Formula-based Rate Template

Omaha Public Power District (OPPD)

Using 2017 Actual Financial & Operating Data for Southwest Power Pool (SPP) Rates Effective 8/1/2018

Calculate Net Annual Transmission Revenue Requirements (ATRR) and Rates for SPP Tariff

Line No.	Acct	Description	Notes		Total Transmission
		A. Zonal Net ATRR			
1		Gross ATRR			$65,398,364
		Revenue Credits			
2	456*	Less: Rev from SPP for Point-to-Point *	Note A, Worksheet A *	$ 1,173,250	
3	456	Less: Other Short-term Point-to-Point Revenue	Note A, Worksheet A	$ -	
4	454	Less: Transmission Related Rents	Note B, Worksheet B	$ 259,545	
5		Total Transmission Revenue Credits			-$1,432,795
6		OPPD Zonal Revenue Requirement			$63,965,569
7		Less: Base Plan Upgrades Revenues	Note C, Worksheet C, C1, C2, C3, C4, C5, C6, C7, C8		-$14,772,470
8		**Zonal Net ATRR for SPP Open Access Transmission Tariff (OATT) Attachment H**	Note G, Worksheet G		**$49,193,099**
		B. Point-to-Point Transmission Service Rates			
		Divisor			
9		Network - Average of 12 Coincident Peaks	Note D, Worksheet D		1,783.5
10		Long-Term PTP Reservations	Note D, Worksheet D		1,275.3
11		Total Demand			3,058.8
		Rates for SPP OATT Attachment T			
12		Point-to-Point Firm & Non-Firm ($/Kilowatt (kW) /Year)	Line 8 / Line 11 / 1000		**$16.08**
13		Point-to-Point Firm & Non-Firm ($/kW/Month)	Line 12 / 12 months		**$1.34**
14		Point-to-Point Firm & Non-Firm ($/kW/Week)	Line 12 / 52 weeks		**$0.309**
15		Point-to-Point Firm ($/kW/Day) On Peak	Line 14 / 5 days		**$0.062**
16		Point-to-Point Firm ($/kW/Day) Off Peak	Line 14/ 7 days		**$0.044**
17		Non-firm Point-to-Point ($/kW/Day) On Peak	Line 14 / 5 days		**$0.062**
17a		Non-firm Point-to-Point ($/kW/Day) Off Peak	Line 14 / 7 days		**$0.044**
18		Non-firm Point-to-Point ($/kW/Hour) On Peak	Line 17 / 16		**$0.00387**
18a		Non-firm Point-to-Point ($/kW/Hour) Off Peak	Line 17a / 24		**$0.00184**
		C. Base Plan Uprade ATRR	Note C		
19		Base Plan Upgrade ATRR without Incentives	Worksheets C, C1, C2, C3, C4, C5, C6, C7, C8		$14,772,470
20		Additonal ATRR for Incentives on Base Plan Upgrades			$0
21		**Base Plan Upgrade ATRR for SPP OATT Schedule 11**			**$14,772,470**
		D. Scheduling, System Control, and Dispatch Annual Revenue Requirements			
22		**OPPD Scheduling, System Control & Dispatch Costs for SPP Schedule 1**	Note E, Worksheet E		**$2,743,778**

* Includes SPP Point-to-Point revenue booked into OPPD account 457.1

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Calculate Gross ATRR

Line No.	Account	Description	Notes	Total OPPD	Adjustments	Adjust OPPD	Transmission Allocation Basis	Transmission Allocation %	Transmission
		Operating & Maintenance (O&M)							
		Direct O&M							
23	500-557	Production		$ 415,643,409	$ 24,703,012	$ 440,346,421	n/a		$ -
24	580-598	Distribution		$ 49,946,901		$ 49,946,901	n/a		$ -
25	901-917	Customer		$ 32,008,494	$3,500	$ 32,011,994	n/a		$ -
26		Subtotal		$497,598,805	$ 24,706,512	$ 522,305,316			$ -
27	560-575*	Transmission		$ 40,085,261	$ (3,815,796)	$ 36,269,465	All Transmission	100%	$ 36,269,465
28	565	Less: Transmission of Electricity by Others	Note K, Worksheet K		$ (18,986,754)	$ (18,986,754)			$ (18,986,754)
29	561	Less: Load Dispatch (Acct 561)	Note N		$ (5,719,257)	$ (5,719,257)			$ (5,719,257)
30		Subtotal		$ 537,684,066	$ (3,815,296)	$ 533,868,769			$ 11,563,453
		Administrative & General (A&G)							
31	920-932	A&G		$ 115,608,626		$ 115,608,626	Wages & Salaries	4.81%	$ 5,560,775
32		Less: Federal Energy Regulatory Commission Assessment Fees in 928		$ (695,449)		$ (695,449)	Wages & Salaries	4.81%	$ (33,451)
33		Less: Gen Advertising (930.02)	Note H, Worksheet H		$ (3,500)	$ (3,500)	Wages & Salaries	4.81%	$ (168)
34		Less: Misc General Exp (930.03)	Note H, Worksheet H		$ -	$ -	Wages & Salaries	4.81%	$ -
35		Total A&G		$ 114,913,177	$ (3,500)	$ 114,909,677			$ 5,527,155
36		Total O&M and A&G		$ 652,597,243	$ (3,818,796)	$ 648,778,446			$ 17,090,609
		Depreciation & Amortization Expense	Note F, Worksheet F						
37	310-346	Production		$ 44,979,236	$ 490,877	$ 45,470,112	Direct to Production		$ -
38	352-359	Transmission		$ 11,109,995	$ 3,001,450	$ 14,111,445	Direct to Transmission		$ 14,111,445
39	360-373	Distribution		$ 52,367,095	$ (1,024,683)	$ 51,342,411	Direct to Dist		$ -
40	389-397 & 301-313	General & Intangible		$ 17,342,913	$ (2,467,644)	$ 14,875,270	Wages & Salaries	4.81%	$ 715,500
41		Total Depreciation & Amortization	$92,624,941	$ 125,799,238	$ -	$ 125,799,238			$ 14,826,946
42	408.1-409.1	**Payments in Lieu of Taxes**	Note Q	$ 33,989,270		$ 33,989,270	Net Plant	19.56%	$ 6,648,301
43	427-432	**Interest Expense** (net of interest revenue)	Note P	$ 84,252,664		$ 84,252,664	Net Plant	19.56%	$ 16,479,821
44		**Margin Requirement**	Note L	$ 47,187,000		$ 47,187,000	Net Plant	19.56%	$ 9,229,777
45		**Regional Transmission Organization Incentive (RTO)**	Note J, Worksheet J	$1,122,910		$1,122,910	Direct to Transmission		$ 1,122,910
46		Required Revenues w/o Add Margin on Incentive Plant		$944,948,326	$ (3,818,796)	$941,129,529			$ 65,398,364
47		**Additional Margin on Incentive Plant**							$ -
48		Base Plan Upgrades	Note I, Worksheets C, C1, C2,C3,C4, C5, C6, C7,	$0		$0	Direct to Transmission		$ -
49		Non-Base Plan Upgrades	Note I, Worksheets I & I1	$0		$0	Direct to Transmission		$ -
50		**Gross ATRR**		**$944,948,326**	**$ (3,818,796)**	**$941,129,529**			**$ 65,398,364**

* The original template included O&M booked into accounts 560-574 on this line. However subsequent to joining SPP OPPD added Account 575. Account 575 includes a portion of SPP Administration fees which are removed in Line 27 in the Adjustments column.

