BLACK HILLS POWER ENVIRONMENTAL IMPROVEMENTS Placed in Service as of May 2, 2011

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BLACK HILLS POWER COST RECOVERY RATE - ENVIRONMENTAL IMPROVEMENTS Placed in Service as of May 2, 2011

No.	Description	Reference	So	outh Dakota Forecast
1 2	Year 1 Environmental Improvement Annual Revenue Requirement (April 1, 2011 through March 31, 2012)	Schedule 4-2 line 2	\$	2,927,710
3 4	Year 2 Adjustments - Updated Tax Depreciation Rate, Accumulated Depreciation, and Cost of Debt/Capital Structure	Calculation		25,966
5 6 7	Year 2 Revenue Requirement	line 2 - line 4 - line 5	_	2,953,675
8 9	Production Capacity Allocators by Customer Class Residential	Docket No. EL09-018		35.31%
10	Small General Service	Docket No. EL09-018		35.27%
11	Large General Service and Industrial	Docket No. EL09-018		28.53%
12 13	Lighting	Docket No. EL09-018		0.89%
14	Revenue Requirement by Customer Class			
15	Residential	line 6 x line 9	\$	1,042,943
16	Annual True Up Over Recovery	Schedule 4-1.2 line 10		(34,757)
17 18	Net Residential Revenue Requirement	line 15 + line 16	\$	1,008,185
19	Small General Service	line 6 x line 10	\$	1,041,761
20	Annual True Up Over Recovery	Schedule 4-1.2 line 23		(48,755)
21 22	Net Small General Service Revenue Requirement	line 19 + line 20	\$	993,006
23	Large General Service and Industrial	line 6 x line 11	\$	842,684
24	Annual True Up Under Recovery	Schedule 4-1.2 line 38		(17,685)
25 26	Net Large General Service and Industrial Revenue Requirement	line 23 + line 24	\$	824,999
27	Lighting	line 6 x line 12	\$	26,288
28	Annual True Up Under Recovery	Schedule 4-1.2 line 51		(827)
29 30	Net Large General Service and Industrial Revenue Requirement	line 27 + line 28	\$	25,461
31	Forecasted South Dakota kWh sales (June 1, 2012 through May 31, 2013)			
32	Residential	BHP 2012 Budget		536,031,330
33	Small General Service	BHP 2012 Budget		441,204,590
34	Large General Service and Industrial	BHP 2012 Budget		520,878,636
35	Lighting	BHP 2012 Budget		10,049,094
36				.,,
37	Environmental Improvement Adjustment Rate / kWh			
38	Residential	line 17 ÷ line 32	\$	0.0019
39	Small General Service	line 21 ÷ line 33	\$	0.0023
40	Large General Service and Industrial	line 25 ÷ line 34	\$	0.0016
41	Lighting	line 29 ÷ line 35	\$	0.0025
42 43	Residential Monthly Bill Impact - (current rate - prior rate) x ave. monthly kWh usage	(line 380021) x 600 kWh	\$	(0.12)
44	Residential % Bill Impact	(line 43 ÷ \$77.57)		-0.2%

COST RECOVERY - ANNUAL BALANCING ACCOUNT TRUE-UP Placed in Service as of May 2, 2011

