430,706	81.5%	551,060
	WTO		GATE	GATE	67,521	63.7%	43,011	81.5%	55,029
	WTO		FENCES	FENCES	573,532	63.7%	365,340	81.5%	467,428
			TOTAL		1,474,154		939,036		1,201,436
	WTO		FIBER OPTICS EQUIPMENT	PLANT COMM SYSTEM	54,317	100%	54,317	100%	54,317
	WTO		IDC	IDC	20,639	100%	20,639	100%	20,639
	WTO		SCADA COMMUNICATION EQUIPMENT	SCADA	6,525	100%	6,525	100%	6,525
	WTO		IDC	IDC	2,414	100%	2,414	100%	2,414
	WTO		SCADA COMMUNICATION EQUIPMENT	SCADA	8,953	100%	8,953	100%	8,953
	WTO		IDC	IDC	1,212	100%	1,212	100%	1,212
			TOTAL		94,060		94,060		94,060
	WTO F		ALCATEL 5620 FIBER TERMINAL EQUIP (PART 2 OF 2)	TERMINATION EQUIPMENT	134,174	100%	134,174	100%	134,174
	WTO F		ADD DROP MULTIPLEXER (PART 2 OF 2)	ADD DROP MULTIPLEXER	59,005	100%	59,005	100%	59,005
	WTO F		POWER SYSTEM DISPATCH CONSOLES	SCADA	119,667	100%	119,667	100%	119,667
	WTO F		MICROWAVE ALARM SYSTEM MASTER STATION	DATA STATION	19,292	100%	19,292	100%	19,292
	WTO F		FIBER OPTIC EQUIPMENT	FIBER OPTICS EQUIPMENT	53,165	100%	53,165	100%	53,165
	WTO F		FIBER OPTIC EQUIPMENT	ADD DROP MULTIPLEXER	307,465	100%	307,465	100%	307,465
	WTO F		FIBER OPTIC EQUIPMENT	TERMINATION EQUIPMENT	12,820	100%	12,820	100%	12,820
	WTO F		FIBER OPTIC EQUIPMENT	CHANNEL BANK EQUIPMENT	415,983	100%	415,983	100%	415,983
	WTO F		IDC	IDC	150,136	100%	150,136	100%	150,136
	WTO F		IDC	IDC	2,533	100%	2,533	100%	2,533
	WTO F		TELEPHONE COMMUNICATION EQUIPMENT	TELEPHONE SYSTEM	31,658	100%	31,658	100%	31,658
	WTO F		MICROWAVE COMMUNICATION EQUIPMENT	MICROWAVE SYSTEM	85,009	100%	85,009	100%	85,009