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Calculate Allocators

Line No.	Description	Notes	2017	% Allocator
	Wages & Salaries	Note O		
51	Production		$ 80,611,757	64.31%
52	Transmission		$ 6,035,058	4.81%
53	Distribution		$ 23,172,339	18.49%
54	Customer/Other		$ 15,526,975	12.39%
55	Subtotal		$ 125,346,129	100.00%
56	A&G		$ 17,150,560	
57	Total		$ 142,496,689	

Plant in Service Note M

Line No.	Description	Notes	Booked Total OPPD	SPP AI Adjustments	Assign Intangible	Plant Adjusted for SPP AI Definition	Transmission	Transmission Allocation %
	Plant in Service							
58	Transmission	Gross Transmission Plant Allocation	$ 501,548,800	$ 101,845,628	$ 19,896,074	$ 623,290,501	$ 623,290,501	16%
59	All Other		$ 3,394,107,833	$ (101,845,628)	$ 12,862,829	$ 3,305,125,034		84%
60	Subtotal		$ 3,895,656,632	$ -	$ 32,758,903	$ 3,928,415,535	$ 623,290,501	100%
61	General & Intangible	Allocated on Gross Transmission Plant %	$ 267,445,654	$ -	$ (32,758,903)	$ 234,686,752	$ 37,244,788	
62	Electric & Intangible Plant *		$ 4,163,102,287	$ -	$ -	$ 4,163,102,287	$ 660,535,288	
	Accumulated Depreciation							
63	Transmission		$ 170,594,286	$ 11,907,934	$ 8,885,109	$ 191,387,329	$ 191,387,329	
64	All Other		$ 1,537,594,540	$ (11,907,934)	$ 6,707,773	$ 1,532,394,380		
65	Subtotal		$ 1,708,188,826	$ -	$ 15,592,882	$ 1,723,781,709	$ 191,387,329	
66	General & Intangible	Allocated to trans based on Gross Transmission Plant %	$ 111,072,534	$ -	$ (15,592,882)	$ 95,479,652	$ 10,600,876	
67	Electric & Intangible Plant		$ 1,819,261,360	$ -	$ -	$ 1,819,261,360	$ 201,988,204	
	Net Plant							
68	Transmission	Line 58 - Line 63	$ 330,954,513	$ 89,937,694	$ 11,010,964	$ 431,903,172	$ 431,903,172	
69	All Other	Line 59 - Line 64	$ 1,856,513,292	$ (89,937,694)	$ 6,155,056	$ 1,772,730,654		
70	Subtotal		$ 2,187,467,806	$ -	$ 17,166,020	$ 2,204,633,826	$ 431,903,172	
71	General & Intangible	Line 61 - Line Line 66	$ 156,373,121	$ -	$ (17,166,020)	$ 139,207,100	$ 26,643,912	
72	Electric & Intangible Plant	Net Plant Allocator	$ 2,343,840,926	$ -	$ -	$ 2,343,840,926	$ 458,547,084	**19.56%**

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Note	Notes
A	The revenues credited include a) amounts received directly from the SPP for Point-to-Point transmission service where the demand is not included in the divisor, b) amounts from customers taking service under grandfathered agreements where the demand is not included in the rate divisor and c) imputed revenues related to short-term reservations of OPPD's merchant function. Revenue associated with Federal Energy Regulatory Commission annual charges, gross receipts taxes, ancillary services and facilities excluded from the Transmission Cost of Service are not included as revenue credits. Revenues from transmission customers whose coincident peak loads are included in the divisor of the load-ratio share calculation are not included as revenue credits. See Worksheet A for details.
B	Includes income related only to transmission facilities. See Worksheet B for details.
C	Base Plan Upgrades are calculated by applying the Base Plan Upgrade Fixed Charge Rate to the SPP-approved Base Plan Upgrade Plant. See Worksheet C, C1, C2, C3, C4, C5, C6, C7, and C8 for details.
D	Network Service coincident peaks is the utility's maximum monthly megawatt load for Requirements Service at the time of zonal coincident monthly peaks. Requirements Service is service which the supplier plans to provide on an ongoing basis (i.e., the supplier includes projected load for this service in its system resource planning) and includes OPPD's retail load and total requirements wholesale load. Long-term Point-to-Point includes long-term (greater than one year in duration) firm Point-to-Point transactions, including grandfathered reservations on OPPD's system and OPPD's marketing function long-term reservations. See Worksheet D for details.
E	System control and load dispatch costs.
F	Adjusts depreciation and amortization expense to reflect SPP Attachment AI plant adjustments. See Worksheet F for details.
G	Revenue will be collected from both SPP load and grandfathered load. See Worksheet G for details.
H	Includes all regulatory commission expenses that can be allocated to transmission (excluding Federal Energy Regulatory Commission Assessment Fees and Annual Charges - if applicable). Includes all safety-related advertising A&G expenses and General Plant accounts, and may be functionalized based on other methods rather than on wages and salaries. Full documentation must be provided. See Worksheet H for details.
I	Additional revenue requirement for facilities receiving incentives. See Worksheet C1, C2, C3, C4, C5, C6, C7, C8 and I1 for details.
J	The Federal Energy Regulatory Commission, in its Order No. 679 and No. 679-A, offers a 50-basis-point incentive adder for transmission owners joining an RTO as long as the return on equity for the transmission owner is within a zone of reasonableness. In order to be comparable with transmission owners in RTOs (including SPP), OPPD has included this 50-basis-point incentive adder in its revenue requirements.
K	Removes cost of transmission service provided by others including OPPD account 565, department number 495, plus Western Area Power Administration transmission costs. Amount remaining is for facilities/maintenance costs on transmission. See Worksheet K for details.
L	The Margin Requirement is the margin OPPD uses in calculating rates applicable to its native load customers. The Margin Requirement, in conjunction with depreciation and amortization expense, must cover OPPD principal payments, the minimum level of debt service coverage (ratio of net receipts to debt service) and an adequate return on equity to provide internally generated funds for OPPD's regular construction and working capital needs. Equity is also one of the factors contributing to OPPD's financial standing. OPPD sets its Margin Requirement based on a variety of financial ratios including Debt Service Coverage Ratio, Fixed Charge Ratio and earnings.
M	Adjustments reflect the definition of transmission facilities under Attachment AI of the SPP tariff. Plant does not include Accounts 103, 105, 106 or 107, Experimental, Plant Held for Future Use, Completed Construction Not Classified and Construction Work in Progress, respectively, which are classified subsequent to the closing of the books for the year. OPPD does not have Common Plant.
N	Removes transmission expenses included in the OATT ancillary services rates and SPP expenses booked into Account No. 561.
O	Wages and salaries expensed.
P	Includes all interest expense.
Q	Includes Payments in Lieu of Taxes and Iowa taxes.

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Worksheet A - Revenue Credits, Account 456

Detail of 456 - Transmission Wheeling Fees

						Transmission Related Revenue			
Line No.	FERC Account	Description	Transmission	Other	Total	Revenue associated with billing units included in the Denominator	Revenue associated with BPU Charges	Transmission Revenue Credit	Total Transmission Revenue
1		Scheduling Fees		$387,348	$387,348				
2		Reactive		$930,274	$930,274				
3		Regulation			$0				
3a		Energy Imbalance			$0				
4		Distribution Line		$118,715	$118,715				
5		Distribution Subs		$52,388	$52,388				
6		Transformers		$6,285	$6,285				
7		Losses			$0				
8		Distribution Wheeling Fees (Direct)		$1,987,539	$1,987,539				
9		MAPP F & SPP Revenue			$0.00		$0	$0	$0
10		Point-to-Point Firm (PTP)	$7,102,499		$7,102,499.30	$7,102,499		$0	$7,102,499
11		Point-to-Point Non-Firm (NF PTP)			$0			$0	$0
12	456		$7,102,499	$3,482,550	$10,585,049	$7,102,499	$0	$0	$7,102,499
13		Add: Short-term OPPD Merchant PTP *						$0	
14		**Revenue Credits**						**$0**	

* See Worksheet D (line 42) for details

**SPP Point-to-Point revenue booked into OPPD account 457.1 in the amount of $ 1,173,249.95

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Worksheet B - Revenue Credits Rents, Account 454

Detail of 454 - Rent

Line No.	FERC Account	Description	Total	Other	Transmission Revenue Credit
1	45416, 45417, 45419	Rent	$211,515	$0	$211,515
2	45412, 45413	Allocated portion of general rent (1)	$998,532	$950,503	$48,029
3	All Other Sub Accts	Other	$2,481,412	$2,481,412	$0
4	454	**Rent Revenue Credits**	$3,691,460	$3,431,915	**$259,545**

(1) Split based on Wages and Salaries. Allocator shown on page 3

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Worksheet C - BPU Fixed Charge Rate

Calculate Fixed Charge Rate (FCR) for Base Plan Upgrade Projects

Line No.	Description	Amount	Notes
1	OPPD Zonal Revenue Requirement (w/o incentive plant)	$65,398,364	Page 2, Line 46
2	Less: Revenue Credits	-$1,432,795	Page 1, Line 5
3	Less: Depreciation Expense	-$14,826,946	Page 2, Line 41
4	Revenue Requirement w/o Depr	$49,138,623	
5	Net Plant	$458,547,084	Page 3, Line 72
6	Net Rev Req w/o Depreciation	$49,138,623	Line 4 above
7	**BPU FCR**	**10.72%**	

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Worksheet C1 - OPPD Base Plan Upgrade #1

Facilities receiving incentives accepted by FERC in Docket No.