Line No.		Act Jun		Actual Jul-11	Actual Aug-11	Actual Sep-11		Actual Oct-11	Actual Nov-11	Actual Dec-11		Actual Jan-12	Actual Feb-12		Actual Mar-12		ecasted pr-12		ecasted ay-12		ecasted in-12
	Residential						_									_		_		_	
	2 Expected Recovery		3,074		,		\$	86,148		\$,	\$	86,148 \$,	\$	86,148	\$	86,148	\$,	\$	43,074
	3 Actual Revenues		0,737	83,004	96,260	83,093		68,212	83,490	103,711		108,386	105,820		100,375		94,714		76,014		34,111
4		12	2,337	3,144	(10,113)	3,055		17,936	2,658	(17,564)		(22,238)	(19,672)		(14,227)		(8,566)		10,134		8,963
-	Days in Current Month		30	31	31	30		31	30	31		31	29		31		30		31		30
7	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%
9	B Monthly Interest		71	92	33	50		158	169	72		(60)	(166)		(263)		(305)		(257)		(199)
10 11	Balancing Account	\$ 12	2,408	\$ 15,644 \$	5,565	8,670	\$	26,764	29,591	\$ 12,099	\$	(10,199) \$	(30,037)	\$	(44,527)	\$	(53,399)	\$	(43,522)	\$ ((34,757)
12 13	2 3 Commerical																				
	Expected Recovery	\$ 43	3,025	\$ 86,050 \$	86,050	86,050	\$	86,050	86,050	\$ 86,050	\$	86,050 \$	86,050	\$	86,050	\$	86,050	\$	86,050	\$	43,025
	5 Actual Revenues		1,711	97,087	110,887	101,510		85,889	82,825	90,052		89,126	90,100		90,187		86,956		80,206		42,065
	Monthly Under/(Over) Recovery	1	1,315	(11,036)	(24,836)	(15,460)		161	3,226	(4,002)		(3,076)	(4,050)		(4,136)		(906)		5,844		960
17	Interest:																				
19			30	31	31	30		31	30	31		31	29		31		30		31		31
20		,	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%
21			65	2	(146)	(231)		(239)	(214)	(246)		(266)	(273)		(318)		(315)		(292)		(288)
22	•		03	2	(140)	(231)		(237)	(214)	(240)		(200)	(273)		(310)		(313)		(2)2)		(200)
23 24	Balancing Account	\$ 1	1,380	\$ 345 \$	(24,637)	(40,327)	\$	(40,404)	(37,393)	\$ (41,641)	\$	(44,982) \$	(49,305)	\$	(53,759)	\$	(54,979)	\$	(49,427)	\$ ((48,755)
25																					
	5 Industrial																				
27	Expected Recovery	\$ 2	1,560	\$ 43,119 \$	43,119	43,119	\$	43,119	43,119	\$ 43,119	\$	43,119 \$	43,119	\$	43,119	\$	43,119	\$	43,119	\$	21,560
28		1:	5,714	46,075	54,926	46,612		47,817	41,813	45,199		46,558	40,511		43,705		44,055		37,714		23,354
29	Monthly Under/(Over) Recovery		5,846	(2,956)	(11,806)	(3,492)		(4,698)	1,306	(2,080)		(3,439)	2,608		(585)		(935)		5,405		(1,794)
30)																				
31	Interest:																				
32	2 Days in Current Month		30	31	31	31		31	31	31		31	31		31		31		31		31
33	3 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%
	Monthly Interest		34	17	(53)	(74)		(102)	(95)	(108)		(129)	(114)		(118)		(125)		(93)		(105)
35							_			 	_			_		_		_		_	
36	5 Balancing Account	\$:	5,879	\$ 2,941 \$	(8,918)	(12,484)	\$	(17,284)	(16,073)	\$ (18,261)	\$	(21,829) \$	(19,335)	\$	(20,038)	\$	(21,098)	\$	(15,786)	\$ ((17,685)
38																					
	Lighting																				
40	0 0	\$	1,086	\$ 2,171 \$	2,171	2,171	\$	2,171	2,171	\$ 2,171	\$	2,171 \$	2,171	\$	2,171	\$	2,171	\$	2,171	\$	1,086
	Actual Revenues		470	1,786	2,008	2,158		2,426	2,574	2,928		2,837	2,483		2,331		2,195		1,857		822
42			616	386	163	14		(255)	(403)	(756)		(665)	(311)		(160)		(24)		314		264
43									/	. ,			. ,		. /		. ,				
44	Interest:																				
45	5 Days in Current Month		30	31	31	31		31	31	31		31	31		31		31		31		31
46	5 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	Monthly Interest		4	6	7	7		6	3	(1)		(5)	(7)		(8)		(8)		(6)		(5)
48																					
49	Balancing Account	\$	620	\$ 1,011 \$	1,181	1,202	\$	953	554	\$ (204)	\$	(875) \$	(1,193)	\$	(1,361)	\$	(1,393)	\$	(1,086)	\$	(827)

BLACK HILLS POWER COST OF SERVICE - ENVIRONMENTAL IMPROVEMENTS Year One Revenue Requirement Calculation

Line			So	uth Dakota
No.	Description	Reference		Only
1	Operating Revenue Required			_
2	Environmental Improvement Revenue - Year 1		\$	2,927,710
3				
4	Operating Expenses			
5	Depreciation	Schedule 4-4, line 6		766,863
	First year depreciation expense adjustment	Schedule 4-4 line 6/365 days * 32 days		(67,232)
5a	Assessed Filing Fee (EL11-001 Order 3-14-2011)	Company Records		24,253
6	Property Taxes	Schedule 4-4, line 23		189,042
7	Total Operating Expenses	line $5 + \text{line } 5a + \text{line } 6$		912,926
8				
9	Operating Income Before Tax (line 2 - line 7)			2,014,784
10				
11	Federal Income Tax	Schedule 4-4, line 17		505,083
12				
13	Return (Operating Income)	Schedule 4-4, line 14 or (line 9 - line 11)	\$	1,509,700
14				
15	Rate of Return			8.16%
16				
17	Rate Base			
18	Plant in Service	Schedule 4-3, line 5		25,225,746
19	Less: Accumulated Depreciation	Schedule 4-3, line 8		383,431
20	Less: Accumulated Deferred Income Taxes	Schedule 4-3, line 22		(181,927)
21	Less: Accumulated Deferred Adjustment	Schedule 4-3, line 25		6,523,016
22	·			
23	Total Rate Base	(line 18 - line 19 - line 20 - line 21)	\$	18,501,226

