# **ANNUAL REPORT**

## OF

# JURISDICTIONAL EARNINGS

### BY

# NORTHERN STATES POWER COMPANY, doing business as Xcel Energy

## TO THE

# SOUTH DAKOTA PUBLIC UTILITIES COMMISSION

FOR THE YEAR ENDING

**DECEMBER 31, 2017** 

South Dakota Jurisdiction Electric Utility



2017

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# **Electric Utility**

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(Dollars In Thousands)

### I. RETURN ON EQUITY (ROE)

<u>Actı</u>	al Return on Equity (ROE)	<u>2017</u>	<u>2016</u>
1	Operating Income from Electric Operations (E-2):	\$38,547	\$42,249
2	Average Regulated Rate Base (E-3):	\$650,347	\$589,109
3	Rate of Return on Rate Base (ROR) (line 1 / line 2):	5.93%	7.17%
4	Weighted Cost of Debt (E-4):	2.21%	2.23%
5	Weighted Cost of Preferred Stock (E-4):	0.00%	0.00%
6	% of Equity in Capital Structure (E-4):	53.08%	53.16%
7	Return on Equity (ROE):	7.00%	9.30%
ROE	, Normalized for Weather Impact on Sales	<u>2017</u>	<u>2016</u>
8	Operating Income from Electric Operations:	\$38,547	\$42,249
9	Impact of weather on Mwh Sales:	4,966	23,671
10	Impact of weather on Electric Operating Income :	\$303	\$1,192
11	Weather-Normalized Operating Income:	\$38,243	\$41,057
12	Average Regulated Rate Base:	\$650,452	\$589,523
13	Weather-Normal Rate of Return on Rate Base (ROR):	5.88%	6.96%
14	Weather-Normalized Return on Equity (ROE):	6.91%	8.91%

(Dollars In Thousands)

### **II. OPERATING INCOME**

Line	ltem	2017 <u>Total NSP</u>	2017 <u>S.D. Juris.</u>	2016 <u>S.D. Juris.</u>	Annual <u>Change</u>
	<b>Operating Revenues:</b>				
1	Residential	1,351,813	89,837	90,042	-0.2%
2	Small Comm. & Ind.	1,541,292	96,473	95,626	0.9%
3	Large Comm. & Ind.	692,058	29,275	28,510	2.7%
4	Public Street & Highway Ltg	25,661	1,812	1,781	1.8%
5	Other Sales to Publ Auth	<u>9,688</u>	<u>3</u>	3	-1.6%
	Total Retail	3,620,512	217,400	215,962	0.7%
6	Interdepartmental	659	0	0	*
7	Sales for Resale	79,811	5,006	4,056	23.4%
8	Interchange Agreement	485,391	31,453	28,865	9.0%
9	Other	274,340	17,088	17,039	0.3%
10	Total Revenues:	4,460,713	270,947	265,922	1.9%
	Operating Expenses:				
11	Production	1,849,877	114,780	112,475	2.0%
12	Transmission	366,682	24,241	21,654	11.9%
13	Distribution	110,677	6,834	7,158	-4.5%
14	Customer Billing	55,415	3,113	3,141	-0.9%
15	Customer Service	150,927	1,273	356	257.7%
16	Sales & Marketing	144	50	50	0.5%
17	Admin. & General	249,235	17,382	16,324	6.5%
18	Depreciation & Amortization	635,065	44,448	36,062	23.3%
19	Property Taxes	196,555	11,533	10,418	10.7%
20	Other General Taxes <sup>1</sup>	30,895	2,042	1,916	6.6%
21	Income Taxes	0	0	0	*
22	Deferred Income Taxes & ITC	160,269	6,705	14,118	-52.5%
23	Total Expenses:	3,805,741	232,401	223,672	3.9%
24	Regulated Operating Income	654,972	38,547	42,249	-8.8%

<sup>1</sup> Includes payroll taxes.

