

Volume 4A – Section 3

Supporting Information

B. Rate Base Schedules

OTTER TAIL POWER COMPANY
Electric Utility - State of South Dakota
RATE BASE SCHEDULES
RATE BASE SUMMARY

Exhibit ____ (TAA-1), Schedule B-1
Page 1 of 1

Line No.	(A) Description	(B) South Dakota Jurisdiction	
		2017 Actual Year	2017 Test Year
1	Electric Plant in Service	\$161,400,619	\$162,858,425
2	Less: Accumulated Depreciation	(68,956,035)	(69,187,810)
3	Net Electric Plant in Service	\$92,444,584	\$93,670,615
	Other Rate Base Components:		
4	Plant Held for Future Use	2,786	2,786
5	Construction Work in Progress	0	0
6	Materials and Supplies	1,831,014	1,833,976
7	Fuel Stocks	845,834	849,126
8	Prepayments	(1,939,652)	(1,946,936)
9	Customer Advances	(73,314)	(73,589)
10	Cash Working Capital	2,821,120	2,531,644
11	Accumulated Deferred Income Taxes	(12,637,581)	(12,421,053)
12	Unamortized Rate Case Expense	0	458,334
13	TOTAL	\$83,294,792	\$84,904,903

OTTER TAIL POWER COMPANY
Electric Utility - State of South Dakota
RATE BASE SCHEDULES
RATE BASE COMPONENTS - 2017 TEST YEAR

Exhibit ____ (TAA-1), Schedule B-2
Page 1 of 1

		2017 Test Year					
		Total Utility			South Dakota Jurisdiction		
Line No.	Description	(A) 2017 Actual Year	(B) Adjustments	(C) 2017 Test Year	(D) 2017 Actual Year	(E) Adjustments	(F) = (D) + (E) 2017 Test Year
Utility Plant in Service:							
1	Production	\$901,391,463	(20,863)	\$901,370,600	\$83,221,204	\$296,413	\$83,517,617
2	Transmission	445,535,766	0	445,535,766	23,471,468	59,643	23,531,110
3	Distribution	481,185,961	0	481,185,961	45,678,084	(31,720)	45,646,364
4	General	88,167,884	0	88,167,884	8,121,115	11,725	8,132,840
5	Intangible	9,865,928	12,146,579	22,012,507	908,747	1,121,745	2,030,492
6	TOTAL Utility Plant in Service	\$1,926,147,002	\$12,125,716	\$1,938,272,718	\$161,400,619	\$1,457,806	\$162,858,425
Accumulated Depreciation							
7	Production	(367,250,596)	(\$413,902)	(367,664,498)	(33,959,567)	(\$162,549)	(34,122,116)
8	Transmission	(120,687,958)	(241,619)	(120,929,577)	(10,478,951)	(48,826)	(10,527,777)
9	Distribution	(211,878,571)	148,861	(211,729,710)	(20,113,237)	28,088	(20,085,148)
10	General	(40,499,003)	225,176	(40,273,827)	(3,730,350)	15,385	(3,714,965)
11	Intangible	(7,316,615)	(681,887)	(7,998,502)	(673,931)	(63,872)	(737,803)
12	TOTAL Accumulated Depreciation	(\$747,632,742)	(\$963,371)	(\$748,596,113)	(\$68,956,035)	(\$231,774)	(\$69,187,810)
13 NET Utility Plant in Service							
14	Production	\$534,140,867	(\$434,765)	\$533,706,102	\$49,261,638	\$133,863	\$49,395,501
15	Transmission	324,847,808	(241,619)	324,606,189	12,992,517	10,816	13,003,334
16	Distribution	269,307,391	148,861	269,456,252	25,564,847	(3,632)	25,561,216
17	General	47,668,881	225,176	47,894,057	4,390,765	27,110	4,417,875
18	Intangible	2,549,313	11,464,692	14,014,005	234,816	1,057,873	1,292,689
19	NET Utility Plant in Service	\$1,178,514,260	\$11,162,345	\$1,189,676,605	\$92,444,584	\$1,226,031	\$93,670,615
20	Big Stone Plant capitalized items	-	\$0	-	-	\$0	-
21	Utility Plant Held for Future Use	29,657	0	29,657	2,786	\$0	2,786
22	Construction Work in Progress	158,432,233	0	158,432,233	-	0	-
23	Materials and Supplies	19,658,295	0	19,658,295	1,831,014	2,962	1,833,976
24	Fuel Stocks	9,089,677	0	9,089,677	845,834	3,292	849,126
25	Prepayments	(24,727,324)	0	(24,727,324)	(1,939,652)	(7,284)	(1,946,936)
26	Customer Advances	(934,625)	0	(934,625)	(73,314)	(275)	(73,589)
27	Cash Working Capital*	16,613,125	(5,751,928)	10,861,197	2,821,120	(289,477)	2,531,643
28	Accumulated Deferred Income Taxes	(260,006,587)	20,216	(253,936,313)	(12,637,581)	216,527	(12,421,053)
29	Unamortized Rate Case & Holding Co. Formation Exp.	-	-	458,334	-	458,334	458,334
30	Total Average Rate Base	\$1,096,668,710	\$5,430,634	\$1,108,607,736	\$83,294,792	\$1,610,109	\$84,904,903