BLACK HILLS POWER RATE BASE - ENVIRONMENTAL IMPROVEMENTS Year One Revenue Requirement Calculation

Line No.	Description	Reference	Plant in Service for Rate Base	(Schedule 4-4) South Dakota Allocation	South Dakota Plant in Service for Rate Base
1	Property, Plant, and Equipment				
2	SO2 and PM Emission Control Upgrade	Schedule 4-6 line 36	\$ 25,007,134	91.53%	\$ 22,889,060
3	NOX Clean Air Initiative	Schedule 4-6 line 71	2,552,915	91.53%	2,336,686
4					
5	Total Plant in Service - Environmental Improvements		\$ 27,560,049		25,225,746
6	•				
7					
8	Book Depreciation Reserve	Schedule 4-4 line 6 x 50%			383,431
9					
10					
11	Accumulated Deferred Taxes				
12	Environmental Improvements - Plant in Service - South Dakota	line 5			25,225,746
13	Less: Bonus Depreciation	Schedule 4-5 line 29			18,637,187
14	•				6,588,558
15					
16	MACRS Table - Depreciation Rate (20 year life)				3.750%
17					
18	South Dakota Tax Depreciation	line 14 x line 16			247,071
19	South Dakota Book Depreciation	Schedule 4-4 line 6			766,863
20	Timing Difference	line 18 - line 19			(519,792)
21					
22	South Dakota Deferred Tax	line 20 x 35%			(181,927)
23					
24					
25	Accumulated Deferred Taxes Adjustment	Schedule 4-5 line 33			6,523,016
26	•				
27					
28	South Dakota Rate Base	(line 5 - line 8 - line 22 - line 25)		\$ 18,501,226

BLACK HILLS POWER OPERATING EXPENSES AND TAXES - ENVIRONMENTAL IMPROVEMENTS Year One Revenue Requirement Calculation

Line)				
No.	Description	Reference			South Dakota
1 2 3	Depreciation Expense		South Dakota Plant in Service	Depreciation Rate	
4	SO2 and PM Emission Control Upgrade	Schedule 4-3 line 2	22,889,060	3.04%	695,827
5	NOX Clean Air Initiative	Schedule 4-3 line 3	2,336,686	3.04%	71,035
6	Depreciation Expense - South Dakota	line $4 + \text{line } 5$			766,863
7					
8					
9	Federal Tax				
10	Rate Base - South Dakota	Schedule 4-3 line 28			18,501,226
11	Interest Europes	calculated			571 600
12 13	Interest Expense Return on Equity	calculated			571,688 938,012
13	Return	line 12 + line 13			1,509,700
15	Return	inic 12 + inic 13			1,505,700
16	Authorized Return - 8.16%				8.16%
17	Federal Tax Expense - South Dakota	((line 13 x line 27) - line 13)			505,083
18	•				
19					
20	Property Taxes				
21	SD Plant in Service - Environmental Improvements	Schedule 4-3 line 5			\$ 25,225,746
22	Effective Blended Tax Rate	Docket No. EL09-018			0.7494%
23	Property Tax - South Dakota	line 21 x line 22			\$ 189,042
24					
25					
26	Assumptions				
27	Tax Multiplier - Federal Tax Rate at 35% - tax multiplier	(1/(135))			1.5385
28	Allered on England			Tr. 4 - 1	C 4 D 1
29 30	Allocation Factor	Docket No. EL09-018		<u>Total</u>	South Dakota
30	Production Capacity (kW 1CP) Production Capacity (kW 1CP)	Docket No. EL09-018 Docket No. EL09-018		332,000 100%	303,880 91.53%
31	1 Toduction Capacity (KW TCF)	DUCKET INU. ELUY-U10		100%	91.33%

18,637,187

6,523,016

35%

BLACK HILLS POWER ADJUSTMENT TO DEFERRED TAXES - ENVIRONMENTAL IMPROVEMENTS Year One Revenue Requirement Calculation