(Dollars In Thousands)

### **III. AVERAGE RATE BASE**

Line	<u>Item</u>	2017 <sup>2</sup> Total NSP	2017 <sup>2</sup> <u>S.D. Juris.</u>	2016 <sup>2</sup> <u>S.D. Juris.</u>	Annual <u>Change</u>
1	Plant in Service	19,862,046	1,360,171	1,212,715	12.2%
2	Accumulated Depreciation	8,972,790	595,007	523,562	13.6%
3	Net Plant in Service	10,889,256	765,164	689,153	11.0%
4	Plant Held for Future Use	0	0	0	*
5	Construct Work in Progress	0	0	0	*
6	Materials and Supplies	213,433	14,082	12,689	11.0%
7	Fuel Stocks	91,319	5,727	5,588	2.5%
8	Prepayments & Other Rate Base	85,151	7,095	6,991	1.5%
9	Customer Deposits	(94,837)	(97)	(142)	-31.9%
10	Cash Working Capital	0	0	0	*
11	Other Rate Base <sup>1</sup>	23,636	3,065	4,712	-35.0%
12	Accum. Deferred Taxes	(2,376,847)	(144,690)	(129,882)	11.4%
13	Total Other Rate Base	(2,058,145)	(114,818)	(100,044)	14.8%
14	Total Average Rate Base	8,831,111	650,347	589,109	10.4%

<sup>1</sup> Includes deferred assets and liabilities such as accrued vacations, post-retirement medical benefits (FASB 106), post employment benefits (FASB 112), unfunded pension liability, environmental cleanup, severance accrual, etc.

<sup>2</sup> Average rate base is based on 13 monthly averages.

(Dollars In Thousands)

### IV. COST OF CAPITAL

#### 2017 Actual

<u>Line</u>	ltem	<u>Amount</u>	<u>% of Total</u>	<u>Cost</u>	Weighted <u>Cost</u>
1	Long-Term Debt <sup>1</sup>	\$4,826,533	46.92%	4.71%	2.21%
2	Short-Term Debt	<u>\$0</u>	<u>0.00%</u>	<u>0.00%</u>	<u>0.00%</u>
3	Total Debt	\$4,826,533	46.92%	4.71%	2.21%
4	Preferred Stock <sup>2</sup>	\$0	0.00%	0.00%	0.00%
5	Common Equity <sup>2</sup>	<u>\$5,459,858</u>	<u>53.08%</u>	7.00%	3.72%
6	Total Equity	\$5,459,858	53.08%		
7	Total Capital	\$10,286,391	100.00%		5.93%

#### 2017 Normalized

<u>Line</u>	ltem	<u>Amount</u>	<u>% of Total</u>	<u>Cost</u>	Weighted <u>Cost</u>
8	Long-Term Debt <sup>1</sup>	\$4,826,533	46.92%	4.71%	2.21%
9	Short-Term Debt	<u>\$0</u>	<u>0.00%</u>	<u>0.00%</u>	<u>0.00%</u>
10	Total Debt	4,826,533	46.92%	4.71%	2.21%
11	Preferred Stock <sup>2</sup>	\$0	0.00%		0.00%
12	Common Equity <sup>2</sup>	<u>\$5,459,858</u>	<u>53.08%</u>	6.91%	3.67%
13	Total Equity	\$5,459,858	53.08%		
14	Total Capital	\$10,286,391	100.00%		5.88%

<sup>1</sup> Long-term debt is a 13 month average

<sup>2</sup> Preferred stock and common stock are 13 month averages

### **PUBLIC DOCUMENT CONFIDENTIAL DATA EXCISED**

**Northern States Power Company** 

**Electric Utility - South Dakota** 

(Dollars In Thousands)

#### V. **REQUIRED RATE OF RETURN**

2017 Based on authorized ROE

		[TRADE SECRET BEGINS Weighted				
<u>Line</u>	<u>ltem</u>	<u>Amount</u>	<u>% of Total</u>	<u>Cost</u>	<u>Cost</u>	
1	Long-Term Debt <sup>1</sup>					
2	Short-Term Debt					
3	Total Debt					
4	Preferred Stock <sup>2</sup>					
5	Common Equity <sup>2</sup>					
6	Total Equity					
Ū.						
7	Total Capital					
	<u> </u>		TF	RADE SECF	RET ENDS	