Line No.	**Project Description:**	OPPD Sub 1255/3455 Transformer Project		
1	Investment	$12,718,000	Current Year	2017
2	Service Year (yyyy)	2008	Incentive ROE increase (Basis Points)	0.00%
3	Service Month (1-12)	7	FCR w/o incentives, less depreciation	10.72%
4	Useful life	39	FCR w/ incentives approved for these facilities, less dep	10.72%
5	CIAC (Yes or No)	No	Annual Depreciation Expense	$326,103

	Investment Year	Year #	Beginning Balance	Depreciation Expense	Ending Balance	BPU Rev Req w/o Incentives	BPU Rev Req w/ incentives	Additonal ATRR for Incentives on Base Plan Upgrades
6	2008	1	$12,718,000	$135,876	$12,582,124	$810,036	$810,036	$0
7	2009	2	$12,582,124	$326,103	$12,256,021	$1,639,477	$1,639,477	$0
8	2010	3	$12,256,021	$326,103	$11,929,919	$1,604,531	$1,604,531	$0
9	2011	4	$11,929,919	$326,103	$11,603,816	$1,569,586	$1,569,586	$0
10	2012	5	$11,603,816	$326,103	$11,277,714	$1,534,640	$1,534,640	$0
11	2013	6	$11,277,714	$326,103	$10,951,611	$1,499,694	$1,499,694	$0
12	2014	7	$10,951,611	$326,103	$10,625,509	$1,464,749	$1,464,749	$0
13	2015	8	$10,625,509	$326,103	$10,299,406	$1,429,803	$1,429,803	$0
14	2016	9	$10,299,406	$326,103	$9,973,303	$1,394,857	$1,394,857	$0
15	2017	10	$9,973,303	$326,103	$9,647,201	$1,359,912	$1,359,912	$0
16	2018	11	$9,647,201	$326,103	$9,321,098	$1,324,966	$1,324,966	$0
17	2019	12	$9,321,098	$326,103	$8,994,996	$1,290,020	$1,290,020	$0
18	2020	13	$8,994,996	$326,103	$8,668,893	$1,255,075	$1,255,075	$0
19	2021	14	$8,668,893	$326,103	$8,342,791	$1,220,129	$1,220,129	$0
20	2022	15	$8,342,791	$326,103	$8,016,688	$1,185,183	$1,185,183	$0
21	2023	16	$8,016,688	$326,103	$7,690,585	$1,150,238	$1,150,238	$0
22	2024	17	$7,690,585	$326,103	$7,364,483	$1,115,292	$1,115,292	$0
23	2025	18	$7,364,483	$326,103	$7,038,380	$1,080,346	$1,080,346	$0
24	2026	19	$7,038,380	$326,103	$6,712,278	$1,045,401	$1,045,401	$0
25	2027	20	$6,712,278	$326,103	$6,386,175	$1,010,455	$1,010,455	$0
26	2028	21	$6,386,175	$326,103	$6,060,073	$975,509	$975,509	$0
27	2029	22	$6,060,073	$326,103	$5,733,970	$940,564	$940,564	$0
28	2030	23	$5,733,970	$326,103	$5,407,868	$905,618	$905,618	$0
29	2031	24	$5,407,868	$326,103	$5,081,765	$870,672	$870,672	$0
30	2032	25	$5,081,765	$326,103	$4,755,662	$835,727	$835,727	$0
31	2033	26	$4,755,662	$326,103	$4,429,560	$800,781	$800,781	$0
32	2034	27	$4,429,560	$326,103	$4,103,457	$765,835	$765,835	$0
33	2035	28	$4,103,457	$326,103	$3,777,355	$730,890	$730,890	$0
34	2036	29	$3,777,355	$326,103	$3,451,252	$695,944	$695,944	$0
35	2037	30	$3,451,252	$326,103	$3,125,150	$660,998	$660,998	$0
36	2038	31	$3,125,150	$326,103	$2,799,047	$626,053	$626,053	$0
37	2039	32	$2,799,047	$326,103	$2,472,944	$591,107	$591,107	$0
38	2040	33	$2,472,944	$326,103	$2,146,842	$556,162	$556,162	$0
39	2041	34	$2,146,842	$326,103	$1,820,739	$521,216	$521,216	$0
40	2042	35	$1,820,739	$326,103	$1,494,637	$486,270	$486,270	$0
41	2043	36	$1,494,637	$326,103	$1,168,534	$451,325	$451,325	$0
42	2044	37	$1,168,534	$326,103	$842,432	$416,379	$416,379	$0
43	2045	38	$842,432	$326,103	$516,329	$381,433	$381,433	$0
44	2046	39	$516,329	$326,103	$190,226	$346,488	$346,488	$0
45	2047	40	$190,226	$190,226	$0	$190,226	$190,226	$0
46	2048	41	$0	$0	$0	$0	$0	$0
47	2049	42	$0	$0	$0	$0	$0	$0
48	2050	43	$0	$0	$0	$0	$0	$0
49	2051	44	$0	$0	$0	$0	$0	$0
50	2052	45	$0	$0	$0	$0	$0	$0
				$12,718,000				

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Worksheet C2 - OPPD Base Plan Upgrade #2

Facilities receiving incentives accepted by FERC in Docket No.

Line No.	**Project Description:**	Sub 1305 and 161 Transmission Expansion Project		
1	Investment	$20,997,000	Current Year	2017
2	Service Year (yyyy)	2009	Incentive ROE increase (Basis Points)	0.00%
3	Service Month (1-12)	10	FCR w/o incentives, less depreciation	10.72%
4	Useful life	32	FCR w/ incentives approved for these facilities, less dep	10.72%
5	CIAC (Yes or No)	No	Annual Depreciation Expense	$656,156

	Investment Year	Year #	Beginning Balance	Depreciation Expense	Ending Balance	BPU Rev Req w/o Incentives	BPU Rev Req w/ incentives	Additonal ATRR for Incentives on Base Plan Upgrades
6	2009	1	$20,997,000	$109,359	$20,887,641	$668,947	$668,947	$0
7	2010	2	$20,887,641	$656,156	$20,231,484	$2,824,194	$2,824,194	$0
8	2011	3	$20,231,484	$656,156	$19,575,328	$2,753,879	$2,753,879	$0
9	2012	4	$19,575,328	$656,156	$18,919,172	$2,683,564	$2,683,564	$0
10	2013	5	$18,919,172	$656,156	$18,263,016	$2,613,250	$2,613,250	$0
11	2014	6	$18,263,016	$656,156	$17,606,859	$2,542,935	$2,542,935	$0
12	2015	7	$17,606,859	$656,156	$16,950,703	$2,472,620	$2,472,620	$0
13	2016	8	$16,950,703	$656,156	$16,294,547	$2,402,305	$2,402,305	$0
14	2017	9	$16,294,547	$656,156	$15,638,391	$2,331,991	$2,331,991	$0
15	2018	10	$15,638,391	$656,156	$14,982,234	$2,261,676	$2,261,676	$0
16	2019	11	$14,982,234	$656,156	$14,326,078	$2,191,361	$2,191,361	$0
17	2020	12	$14,326,078	$656,156	$13,669,922	$2,121,046	$2,121,046	$0
18	2021	13	$13,669,922	$656,156	$13,013,766	$2,050,732	$2,050,732	$0
19	2022	14	$13,013,766	$656,156	$12,357,609	$1,980,417	$1,980,417	$0
20	2023	15	$12,357,609	$656,156	$11,701,453	$1,910,102	$1,910,102	$0
21	2024	16	$11,701,453	$656,156	$11,045,297	$1,839,788	$1,839,788	$0
22	2025	17	$11,045,297	$656,156	$10,389,141	$1,769,473	$1,769,473	$0
23	2026	18	$10,389,141	$656,156	$9,732,984	$1,699,158	$1,699,158	$0
24	2027	19	$9,732,984	$656,156	$9,076,828	$1,628,843	$1,628,843	$0
25	2028	20	$9,076,828	$656,156	$8,420,672	$1,558,529	$1,558,529	$0
26	2029	21	$8,420,672	$656,156	$7,764,516	$1,488,214	$1,488,214	$0
27	2030	22	$7,764,516	$656,156	$7,108,359	$1,417,899	$1,417,899	$0
28	2031	23	$7,108,359	$656,156	$6,452,203	$1,347,584	$1,347,584	$0
29	2032	24	$6,452,203	$656,156	$5,796,047	$1,277,270	$1,277,270	$0
30	2033	25	$5,796,047	$656,156	$5,139,891	$1,206,955	$1,206,955	$0
31	2034	26	$5,139,891	$656,156	$4,483,734	$1,136,640	$1,136,640	$0
32	2035	27	$4,483,734	$656,156	$3,827,578	$1,066,326	$1,066,326	$0
33	2036	28	$3,827,578	$656,156	$3,171,422	$996,011	$996,011	$0
34	2037	29	$3,171,422	$656,156	$2,515,266	$925,696	$925,696	$0
35	2038	30	$2,515,266	$656,156	$1,859,109	$855,381	$855,381	$0
36	2039	31	$1,859,109	$656,156	$1,202,953	$785,067	$785,067	$0
37	2040	32	$1,202,953	$656,156	$546,797	$714,752	$714,752	$0
38	2041	33	$546,797	$546,797	$0	$546,797	$546,797	$0
39	2042	34	$0	$0	$0	$0	$0	$0
40	2043	35	$0	$0	$0	$0	$0	$0
41	2044	36	$0	$0	$0	$0	$0	$0
42	2045	37	$0	$0	$0	$0	$0	$0
43	2046	38	$0	$0	$0	$0	$0	$0
44	2047	39	$0	$0	$0	$0	$0	$0
45	2048	40	$0	$0	$0	$0	$0	$0
46	2049	41	$0	$0	$0	$0	$0	$0
				$20,997,000				

Formula-based Rate Template

Omaha Public Power District (OPPD)

Using 2017 Actual Financial & Operating Data for Southwest Power Pool (SPP) Rates Effective 8/1/2018

Worksheet C3 - OPPD Base Plan Upgrade #3

Facilities receiving incentives accepted by FERC in Docket No.