Line

29

30 31

32

33

Total Tax Depreciation

Tax Rate

Deferred Tax

Project Expenses:	No.	Description	Reference	Total BHP		South Dakota
2009 Actual - SO2 and PM Emission Control Upgrade Schedule 4-6 line 2 through line 11 4,153,867 91.53% 3,802,039 2009 Actual - NOX Clean Air Initiative Schedule 4-6 line 38 through line 46 41,929 91.53% 38,378 2010 Jan-Sept Actual - SO2 and PM Emission Control Upgrade Schedule 4-6 line 12 through line 20 9,868,497 91.53% 9,332,647 2010 Jan-Sept Actual - NOX Clean Air Initiative Schedule 4-6 line 12 through line 58 332,188 91.53% 304,052 2010 Oct-Dec Actual - SO2 and PM Emission Control Upgrade Schedule 4-6 line 21 through line 23 3,128,905 91.53% 2,863,890 2010 Oct-Dec Actual - SO2 and PM Emission Control Upgrade Schedule 4-6 line 59 through line 61 154.249 91.53% 141,184 2011 Jan-Dec Actual - SO2 and PM Emission Control Upgrade Schedule 4-6 line 24 through line 35 7,855,866 91.53% 7,190,483 2010 Jan-Dec Actual - NOX Clean Air Initiative Schedule 4-6 line 24 through line 35 7,855,866 91.53% 7,190,483 2011 Jan-Dec Actual - NOX Clean Air Initiative Schedule 4-6 line 59 through 70 2,024,548 91.53% 1,853,072 2011 Jan-Dec Actual - NOX Clean Air Initiative Schedule 4-6 line 59 through 70 2,024,548 91.53% 1,853,072 2010 Actual Project Expense Schedule 4-6 line 59 through 70 2,024,548 91.53% 1,853,072 2010 Actual Project Capital Expenses Schedule 4-6 line 59 through 70 2,024,548 91.53% 1,853,072 2010 Actual Project Capital Expenses Schedule 4-6 line 59 through 70 2,024,548 91.53% 1,853,072 2010 Actual Project Capital Expenses Schedule 4-6 line 59 through 70 2,024,548 91.53% 1,853,072 2010 Actual Project Capital Expenses Schedule 4-6 line 59 through 10 50.00% 50.00	1					
2	2 I	Project Expenses:				
5 2010 Jan-Sept Actual - SO2 and PM Emission Control Upgrade Schedule 4-6 line 12 through line 20 9,868,497 91.53% 9,032,647 6 2010 Jan-Sept Actual - NOX Clean Air Initiative Schedule 4-6 line 14 through line 58 332,188 91.53% 2,863,890 7 2010 Oct-Dec Actual - NOX Clean Air Initiative Schedule 4-6 line 21 through line 23 3,128,905 91.53% 2,863,890 8 2010 Oct-Dec Actual - NOX Clean Air Initiative Schedule 4-6 line 59 through line 61 154,249 91.53% 141,184 9 2011 Jan-Dec Actual - NOX Clean Air Initiative Schedule 4-6 line 24 through line 35 7,855,866 91.53% 7,190,483 10 2011 Jan-Dec Actual - NOX Clean Air Initiative Schedule 4-6 line 59 through 70 2,024,548 91.53% 1,853,072 11 Total Capital Project Expense line 3 + line 4 1,000,404 91.53% 1,853,072 12 Expenses Eligible for 50% Bonus Depreciation: line 3 + line 4 3,840,417 9,336,700 16 Ine 14 + line 15 50% Bonus Depreciation 50,00% 50,00% 18 50 W Tax Depreciation line 7 + l	3	2009 Actual - SO2 and PM Emission Control Upgrade	Schedule 4-6 line 2 through line 11	4,153,867	91.53%	3,802,039
Schedule 4-6 line 47 through line 58 332,188 91.53% 304,052 7 2010 Oct-Dec Actual - SO2 and PM Emission Control Upgrade Schedule 4-6 line 21 through line 23 3,128,905 91.53% 2,863,890 2010 Oct-Dec Actual - NOX Clean Air Initiative Schedule 4-6 line 59 through line 61 154,249 91.53% 141,184 9 2011 Jan-Dec Actual - SO2 and PM Emission Control Upgrade Schedule 4-6 line 59 through line 61 154,249 91.53% 7,190,483 10 2011 Jan-Dec Actual - SO2 and PM Emission Control Upgrade Schedule 4-6 line 24 through line 55 7,855,866 91.53% 7,190,483 10 2011 Jan-Dec Actual - SO2 and PM Emission Control Upgrade Schedule 4-6 line 59 through line 61 2,024,548 91.53% 7,190,483 1,853,072 10 2011 Jan-Dec Actual - NOX Clean Air Initiative Schedule 4-6 line 59 through 70 2,024,548 91.53% 1,853,072 1,853,	4	2009 Actual - NOX Clean Air Initiative	Schedule 4-6 line 38 through line 46	41,929	91.53%	38,378