* Detailed on Schedule B-4, pages 1-3

OTTER TAIL POWER COMPANY
Electric Utility - State of South Dakota
RATE BASE SCHEDULES
RATE BASE COMPONENTS - 2017 TEST YEAR
TO OTP'S MOST RECENT GENERAL RATE CASE

Exhibit ____ (TAA-1), Schedule B-3
Page 1 of 1

Line No.	Description	(A) 2010 Per Order in Docket No. EL10-011	(B) 2017 Test Year	(C) (C) = (B) - (A) \$ Change
1	Electric Plant in Service	\$129,916,847	\$162,858,425	\$32,941,578
2	Less: Accumulated Depreciation	<u>(\$50,144,297)</u>	<u>(\$69,187,810)</u>	<u>(\$19,043,513)</u>
3	Net Electric Plant in Service	\$79,772,550	\$93,670,615	\$13,898,065
	Other Rate Base Components:			
4	Plant Held for Future Use	\$2,927	\$2,786	(\$141)
5	Construction Work in Progress	\$0	\$0	\$0
6	Materials and Supplies	\$1,621,834	\$1,833,976	\$212,142
7	Fuel Stocks	\$812,063	\$849,126	\$37,063
8	Prepayments	(\$2,567,514)	(\$1,946,936)	\$620,578
9	Customer Advances	(\$41,605)	(\$73,589)	(\$31,984)
10	Cash Working Capital	\$384,921	\$2,531,644	\$2,146,723
11	Accumulated Deferred Income Taxes	(\$12,408,883)	(\$12,421,053)	(\$12,170)
12	Unamortized Rate Case Expense	<u>(\$64,473)</u>	<u>\$458,334</u>	<u>\$522,807</u>
13	TOTAL	<u><u>\$67,511,819</u></u>	<u><u>\$84,904,903</u></u>	<u><u>\$16,870,276</u></u>

OTTER TAIL POWER COMPANY
Electric Utility - State of South Dakota
RATE BASE SCHEDULES
CASH WORKING CAPITAL