WTO F	FIBER OPTICS EQUIPMENT	ADD DROP MULTIPLEXER	108,685	100%	108,685	100%	108,685
WTO F	FIBER OPTICS EQUIPMENT	CHANNEL BANK EQUIPMENT	1,934	100%	1,934	100%	1,934
WTO F	FIBER OPTICS EQUIPMENT	FIBER OPTICS EQUIPMENT	38,123	100%	38,123	100%	38,123
WTO F	IDC	IDC	23,486	100%	23,486	100%	23,486
WTO F	MULTIPLEXER EXPANDED CAPABILITY ASSET 166934 - PROJECT WTO 0025C (PART 2)	ADD DROP MULTIPLEXER	25,032	100%	25,032	100%	25,032
WTO F	IDC - ASSET 166934 MULTIPLEXER EXPANSION (PART 2)	IDC	514	100%	514	100%	514
WTO F	IDC	IDC	18,650	100%	18,650	100%	18,650
WTO F	ADD DROP MULTIPLEXER (PART 1 OF 2)	TERMINATION EQUIPMENT	2,850	100%	2,850	100%	2,850
WTO F	ALCATEL 5620 FIBER TERMINAL EQUIP (PART 1 OF 2)	TERMINATION EQUIPMENT	6,625	100%	6,625	100%	6,625
WTO F	VHF RADIO COMPARATOR	FIXED RADIO COMM EQUIPMENT	98,003	100%	98,003	100%	98,003
WTO F	IDC	IDC	3,248	100%	3,248	100%	3,248
WTO F	MICROWAVE COMMUNICATION EQUIPMENT	MICROWAVE SYSTEM	226,333	100%	226,333	100%	226,333
WTO F	IDC	IDC	13,471	100%	13,471	100%	13,471
WTO F	TELEPHONE SYSTEM - 40 CHANNEL RECORDER & CRASH KIT	TELEPHONE SYSTEM	70,115	100%	70,115	100%	70,115
WTO F	INTEREST DURING CONSTRUCTION	IDC	1,421	100%	1,421	100%	1,421
WTO F	VOICE RECORDER SYSTEM	TELEPHONE SYSTEM	61,005	100%	61,005	100%	61,005
WTO F	SCADA SYSTEM HISTORIAN SOFTWARE	SCADA	202,050	100%	202,050	100%	202,050
WTO F	IDC	IDC	6,761	100%	6,761	100%	6,761
WTO F	SCADA	UNITERRUPTABLE POWER SUPPLY	121,027	100%	121,027	100%	121,027
WTO F	IDC	IDC	2,484	100%	2,484	100%	2,484
WTO F	AUX PWR SYS - BACKUP GENERATOR	AUXILIARY POWER SYSTEM	454,504	100%	454,504	100%	454,504
WTO F	IDC	IDC	12,877	100%	12,877	100%	12,877
WTO F	(S) DIGITAL VOICE RECORDERS - WTO F	SCADA	20,217	100%	20,217	100%	20,217
WTO F	IDC	IDC	1,979	100%	1,979	100%	1,979
WTO F	BATTERY BANK FOR UPS	BATTERY	36,320	100%	36,320	100%	36,320
WTO F	IDC	IDC	631	100%	631	100%	631
WTO F	DIGITAL TRANS & REC EQUIP	SCADA	23,847	100%	23,847	100%	23,847
WTO F	FREQUENCY CONTROL ADDITIONS	LOAD AND FREQUENCY CONTROL EQL	57,731	100%	57,731	100%	57,731
WTO F	TELEPHONE COMMUNICATION EQUIPMENT	PLANT COMM SYSTEM	144,190	100%	144,190	100%	144,190
WTO F	PLANT COMM SYSTEM	PLANT COMM SYSTEM	167,020	100%	167,020	100%	167,020
WTO F	IDC	IDC	2,373	100%	2,373	100%	2,373
WTO F	ADD DROP MULTIPLEXER	ADD DROP MULTIPLEXER	267,249	100%	267,249	100%	267,249
WTO F	IDC	IDC	16,354	100%	16,354	100%	16,354
WTO F	TELEPHONE SYSTEM	TELEPHONE SYSTEM	559,892	100%	559,892	100%	559,892
WTO F	IDC	IDC	33,280	100%	33,280	100%	33,280
WTO F	SCADA	SCADA	1,215,754	100%	1,215,754	100%	1,215,754
WTO F	IDC	IDC	15,473	100%	15,473	100%	15,473
WTO F	COMMON SCADA/EMS-UGP	SCADA - ESTIMATE ADDS	5,183,000	100%	5,183,000	100%	5,183,000
	<b>TOTAL</b>		<b>10,635,412</b>		<b>10,635,412</b>		<b>10,635,412</b>
WTO F	WATERTOWN OPERATIONS BUILDING	CONTROL BUILDING	636,802	63.7%	405,643	81.5%	518,994
WTO F	IDC	IDC	3,422	63.7%	2,180	81.5%	2,789
WTO F	RESURFACE PARKING LOT AT WATERTOWN OPS OFFICE	OFFICE BUILDING	152,204	63.7%	96,954	81.5%	124,046
WTO F	WALLS	WALLS	276,284	63.7%	175,993	81.5%	225,171
WTO F	IDC	IDC	2,835	63.7%	1,806	81.5%	2,311
WTO F	MICROWAVE COMMUNICATION EQUIPMENT	SYNC UNIT	20,893	63.7%	13,309	81.5%	17,028
WTO F	MICROWAVE COMMUNICATION EQUIPMENT	REMOTE STATION	20,482	63.7%	13,047	81.5%	16,693
WTO F	IDC	IDC	405,078	63.7%	258,035	81.5%	330,139
WTO F	VEHICLE/STORAGE BUILDING	GARAGE	651,816	63.7%	415,207	81.5%	531,230
WTO F	IDC	IDC	39,508	63.7%	25,167	81.5%	32,199
WTO F	SIDEWALKS	SIDEWALKS	153,428	63.7%	97,734	81.5%	125,044
WTO F	IDC	IDC	2,052	63.7%	1,307	81.5%	1,672
WTO F	TELEPHONE COMMUNICATION EQUIPMENT	TELEPHONE SYSTEM	146,115	63.7%	93,075	81.5%	119,083
WTO F	IDC - REPLACEMENTS	IDC	1,845	63.7%	1,175	81.5%	1,504
WTO F	IDC - ADDITIONS	IDC	3,845	63.7%	2,449	81.5%	3,133
WTO F	PSOO-WATER SYSTEM	METER EQUIPMENT	219,050	63.7%	139,535	81.5%	178,526
WTO F	IDC	IDC	285,734	63.7%	182,013	81.5%	232,874
WTO F	PWR SYS OPERATIONS OFFICE BUILDING (PART 1 OF 2)	STORAGE BUILDING	1,929,776	63.7%	1,229,268	81.5%	1,572,768
WTO F	WATERTOWN OPS BLDG EXPANSION (PSOO)	STORAGE BUILDING	303,096	63.7%	193,072	81.5%	247,023
WTO F	WATERTOWN OPS BLDG EXPANSION	STORAGE BUILDING	1,362,395	63.7%	867,845	81.5%	1,110,352
WTO F	WATERTOWN OPS STATION SERVICE UNIT REPLACEMENT	BUILDING - ESTIMATE ADDS	1,870,192	63.7%	1,191,312	81.5%	1,524,206
	<b>TOTAL</b>		<b>8,486,851</b>		<b>5,406,124</b>		<b>6,916,784</b>