7 2010 Oct-Dec Actual - SO2 and PM Emission Control Upgrade Schedule 4-6 line 21 through line 23 3,128,905 91.53% 2,863,890 8 2010 Oct-Dec Actual - NOX Clean Air Initiative Schedule 4-6 line 59 through line 61 154,249 91.53% 141,184 9 2011 Jan-Dec Actual - SO2 and PM Emission Control Upgrade Schedule 4-6 line 59 through line 35 7,855,866 91.53% 7,190,483 10 2011 Jan-Dec Actual - NOX Clean Air Initiative Schedule 4-6 line 59 through line 35 7,855,866 91.53% 1,853,072 11 Total Capital Project Expense Schedule 4-6 line 59 through line 35 2,7560,049 25,225,746 12 Expenses Eligible for 50% Bonus Depreciation: 27,560,049 25,225,746 13 Expenses Eligible for 50% Bonus Depreciation: 1ine 3 + line 4 3,840,417 15 2010 Actual Project Capital Expenditures January - September line 5 + line 6 9,336,700 16 100 Actual Project Capital Expenditures January - September line 16 x line 17 6,588,558 20 Expenses Eligible for 100% Bonus Depreciation 1ine 7 + line 8 3,005,074 22 2010 Actual Pro	5	2010 Jan-Sept Actual - SO2 and PM Emission Control Upgrade	Schedule 4-6 line 12 through line 20	9,868,497	91.53%	9,032,647
Schedule 4-6 line 59 through line 61 154,249 91.53% 141,184 9 2011 Jan-Dec Actual - SO2 and PM Emission Control Upgrade Schedule 4-6 line 24 through line 35 7,855,866 91.53% 7,190,483 7,19	6	2010 Jan-Sept Actual - NOX Clean Air Initiative	Schedule 4-6 line 47 through line 58	332,188	91.53%	304,052
9 2011 Jan-Dec Actual - SO2 and PM Emission Control Upgrade Schedule 4-6 line 24 through line 35 7,855,866 91.53% 7,190,483 10 2011 Jan-Dec Actual - NOX Clean Air Initiative Schedule 4-6 line 59 through 70 2,024,548 91.53% 1,853,072 11 Total Capital Project Expense 27,560,049 25,225,746 12 Expenses Eligible for 50% Bonus Depreciation: 3,840,417 14 2009 Actual Project Capital Expenses line 3 + line 4 3,840,417 15 2010 Actual Project Capital Expenditures January - September line 5 + line 6 9,336,700 16 15 15 50% Bonus Depreciation 50,00% 18 50% Bonus Depreciation 50,00% 50,00% 18 15 50% Tax Depreciation 50,00% 19 50% Tax Depreciation 11 line 16 x line 17 6,588,558 20 2010 Actual Project Capital Expenditures October - December 11 line 7 + line 8 3,005,074 23 2011 Projected Capital Expenditures 11 line 2 + line 23 12,048,629 25 100% Bonus Depreciation 112,048,629	7	2010 Oct-Dec Actual - SO2 and PM Emission Control Upgrade	Schedule 4-6 line 21 through line 23	3,128,905	91.53%	2,863,890
10 2011 Jan-Dec Actual - NOX Clean Air Initiative Schedule 4-6 line 59 through 70 2,024,548 91.53% 1,853,072 11 Total Capital Project Expense 27,560,049 25,225,746 12	8	2010 Oct-Dec Actual - NOX Clean Air Initiative	Schedule 4-6 line 59 through line 61	154,249	91.53%	141,184
Total Capital Project Expense 27,560,049 25,225,746 12	9	2011 Jan-Dec Actual - SO2 and PM Emission Control Upgrade	Schedule 4-6 line 24 through line 35	7,855,866	91.53%	7,190,483
Expenses Eligible for 50% Bonus Depreciation: 14 2009 Actual Project Capital Expenses line 3 + line 4 3,840,417 15 2010 Actual Project Capital Expenditures January - September line 5 + line 6 9,336,700 16 line 14 + line 15 13,177,117 17 50% Bonus Depreciation line 16 x line 17 6,588,558 19 50 % Tax Depreciation line 16 x line 17 6,588,558 20 21 Expenses Eligible for 100% Bonus Depreciation: 2010 Actual Project Capital Expenditures October - December line 7 + line 8 3,005,074 23 2011 Projected Capital Expenditures line 9 + line 10 9,043,555 24 line 22 + line 23 12,048,629 25 100% Bonus Depreciation line 24 x line 25 12,048,629 26 100% Tax Depreciation line 24 x line 25 12,048,629	10	2011 Jan-Dec Actual - NOX Clean Air Initiative	Schedule 4-6 line 59 through 70	2,024,548	91.53%	1,853,072
13 Expenses Eligible for 50% Bonus Depreciation: 14 2009 Actual Project Capital Expenses 1 1 1 1 1 1 1 1 1	11	Total Capital Project Expense		27,560,049		25,225,746