Exhibit ____ (TAA-1), Schedule B-4
Page 1 of 3

LINE NO	ITEM	2017 Actual Year		2017 Test Year	
		TOTAL UTILITY	South Dakota	TOTAL UTILITY	South Dakota
1	<u>CASH WORKING CAPITAL CALCULATION - REVENUE LEAD DAYS</u>				
2					
3	<u>REVENUES</u>				
4	COMPUTER MAINTAINED BILLINGS	\$335,857,823	\$20,978,135	\$333,775,994	\$18,896,306
5	MANUALLY MAINTAINED BILLINGS	\$31,947,577	\$1,995,489	\$31,749,549	\$1,797,461
6	COST OF ENERGY REVENUES	\$5,411,630	\$10,080,514	\$5,411,630	\$10,080,514
7	SALES FOR RESALE	\$5,173,104	\$447,445	\$5,173,104	\$448,767
8	RENT FROM ELECTRIC PROPERTY	\$628,233	\$49,280	\$628,233	\$49,465
9	OTHER MISC ELECTRIC REVENUE	\$3,903,072	\$306,163	\$3,903,072	\$307,313
10	ITA DEFICIENCY PAYMENTS	\$1,419,043	\$111,312	\$1,419,043	\$111,730
11	WHEELING	446,129	\$0	446,129	\$0
12	LOAD CONTROL AND DISPATCH	\$45,700,461	\$682,762	\$45,700,461	\$685,326
13	RENT FROM ELECTRIC PROPERTY - BIG STONE	\$7,256	\$569	\$7,256	\$571
14	RENT FROM ELECTRIC PROPERTY - COYOTE	\$13,148	\$1,031	\$13,148	\$1,035
15	PROFIT ON MATERIALS AND SUPPLIES	\$17,042	\$2,867	\$29,193	\$2,876
16	MISCELLANEOUS SERVICES	\$0	\$0	\$0	\$0
17	RESIDENTIAL CONSERVATION SERVICES	3,645	\$0	3,645	\$0
18					
19	TOTAL REVENUES	\$430,528,162	\$34,655,568	\$428,260,456	\$32,381,363
20					
21	<u>REVENUE LEAD DAYS FROM SERVICE TO COLLECTION</u>				
22	COMPUTER MAINTAINED BILLINGS ¹	N/A	43.4	N/A	43.4
23	MANUALLY MAINTAINED BILLINGS	N/A	41.3	N/A	41.3
24	COST OF ENERGY REVENUES	N/A	113.6	N/A	113.6
25	SALES FOR RESALE	N/A	23.1	N/A	23.1
26	RENT FROM ELECTRIC PROPERTY	N/A	(92.4)	N/A	(92.4)
27	OTHER MISC ELECTRIC REVENUE	N/A	34.9	N/A	34.9
28	ITA DEFICIENCY PAYMENTS	N/A	48.4	N/A	48.4
29	WHEELING	N/A	35.8	N/A	35.8
30	LOAD CONTROL AND DISPATCH	N/A	27.9	N/A	27.9
31	RENT FROM ELECTRIC PROPERTY - BIG STONE	N/A	62.2	N/A	63.6
32	RENT FROM ELECTRIC PROPERTY - COYOTE	N/A	62.2	N/A	63.6
33	PROFIT ON MATERIALS AND SUPPLIES	N/A	62.2	N/A	63.6
34	MISCELLANEOUS SERVICES	N/A	62.2	N/A	63.6
35	RESIDENTIAL CONSERVATION SERVICES	N/A	62.2	N/A	63.6
36					
37	<u>REVENUE DOLLAR DAYS (REVENUES X REVENUE LEAD DAYS)</u>				
38	COMPUTER MAINTAINED BILLINGS	\$14,576,229,527	\$910,451,047	\$14,485,878,155	\$820,099,674
39	MANUALLY MAINTAINED BILLINGS	\$1,319,434,933	82,413,694	\$1,311,256,360	\$74,235,121
40	COST OF ENERGY REVENUES	\$542,931,811	1,145,002,633	\$542,931,811	\$1,145,002,633
41	SALES FOR RESALE	\$119,291,773	10,318,087	\$119,291,773	\$10,348,563
42	RENT FROM ELECTRIC PROPERTY	(\$58,055,056)	(4,553,933)	(\$58,055,056)	(\$4,571,034)
43	OTHER MISC ELECTRIC REVENUE	\$136,295,288	10,691,225	\$136,295,288	\$10,731,373
44	ITA DEFICIENCY PAYMENTS	\$68,681,664	5,387,502	\$68,681,664	\$5,407,733
45	WHEELING	\$15,953,556	0	\$15,953,556	\$0
46	LOAD CONTROL AND DISPATCH	\$1,275,042,852	19,049,056	\$1,275,042,852	\$19,120,589
47	RENT FROM ELECTRIC PROPERTY - BIG STONE	\$296,487	35,786	\$297,452	\$36,708
48	RENT FROM ELECTRIC PROPERTY - COYOTE	\$537,269	64,848	\$539,017	\$66,518
49	PROFIT ON MATERIALS AND SUPPLIES	\$690,313	180,283	\$1,211,376	\$184,774
50	MISCELLANEOUS SERVICES	\$0	0	\$0	\$0
51	RESIDENTIAL CONSERVATION SERVICES	\$154,900	0	\$154,900	\$0
52					
53	TOTAL DOLLAR DAYS	\$17,997,485,316	\$2,179,040,227	\$17,899,479,148	\$2,080,662,652
54					
55	AVG REVENUE LEAD DAYS (TOTAL REV DOLLAR DAYS / TOTAL REV)	41.8	62.9	41.8	64.3
56					
57	¹ Calculation of Days from Service to Collection				
58	Service Period to Date Meter is Read	(365 / 12 / 2)	15.2		
59	Read Date to Date Billing is Prepared		3.5		
60	Billing Date to Date Collection is Received		24.7		
61	Total		43.4		

OTTER TAIL POWER COMPANY
Electric Utility - State of South Dakota
RATE BASE SCHEDULES
CASH WORKING CAPITAL
Calculation applying lead-lag factors