Line No.					
	Project Descri	Sub 1341 Transmission Expansion Project			
1	Investment	$7,617,744	Current Year		2017
2	Service Year (y	2011	Incentive ROE increase (Basis Points)		0.00%
3	Service Month	9	FCR w/o incentives, less depreciation		10.72%
4	Useful life	32	FCR w/ incentives approved for these facilities, less dep		10.72%
5	CIAC (Yes or N	No	Annual Depreciation Expense		$238,055

	Investment Year	Year #	Beginning Balance	Depreciation Expense	Ending Balance	BPU Rev Req w/o Incentives	BPU Rev Req w/ incentives	Additonal ATRR for Incentives on Base Plan Upgrades
6	2011	1	$7,617,744	$59,514	$7,558,230	$329,498	$329,498	$0
7	2012	2	$7,558,230	$238,055	$7,320,176	$1,022,496	$1,022,496	$0
8	2013	3	$7,320,176	$238,055	$7,082,121	$996,986	$996,986	$0
9	2014	4	$7,082,121	$238,055	$6,844,067	$971,475	$971,475	$0
10	2015	5	$6,844,067	$238,055	$6,606,012	$945,965	$945,965	$0
11	2016	6	$6,606,012	$238,055	$6,367,958	$920,455	$920,455	$0
12	2017	7	$6,367,958	$238,055	$6,129,903	$894,945	$894,945	$0
13	2018	8	$6,129,903	$238,055	$5,891,849	$869,434	$869,434	$0
14	2019	9	$5,891,849	$238,055	$5,653,794	$843,924	$843,924	$0
15	2020	10	$5,653,794	$238,055	$5,415,740	$818,414	$818,414	$0
16	2021	11	$5,415,740	$238,055	$5,177,685	$792,903	$792,903	$0
17	2022	12	$5,177,685	$238,055	$4,939,631	$767,393	$767,393	$0
18	2023	13	$4,939,631	$238,055	$4,701,576	$741,883	$741,883	$0
19	2024	14	$4,701,576	$238,055	$4,463,522	$716,372	$716,372	$0
20	2025	15	$4,463,522	$238,055	$4,225,467	$690,862	$690,862	$0
21	2026	16	$4,225,467	$238,055	$3,987,413	$665,352	$665,352	$0
22	2027	17	$3,987,413	$238,055	$3,749,358	$639,842	$639,842	$0
23	2028	18	$3,749,358	$238,055	$3,511,304	$614,331	$614,331	$0
24	2029	19	$3,511,304	$238,055	$3,273,249	$588,821	$588,821	$0
25	2030	20	$3,273,249	$238,055	$3,035,195	$563,311	$563,311	$0
26	2031	21	$3,035,195	$238,055	$2,797,140	$537,800	$537,800	$0
27	2032	22	$2,797,140	$238,055	$2,559,086	$512,290	$512,290	$0
28	2033	23	$2,559,086	$238,055	$2,321,031	$486,780	$486,780	$0
29	2034	24	$2,321,031	$238,055	$2,082,977	$461,270	$461,270	$0
30	2035	25	$2,082,977	$238,055	$1,844,922	$435,759	$435,759	$0
31	2036	26	$1,844,922	$238,055	$1,606,868	$410,249	$410,249	$0
32	2037	27	$1,606,868	$238,055	$1,368,813	$384,739	$384,739	$0
33	2038	28	$1,368,813	$238,055	$1,130,759	$359,228	$359,228	$0
34	2039	29	$1,130,759	$238,055	$892,704	$333,718	$333,718	$0
35	2040	30	$892,704	$238,055	$654,650	$308,208	$308,208	$0
36	2041	31	$654,650	$238,055	$416,595	$282,698	$282,698	$0
37	2042	32	$416,595	$238,055	$178,541	$257,187	$257,187	$0
38	2043	33	$178,541	$178,541	$0	$178,541	$178,541	$0
39	2044	34	$0	$0	$0	$0	$0	$0
40	2045	35	$0	$0	$0	$0	$0	$0
41	2046	36	$0	$0	$0	$0	$0	$0
42	2047	37	$0	$0	$0	$0	$0	$0
43	2048	38	$0	$0	$0	$0	$0	$0
44	2049	39	$0	$0	$0	$0	$0	$0
45	2050	40	$0	$0	$0	$0	$0	$0
46	2051	41	$0	$0	$0	$0	$0	$0
				$7,617,744				

Formula-based Rate Template
Omaha Public Power District (OPPD)
Using 2017 Actual Financial & Operating Data for Southwest Power Pool (SPP) Rates Effective 8/1/2018

Worksheet C4 - OPPD Base Plan Upgrade #4

Facilities receiving incentives accepted by FERC in Docket No.

Line No.	**Project Description:**	Sub 1366 / 161 KV		
1	Investment	$11,179,602	Current Year	2017
2	Service Year (yyyy)	2013	Incentive ROE increase (Basis Points)	0.00%
3	Service Month (1-12)	6	FCR w/o incentives, less depreciation	10.72%
4	Useful life	32	FCR w/ incentives approved for these facilities, less dep	10.72%
5	CIAC (Yes or No)	No	Annual Depreciation Expense	$349,363

	Investment Year	Year #	Beginning Balance	Depreciation Expense	Ending Balance	BPU Rev Req w/o Incentives	BPU Rev Req w/ incentives	Additonal ATRR for Incentives on Base Plan Upgrades
6	2013	1	$11,179,602	$174,681	$11,004,921	$862,609	$862,609	$0
7	2014	2	$11,004,921	$349,363	$10,655,558	$1,491,229	$1,491,229	$0
8	2015	3	$10,655,558	$349,363	$10,306,196	$1,453,791	$1,453,791	$0
9	2016	4	$10,306,196	$349,363	$9,956,833	$1,416,352	$1,416,352	$0
10	2017	5	$9,956,833	$349,363	$9,607,470	$1,378,914	$1,378,914	$0
11	2018	6	$9,607,470	$349,363	$9,258,108	$1,341,476	$1,341,476	$0
12	2019	7	$9,258,108	$349,363	$8,908,745	$1,304,038	$1,304,038	$0
13	2020	8	$8,908,745	$349,363	$8,559,383	$1,266,599	$1,266,599	$0
14	2021	9	$8,559,383	$349,363	$8,210,020	$1,229,161	$1,229,161	$0
15	2022	10	$8,210,020	$349,363	$7,860,658	$1,191,723	$1,191,723	$0
16	2023	11	$7,860,658	$349,363	$7,511,295	$1,154,285	$1,154,285	$0
17	2024	12	$7,511,295	$349,363	$7,161,933	$1,116,846	$1,116,846	$0
18	2025	13	$7,161,933	$349,363	$6,812,570	$1,079,408	$1,079,408	$0
19	2026	14	$6,812,570	$349,363	$6,463,207	$1,041,970	$1,041,970	$0
20	2027	15	$6,463,207	$349,363	$6,113,845	$1,004,532	$1,004,532	$0
21	2028	16	$6,113,845	$349,363	$5,764,482	$967,094	$967,094	$0
22	2029	17	$5,764,482	$349,363	$5,415,120	$929,655	$929,655	$0
23	2030	18	$5,415,120	$349,363	$5,065,757	$892,217	$892,217	$0
24	2031	19	$5,065,757	$349,363	$4,716,395	$854,779	$854,779	$0
25	2032	20	$4,716,395	$349,363	$4,367,032	$817,341	$817,341	$0
26	2033	21	$4,367,032	$349,363	$4,017,669	$779,902	$779,902	$0
27	2034	22	$4,017,669	$349,363	$3,668,307	$742,464	$742,464	$0
28	2035	23	$3,668,307	$349,363	$3,318,944	$705,026	$705,026	$0
29	2036	24	$3,318,944	$349,363	$2,969,582	$667,588	$667,588	$0
30	2037	25	$2,969,582	$349,363	$2,620,219	$630,149	$630,149	$0
31	2038	26	$2,620,219	$349,363	$2,270,857	$592,711	$592,711	$0
32	2039	27	$2,270,857	$349,363	$1,921,494	$555,273	$555,273	$0
33	2040	28	$1,921,494	$349,363	$1,572,132	$517,835	$517,835	$0
34	2041	29	$1,572,132	$349,363	$1,222,769	$480,396	$480,396	$0
35	2042	30	$1,222,769	$349,363	$873,406	$442,958	$442,958	$0
36	2043	31	$873,406	$349,363	$524,044	$405,520	$405,520	$0
37	2044	32	$524,044	$349,363	$174,681	$368,082	$368,082	$0
38	2045	33	$174,681	$174,681	$0	$174,681	$174,681	$0
39	2046	34	$0	$0	$0	$0	$0	$0
40	2047	35	$0	$0	$0	$0	$0	$0
41	2048	36	$0	$0	$0	$0	$0	$0
42	2049	37	$0	$0	$0	$0	$0	$0
43	2050	38	$0	$0	$0	$0	$0	$0
44	2051	39	$0	$0	$0	$0	$0	$0
45	2052	40	$0	$0	$0	$0	$0	$0
46	2053	41	$0	$0	$0	$0	$0	$0
				$11,179,602				