14 2009 Actual Project Capital Expenses line 3 + line 4 3,840,417 15 2010 Actual Project Capital Expenditures January - September line 5 + line 6 9,336,700 16 line 14 + line 15 13,177,117 17 50% Bonus Depreciation 50.00% 18 50 % Tax Depreciation line 16 x line 17 20 Expenses Eligible for 100% Bonus Depreciation: 50.588,558 21 Expenses Eligible for 100% Bonus Depreciation: 3,005,074 22 2010 Actual Project Capital Expenditures October - December line 7 + line 8 3,005,074 23 2011 Projected Capital Expenditures line 9 + line 10 9,043,555 24 line 22 + line 23 12,048,629 25 100% Bonus Depreciation line 24 x line 25 12,048,629	12					
15 2010 Actual Project Capital Expenditures January - September line 5 + line 6 9,336,700 16 line 14 + line 15 13,177,117 17 50% Bonus Depreciation 50,00% 18	13	Expenses Eligible for 50% Bonus Depreciation:				
16 line 14 + line 15 13,177,117 17 50% Bonus Depreciation 50.00% 18	14	2009 Actual Project Capital Expenses	line $3 + \text{line } 4$			3,840,417
17 50% Bonus Depreciation 50.00% 18 50 % Tax Depreciation 6,588,558 20 Expenses Eligible for 100% Bonus Depreciation: 21 Expenses Eligible for 100% Bonus Depreciation: 22 2010 Actual Project Capital Expenditures October - December line 7 + line 8 3,005,074 23 2011 Projected Capital Expenditures line 9 + line 10 9,043,555 24 line 22 + line 23 12,048,629 25 100% Bonus Depreciation 100% 26 100% Tax Depreciation 12,048,629 27 100% Tax Depreciation 12,048,629	15	2010 Actual Project Capital Expenditures January - September	line $5 + line 6$			9,336,700
18 19 50 % Tax Depreciation 6,588,558 20 6,588,558 21 Expenses Eligible for 100% Bonus Depreciation: 2 22 2010 Actual Project Capital Expenditures October - December line 7 + line 8 3,005,074 23 2011 Projected Capital Expenditures line 9 + line 10 9,043,555 24 line 22 + line 23 12,048,629 25 100% Bonus Depreciation 100% 26 100% Tax Depreciation 12,048,629	16		line 14 + line 15			13,177,117
19 50 % Tax Depreciation 6,588,558 20 6,588,558 21 Expenses Eligible for 100% Bonus Depreciation: 50 % Tax Depreciation 22 2010 Actual Project Capital Expenditures October - December line 7 + line 8 3,005,074 23 2011 Projected Capital Expenditures line 9 + line 10 9,043,555 24 line 22 + line 23 12,048,629 25 100% Bonus Depreciation 100% 26 100% Tax Depreciation 12,048,629	17	50% Bonus Depreciation				50.00%
20	18					
21 Expenses Eligible for 100% Bonus Depreciation: 22 2010 Actual Project Capital Expenditures October - December line 7 + line 8 3,005,074 23 2011 Projected Capital Expenditures line 9 + line 10 9,043,555 24 line 22 + line 23 12,048,629 25 100% Bonus Depreciation 100% 26 100% Tax Depreciation 12,048,629	19	50 % Tax Depreciation	line 16 x line 17			6,588,558
22 2010 Actual Project Capital Expenditures October - December line 7 + line 8 3,005,074 23 2011 Projected Capital Expenditures line 9 + line 10 9,043,555 24 line 22 + line 23 12,048,629 25 100% Bonus Depreciation 100% 26 line 24 x line 25 12,048,629	20					
23 2011 Projected Capital Expenditures line 9 + line 10 9,043,555 24 line 22 + line 23 12,048,629 25 100% Bonus Depreciation 100% 26 100% Tax Depreciation 12,048,629 27 100% Tax Depreciation 12,048,629	21	Expenses Eligible for 100% Bonus Depreciation:				
24 line 22 + line 23 12,048,629 25 100% Bonus Depreciation 100% 26 100% Tax Depreciation 12,048,629 27 100% Tax Depreciation 11,048,629	22	2010 Actual Project Capital Expenditures October - December	line 7 + line 8			3,005,074
25 100% Bonus Depreciation 100% 26	23	2011 Projected Capital Expenditures	line $9 + line 10$			9,043,555
26	24		line 22 + line 23			12,048,629
27 100% Tax Depreciation line 24 x line 25 12,048,629	25	100% Bonus Depreciation				100%
•	26					
28	27	100% Tax Depreciation	line 24 x line 25			12,048,629
	28					

