

TRANSMISSION FACILITY ADJUSTMENT For the Pro Forma Year Ended May 31, 2016

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BLACK HILLS POWER COST RECOVERY RATE - TRANSMISSION FACILITIES Rate Calculation Effective June 1, 2015

Exhibit 5 Page 2 Schedule 5-1

Line		D. C	-	101
No.	Description	Reference	_ <u> </u>	outh Dakota
2	Transmission Facilities Year 2 Revenue Requirement (June 1, 2015 through May 31, 2016)	Schedule 5-3, line 2	\$	353,298
3	Transmission racinites real 2 Revenue Requirement (June 1, 2015 through Way 51, 2010)	Schedule 5-5, line 2	3	333,276
4	Production Capacity Allocators by Customer Class			
5	Residential	Section No. 3C, Sheet No. 16		34.00%
6	Small General Service	Section No. 3C, Sheet No. 16		34.33%
7	Large General Service and Industrial	Section No. 3C, Sheet No. 16		30.70%
8	Lighting	Section No. 3C, Sheet No. 16		0.97%
9	66			
10	Revenue Requirement by Customer Class			
11	Residential			
12	Forecasted 2nd Year TFA Revenue Requirement	line 2 x line 5	\$	120,121
13	Balancing Account Under/(Over) Recovery	Schedule 5-2, line 10		(56,037)
14	Net Residential Revenue Requirement	line 12 + line 13	\$	64,085
15				
16	Small General Service			
17	Forecasted 2nd Year TFA Revenue Requirement	line 2 x line 6	\$	121,287
18	Balancing Account Under/(Over) Recovery	Schedule 5-2, line 23		(49,809)
19	Net Small General Service Revenue Requirement	line 17 + line 18	\$	71,478
20			-	
21	Large General Service and Industrial			
22	Forecasted 2nd Year TFA Revenue Requirement	line 2 x line 7	\$	108,462
23	Balancing Account Under/(Over) Recovery	Schedule 5-2, line 36		(48,120)
24	Net Large General Service and Industrial Revenue Requirement	line $22 + line 23$	\$	60,343
25				
26	Lighting			
27	Forecasted 2nd Year TFA Revenue Requirement	line 2 x line 8	\$	3,427
28	Balancing Account Under/(Over) Recovery	Schedule 5-2, line 49		(372)
29	Net Lighting Revenue Requirement	line 27 + line 28	_\$	3,055
30				
31	Forecasted South Dakota kWh sales	(1) 11 5 5 10 1 10 C D TYP C 1 - P 1		515 000 540
32	Residential	6/1/15 - 5/31/16 BHP Sales Budget		515,920,540
33	Small General Service	6/1/15 - 5/31/16 BHP Sales Budget		425,969,988
34	Large General Service and Industrial	6/1/15 - 5/31/16 BHP Sales Budget		527,698,670
35	Lighting	6/1/15 - 5/31/16 BHP Sales Budget		14,208,746
36	T			
37	Transmission Facilities Adjustment Rate / kWh (June 1, 2015 through May 31, 2016)	1: 14 : 1: 22		0.00013
38	Residential	line 14 ÷ line 32 line 19 ÷ line 33	\$	0.00012 0.00017
39 40	Small General Service and Industrial	line 19 + line 33	S	0.00017
41	Large General Service and Industrial Lighting	line 29 ÷ line 35	\$ \$	0.00011
+1	Lighting	IIIIC 29 TILLE 33	3	0.00022