Formula-based Rate Template

Omaha Public Power District (OPPD)

Using 2017 Actual Financial & Operating Data for Southwest Power Pool (SPP) Rates Effective 8/1/2018

Worksheet C5 - OPPD Base Plan Upgrade #5

Facilities receiving incentives accepted by FERC in Docket No.

Line No.	**Project Description:**	Sub 1398 / 161 KV		
1	Investment	$ 3,063,525.34	Current Year	2017
2	Service Year (yyyy)	2013	Incentive ROE increase (Basis Points)	0.00%
3	Service Month (1-12)	6	FCR w/o incentives, less depreciation	10.72%
4	Useful life	32	FCR w/ incentives approved for these facilities, less dep	10.72%
5	CIAC (Yes or No)	No	Annual Depreciation Expense	$95,735

	Investment Year	Year #	Beginning Balance	Depreciation Expense	Ending Balance	BPU Rev Req w/o Incentives	BPU Rev Req w/ incentives	Additonal ATRR for Incentives on Base Plan Upgrades
6	2013	1	$3,063,525	$47,868	$3,015,658	$236,379	$236,379	$0
7	2014	2	$3,015,658	$95,735	$2,919,923	$408,639	$408,639	$0
8	2015	3	$2,919,923	$95,735	$2,824,187	$398,380	$398,380	$0
9	2016	4	$2,824,187	$95,735	$2,728,452	$388,120	$388,120	$0
10	2017	5	$2,728,452	$95,735	$2,632,717	$377,861	$377,861	$0
11	2018	6	$2,632,717	$95,735	$2,536,982	$367,602	$367,602	$0
12	2019	7	$2,536,982	$95,735	$2,441,247	$357,343	$357,343	$0
13	2020	8	$2,441,247	$95,735	$2,345,512	$347,084	$347,084	$0
14	2021	9	$2,345,512	$95,735	$2,249,776	$336,825	$336,825	$0
15	2022	10	$2,249,776	$95,735	$2,154,041	$326,566	$326,566	$0
16	2023	11	$2,154,041	$95,735	$2,058,306	$316,306	$316,306	$0
17	2024	12	$2,058,306	$95,735	$1,962,571	$306,047	$306,047	$0
18	2025	13	$1,962,571	$95,735	$1,866,836	$295,788	$295,788	$0
19	2026	14	$1,866,836	$95,735	$1,771,101	$285,529	$285,529	$0
20	2027	15	$1,771,101	$95,735	$1,675,365	$275,270	$275,270	$0
21	2028	16	$1,675,365	$95,735	$1,579,630	$265,011	$265,011	$0
22	2029	17	$1,579,630	$95,735	$1,483,895	$254,752	$254,752	$0
23	2030	18	$1,483,895	$95,735	$1,388,160	$244,493	$244,493	$0
24	2031	19	$1,388,160	$95,735	$1,292,425	$234,233	$234,233	$0
25	2032	20	$1,292,425	$95,735	$1,196,690	$223,974	$223,974	$0
26	2033	21	$1,196,690	$95,735	$1,100,954	$213,715	$213,715	$0
27	2034	22	$1,100,954	$95,735	$1,005,219	$203,456	$203,456	$0
28	2035	23	$1,005,219	$95,735	$909,484	$193,197	$193,197	$0
29	2036	24	$909,484	$95,735	$813,749	$182,938	$182,938	$0
30	2037	25	$813,749	$95,735	$718,014	$172,679	$172,679	$0
31	2038	26	$718,014	$95,735	$622,279	$162,420	$162,420	$0
32	2039	27	$622,279	$95,735	$526,543	$152,160	$152,160	$0
33	2040	28	$526,543	$95,735	$430,808	$141,901	$141,901	$0
34	2041	29	$430,808	$95,735	$335,073	$131,642	$131,642	$0
35	2042	30	$335,073	$95,735	$239,338	$121,383	$121,383	$0
36	2043	31	$239,338	$95,735	$143,603	$111,124	$111,124	$0
37	2044	32	$143,603	$95,735	$47,868	$100,865	$100,865	$0
38	2045	33	$47,868	$47,868	$0	$47,868	$47,868	$0
39	2046	34	$0	$0	$0	$0	$0	$0
40	2047	35	$0	$0	$0	$0	$0	$0
41	2048	36	$0	$0	$0	$0	$0	$0
42	2049	37	$0	$0	$0	$0	$0	$0
43	2050	38	$0	$0	$0	$0	$0	$0
44	2051	39	$0	$0	$0	$0	$0	$0
45	2052	40	$0	$0	$0	$0	$0	$0
46	2053	41	$0	$0	$0	$0	$0	$0
				$3,063,525				

Formula-based Rate Template
Omaha Public Power District (OPPD)
Using 2017 Actual Financial & Operating Data for Southwest Power Pool (SPP) Rates Effective 8/1/2018

Worksheet C6 - OPPD Base Plan Upgrade #6

Facilities receiving incentives accepted by FERC in Docket No.

Line No.	**Project Description:**	Sub 1260 / 161 KV			
1	Investment	$ 4,410,087.18	Current Year		2017
2	Service Year (yyyy)	2014	Incentive ROE increase (Basis Points)		0.00%
3	Service Month (1-12)	11	FCR w/o incentives, less depreciation		10.72%
4	Useful life	32	FCR w/ incentives approved for these facilities, less dep		10.72%
5	CIAC (Yes or No)	No	Annual Depreciation Expense		$137,815

	Investment Year	Year #	Beginning Balance	Depreciation Expense	Ending Balance	BPU Rev Req w/o Incentives	BPU Rev Req w/ incentives	Additonal ATRR for Incentives on Base Plan Upgrades
6	2014	1	$4,410,087	$11,485	$4,398,603	$90,045	$90,045	$0
7	2015	2	$4,398,603	$137,815	$4,260,787	$594,408	$594,408	$0
8	2016	3	$4,260,787	$137,815	$4,122,972	$579,639	$579,639	$0
9	2017	4	$4,122,972	$137,815	$3,985,157	$564,871	$564,871	$0
10	2018	5	$3,985,157	$137,815	$3,847,342	$550,102	$550,102	$0
11	2019	6	$3,847,342	$137,815	$3,709,526	$535,334	$535,334	$0
12	2020	7	$3,709,526	$137,815	$3,571,711	$520,565	$520,565	$0
13	2021	8	$3,571,711	$137,815	$3,433,896	$505,797	$505,797	$0
14	2022	9	$3,433,896	$137,815	$3,296,081	$491,028	$491,028	$0
15	2023	10	$3,296,081	$137,815	$3,158,266	$476,260	$476,260	$0
16	2024	11	$3,158,266	$137,815	$3,020,450	$461,491	$461,491	$0
17	2025	12	$3,020,450	$137,815	$2,882,635	$446,723	$446,723	$0
18	2026	13	$2,882,635	$137,815	$2,744,820	$431,954	$431,954	$0
19	2027	14	$2,744,820	$137,815	$2,607,005	$417,186	$417,186	$0
20	2028	15	$2,607,005	$137,815	$2,469,189	$402,417	$402,417	$0
21	2029	16	$2,469,189	$137,815	$2,331,374	$387,649	$387,649	$0
22	2030	17	$2,331,374	$137,815	$2,193,559	$372,880	$372,880	$0
23	2031	18	$2,193,559	$137,815	$2,055,744	$358,112	$358,112	$0
24	2032	19	$2,055,744	$137,815	$1,917,929	$343,343	$343,343	$0
25	2033	20	$1,917,929	$137,815	$1,780,113	$328,575	$328,575	$0
26	2034	21	$1,780,113	$137,815	$1,642,298	$313,806	$313,806	$0
27	2035	22	$1,642,298	$137,815	$1,504,483	$299,038	$299,038	$0
28	2036	23	$1,504,483	$137,815	$1,366,668	$284,269	$284,269	$0
29	2037	24	$1,366,668	$137,815	$1,228,852	$269,501	$269,501	$0
30	2038	25	$1,228,852	$137,815	$1,091,037	$254,732	$254,732	$0
31	2039	26	$1,091,037	$137,815	$953,222	$239,964	$239,964	$0
32	2040	27	$953,222	$137,815	$815,407	$225,195	$225,195	$0
33	2041	28	$815,407	$137,815	$677,592	$210,427	$210,427	$0
34	2042	29	$677,592	$137,815	$539,776	$195,658	$195,658	$0
35	2043	30	$539,776	$137,815	$401,961	$180,890	$180,890	$0
36	2044	31	$401,961	$137,815	$264,146	$166,122	$166,122	$0
37	2045	32	$264,146	$137,815	$126,331	$151,353	$151,353	$0
38	2046	33	$126,331	$126,331	$0	$126,331	$126,331	$0
39	2047	34	$0	$0	$0	$0	$0	$0
40	2048	35	$0	$0	$0	$0	$0	$0
41	2049	36	$0	$0	$0	$0	$0	$0
42	2050	37	$0	$0	$0	$0	$0	$0
43	2051	38	$0	$0	$0	$0	$0	$0
44	2052	39	$0	$0	$0	$0	$0	$0
45	2053	40	$0	$0	$0	$0	$0	$0
46	2054	41	$0	$0	$0	$0	$0	$0
				$4,410,087				