line 19 + line 27

line 29 x line 31

BLACK HILLS POWER MONTHLY 2009-2010 ACTUAL PROJECT COST DETAIL - ENVIRONMENTAL IMPROVEMENTS Year One Revenue Requirement Calculation

Line No.		Source	ВНР
	Monthly Actual Project Costs - SO2 and PM Emission Control Upgrade	Bource	DIII
2	March-09	BHP Company Records	17,545
3	April-09	BHP Company Records	3,796
4	May-09	BHP Company Records	1,198,582
5	June-09	BHP Company Records	(1,169,566)
6	July-09	BHP Company Records	1,451,483
7	August-09	BHP Company Records	890,004
8	September-09	BHP Company Records	(836,744)
9	October-09	BHP Company Records	1,678,100
10	November-09	BHP Company Records	372,493
11	December-09	BHP Company Records	548,173
12	January-10	BHP Company Records	392,547
13	February-10	BHP Company Records	1,120,842
14	March-10	BHP Company Records	642,464
15	April-10	BHP Company Records	969,987
16	May-10	BHP Company Records	1,097,566
17	June-10	BHP Company Records	1,927,501
18	July-10	BHP Company Records	1,121,746
19	August-10	BHP Company Records	892,377
20	September-10	BHP Company Records	1,703,466
21	October-10	BHP Company Records	1,235,101
22	November-10	BHP Company Records	949,650
23	December-10	BHP Company Records	944,154
24	January-11	BHP Company Records	961,367
25	February-11	BHP Company Records	1,972,454
26	March-11	BHP Company Records	1,483,735
27	April-11	BHP Company Records	2,711,405
28	May-11	BHP Company Records	366,312
29	June-11	BHP Company Records	102,409
30	July-11	BHP Company Records	210,209
31	August-11	BHP Company Records	(218,144)
32	September-11	BHP Company Records	213,409
33	October-11	BHP Company Records	108,908
34	November-11	BHP Company Records	(85,399)
35	December-11	BHP Company Records	29,201
36	Project Total		25,007,134

BLACK HILLS POWER MONTHLY 2009-2010 ACTUAL PROJECT COST DETAIL - ENVIRONMENTAL IMPROVEMENTS Year One Revenue Requirement Calculation

Line		g	DIID
No. 37	Monthly Actual Project Costs - NOX Clean Air Initiative	Source	ВНР
38	April-09	BHP Company Records	12,194
	1	* *	,
39 40	May-09 June-09	BHP Company Records BHP Company Records	(5,670)
40	July-09 July-09	BHP Company Records	14,843
42	, and the second se	BHP Company Records	7,917
	August-09		*
43 44	September-09 October-09	BHP Company Records	6,242
		BHP Company Records	10,810
45	November-09	BHP Company Records	26,649
46	December-09	BHP Company Records	(31,087)
47	January-10	BHP Company Records	56,797
48	February-10	BHP Company Records	3,997
49	March-10	BHP Company Records	20,212
50	April-10	BHP Company Records	41,965
51	May-10	BHP Company Records	(4,545)
52	June-10	BHP Company Records	1,269
53	July-10	BHP Company Records	9,935
54	August-10	BHP Company Records	267,718
55	September-10	BHP Company Records	(65,160)
56	October-10	BHP Company Records	60,749
57	November-10	BHP Company Records	72,204
58	December-10	BHP Company Records	21,296
59	January-11	BHP Company Records	327,818
60	February-11	BHP Company Records	547,342
61	March-11	BHP Company Records	455,934
62	April-11	BHP Company Records	550,326
63	May-11	BHP Company Records	255,249
64	June-11	BHP Company Records	(52,263)
65	July-11	BHP Company Records	79,846
66	August-11	BHP Company Records	(1,615)
67	September-11	BHP Company Records	4,542
68	October-11	BHP Company Records	3,552
69	November-11	BHP Company Records	(146,613)
70	December-11	BHP Company Records	430
71	Project Total		2,552,915

BLACK HILLS POWER COST OF SERVICE - ENVIRONMENTAL IMPROVEMENTS Year Two Revenue Requirement Calculation