- <sup>1</sup> Long-term debt is a 13 month average
   <sup>2</sup> Preferred stock and common stock are 13 month averages
- <sup>3</sup> Confidential per Settlement in Docket EL14-058

### PUBLIC DOCUMENT CONFIDENTIAL DATA EXCISED

### **Northern States Power Company**

### Electric Utility - South Dakota

(Dollars In Thousands)

### VI. REVENUE DEFICIENCY

201	7 Based on authorized ROE		Weather
Line	Item	Actual 2017 <u>S.D. Juris.</u>	Normalized 2017 <u>S.D. Juris.</u>
	Revenue Deficiency	[TRADE SEC	RET BEGINS
1	Total Operating Income		
2	Total Average Rate Base		
3	Require Operating Income (Rate Base * Required Return)		
4	Operating Income		
5	Operating Income Deficiency		
6	Revenue Conversion Factor(1/(1-Composite Tax Rate))		
7	<b>Revenue Deficiency</b> (Income Deficiency * Conversion Factor)	TRADE SE	CRET ENDS]

ADDENDUM Page 1 of 5

### Northern States Power Company (SD) Electric Utility - South Dakota Retail Jurisdiction Cost of Service Study 2017 Actuals

#### Summary Reports

June 1, 2018

#### Northern States Power Company (SD) Electric Utility - South Dakota Retail Jurisdiction Cost of Service Study 2017 Actuals

#### Rate Base Summary

Line No.	NSPM - 01 Rate Base Schedule	<u>Total</u>	SD Electric	Other
1	Plant Investment	19,862,046	1,360,171	18,501,875
2	Depreciation Reserve	<u>8,972,790</u>	<u>595,007</u>	8,377,784
3	Net Utility Plant	10,889,256	765,164	10,124,091
4	CWIP	0	0	0
5	Accumulated Deferred Taxes	2,838,454	198,391	2,640,063
6	DTA - NOL Average Balance	(215,280)	(41,351)	(173,929)
7	DTA - State Tax Credit Average Balance	(1,912)	(46)	(1,865)
8	DTA - Federal Tax Credit Average Balance	(244,415)	<u>(12,304)</u>	<u>(232,111)</u>
9	Total Accumulated Deferred Income Taxes	2,376,847	144,690	2,232,157
10	Materials and Supplies	213,433	14,082	199,351
11	Fuel Inventory	91,319	5,727	85,592
12	Non-plant Assets and Liabilities	23,636	3,065	20,571
13	Customer Advances	(11,538)	(2,490)	(9,048)
14	Customer Deposits	(94,837)	(97)	(94,740)
15	Prepaids and Other	93,133	6,029	87,104
16	Regulatory Amortizations	<u>3,556</u>	<u>3,556</u>	<u>0</u>
17	Total Other RB Items	318,703	29,873	288,830
18	Total Rate Base	8,831,111	650,347	8,180,764