Formula-based Rate Template

Omaha Public Power District (OPPD)

Using 2017 Actual Financial & Operating Data for Southwest Power Pool (SPP) Rates Effective 8/1/2018

Worksheet C7 - OPPD Base Plan Upgrade #7

Facilities receiving incentives accepted by FERC in Docket No.

Line No.	**Project Description:**	1366 Auto Trans			
1	Investment	$ 80,562.00	Current Year		2017
2	Service Year (yyyy)	2017	Incentive ROE increase (Basis Points)		0.00%
3	Service Month (1-12)	1	FCR w/o incentives, less depreciation		10.72%
4	Useful life	32	FCR w/ incentives approved for these facilities, less dep		10.72%
5	CIAC (Yes or No)	No	Annual Depreciation Expense		$2,518

	Investment Year	Year #	Beginning Balance	Depreciation Expense	Ending Balance	BPU Rev Req w/o Incentives	BPU Rev Req w/ incentives	Additonal ATRR for Incentives on Base Plan Upgrades
6	2017	1	$80,562	$2,308	$78,254	$10,694	$10,694	$0
7	2018	2	$78,254	$2,518	$75,737	$10,634	$10,634	$0
8	2019	3	$75,737	$2,518	$73,219	$10,364	$10,364	$0
9	2020	4	$73,219	$2,518	$70,702	$10,094	$10,094	$0
10	2021	5	$70,702	$2,518	$68,184	$9,824	$9,824	$0
11	2022	6	$68,184	$2,518	$65,666	$9,554	$9,554	$0
12	2023	7	$65,666	$2,518	$63,149	$9,285	$9,285	$0
13	2024	8	$63,149	$2,518	$60,631	$9,015	$9,015	$0
14	2025	9	$60,631	$2,518	$58,114	$8,745	$8,745	$0
15	2026	10	$58,114	$2,518	$55,596	$8,475	$8,475	$0
16	2027	11	$55,596	$2,518	$53,079	$8,206	$8,206	$0
17	2028	12	$53,079	$2,518	$50,561	$7,936	$7,936	$0
18	2029	13	$50,561	$2,518	$48,043	$7,666	$7,666	$0
19	2030	14	$48,043	$2,518	$45,526	$7,396	$7,396	$0
20	2031	15	$45,526	$2,518	$43,008	$7,126	$7,126	$0
21	2032	16	$43,008	$2,518	$40,491	$6,857	$6,857	$0
22	2033	17	$40,491	$2,518	$37,973	$6,587	$6,587	$0
23	2034	18	$37,973	$2,518	$35,456	$6,317	$6,317	$0
24	2035	19	$35,456	$2,518	$32,938	$6,047	$6,047	$0
25	2036	20	$32,938	$2,518	$30,421	$5,777	$5,777	$0
26	2037	21	$30,421	$2,518	$27,903	$5,508	$5,508	$0
27	2038	22	$27,903	$2,518	$25,385	$5,238	$5,238	$0
28	2039	23	$25,385	$2,518	$22,868	$4,968	$4,968	$0
29	2040	24	$22,868	$2,518	$20,350	$4,698	$4,698	$0
30	2041	25	$20,350	$2,518	$17,833	$4,429	$4,429	$0
31	2042	26	$17,833	$2,518	$15,315	$4,159	$4,159	$0
32	2043	27	$15,315	$2,518	$12,798	$3,889	$3,889	$0
33	2044	28	$12,798	$2,518	$10,280	$3,619	$3,619	$0
34	2045	29	$10,280	$2,518	$7,762	$3,349	$3,349	$0
35	2046	30	$7,762	$2,518	$5,245	$3,080	$3,080	$0
36	2047	31	$5,245	$2,518	$2,727	$2,810	$2,810	$0
37	2048	32	$2,727	$2,518	$210	$2,540	$2,540	$0
38	2049	33	$210	$210	$0	$210	$210	$0
39	2050	34	$0	$0	$0	$0	$0	$0
40	2051	35	$0	$0	$0	$0	$0	$0
41	2052	36	$0	$0	$0	$0	$0	$0
42	2053	37	$0	$0	$0	$0	$0	$0
43	2054	38	$0	$0	$0	$0	$0	$0
44	2055	39	$0	$0	$0	$0	$0	$0
45	2056	40	$0	$0	$0	$0	$0	$0
46	2057	41	$0	$0	$0	$0	$0	$0
				$80,562				

Formula-based Rate Template

Omaha Public Power District (OPPD)

Using 2017 Actual Financial & Operating Data for Southwest Power Pool (SPP) Rates Effective 8/1/2018

Worksheet C8 - OPPD Base Plan Upgrade #8

Facilities receiving incentives accepted by FERC in Docket No.

Line No.	**Project Description:**	MTP		
1	Investment	$ 59,163,941.05	Current Year	2017
2	Service Year (yyyy)	2017	Incentive ROE increase (Basis Points)	0.00%
3	Service Month (1-12)	1	FCR w/o incentives, less depreciation	10.72%
4	Useful life	32	FCR w/ incentives approved for these facilities, less dep	10.72%
5	CIAC (Yes or No)	No	Annual Depreciation Expense	$1,848,873