		2017 Actual Year					TOTAL
		South Dakota JURISDICTION					UTILITY
LINE		(A)	(B)	(C)	(D)	(E)	(F)
NO	ITEM	Operating	Expense/day	Expense	Lead Days of	Net Revenue	Net Revenue
		Expense	at 365	Lag Days	Over Expense	Lag Dollars	Lag Dollars
			day/year		Lag Days		
					62.9		
1	FUEL - COAL	\$5,147,885	\$14,104	15.5	47.4	668,379	\$4,343,120
2	FUEL - OIL	\$243,173	666	11.2	51.7	34,431	\$229,914
3	PURCHASED POWER	\$5,858,042	16,049	31.6	31.3	502,668	\$2,078,984
4	LABOR AND ASSOC PAYROLL EXPENSE	\$505,375	1,385	15.1	47.8	66,170	\$435,189
5	ALL OTHER O&M EXPENSE	\$12,628,916	34,600	13.1	49.8	1,723,415	\$11,684,426
6	PROPERTY TAX (EXCL COAL CONV TAX)	\$919,049	2,518	300.1	(237.2)	(597,375)	(\$8,323,128)
7	COAL CONVERSION TAXES	\$46,586	128	33.3	29.6	3,775	\$12,262
8	FEDERAL INCOME TAXES	(\$556,439)	(1,524)	0.0	62.9	-	\$455,386
9	STATE INCOME TAXES	\$0	0	0.0	62.9	-	\$136,790
10	INCREMENTAL FEDERAL INCOME TAXES	0	0	0.0	62.9	-	\$0
11	INCREMENTAL STATE INCOME TAXES	0	0	0.0		-	\$0
12	BANK BALANCES		0	0.0		769	\$9,800
13	SPECIAL DEPOSITS		0	0.0		468,908	\$5,977,794
14	WORKING FUNDS					975	\$12,434
15	TAX COLLECTIONS AVAILABLE						
16	FICA WITHHOLDING	(\$447,782)	(1,227)	0.0		0	\$0
17	FEDERAL WITHHOLDING	(\$787,646)	(2,158)	0.0		0	\$0
18	STATE WITHHOLDING- MN	\$0	0	1.9		0	(\$10,120)
19	STATE WITHHOLDING- ND	\$0	0	69.1		0	(\$37,920)
20	STATE SALES TAX	(\$1,362,584)	(3,733)	13.7		(50,994)	(\$391,805)
21	FRANCHISE TAXES	0	0	0.0		0	-
22							
23	TOTAL CASH WORKING CAPITAL REQUIREMENT					2,821,120	\$16,613,125

OTTER TAIL POWER COMPANY
Electric Utility - State of South Dakota
RATE BASE SCHEDULES
CASH WORKING CAPITAL
Calculation applying lead-lag factors

		2017 Test Year					TOTAL
		South Dakota JURISDICTION					UTILITY
LINE		(A)	(B)	(C)	(D)	(E)	(F)
NO	ITEM	Operating	Expense/day	Expense	Lead Days of	Net Revenue	Net Revenue
		Expense	at 365	Lag Days	Over Expense	Lag Dollars	Lag Dollars
			day/year		Lag Days		
					64.3		
1	FUEL - COAL	\$5,163,090	\$14,145	15.5	48.79	\$690,157	\$4,363,540
2	FUEL - OIL	\$244,199	669	11.2	53.08	35,512	\$230,887
3	PURCHASED POWER	\$6,011,271	16,469	31.6	32.72	538,873	\$2,149,606
4	LABOR AND ASSOC PAYROLL EXPENSE	\$513,054	1,406	15.1	49.19	69,143	\$437,554
5	ALL OTHER O&M EXPENSE	\$13,104,031	35,901	13.1	51.21	1,838,514	\$12,014,056
6	PROPERTY TAX (EXCL COAL CONV TAX)	\$922,500	2,527	300.1	(235.76)	(595,870)	(\$8,316,136)
7	COAL CONVERSION TAXES	\$46,761	128	33.3	30.98	3,969	\$12,482
8	FEDERAL INCOME TAXES	(\$1,021,346)	(2,798)	0.0	64.30	-	\$250,176
9	STATE INCOME TAXES	\$0	0	0.0	64.30	-	\$129,145
10	INCREMENTAL FEDERAL INCOME TAXES	0	0	0.0	64.30	0	\$0
11	INCREMENTAL STATE INCOME TAXES	0	0	0.0	64.30	0	\$0
12	BANK BALANCES		0	0.0		772	\$9,800
13	SPECIAL DEPOSITS		0	0.0		591	\$7,500
14	WORKING FUNDS		0	0.0		979	\$12,434
15	TAX COLLECTIONS AVAILABLE						
16	FICA WITHHOLDING	(\$454,586)	(1,245)	0.0		0	\$0
17	FEDERAL WITHHOLDING	(\$799,615)	(2,191)	0.0		0	\$0
18	STATE WITHHOLDING- MN	\$0	0	1.9		0	(\$10,120)
19	STATE WITHHOLDING- ND	\$0	0	69.1		0	(\$37,920)
20	STATE SALES TAX	(\$1,362,584)	(3,733)	13.7		(50,994)	(\$391,805)
21	FRANCHISE TAXES	0	0	0.0		0	-
22							
23	TOTAL CASH WORKING CAPITAL REQUIREMENT					2,531,644	\$10,861,197

Docket No. EL18-____
Volume 4A
Section 3

OTTER TAIL POWER COMPANY
Electric Utility - State of South Dakota
RATE BASE SCHEDULES
RATE BASE ADJUSTMENTS
2017 Actual Year versus 2017 Test Year