#### Income Statement Summary

	0	0	0
	U	U	0
AFDC Debt AFDC Equity	0	0	0
AFDC Debt	0	0	0
	0	0	010,420
Total Operating Income	654,972	38,547	616,425
Total Expenses	3,805,741	232,401	3,573,34
Total Taxes	387,719	20,279	367,440
	(0)	U	(0)
Total State & Federal Income Taxes	(0)	20,279	367,440 (0)
Total Taxes Other Than Income	30,895 387,719	2,042 <b>20,279</b>	20,000 <b>367,44</b> (
Payroll & Other Taxes	30,895	2,042	28,853
Deferred Income Tax & ITC	160,269	<u>(3,247)</u> 6,705	153,565
Less Deferred Federal Tax Credits	(1,404) (83,667)	(93) <u>(5,247)</u>	<u>(1,311)</u> (78,420
Less Deferred State Tax Credits	(1,404)	(93)	(1,311
Deferred Taxes - NOL	140,903	1,297	104,535
Deferred Taxes	140,963	10,822	130,14
ITC Amortization	(1,455)	(74)	(1,381
Taxes: Property Taxes	196,555	11,532	185,022
Taxos			
	9,457	2,047	7,409
Depreciation Amortization	625,608	42,401	583,207
Depreciation	625 600	12 101	502 207
Total Operating Expenses	2,782,957	167,673	2,615,28
Administrative & General	<u>249,235</u> 2 782 957	<u>17,382</u>	<u>231,853</u>
Sales, Econ Dvlp & Other			
Customer Service & Information	150,927 144	1,273 50	149,653 94
0	55,415		
Customer Accounting		3,113	52,302
Distribution	256,056 110,677	6,834	103,842
Transmission	256,058	16,927	239,130
Transmission IA	110,624	7,313	103,31
Regional Markets	10,168	672	9,496
Production Total	711,517	46,717	664,800
Production - Other	<u>(0)</u>	<u>(0)</u>	<u>(0)</u>
Production - Purchased Demand	146,830	9,707	137,124
Production - Variable IA O&M	4,883,821	322,860	4,560,96
Production - Variable	3,563	233	3,330
Production - Fixed IA O&M	48,539	3,209	45,330
Production - Fixed IA Investment	0	0	0
Production - Fixed	507,702	33,246	474,456
Fuel & Purchased Energy Total	1,128,192	67,390	1,060,80
Purchased Energy - Windsource	<u>6,074</u>	<u>0</u>	6,074
Variable IA Production Fuel	13,161	870	12,291
Deferred Fuel	0	0	0
Fuel	1,108,958	66,520	1,042,43
Operating Expenses:			
Expenses			
Total Operating Revenues	4,460,713	270,947	4,189,76
Other Operating Rev - Non-Retail	<u>839,542</u>	<u>53,547</u>	<u>785,998</u>
Transportation	0	0	0
Interdepartmental	658	0	658
Retail	3,620,514	217,400	3,403,11
Operating Revenues			

#### Income Tax Summary

18 19	Total Taxes Total Federal and State Income Taxes	(0)	0	(0)
17				
16	Total Federal Income Taxes	(0)	0	(0)
15	Deferred Federal Tax Credits due to NOL			
14	Less Federal Tax Credits			
13	Federal Tax before Credits (Line 39 x Line 40)	(0)	0	(0)
12	Federal Income Tax Rate	35.00%	35.00%	35.00%
11	Federal Taxable Income	(0)	0	(0)
10	Federal Taxes			
9				
8	Total State Income Taxes	-	-	-
7	Deferred State Tax Credits due to NOL	_	<u>0</u>	_
6	Less State Tax Credits		0	
5	State Taxes before Credits (Line 31 x Line 32)		0	
4	State Income Tax Rate		0.00%	
3	State Taxable Income	(0)	0	(0)
2	State Taxes			
1				
		, ,		,,-•
20	Total Tax Deductions	1,632,698	<u>2,907</u> 100,344	<u>1,532,354</u>
26	Other Tax / Book Timing Differences	<u>38,876</u>	<u>2,987</u>	35,890
25	NOL Utilization	200,000	0,170	200,920
24	NOL Generated	259,096	3,175	255,920
23	Tax Depreciation and Removals	1,072,598	75,488	997,110
22	Nuclear Outage Accounting	66,961	4,321	62,640
21	Debt Interest Expense (Line 19 x Line 20)	195,168	14,373	180,795
20	Weighted Cost of Debt	2.21%	2.21%	2.21%
19	Total Rate Base	8,831,111	650,347	8,180,764
18	Tax Deductions			
17		511,120	01,131	313,323
16	Total Tax Additions	977,726	61,797	915,929
14 15	Other Book Additions	,000	1,007	10,490
13 14	Nuclear Outage Accounting Avoided Tax Interest	62,922 14,565	4,064 1,067	58,858 13,498
12 13		114,362	7,560	106,802
11	Deferred Income Taxes and ITC Nuclear Fuel Burn (ex D&D)	160,269	6,705	153,565
10	Book Depreciation	625,608	42,401	583,207
9	Tax Additions	605 600	40 404	E00.007
8	Tay Additions			
7	Total Before Tax Book Income	654,972	38,547	616,425
6	Taxes Other than Income	<u>387,719</u>	<u>20,279</u>	<u>367,440</u>
5	Amortization	9,457	2,047	7,409
4	Book Depreciation	625,608	42,401	583,207
3	less: Total Operating Expenses	2,782,957	167,673	2,615,284
2	Total Operating Revenues	4,460,713	270,947	4,189,766
1	Income Before Taxes			
		Total	SD Electric	Other
ne No				