	Investment Year	Year #	Beginning Balance	Depreciation Expense	Ending Balance	BPU Rev Req w/o Incentives	BPU Rev Req w/ incentives	Additonal ATRR for Incentives on Base Plan Upgrades
6	2017	1	$59,163,941	$1,694,800	$57,469,141	$7,853,283	$7,853,283	$0
7	2018	2	$57,469,141	$1,848,873	$55,620,267	$7,809,228	$7,809,228	$0
8	2019	3	$55,620,267	$1,848,873	$53,771,394	$7,611,100	$7,611,100	$0
9	2020	4	$53,771,394	$1,848,873	$51,922,521	$7,412,972	$7,412,972	$0
10	2021	5	$51,922,521	$1,848,873	$50,073,648	$7,214,844	$7,214,844	$0
11	2022	6	$50,073,648	$1,848,873	$48,224,775	$7,016,716	$7,016,716	$0
12	2023	7	$48,224,775	$1,848,873	$46,375,902	$6,818,587	$6,818,587	$0
13	2024	8	$46,375,902	$1,848,873	$44,527,029	$6,620,459	$6,620,459	$0
14	2025	9	$44,527,029	$1,848,873	$42,678,155	$6,422,331	$6,422,331	$0
15	2026	10	$42,678,155	$1,848,873	$40,829,282	$6,224,203	$6,224,203	$0
16	2027	11	$40,829,282	$1,848,873	$38,980,409	$6,026,075	$6,026,075	$0
17	2028	12	$38,980,409	$1,848,873	$37,131,536	$5,827,947	$5,827,947	$0
18	2029	13	$37,131,536	$1,848,873	$35,282,663	$5,629,819	$5,629,819	$0
19	2030	14	$35,282,663	$1,848,873	$33,433,790	$5,431,690	$5,431,690	$0
20	2031	15	$33,433,790	$1,848,873	$31,584,916	$5,233,562	$5,233,562	$0
21	2032	16	$31,584,916	$1,848,873	$29,736,043	$5,035,434	$5,035,434	$0
22	2033	17	$29,736,043	$1,848,873	$27,887,170	$4,837,306	$4,837,306	$0
23	2034	18	$27,887,170	$1,848,873	$26,038,297	$4,639,178	$4,639,178	$0
24	2035	19	$26,038,297	$1,848,873	$24,189,424	$4,441,050	$4,441,050	$0
25	2036	20	$24,189,424	$1,848,873	$22,340,551	$4,242,922	$4,242,922	$0
26	2037	21	$22,340,551	$1,848,873	$20,491,677	$4,044,793	$4,044,793	$0
27	2038	22	$20,491,677	$1,848,873	$18,642,804	$3,846,665	$3,846,665	$0
28	2039	23	$18,642,804	$1,848,873	$16,793,931	$3,648,537	$3,648,537	$0
29	2040	24	$16,793,931	$1,848,873	$14,945,058	$3,450,409	$3,450,409	$0
30	2041	25	$14,945,058	$1,848,873	$13,096,185	$3,252,281	$3,252,281	$0
31	2042	26	$13,096,185	$1,848,873	$11,247,312	$3,054,153	$3,054,153	$0
32	2043	27	$11,247,312	$1,848,873	$9,398,439	$2,856,025	$2,856,025	$0
33	2044	28	$9,398,439	$1,848,873	$7,549,565	$2,657,896	$2,657,896	$0
34	2045	29	$7,549,565	$1,848,873	$5,700,692	$2,459,768	$2,459,768	$0
35	2046	30	$5,700,692	$1,848,873	$3,851,819	$2,261,640	$2,261,640	$0
36	2047	31	$3,851,819	$1,848,873	$2,002,946	$2,063,512	$2,063,512	$0
37	2048	32	$2,002,946	$1,848,873	$154,073	$1,865,384	$1,865,384	$0
38	2049	33	$154,073	$154,073	$0	$154,073	$154,073	$0
39	2050	34	$0	$0	$0	$0	$0	$0
40	2051	35	$0	$0	$0	$0	$0	$0
41	2052	36	$0	$0	$0	$0	$0	$0
42	2053	37	$0	$0	$0	$0	$0	$0
43	2054	38	$0	$0	$0	$0	$0	$0
44	2055	39	$0	$0	$0	$0	$0	$0
45	2056	40	$0	$0	$0	$0	$0	$0
46	2057	41	$0	$0	$0	$0	$0	$0
				$59,163,941				

Formula-based Rate Template

Omaha Public Power District (OPPD)

Using 2017 Actual Financial & Operating Data for Southwest Power Pool (SPP) Rates Effective 8/1/2018

			Network Load				LTPTP Reservations - Grandfathered						
Line No.	Month	Date for Network & Hour Ending	OPPD Load	Less: Load in other SPP Zone (6)	Plus: Network WS Load Less WAPA (4)	Total Network Load	Misc WAPA Deliveries in OPPD's CA (1)	NPPD (2)	LES (3)	OPPD (5)	NC2 Deliveries (7)	Total LTPTP	Total
1	Jan	1/5/2017 19:00	1,628.8	-13.0	13.7	1,629.5	22.236	41.992	105	759.0	347	1,275.228	2,904.724
2	Feb	2/8/2017 20:00	1,509.4	-11.5	13.6	1,511.5	22.236	41.992	105	759.0	347	1,275.228	2,786.692
3	Mar	3/13/2017 21:00	1,402.7	-9.4	13.0	1,406.3	22.236	41.992	105	759.0	347	1,275.228	2,681.542
4	Apr	4/13/2017 21:00	1,323.2	-4.8	12.8	1,331.2	22.236	41.967	105	759.0	347	1,275.203	2,606.398
5	May	5/16/2017 17:00	1,948.4	-5.9	13.7	1,956.1	22.201	41.992	105	759.0	347	1,275.193	3,231.307
6	June	6/13/2017 17:00	2,198.1	-10.4	14.9	2,202.6	22.201	41.967	105	759.0	347	1,275.168	3,477.766
7	Jul	7/20/2017 17:00	2,426.9	-16.5	16.5	2,426.9	22.201	42.145	105	759.0	347	1,275.346	3,702.240
8	Aug	8/2/2017 17:00	2,031.2	-11.2	14.4	2,034.4	22.201	42.145	105	759.0	347	1,275.346	3,309.794
9	Sept	9/22/2017 17:00	2,206.0	-10.5	14.7	2,210.2	22.201	42.145	105	759.0	347	1,275.346	3,485.563
10	Oct	10/2/2017 20:00	1,558.4	-4.0	12.8	1,567.2	22.201	42.145	105	759.0	347	1,275.346	2,842.526
11	Nov	11/21/2017 19:00	1,435.4	-10.3	12.7	1,437.8	22.201	42.145	105	759.0	347	1,275.346	2,713.136
12	Dec	12/27/2017 18:00	1,688.0	-14.0	14.3	1,688.3	22.153	42.258	105	759.0	347	1,275.411	2,963.734
13	Total		21,356.4	-121.5	167.1	21,402.0	266.5	504.9	1,260.0	9,108.0	4,164.0	15,303.389	36,705.422
14	12 CP Average		1,779.7	-10.1	13.9	1,783.5							**1,783.5**
15	Avg of LTPTP Res						22.2	42.1	105.0	759.0	347.0	1,275.3	**1,275.3**
16	**Total Billing Units to Page 1**		1,779.7	-10.1	13.9	1,783.5	22.2	42.1	105.0	759.0	347.0	1,275.3	**3,058.8**

(1) Auburn, Fremont, Falls City, Nebraska City Utilities, Peru, Syracuse, Tecumseh, UNO
(2) Nehawka, Plattsmouth, Verden & OASIS numbers 1585185; 1585186 (Auburn 21mw)
(3) OASIS numbers 1585194; 1585195; 1585192
(4) Calculate Wholesale Network Load w/o WAPA. See Lines 17 - 29 below.
(5) Detail of OPPD Marketing Transactions. See lines 30 - 42 below
(6) Steinauer, Wahoo and North Bend Network Load in NPPD's Zone
(7) OASIS number 1585595; 73224372; 78450466; 78450303; 1588942; 1585627; 1585630; 1585604; 1587762; 1587761; 1588943; 1589060

Calculate Wholesale NW Load - MW

		Total WS Load	Less: Syracuse - WAPA	Less: Tecumseh - WAPA	Total
17	Jan	13.7	0	0	13.7
18	Feb	13.6	0	0	13.6
19	Mar	13.0	0	0	13.0
20	Apr	12.8	0	0	12.8
21	May	13.7	0	0	13.7
22	June	14.9	0	0	14.9
23	July	16.5	0	0	16.5
24	Aug	14.4	0	0	14.4
25	Sept	14.7	0	0	14.7
26	Oct	12.8	0	0	12.8
27	Nov	12.7	0	0	12.7
28	Dec	14.3	0	0	14.3
29	Total MW	167.1	0	0	167.074

OPPD Long-Term Transactions

	OASIS #	1585243	1588959	1584797	1585574; 1585579	73224364, 1594743, 1594744	1589110	Total
30	Jan	315	69	15.0	150	200.0	10	759
31	Feb	315	69	15.0	150	200.0	10	759
32	Mar	315	69	15.0	150	200.0	10	759
33	Apr	315	69	15.0	150	200.0	10	759
34	May	315	69	15.0	150	200.0	10	759
35	June	315	69	15.0	150	200.0	10	759
36	July	315	69	15.0	150	200.0	10	759
37	Aug	315	69	15.0	150	200.0	10	759
38	Sept	315	69	15.0	150	200.0	10	759
39	Oct	315	69	15.0	150	200.0	10	759
40	Nov	315	69	15.0	150	200.0	10	759
41	Dec	315	69	15.0	150	200.0	10	759
42	Total	3,780	828	180	1,800	2400	120	9,108
	Sink	WR	AECI	NPPD	LES & MEC	MPS	OPPD	

OPPD Marketing Short-Term Transactions

	Hourly	Daily	Weekly	Monthly	Total
PTP-Firm	0	0		0	
PTP Non-Firm	0	0	0		
PTP-Firm	$0.000	$0.000	$0.000	$0.00	
PTP Non-Firm	$0.000	$0.000	$0.000	$0.00	
PTP-Firm	$0	$0	$0	$0	$0
PTP Non-Firm	$0	$0	$0	$0	$0
Total All Short-Term Transactions				$0	$0

Formula-based Rate Template

Omaha Public Power District (OPPD)

Using 2017 Actual Financial & Operating Data for Southwest Power Pool (SPP) Rates Effective 8/1/2018