Exhibit ____ (TAA-1), Schedule B-5
Page 1 of 1

Line No.	Description	(A)	TY-01	TY-03	TY-09	TY-15	(F)	(G)
		2017 Actual Year	Normalize Plant in Service	New Depreciation Rate	Rate Case Expense Amortization	Adjust Deferred Tax for Tax Reform	Changes in Allocations due to Effect of Test Year Adjustments	2017 Test Year
Utility Plant in Service:								
1	Production	\$83,221,204					\$296,413	\$83,517,617
2	Transmission	\$23,471,468					\$59,643	\$23,531,110
3	Distribution	\$45,678,084					(\$31,720)	\$45,646,364
4	General	\$8,121,115					\$11,725	\$8,132,840
5	Intangible	\$908,747	\$1,120,433				\$1,312	\$2,030,492
6	TOTAL Utility Plant in Service	\$161,400,619	\$1,120,433	\$0	\$0	\$0	\$337,373	\$162,858,425
Accumulated Depreciation								
7	Production	(\$33,959,567)		(\$38,626)			(\$123,923)	(\$34,122,116)
8	Transmission	(\$10,478,951)		(\$22,199)			(\$26,628)	(\$10,527,777)
9	Distribution	(\$20,113,237)		\$14,121			\$13,967	(\$20,085,148)
10	General	(\$3,730,350)		\$20,771			(\$5,386)	(\$3,714,965)
11	Intangible	(\$673,931)	(\$66,759)	\$3,860			(\$973)	(\$737,803)
12	TOTAL Accumulated Depreciation	(\$68,956,035)	(\$66,759)	(\$22,072)	\$0	\$0	(\$142,943)	(\$69,187,810)
NET Utility Plant in Service								
14	Production	\$49,261,638	\$0	(\$38,626)	\$0	\$0	\$172,490	\$49,395,501
15	Transmission	\$12,992,517	\$0	(\$22,199)	\$0	\$0	\$33,015	\$13,003,334
16	Distribution	\$25,564,847	\$0	\$14,121	\$0	\$0	(\$17,753)	\$25,561,216
17	General	\$4,390,765	\$0	\$20,771	\$0	\$0	\$6,339	\$4,417,875
18	Intangible	\$234,816	\$1,053,674	\$3,860	\$0	\$0	\$339	\$1,292,689
19	NET Utility Plant in Service	\$92,444,584	\$1,053,674	(\$22,072)	\$0	\$0	\$194,430	\$93,670,615
20	Big Stone Plant capitalized items	\$0					\$0	\$0
21	Utility Plant Held for Future Use	\$2,786					\$0	\$2,786
22	Construction Work in Progress	\$0					\$0	\$0
23	Materials and Supplies	\$1,831,014					\$2,962	\$1,833,976
24	Fuel Stocks	\$845,834					\$3,292	\$849,126
25	Prepayments	(\$1,939,652)					(\$7,284)	(\$1,946,936)
26	Customer Advances	(\$73,314)					(\$275)	(\$73,589)
27	Cash Working Capital	\$2,821,120					(\$289,477)	\$2,531,643
28	Accumulated Deferred Income Taxes	(\$12,637,581)				\$476,359	(\$259,831)	(\$12,421,053)
29	Unamortized Rate Case Expense	\$0			\$458,334		\$0	\$458,334
30	Total Average Rate Base	\$83,294,792	\$1,053,674	(\$22,072)	\$458,334	\$476,359	(\$356,185)	\$84,904,903

Column references to adjustment workpapers:
(B) W/P 2017 SD TY-01
(C) W/P 2017 SD TY-03
(D) W/P 2017 SD TY-09
(E) W/P 2017 SD TY-15

**OTTER TAIL POWER COMPANY
Electric Utility - State of South Dakota
RATE BASE SCHEDULES
DESCRIPTION OF DETAILS**

**Exhibit ____ (TAA-1), Schedule B-6
Page 1 of 1**

**Summary of Approach used and Assumptions Made to the
Rate Base Schedules**

A thirteen month average calculation is used for all rate base components except Accumulated Deferred Income Taxes (ADIT) which is calculated on a simple average of the beginning and end of year balances. Please refer to the Direct Testimony of Mr. Tyler Akerman for an explanation of why ADIT remains as a simple average calculation.

OTTER TAIL POWER COMPANY
Electric Utility - State of South Dakota
RATE BASE SCHEDULES
RATE BASE JURISDICTIONAL ALLOCATION FACTORS

Exhibit __ (SDT-1), Schedule B-7
Page 1 of 5

The allocation factors on this page were used to determine South Dakota jurisdictional rate base amounts for all of the years presented in these schedules. Accounts not on this page have been directly assigned to jurisdictions.

Descriptions under the Allocation Factor column with a / means the first method was used in historic actual and projected, the method after the / is used in the test year.

The following allocation factors are used to compute South Dakota jurisdictional amounts for Plant-in-Service, Accumulated Depreciation, Accumulated Deferred Income Tax and Construction Work in Progress.

For a full description of each allocation factor, see OTP's *Cost Allocation Procedure Manual for Jurisdictional and Class Cost of Service Studies*, Mr. Stuart Tommerdahl's direct testimony, Exhibit __ (SDT-1), Schedule 3.