WAPA-UGP 2022 Rate Estimate Calculation

[\(Back to Worksheet Links\)](#)

Worksheet 14 - Rate for Regulation and Frequency Response

12 Months Ending 09/30/2022 ESTIMATE

Line No.	DESCRIPTION (1)	REGULATION and FREQUENCY RESPONSE (2)	REFERENCE (3)
1	Western Regulation Revenue Requirement (\$)	343,498	L19 C2
2	Over Collection - 2020 Regulation Revenue Rqmt (\$)	(54,417)	Prior year true-up
3	Total Regulation Revenue Rqmt with True-up (\$)	289,081	L1 + L2
<b>Regulation and Frequency Response (Western's Costs)</b>			
4	Fixed Charge Rate	15.857%	WS2-AllocFactor C5 L30
5	Corps Generation Net Plant Costs (\$)	592,327,146	WS2-AllocFactor C5 L31
6	Annual Corps Generation Cost (\$)	93,927,921	L1*L2
7	Plant Capacity (kW)	2,423,000	(1)
8	Cost/kW (\$/kW)	38.77	L3/L4
9	Capacity Used for Regulation (kW)	8,861	(2)
10	Regulation Revenue Requirement (\$) - Capacity	343,498	L8*L9
18	Regulation Revenue Requirement (\$) - Purchases	-	(3)
19	Total Regulation Revenue Requirement (\$)	343,498	
(1)	WAPA Annual Report plant capacity		
(2)	WAUW capacity used for regulation		
(3)	Cost of purchases required to regulate for Intermittent Resources		

WAPA-UGP 2022 Rate Estimate Calculation

[\(Back to Worksheet Links\)](#)

Worksheet 15 - Rate for Reserves

12 Months Ending 09/30/2022 ESTIMATE

Line No.	DESCRIPTION (1)	RESERVES (2)	REFERENCE (3)
1	Fixed Charge Rate	15.857%	WS2-AllocFactor C5 L30
2	Corps Generation Net Plant Costs (\$)	592,327,146	WS2-AllocFactor C5 L31
3	Annual Corps Generation Cost (\$)	93,927,921	L1*L2
4	Plant Capacity (kW)	2,423,000	(1)
5	Cost/kW (\$/kW-Yr)	38.77	L3/L4
6	Monthly Charge (\$/kW-mo)	3.23	L5/12 months
7	Western's Maximum Load in WAUW Control Area (kW)	157,000	(2)
8	Maximum Generation in WAUW Control Area (kW)	94,000	(3)
9	Capacity used for Reserves (kW) -- 3% Load + 3% Gen	7,530	L7*3% + L8*3% (4)
10	Annual Reserves Revenue Requirement	291,901	L9*L5
11	Over Collection - 2020 WAUW Reserves Revenue Rqmt (\$)	(50,468)	Prior year true-up
12	Annual Reserve Sharing Group Cost (\$)	42,123	(5)
13	Total Regulation Reserves Rqmt with True-up (\$)	283,557	L10+L11+L12
(1)	WAPA Annual Report plant capacity		
(2)	Control Area metering data		
(3)	WAUW maximum generation data		
(4)	Northwest Power Pool Reserve Sharing System		
(5)	Annual cost associated with Western-UGP's current reserve sharing group membership		