Worksheet E - ARR for Ancillary Service #1 - Scheduling System Control & Dispatch

Line No.	FERC Account	Description	Amount
		Determine Scheduling, System Control & Dispatch Cost	
1	561	Load Dispatching *	$2,743,777.75
2	556	System Control & Load Dispatch	$0.00
3		**Total ATRR for AS#1**	**$2,743,777.75**

* Does not include SPP Admin fees booked into this account

Formula-based Rate Template

Omaha Public Power District (OPPD)

Using 2017 Actual Financial & Operating Data for Southwest Power Pool (SPP) Rates Effective 8/1/2018

Worksheet F - OPPD Depreciation Expense Adjustment Detail

Line No.	Function	As Booked	Intangible Plant Depreciation Exp	SPP AI - Lines & Subs	SPP AI - Generator Leads & Step-Ups	Total Depr Exp Adjustment	Adjusted Depreciation Expense
1	Production	$44,979,236	$442,205		$48,671	$490,877	$45,470,112
2	Transmission	$11,109,995	$2,025,438	$1,024,683	-$48,671	$3,001,450	$14,111,445
3	Distribution	$52,367,095		-$1,024,683		-$1,024,683	$51,342,411
4	General	$12,833,876	$2,041,394			$2,041,394	$14,875,270
5	Intangible	$4,509,038	-$4,509,038			-$4,509,038	$0
6	Total	$125,799,238	$0	$0	$0	$0	$125,799,238

Formula-based Rate Template

Omaha Public Power District (OPPD)

Using 2017 Actual Financial & Operating Data for Southwest Power Pool (SPP) Rates Effective 8/1/2018

Worksheet G - OPPD Revenue Summary

Based on Proposed Rates & Historic Billing Units

Line No.	Description	SPP Rates	GFA Rates	BPU Rates	Total System
1	Billing Units (Avg MW)	1,783.5	1,275.3		3,058.8
2	Rates	$1.34	$1.34		
3	Total Revenue	$28,683,109	$20,509,991	$14,772,470	$63,965,569

Formula-based Rate Template

Omaha Public Power District (OPPD)

Using 2017 Actual Financial & Operating Data for Southwest Power Pool (SPP) Rates Effective 8/1/2018

Worksheet H - OPPD Account 930 Details

Descriptions are from OPPD's Accounting Manual

Line No.	Account No.	Description	Amount
1	930.01	Corporate Notices & Fees	$34,506.85
2	930.02	Industry Association/Corporate Communications	$3,500.00
3	930.03	Miscellaneous General Expenses	$0.00
4		Total Account 930	$38,006.85

Formula-based Rate Template

Omaha Public Power District (OPPD)

Using 2017 Actual Financial & Operating Data for Southwest Power Pool (SPP) Rates Effective 8/1/2018

Worksheet I - Fixed Charge Rate w/o Incentive for Non-Base Plan Upgrade

Line No.	Description	Transmission Amount	% Debt Equity	Notes
	Calculate Fixed Charge Rate (FCR) without Incentive Return			
1	Required Revenue w/o Incentive Return	$65,398,364		Page 2, Line 45
2	Less: Revenue Credits	-$1,432,795		Page 1, Line 5
3	Less: Depreciation Expense	-$14,826,946		Page 2, Line 41
4	Revenue Requirement w/o Depr	$49,138,623		
5	Net Plant	$458,547,084		Page 3, Line 72
6	Net Rev Req w/o Depreciation	$49,138,623		Line 4 above
7	FCR w/o Incentive	10.72%		
	Calculate Equity %			
8	Long-term Debt *	$2,112,876	66%	OPPD Financials
9	Equity	$1,090,525	34%	OPPD Financials
10	Total	$3,203,401		

* Excludes NC2 separate electric system revenue bonds for NC2 participants

Formula-based Rate Template

Omaha Public Power District (OPPD)

Using 2017 Actual Financial & Operating Data for Southwest Power Pool (SPP) Rates Effective 8/1/2018

Worksheet I1 - OPPD Incentive Plant #1 for Non-Base Plan Upgrades

Facilities receiving incentives accepted by FERC in Docket No.

Line No.	**Project Description:**				Amounts
1	Investment		Current Year		2017
2	Service Year (yyyy)	2007	Incentive ROE increase (Basis Points)		0.00%
3	Service Month (1-12)	1	FCR w/o incentives, less depreciation		10.72%
4	Useful life	30	FCR w/ incentives approved for these facilities, less dep		10.72%
5	CIAC (Yes or No)	No	Annual Depreciation Expense		$0
6					

	Investment Year	Year #	Beginning Balance	Depreciation Expense	Ending Balance	BPU Rev Req w/o Incentives	BPU Rev Req w/ incentives	Additional Revenue Requirement
7	2007	1	$0	$0	$0	$0	$0	$0
8	2008	2	$0	$0	$0	$0	$0	$0
9	2009	3	$0	$0	$0	$0	$0	$0
10	2010	4	$0	$0	$0	$0	$0	$0
11	2011	5	$0	$0	$0	$0	$0	$0
12	2012	6	$0	$0	$0	$0	$0	$0
13	2013	7	$0	$0	$0	$0	$0	$0
14	2014	8	$0	$0	$0	$0	$0	$0
15	2015	9	$0	$0	$0	$0	$0	$0
16	2016	10	$0	$0	$0	$0	$0	$0
17	2017	11	$0	$0	$0	$0	$0	$0
18	2018	12	$0	$0	$0	$0	$0	$0
19	2019	13	$0	$0	$0	$0	$0	$0
20	2020	14	$0	$0	$0	$0	$0	$0
21	2021	15	$0	$0	$0	$0	$0	$0
22	2022	16	$0	$0	$0	$0	$0	$0
23	2023	17	$0	$0	$0	$0	$0	$0
24	2024	18	$0	$0	$0	$0	$0	$0
25	2025	19	$0	$0	$0	$0	$0	$0
26	2026	20	$0	$0	$0	$0	$0	$0
27	2027	21	$0	$0	$0	$0	$0	$0
28	2028	22	$0	$0	$0	$0	$0	$0
29	2029	23	$0	$0	$0	$0	$0	$0
30	2030	24	$0	$0	$0	$0	$0	$0
31	2031	25	$0	$0	$0	$0	$0	$0
32	2032	26	$0	$0	$0	$0	$0	$0
33	2033	27	$0	$0	$0	$0	$0	$0
34	2034	28	$0	$0	$0	$0	$0	$0
35	2035	29	$0	$0	$0	$0	$0	$0
36	2036	30	$0	$0	$0	$0	$0	$0
37	2037	31	$0	$0	$0	$0	$0	$0
38	2038	32	$0	$0	$0	$0	$0	$0
39	2039	33	$0	$0	$0	$0	$0	$0
40	2040	34	$0	$0	$0	$0	$0	$0
41	2041	35	$0	$0	$0	$0	$0	$0
42	2042	36	$0	$0	$0	$0	$0	$0
43	2043	37	$0	$0	$0	$0	$0	$0
44	2044	38	$0	$0	$0	$0	$0	$0
45	2045	39	$0	$0	$0	$0	$0	$0
46	2046	40	$0	$0	$0	$0	$0	$0
47	2047	41	$0	$0	$0	$0	$0	$0
				$0				

Formula-based Rate Template

Omaha Public Power District (OPPD)

Using 2017 Actual Financial & Operating Data for Southwest Power Pool (SPP) Rates

Effective 8/1/2018

Worksheet J - SPP RTO Incentive Adder

Line No.	Description	Amount	Equity %
	Calculate Premium for Joining an RTO		
	(Plant based on 2017 data)		
1	Transmission Plt	$623,290,501	
2	Allocated Share of General	$37,244,788	
3	Total Plant	$660,535,288	
4	X Equity Ratio	34%	
5	X 50 Basis Point Premium	0.0050	
	Premium $$	$1,122,910	
	Calculate Equity %		
	(Based on 2017 F&O)	(in thousands)	
6	Long-term Debt *	$2,112,876	66%
7	Equity	$1,090,525	34%
8	Total	$3,203,401	

* Excludes NC2 separate electric system revenue bonds for NC2 participants

Formula-based Rate Template

Omaha Public Power District (OPPD)

Using 2017 Actual Financial & Operating Data for Southwest Power Pool (SPP) Rates Effective 8/1/2018

Worksheet K - Account 565 Transmission by Others

Line No.	Account No.	Description		Amount
1	565	Account Total		$19,460,740
		Less: Transmission by Others		
2		Trans service in MAPP, MISO, SPP, WAPA	$ (19,105,018)	
3		Other	$118,264	
4		Total Transmission by Others		-$18,986,754
5		Portion of Account 565 Included in Transmission Rates		$473,986