Line No.	Description	Allocation Basis
	<u>RATE BASE COMPONENT</u>	<u>ALLOCATION FACTOR</u>
1	<u>Electric Plant in Service</u>	
2	Production Plant	
3	Base Demand	kwh Sales Factor (E1)
4	Peak Demand	Generation Demand Factor (D1)
5	Base Energy	kwh Sales Factor (E2)
6	Transmission Plant	Transmission Demand Factor (D2)
7	Distribution Plant	
8	Primary Demand	Distribution Primary Demand Factor (D3)
9	Secondary Demand	Distribution Secondary Demand Factor (D4)
10	Primary Customer	Total Retail Service Locations Factor (C2)
11	Secondary Customer	Total Secondary Retail Service Location Factor (C3)
12	Street Lighting	Streetlight Factor (C4)
13	Area Lighting	Area Light Factor (C5)
14	Meters	Meter Factor (C6)
15	Load Management	Load Management Factor (C9)
16	Rental Equipment	Direct Assignment (South Dakota only)
17	General Plant	
18	Production	Gross Production Plant in Service Ratio (P10)
19	Transmission	Gross Transmission Plant in Service Ratio (P50)
20	Distribution	Gross Distribution Plant in Service Ratio (P60)
21	Customer Accounts	Customer Accounts Expense Ratio (OXC)
22	Customer Service & Info.	Customer Service & Info, Expense Ratio (OXI)
23	Load Management	Load Management Factor (C9)
24	Intangible Plant	
25	Production	Gross Production Plant in Service Ratio (P10)
26	Transmission	Gross Transmission Plant in Service Ratio (P50)
27	Distribution	Gross Distribution Plant in Service Ratio (P60)
28	General	Gross General Plant in Service Ratio (P90)
29	<u>Accumulated Provision for Depreciation</u>	
30	Production Plant	
31	Base Demand	Direct Assignment/kwh Sales Factor (E1)
32	Peak Demand	Direct Assignment/Generation Demand Factor (D1) Base Energy
33	Base Energy	Direct Assignment/kwh Sales Factor (E2)
34	Transmission Plant	Direct Assignment/Transmission Demand Factor (D2)
35	Distribution Plant	Direct Assignment/Gross Distribution Plant in Service Ratio (P60)
36	General Plant	Direct Assignment/Gross General Plant in Service Ratio (P90)
37	Intangible Plant	Gross General Plant in Service Ratio (P90)

OTTER TAIL POWER COMPANY
Electric Utility - State of South Dakota
RATE BASE SCHEDULES
RATE BASE JURISDICTIONAL ALLOCATION FACTORS

Line No.	RATE BASE COMPONENT	ALLOCATION FACTOR
1	<u>Electric Plant Held for Future Use</u>	
2	Production Plant	Gross Production Plant in Service Ratio (P10)
3	Base Demand	kwh Sales Factor (E1)
4	Peak Demand	Generation Demand Factor (D1)
5	Base Energy	kwh Sales Factor (E1)
6	Transmission Plant	Transmission Demand Factor (D2)
7	Distribution Plant	Gross Distribution Plant in Service Ratio (P60)
8	Primary Demand	Distribution Primary Demand Factor (D3)
9	Secondary Demand	Distribution Secondary Demand Factor (D4)
10	Primary Customer	Total Retail Service Locations Factor (C2)
11	Secondary Customer	Total Secondary Retail Service Location Factor (C3)
12	Streetlighting	Streetlight Factor (C4)
13	Area Lighting	Area Light Factor (C5)
14	Meters	Metering Factor (C6)
15	General Plant	Gross General Plant in Service Ratio (P90)
16	Production	Gross Production Plant in Service Ratio (P10)
17	Transmission	Transmission Demand Factor (D2)
18	Distribution	Gross Distribution Plant in Service Ratio (P60)
19	Customer Accounts	Customer Accounts Expense Ratio (OXC)
20	Customer Service & Info.	Customer Service & Info, Expense Ratio (OXI)
21	Intangible Plant	Gross General Plant in Service Ratio (P90)
22	Production	Gross Production Plant in Service Ratio (P10)
23	Transmission	Gross Transmission Plant in Service Ratio (P50)
24	Distribution	Gross Distribution Plant in Service Ratio (P60)
25	General	Gross General Plant in Service Ratio (P90)
26	<u>Unamortized Balance -</u>	
27	<u>Spiritwood Plant</u>	Gross Production Plant in Service Ratio (P10)
28	<u>Construction Work in Progress — Short Term</u>	
29	Production Plant	Gross Production Plant in Service Ratio (P10)
30	Transmission Plant	Transmission Demand Factor (D2)
31	Distribution Plant	Gross Distribution Plant in Service Ratio (P60)
32	General Plant	Gross General Plant in Service Ratio (P90)
33	Intangible Plant	Gross General Plant in Service Ratio (P90)

OTTER TAIL POWER COMPANY
Electric Utility - State of South Dakota
RATE BASE SCHEDULES
RATE BASE JURISDICTIONAL ALLOCATION FACTORS