BLACK HILLS POWER TFA ANNUAL BALANCING ACCOUNT TRUE-UP

Line No.			Actual Jun-14	Actual Jul-14		ctual ig-14	Actual Sep-14	Actual Oct-14		Actual Nov-14	Actual Dec-14	Act Jan	tual 1-15	Forecasted Feb-15		recasted Mar-15		ecasted or-15		recasted May-15		recasted un-15
1	Residential			_																		
2	Expected Recovery	\$		\$ 5,213	\$	5,213 \$			13 \$	5,213			5,213 S		\$	5,213	S	5,213	\$	5,213	\$	2,607
3	Actual Revenues	_	3,020	8,271		9,987	8,348	7,5		8,350	12,469		13,151	11,663		11,651		9,642		8,442		3,978
4	Monthly Under/(Over) Recovery		(414)	(3,058)		(4,774)	(3,135)	(2,3	36)	(3,137)	(7,256)		(7,938)	(6,450)		(6,438)		(4,429)		(3,229)		(1,371)
6	Days in Current Month		30	31		31	30		31	30	31		31	28		31		30		31		30
7	Interest Rate		7.00%	7.00%		7.00%	7.00%	7.0	10%	7.00%	7.00%		7.00%	7.00%		7.00%		7.00%		7.00%		7.00%
8	Monthly Interest		(2)	(21)		(49)	(66)		(82)	(98)	(145)		(193)	(210)		(272)		(291)		(321)		(321)
10 11	Balancing Account	S	(416)	\$ (3,494)	S	(8,317) \$	(11,518)	S (13,9	36) \$	(17,172)	\$ (24,573)	s ((32,705) \$	(39,365)	\$	(46,075)	S	(50,794)	\$	(54,345)	S	(56,037)
12	-														_							
13	Small General Service																					
14	Expected Recovery	\$	2,824	\$ 5,648	\$	5,648	5,648	\$ 5,6	48 \$	5,648	\$ 5,648	S	5,648 \$	5,648	\$	5,648	\$	5,648	\$	5,648	\$	2,824
15	Actual Revenues		3,235	10,154		12,039	10,493	9,	03	8,414	10,481	1	10,598	8,855		9,336		8,729		8,915		5,186
16 17	Monthly Under/(Over) Recovery		(411)	(4,506)		(6,391)	(4,845)	(3,4	55)	(2,766)	(4,833)		(4,950)	(3,207)		(3,688)		(3,081)		(3,267)		(2,362)
18	Interest:																					
19	Days in Current Month		30	31		31	30		31	30	31		31	28		31		30		31		30
20	Interest Rate		7.00%	7.00%		7.00%	7.00%		00%	7.00%	7.00%		7.00%	7.00%		7.00%		7.00%		7.00%		7.00%
21	Monthly Interest		(2)	(29)		(67)	(94)	(18)	(131)	(164)		(195)	(194)		(238)		(250)		(279)		(285)
23 24	Balancing Account	S	(413)	\$ (4,949)	S	(11,407) \$	(16,346)	\$ (19,9	19) \$	(22,815)	S (27,812)	s ((32,958) \$	(36,359)	S	(40,285)	S	(43,616)	\$	(47,162)	\$	(49,809)
25	Lana Carrel Sanda and Industrial																					
26	Large General Service and Industrial	S	1200	\$ 8,719	er.	0.710	0.710	e 0.	110 6	0.710	6 9710		0.710 6	0.710		0.710	6	0.710	•	0.710		4360
27 28	Expected Recovery Actual Revenues	Þ	4,360 2,844	\$ 8,719 12,924	D	8,719 S	8,719 13,678	13.3	119 \$	8,719 12,568	\$ 8,719 13,346		8,719 \$ 12,903	8,719 12,435	3	8,719 12,409	3	8,719 11,231	3	8,719 12,117	3	4,360 7,408
29	Monthly Under/(Over) Recovery	_	1,516	(4,205)		(4,935)	(4,959)		41)	(3,849)	(4,627)		(4,183)	(3,716)		(3,690)		(2,512)		(3,398)		(3,048)
30	moduly ones (over) moderney		1,010	(1,203)		(1,755)	(1,100)	(13	, , , ,	(0,012)	(1,027)		(1,100)	(5). (5)		(3,070)		(-,-,-)		(5,570)		(5,010)
31	Interest:																					
32	Days in Current Month		30	31		31	30		31	30	31		31	28		31		30		31		30
33	Interest Rate	_	7.00%	7.00%		7.00%	7.00%		00%	7.00%	7.00%		7.00%	7.00%		7.00%		7.00%		7.00%		7,00%
34 35	Monthly Interest		9	(16)		(45)	(73)	(103)	(123)	(155)		(181)	(184)		(227)		(235)		(265)		(275)
36 37	Balancing Account	\$	1,524	\$ (2,697)	S	(7,677)	(12,708)	\$ (17,	(53) S	(21,424)	s (26,206)	s ((30,570) \$	(34,470)	\$	(38,386)	\$	(41,133)	5	(44,796)	S	(48,120)
38																			-			
39	Lighting			7 2 1 (2000)			1	_			5		10200	2000		7070140		Alexander			1000	
40	Expected Recovery	\$		\$ 488	S	488			188 \$	488		\$	488 \$		\$		\$	488	S	488	\$	244
41	Actual Revenues	_	119	420		459	502		570	600	696		672	547		525		492	_	431		190
42	Monthly Under/(Over) Recovery		125	68		30	(13)		(82)	(111)	(207)		(183)	(59)		(37)		(4)		57		54
44	Interest:																					
45	Days in Current Month		30	31		31	30		31	30	31		31	28		31		30		31		30
46	Interest Rate		7.00%	7.00%		7.00%	7.00%	7.	00%	7.00%	7.00%		7.00%	7.00%		7.00%		7.00%		7.00%		7.00%
47 48	Monthly Interest		1	1		1	1		1	0	(1)		(2)	(2)		(3)		(3)		(3)		(2)
49	Balancing Account	S	126	\$ 196	S	227	215	S	33 S	22	\$ (186)	S	(372) \$	(433)	S	(472)	S	(479)	S	(424)	S	(372)