Line			So	uth Dakota
No.	Description	Reference		Only
1	Operating Revenue Required			
2	Environmental Improvement Revenue - Year 2		\$	2,953,675
3				
4	Operating Expenses			
5	Depreciation	Schedule 4-10, line 6		766,863
5a	Assessed Filing Fee (EL11-001 Order 3-14-2011)	Company Records		24,253
6	Property Taxes	Schedule 4-10, line 23		189,042
7	Total Operating Expenses	line $5 + \text{line } 5a + \text{line } 6$		980,158
8				
9	Operating Income Before Tax	(line 2 - line 7)		1,973,517
10				
11	Federal Income Tax	Schedule 4-10, line 17		510,941
12				
13	Return (Operating Income)	Schedule 4-4, line 14 or (line 9 - line 11)	\$	1,462,575
14				
15	Rate of Return			8.20%
16			·	
17	Rate Base			
18	Plant in Service	Schedule 4-9, line 5		25,225,746
19	Less: Accumulated Depreciation	Schedule 4-9, line 8		1,150,294
20	Less: Accumulated Deferred Income Taxes	Schedule 4-9, line 22		(283,859)
21	Less: Accumulated Deferred Adjustment	Schedule 4-9, line 25		6,523,016
22				
23	Total Rate Base	(line 18 - line 19 - line 20 - line 21)	\$	17,836,295

BLACK HILLS POWER RATE BASE - ENVIRONMENTAL IMPROVEMENTS Year Two Revenue Requirement Calculation

Line No.	Description	Reference	Plant in Service for Rate Base	(Schedule 4-4) South Dakota Allocation	South Dakota Plant in Service for Rate Base
1	Property, Plant, and Equipment				
2	SO2 and PM Emission Control Upgrade	Schedule 4-6 line 36	\$ 25,007,134	91.53%	\$ 22,889,060
3	NOX Clean Air Initiative	Schedule 4-6 line 71	2,552,915	91.53%	2,336,686
4					
5	Total Plant in Service - Environmental Improvements		\$ 27,560,049		25,225,746
6					
7					
8	Book Depreciation Reserve	Schedule 4-4 line 6 x 150%			1,150,294
9					
10					
11	Accumulated Deferred Taxes				
12	Environmental Improvements - Plant in Service - South Dakota	line 5			25,225,746
13	Less: Bonus Depreciation	Schedule 4-5 line 29			18,637,187
14					6,588,558
15				Year 1	
16	MACRS Table - Depreciation Rate (20 year life)			3.75%	7.219%
17					
18	South Dakota Tax Depreciation	line 14 x line 16		247,071	475,628
19	South Dakota Book Depreciation	Schedule 4-10 line 6		766,863	766,863
20	Timing Difference	line 18 - line 19		(519,792)	(291,235)
21					
22	South Dakota Deferred Tax	line 20 x 35%		(181,927)	(101,932)
23					
24					
25	Accumulated Deferred Taxes Adjustment	Schedule 4-5 line 33			6,523,016
26					
27 28	South Dakota Rate Base	(line 5 - line 8 - line 22 - line 25))		\$ 17,836,295

BLACK HILLS POWER OPERATING EXPENSES AND TAXES - ENVIRONMENTAL IMPROVEMENTS Year Two Revenue Requirement Calculation

Line					
No.	Description	Reference			South Dakota
1			C . 4 D.1	D	
2 3	Danuaciation Evmana		South Dakota Plant in Service	Depreciation	
3 4	Depreciation Expense SO2 and PM Emission Control Upgrade	Schedule 4-9 line 2	22,889,060	Rate 3.04%	695,827
5	NOX Clean Air Initiative	Schedule 4-9 line 2 Schedule 4-9 line 3	2,336,686	3.04%	71,035
6	Depreciation Expense - South Dakota	line 4 + line 5	2,330,080	3.0470	766,863
7	Depreciation Expense - South Dakota	inic 4 + inic 3			700,803
8					
9	Federal Tax				
10	Rate Base - South Dakota	Schedule 4-9 line 28			17,836,295
11	Raic Dasc - South Dakota	Schedule 4-9 line 28			17,630,293
12	Interest Expense	calculated			513,685
13	Return on Equity	calculated			948,891
14	Return	line 12 + line 13			1,462,576
15	1000	12 · 10			1,102,070
16	Authorized Return - 8.16%				8.20%
17	Federal Tax Expense - South Dakota	((line 13 x line 27) - line 13)			510,941
18					
19					
20	Property Taxes				
21	SD Plant in Service - Environmental Improvements	Schedule 4-3 line 5			\$ 25,225,746
22	Effective Blended Tax Rate	Docket No. EL09-018			0.7494%
23	Property Tax - South Dakota	line 21 x line 22			\$ 189,042
24					
25					
26	Assumptions				
27	Tax Multiplier - Federal Tax Rate at 35% - tax multiplier	(1/(135))			1.5385
28					
29	Allocation Factor			<u>Total</u>	South Dakota
30	Production Capacity (kW 1CP)	Docket No. EL09-018		332,000	303,880
31	Production Capacity (kW 1CP)	Docket No. EL09-018		100%	91.53%