Line No.	RATE BASE COMPONENT	ALLOCATION FACTOR
1	<u>Construction Work in Progress — Other</u>	
2	Production Plant	Gross Production Plant in Service Ratio (P10)
3	Transmission Plant	Transmission Demand Factor (D2)
4	Distribution Plant	Gross Distribution Plant in Service Ratio (P60)
5	General Plant	Gross General Plant in Service Ratio (P90)
6	Intangible Plant	Gross General Plant in Service Ratio (P90)
7	<u>Materials and Supplies</u>	
8	Diesel Parts and Supplies	Generation Demand Factor (D1)
9	Big Stone and Coyote Plants	
10	Base Demand	kwh Sales Factor (E1)
11	Peak Demand	Generation Demand Factor (D1)
12	Base Energy	kwh Sales Factor (E2)
13	All Other	
14	Transmission	Transmission Demand Factor (D2)
15	Distribution	Gross Distribution Plant in Service Ratio (P60)
16	<u>Fuel Stocks</u>	
17	Coal Stocks	kwh Sales Factor (E1)
18	Fuel Oil Stocks	Generation Demand Factor (D1)
19	<u>Prepayments</u>	Total Net Plant in Service Ratio (NEPIS)
20	<u>Customer Advances</u>	Total Net Plant in Service Ratio (NEPIS)
21	<u>Cash Working Capital</u>	Separately Calculated by Jurisdiction
22	<u>Accumulated Deferred Income Taxes</u>	
23	Items South Dakota flows through:	
24	Federal	Total Net Plant in Service Ratio (NEPIS)
25	excluding South Dakota (NPMNR)	
26	Minnesota	Total Net Plant in Service — MN Ratio (NPISM)
27	North Dakota	Total Net Plant in Service — ND Ratio (NPISN)
28	All Other:	
29	Federal	Total Net Plant in Service Ratio (NEPIS)
30	Minnesota	Total Net Plant in Service — MN Ratio (NPISM)
31	North Dakota	Total Net Plant in Service — ND Ratio (NPISN)

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OTTER TAIL POWER COMPANY
Electric Utility - State of South Dakota
RATE BASE SCHEDULES
RATE BASE JURISDICTIONAL ALLOCATION FACTORS
Allocators - Demand, Energy and Customer

Exhibit ___ (SDT-1), Schedule B-7
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Line No.	Item	Factor	2017 Actual Year			2017 Test Year		
			Total Utility	South Dakota	All Other	Total Utility	South Dakota	All Other
1	MWH Consumption at Generators - Partial	E1	4,636,467	432,349	4,204,118	4,700,055	440,126	4,259,929
2	Percentage		100.000000%	9.324967%	90.675033%	100.000000%	9.364273%	90.635727%
3	MWH Consumption at Generators - Total	E2	5,190,164	468,064	4,722,100	5,270,535	476,716	4,793,819
4	Percentage		100.000000%	9.018289%	90.981711%	100.000000%	9.044926%	90.955074%
5	Generation Demand Factor	D1	715,048	65,922	649,126	726,384	67,131	659,253
6	Percentage		100.000000%	9.219241%	90.780759%	100.000000%	9.241806%	90.758194%
7	Transmission Demand Factor	D2	719,347	65,922	653,425	730,683	67,131	663,552
8	Percentage		100.000000%	9.164145%	90.835855%	100.000000%	9.187431%	90.812569%
9	Distribution - Primary Demand Factor	D3	848,531	83,402	765,129	865,827	85,082	780,745
10	Percentage		100.000000%	9.828987%	90.171013%	100.000000%	9.826674%	90.173326%
11	Distribution - Secondary Demand Factor	D4	1,102,886	112,429	990,457	1,126,868	114,568	1,012,300
12	Percentage		100.000000%	10.194073%	89.805927%	100.000000%	10.166941%	89.833059%
13	Customer or Meter Factors							
14	Total Retail Customers	C1	132,688	11,597	121,091	132,688	11,597	121,091
15	Percentage		100.000000%	8.740052%	91.259948%	100.000000%	8.740052%	91.259948%
16	Retail Service Locations	C2	139,438	12,150	127,288	139,438	12,150	127,288
17	Percentage		100.000000%	8.713550%	91.286450%	100.000000%	8.713550%	91.286450%
18	Secondary Service Locations	C3	139,367	12,141	127,226	139,367	12,141	127,226
19	Percentage		100.000000%	8.711531%	91.288469%	100.000000%	8.711531%	91.288469%
20	Street Lighting Factor	C4	5,697,611	628,203	5,069,408	5,697,611	628,203	5,069,408
21	Percentage		100.000000%	11.025726%	88.974274%	100.000000%	11.025726%	88.974274%
22	Area Lighting Factor	C5	5,010,334	329,414	4,680,920	5,010,334	329,414	4,680,920
23	Percentage		100.000000%	6.574691%	93.425309%	100.000000%	6.574691%	93.425309%
24	Meter Factor	C6	52,720,954	4,830,523	47,890,431	52,720,954	4,830,523	47,890,431
25	Percentage		100.000000%	9.162435%	90.837565%	100.000000%	9.162435%	90.837565%
26	Meter Reading Factor	C7	181,527	16,416	165,111	181,527	16,416	165,111
27	Percentage		100.000000%	9.043283%	90.956717%	100.000000%	9.043283%	90.956717%
28	System Service Locations	C8	139,463	12,150	127,313	139,463	12,150	127,313
29	Percentage		100.000000%	8.711988%	91.288012%	100.000000%	8.711988%	91.288012%
30	Load Management Factor	C9	42,361	4,092	38,269	42,361	4,092	38,269
31	Percentage		100.000000%	9.659829%	90.340171%	100.000000%	9.659829%	90.340171%