BLACK HILLS POWER COST OF SERVICE - TRANSMISSION FACILITIES Year Two Revenue Requirement Calculation

Exhibit 5 Page 4 Schedule 5-3

Line			Sou	th Dakota
No.	Description	Reference	Jui	risdiction
1	Operating Revenue Required			
2	Transmission Facilities Revenue		\$	353,298
3				
4	Operating Expenses			
5	Depreciation	Schedule 5-5, line 6		87,669
6	Assessed Filing Fee	Estimate		5,345
7	Total Operating Expenses			93,014
8				
9	Other Operating Revenues	Schedule 5-10, line 4 * 12		66,828
10				
11	Operating Income Before Tax	(line 2 - line 7 + line 9)		327,112
12				
13	Federal Income Tax	Schedule 5-5, line 15		83,000
14				
15	Return (Operating Income)	Schedule 5-5, line 12 (line 11 - line 13)	\$	244,112
16		90		
17	Rate of Return			7.76%
18				
19	Rate Base			
20	Plant in Service	Schedule 5-4, line 2		3,247,000
21	Less: Accumulated Depreciation	Schedule 5-4, line 5		72,178
22	Less: Accumulated Deferred Income Taxes	Schedule 5-4, line 15		29,052
23				
24	Total Rate Base	(line 20 - line 21 - line 22)	\$	3,145,771



BLACK HILLS POWER RATE BASE - TRANSMISSION FACILITIES Year Two Revenue Requirement Calculation

Exhibit 5
Page 5
Schedule 5-4

Line No.	Description Property, Plant, and Equipment	(a) Plant in Service for Rate Base	(b) South Dakota Jurisdictional Allocation	(c) (a) * (b) South Dakota Plant in Service for Rate Base
2	Lookout to Sundance Hill 69 kV Rebuild	3,247,000	100.00%	3,247,000
3				
5	Book Depreciation Reserve	Schedule 5-5	line 4 x 50% +	72,178
6		Schedule	5-9, line 5	
7 8	Accumulated Deferred Taxes		Year 1	Year 2
9	Transmission Facilities - Plant in Service - South Dakota		3,247,000	1,082,333
10	MACRS Table - Depreciation Rate (20 year life)		3.75%	7.219%
11	South Dakota Tax Depreciation		121,763	78,134
12	South Dakota Book Depreciation		87,669	29,223
13	Timing Difference		34,094	48,911
14	Federal Income Tax Rate		35.00%	35.00%
15	South Dakota Deferred Tax		11,933	17,119
16				
17 18 19	South Dakota Rate Base	(line	e 2 - line 5 - line 15)	\$ 3,145,771



BLACK HILLS POWER OPERATING EXPENSES AND TAXES - TRANSMISSION FACILITIES Year Two Revenue Requirement Calculation

Line					
No.	Description	Reference			South Dakota
1	*				
2			South Dakota	Depreciation	Depreciation
3	Depreciation Expense		Plant in Service	Rate	Expense
4	Lookout to Sundance Hill 69 kV Rebuild	Schedule 5-4 ln 2	3,247,000	2.70%	87,669
5					
6					
7	Federal Tax				
8	Rate Base - South Dakota	Schedule 5-4 line 18			3,145,771
9					
10	Interest Expense	calculated			89,969
11	Return on Equity	calculated			154,143
12	Return	line 11 + line 12			244,112
13					
14	Authorized Return - 7.76%	Docket EL14-026			7.76%
15	Federal Tax Expense - South Dakota	((line 11 x line 19) - line 11)			83,000
16					
17					
18	Assumptions				
19	Tax Multiplier - Federal Tax Rate at 35% - tax multiplier	(1/(135))			1.5385
20					



BLACK HILLS POWER REVENUE REQUIREMENT BY CUSTOMER CLASS - TRANSMISSION FACILITIES Year One Revenue Requirement Calculation