### PUBLIC DOCUMENT

CONFIDENTIAL DATA EXCISED

Northern States Power Company (SD) Electric Utility - South Dakota Retail Jurisdiction Cost of Service Study 2017 Actuals (Dollars in Thousands)

ADDENDUM Page 5 of 5

#### Revenue Requirement & Return Summary

Line No.	NSPM - 04 Revenue Deficiency Schedule	Total	SD Electric	Other
1	Weighted Cost of Capital			
2	Active Rates and Ratios Version	Proposed	Proposed	Propose
3	Cost of Short Term Debt	[TRADE SECRET BEGINS		
4	Cost of Long Term Debt	-		
5	Cost of Preferred Stock			
6	Cost of Common Equity			
7	Ratio of Short Term Debt			
8	Ratio of Long Term Debt			
9	Ratio of Preferred Stock			
10	Ratio of Common Equity			
11	Weighted Cost of STD			
12	Weighted Cost of LTD			
13	Weighted Cost of Debt			
14	Weighted Cost of Preferred Stock			
15	Weighted Cost of Equity			
16	Required Rate Of Return			
17	Required Rate Of Return			TRADE SECRET ENDS
18	Composite Income Tax Rate			TRADE SECRET ENDS
10	State Tax Rate			
20	Federal Statuatory Tax Rate	35.00%	35.00%	35.00%
20	Federal Effective Tax Rate	35.00%	<u>35.00%</u>	<u>35.00%</u>
21	Composite Tax Rate	35.00%	<u>35.00%</u>	<u>35.00%</u> 35.00%
22	Composite Tax Rate	35.00%	35.00%	35.00%
23	Bata of Batume (BOB)			
24 25	Rate of Return (ROR) Total Operating Income	654,972	38,547	616,425
25	Total Rate Base	8,831,111	650,347	8,180,764
20 27		7.42%		
	ROR (Operating Income / Rate Base)	7.42%	5.93%	7.54%
28				
29	Return on Equity (ROE)	054.070	00 517	040.400
30	Total Operating Income	654,972	38,547	616,425
31	Debt Interest (Rate Base * Weighted Cost of Debt)	(195,168)	(14,373)	(180,795
32	Earnings Available for Common	459,804	24,174	435,630
33	Equity Rate Base (Rate Base * Equity Ratio)	4,687,554	345,204	4,342,350
34	ROE (earnings for Common/Equity Rate Base)	9.81%	7.00%	10.03%
35				
36	Revenue Deficiency			
37	Required Operating Income (Rate Base * Required Return)	628,775	46,305	582,470
38	Total Operating Income	654,972	<u>38,547</u>	<u>616,425</u>
39	Operating Income Deficiency	(26,197)	7,758	(33,955
40				
41	Revenue Conversion Factor (1/(1-Composite Tax Rate))	<u>1.538462</u>	<u>1.538462</u>	1.538462
42	Revenue Deficiency (Income Deficiency * Conversion Factor)	(40,303)	11,935	(52,238
43				
44	Total Revenue Requirements			
45	Total Retail Revenues	3,621,171	217,400	3,403,77
46	Revenue Deficiency	(40,303)	11,935	(52,238
47	Total Revenue Requirements	3,580,869	229,335	3,351,533