OTTER TAIL POWER COMPANY
 Electric Utility - State of South Dakota
 RATE BASE SCHEDULES

Exhibit ____ (SDT-1), Schedule B-7
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RATE BASE JURISDICTIONAL ALLOCATION FACTORS

Allocators - General Plant, Operation and Maintenance Expense and Taxes

Line No.	Item	Factor	2017 Actual Year			2017 Test Year		
			Total Utility	South Dakota	All Other	Total Utility	South Dakota	All Other
1	Production Plant	P10	901,391,463	83,221,204	818,170,258	901,370,600	83,517,617	817,852,983
2	Percentage		100.000000%	9.232526%	90.767474%	100.000000%	9.265625%	90.734375%
3	Distribution Plant	P60	481,185,961	45,678,084	435,507,877	481,185,961	45,646,364	435,539,597
4	Percentage		100.000000%	9.492813%	90.507187%	100.000000%	9.486221%	90.513779%
5	General Plant	P90	88,167,884	8,121,115	80,046,769	88,167,884	8,132,840	80,035,044
6	Percentage		100.000000%	9.210968%	90.789032%	100.000000%	9.224266%	90.775734%
7	Electric Plant in Service	EPIS	1,926,147,002	161,400,619	1,764,746,383	1,938,272,718	162,858,425	1,775,414,294
8	Percentage		100.000000%	8.379455%	91.620545%	100.000000%	8.402245%	91.597755%
9	Net Electric Plant in Service	NEPIS	1,178,514,260	92,444,584	1,086,069,676	1,189,676,605	93,670,615	1,096,005,990
10	Percentage		100.000000%	7.844163%	92.155837%	100.000000%	7.873620%	92.126380%
11	Operation and Maintenance Expense							
12	Production Expense (Excl Energy)	OXPD	24,925,633	2,319,809	22,605,824	26,555,059	2,481,437	24,073,622
13	Percentage		100.000000%	9.306922%	90.693078%	100.000000%	9.344498%	90.655502%
14	Distribution Expense	OXD	17,761,845	1,686,406	16,075,438	17,903,711	1,699,129	16,204,582
15	Percentage		100.000000%	9.494545%	90.505455%	100.000000%	9.490373%	90.509627%
16	Customer Accounts Expense	OXC	12,912,128	1,144,837	11,767,291	13,007,046	1,153,253	11,853,793
17	Percentage		100.000000%	8.866368%	91.133632%	100.000000%	8.866368%	91.133632%
18	Customer Service & Information Expense	OXI	2,287,040	199,888	2,087,151	2,291,521	200,280	2,091,241
19	Percentage		100.000000%	8.740052%	91.259948%	100.000000%	8.740052%	91.259948%
20	Other Deferred Income Tax Factor							
21	Minnesota	NPISM	686,515,378	0	686,515,378	691,415,387	0	691,415,387
22	Percentage		100.000000%	0.000000%	100.000000%	100.000000%	0.000000%	100.000000%
23	South Dakota	NPISN	399,554,298	0	399,554,298	404,590,603	0	404,590,603
24	Percentage		100.000000%	0.000000%	100.000000%	100.000000%	0.000000%	100.000000%
25	Excluding South Dakota	NPMNR	1,086,069,676	0	1,086,069,676	1,096,005,990	0	1,096,005,990
26	Percentage		100.000000%	0.000000%	100.000000%	100.000000%	0.000000%	100.000000%
27	Long-Term CWIP Ratio (W/AFDC)	CWIPLT	32,264,665	0	32,264,665	32,264,665	0	32,264,665
28	Percentage		100.000000%	0.000000%	100.000000%	100.000000%	0.000000%	100.000000%
29	Revenue	R10	372,153,628	32,929,872	339,223,756	369,873,771	30,650,015	339,223,756
30	Percentage		100.000000%	8.848462%	91.151538%	100.000000%	8.286615%	91.713385%
31	Labor and Related Expense	LRE	140,609,967	12,490,627	128,119,341	143,633,260	12,953,073	130,680,187
32	Percentage		100.000000%	8.883173%	91.116827%	100.000000%	9.018157%	90.981843%