Exhibit 5 Page 7 Schedule 5-6

Line No.	Description	Reference		uth Dakota Forecast				
1	Description	Reference		Forecast				
2	Transmission Facilities Annual Revenue Requirement (June 1, 2014 through May 31, 2015)	Schedule 5-7 line 2	S	316,435				
3	CONTRACTOR							
4	Production Capacity Allocators by Customer Class							
5	Residential	Section No. 3C, Sheet No. 16		34.00%				
6	Small General Service	Section No. 3C, Sheet No. 16		34.33%				
7	Large General Service and Industrial	Section No. 3C, Sheet No. 16		30.70%				
8	Lighting	Section No. 3C, Sheet No. 16		0.97%				
9								
					ELI	4-037 Actual	Rev	ised Revenue
					ELA	Balancing	Rec	quirement by
10	Revenue Requirement by Customer Class				1	Account	Cus	stomer Class
11	Residential	line 2 x line 5	S	107,588	S	(45,031)	S	62,557
12	Small General Service	line 2 x line 6	S	108,632	\$	(40,858)	S	67,774
13	Large General Service and Industrial	line 2 x line 7	S	97,145	\$	7,485	\$	104,630
14	Lighting	line 2 x line 8	S	3,069	S	2,791	5	5,860



BLACK HILLS POWER COST OF SERVICE - TRANSMISSION FACILITIES Year One Revenue Requirement Calculation

Exhibit 5 Page 8 Schedule 5-7

Line			Sou	ıth Dakota
No.	Description	Reference	Ju	risdiction
1	Operating Revenue Required			
2	Transmission Facilities Revenue		\$	316,435
3				
4	Operating Expenses			
5	Depreciation	Schedule 5-9, line 6		69,443
5a	Assessed Filing Fee	Docket EL14-013		5,345
6	Property Taxes	Schedule 5-9, line 23		22,188
7	Total Operating Expenses		No.	96,975
8				
9	Other Operating Revenues	Schedule 5-10, line 5		44,013
10				
11	Operating Income Before Tax	(line 2 - line 7 + line 9)		263,473
12				
13	Federal Income Tax	Schedule 5-9, line 17		63,020
14				
15	Return (Operating Income)	Schedule 5-9, line 14 (line 11 - line 13)	\$	200,453
16				
17	Rate of Return			7.93%
18				
19	Rate Base			
20	Plant in Service	Schedule 5-8, line 6		2,571,954
21	Less: Accumulated Depreciation	Schedule 5-8, line 9		34,721
22	Less: Accumulated Deferred Income Taxes	Schedule 5-8, line 19		9,452
23				
24	Total Rate Base	(line 20 - line 21 - line 22)	\$	2,527,781



24 25

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BLACK HILLS POWER RATE BASE - TRANSMISSION FACILITIES Year One Revenue Requirement Calculation

Exhibit 5
Page 9
Schedule 5-8

Line No. 1 2 3 4 5 6 7	Description Property, Plant, and Equipment Custer to Hot Springs 69 kV Rebuild - Phase I Custer to Hot Springs 69 kV Rebuild - Phase II Lookout to Sundance Hill 69 kV Rebuild Total Plant in Service - Transmission Facilities	(a) Plant in Service for Rate Base \$ 2,653,751 2,008,247 3,247,000 \$ 7,908,998	(b) South Dakota Jurisdictional Allocation 100.00% 100.00%	(c) (a) * (b) South Dakota Plant in Service for Rate Base \$ 2,653,751 2,008,247 3,247,000 7,908,998	(d) Date in Service 3/17/2014 9/16/2014 2/3/2015	(e) Allocation Based on In-Service Date 54.25% (1 4.11% (1 32.33% (2)	_ <u>I</u>) \$	(f) (d) * (e) South Dakota Allocation Based on In-Service Date 3 1,439,660 82,539 1,049,755 2,571,954
8 9 10	Book Depreciation Reserve				Schedule	5-9 line 6 x 50%	-	34,721
11 12 13 14 15 16 17 18 19 20	Accumulated Deferred Taxes Transmission Facilities - Plant in Service - South Dakota MACRS Table - Depreciation Rate (20 year life) South Dakota Tax Depreciation South Dakota Book Depreciation Timing Difference Federal Income Tax Rate South Dakota Deferred Tax					line 6 line 13 x line 14 Schedule 5-9 line 6 line 15 - line 16 line 17 x line 18		2,571,954 3.75% 96,448 69,443 27,006 35.00% 9,452
21 22 23	South Dakota Rate Base				(lir	ne 6 - line 9 - line 19)		5 2,527,781

Note (1) - Allocation % is for the time period from the in-service date through 9/30/14. The Company requested to shift cost recovery of the Custer to Hot Springs 69 kV line from the TFA rider to base rates in Docket EL14-026.

Note (2) - Allocation is for the time period of 2/3/15 through 5/31/15.



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BLACK HILLS POWER OPERATING EXPENSES AND TAXES - TRANSMISSION FACILITIES Year One Revenue Requirement Calculation

Line No.	Description	Reference			South Dakota
1	Description	Reference		(Note 1)	South Dakota
2			South Dakota	Depreciation	Depreciation
3	Depreciation Expense		Plant in Service	Rate	Expense
4	Custer to Hot Springs 69 kV Rebuild	Schedule 5-8, $\ln 2 + \ln 3$	1,522,199	2.70%	41,099
5	Lookout to Sundance Hill 69 kV Rebuild	Schedule 5-8, ln 4	1,049,755	2.70%	28,343
6	Depreciation Expense - South Dakota	line 4 + line 5			69,443
7					
8					
9	Federal Tax				
10	Rate Base - South Dakota	Schedule 5-8 line 22			2,527,781
11					
12	Interest Expense	calculated			83,417
13	Return on Equity	calculated			117,036
14	Return	line 12 + line 13			200,453
15					
16	Authorized Return - 7.93%	Docket EL12-061			7.93%
17	Federal Tax Expense - South Dakota	((line 13 x line 27) - line 13)		0	63,020
18					
19					
20	Property Taxes				
21	SD Plant in Service - Transmission Facilities	line 4			\$ 1,522,199
22	Effective Blended Tax Rate	Docket No. EL12-061		-	1.4576%
23	Property Tax - South Dakota	(line 21 x line 22)			\$ 22,188
24				7-	
25					
26	Assumptions				
27	Tax Multiplier - Federal Tax Rate at 35% - tax multiplier	(1/(135))			1.5385
28					
29					

Note (1) Depreciation rate is from the 2013 depreciation study that will be filed in the 2014 general rate case.





BLACK HILLS POWER OTHER OPERATING REVENUE - TRANSMISSION FACILITIES Year One Revenue Requirement Calculation

Line No.	Description	Ow	thly Joint nership ent Revenue		Number of Months	Total Revenue
1	Rent from Electric Property					
2	Custer to Hot Springs 69 kV Rebuild - Phase I	\$	4,551	(1)	6	27,306
3	Custer to Hot Springs 69 kV Rebuild - Phase II		3,444	(2)	~	(/ =)
4	Lookout to Sundance Hill 69 kV Rebuild		5,569	(3)	3	16,707
5	Total Rent from Electric Property					44.013

Note (1) The line was placed in service on March 17, 2014. Monthly facility payments will be received from April 2014 through September 2014, and then the asset and associated revenues will be rolled into base rates. Note (2) The line was placed in service on September 16, 2014. Monthly facility payments will be received starting in October and is reflected in in base rates.

Note (3) The line was placed in service on February 3, 2015. Monthly facility payments will be received from March 2015 through May 2015.

Exhibit 5 Page 11 Schedule 5-10



BLACK HILLS POWER RESIDENTIAL CUSTOMER IMPACT TFA Rate Change

Exhibit 5 Page 12 Schedule 5-11

LINE CURRENT PROPOSED NO. CUSTOMER IMPACT RATES TFA RATE	INCREASE OR (DECREASE)		
1 2 Residential Service			
3 TRANSMISSION FACILITY ADJUSTMENT RATE			
4 TFA Rate \$ / kWh \$ 0.00023 \$ 0.00012	\$ (0.00011)		
5			
6			
7			
8 Monthly Customer Charge \$ 10.00	\$ 10.00		
9 Energy Charge - Base Rate at average monthly kWh \$ 0.10697 x 650 kWh	69.53		
10 Base Costs \$ 0.02270 x 650 kWh	14.76		
11 Energy Cost Adjustment at average monthly kWh \$ 0.00700 x 650 kWh	4.55		
12 Transmission Facility at average monthly kWh \$ 0.00023 x 650 kWh	0.15		
13 Energy Efficiency at average monthly kWh \$ 0.00020 x 650 kWh	0.13		
14 Current Total Bill at monthly average	\$ 99.12		
15 TFA Rate Change at monthly average kWh \$ (0.00011) x 650 kWh	(0.07)		
16 Proposed Total Residential Bill	\$ 99.05		
17 Percent Change	-0.07%		