

Black Hills Power, Inc. d/b/a Black Hills Energy



2019 Stipulation Vegetation Management Report

Docket No. EL-17-006 & EL17-008

May 1, 2019

Stipulation Requirements

- 1) Maintain four to five year trim cycle
- 2) File a vegetation management report by May 1
- 3) Include line miles and circuits maintained during the reporting year
- 4) Provide a map illustrating the circuits cumulatively trimmed in each reporting year
- 5) Provide actual costs and expenditures related to ROW maintenance in each reporting year

Compliance Status

<u>Compliant</u>	<u>Stipulation Element</u>
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- | | |
|---|---|
| ✓ | On Cycle |
| ✓ | Report Filed |
| ✓ | Line Miles and Circuits Report Provided |
| ✓ | Map Provided |
| ✓ | Maintenance/Expenditures Provided |

Black Hills Power, Inc. d/b/a Black Hills Energy - Total Circuit Summary

Line No.	District	Overhead Miles	4/1/2017 to 3/31/2018 Actual	2018 Actual	2019 Actual	2020 Actual	2021 Actual	Total Line Miles Trimmed
		2,276.29	527.24	429.29	-	-	-	956.53
1	Northern Hills	673.00	76.02	30.85	-	-	-	106.87
2	Southern Hills	578.61	228.81	174.14	-	-	-	402.95
3	Rapid City	460.18	100.20	208.59	-	-	-	308.79
4	Wyoming	54.50	5.03	-	-	-	-	5.03
5	Montana	26.69	-	-	-	-	-	-
6	69kV	483.31	117.18	15.71	-	-	-	132.89
7								
8	Maintenance Cost		\$ 2,326,671	\$ 3,450,765	\$ -	\$ -	\$ -	
9	Cost / Line Mile		\$ 4,412.93	\$ 8,038.31	\$ -	\$ -	\$ -	

Black Hills Power, Inc. d/b/a Black Hills Energy - Northern Hills Circuits

Line No.	District	Circuit	Overhead Miles	4/1/2017 to 3/31/2018	2018	2019	2020	2021	Total Line Miles Trimmed
				Line Miles Trimmed	Line Miles Trimmed	Line Miles Trimmed	Line Miles Trimmed	Line Miles Trimmed	
			673.00	76.02	30.85	-	-	-	106.87
1	N. Hills	HCR401	1.09	-	-	-	-	-	-
2	N. Hills	HCR402	6.40	-	-	-	-	-	-
3	N. Hills	HCR403	5.50	-	-	-	-	-	-
4	N. Hills	HCR404	2.04	-	-	-	-	-	-
5	N. Hills	HVW1215	13.06	-	-	-	-	-	-
6	N. Hills	HVW1216	7.55	-	-	-	-	-	-
7	N. Hills	MTV2416	11.91	-	-	-	-	-	-
8	N. Hills	MTV2417	45.38	-	-	-	-	-	-
9	N. Hills	MTV2418	38.77	-	-	-	-	-	-
10	N. Hills	PLM1201	20.74	-	-	-	-	-	-
11	N. Hills	PLM1202	10.00	10.00	-	-	-	-	-
12	N. Hills	PLM1203	0.94	-	-	-	-	-	-
13	N. Hills	PLM1204	58.54	58.54	8.32	-	-	-	-
14	N. Hills	PLM1205	6.39	-	6.37	-	-	-	-
15	N. Hills	PLM1206	4.16	-	-	-	-	-	-
16	N. Hills	RHL1201	0.28	0.28	-	-	-	-	-
17	N. Hills	SHL2470	55.59	-	-	-	-	-	-
18	N. Hills	SHL2471	27.09	-	-	-	-	-	-
19	N. Hills	SHL2472	7.94	-	7.94	-	-	-	-
20	N. Hills	SHL2473	8.15	-	8.22	-	-	-	-
21	N. Hills	SPC1291	2.85	-	-	-	-	-	-
22	N. Hills	SPC1292	2.63	-	-	-	-	-	-
23	N. Hills	SPC1293	3.07	-	-	-	-	-	-
24	N. Hills	SPG1221	3.87	-	-	-	-	-	-
25	N. Hills	SPG1222	7.97	-	-	-	-	-	-
26	N. Hills	SPG1223	6.14	-	-	-	-	-	-
27	N. Hills	SPP1286	1.12	-	-	-	-	-	-
28	N. Hills	SPP1287	5.85	-	-	-	-	-	-
29	N. Hills	STG1201	29.11	-	-	-	-	-	-
30	N. Hills	STG1202	3.46	-	-	-	-	-	-
31	N. Hills	STG1203	7.30	-	-	-	-	-	-
32	N. Hills	STG1209	3.02	-	-	-	-	-	-
33	N. Hills	STG1210	3.71	-	-	-	-	-	-
34	N. Hills	STG1211	8.04	-	-	-	-	-	-
35	N. Hills	TRO1209	22.27	-	-	-	-	-	-
36	N. Hills	TRO1210	2.05	-	-	-	-	-	-
37	N. Hills	WFL1207	47.27	7.20	-	-	-	-	-
38	N. Hills	WFL1212	26.40	-	-	-	-	-	-
39	N. Hills	WTW2W13	51.85	-	-	-	-	-	-
40	N. Hills	WTW2W5	91.43	-	-	-	-	-	-
41	N. Hills	WTW2W9	12.06	-	-	-	-	-	-

Black Hills Power, Inc. d/b/a Black Hills Energy - Rapid City Circuits

Line No.	District	Circuit	4/1/2017 to 3/31/2018		2018	2019	2020	2021	Total Line Miles Trimmed
			Overhead Miles	Line Miles Trimmed	Line Miles Trimmed	Line Miles Trimmed	Line Miles Trimmed	Line Miles Trimmed	
			460.18	100.20	208.59	-	-	-	308.79
1	Rapid City	ANA1225	5.26	-	4.17	-	-	-	-
2	Rapid City	ANA1226	5.78	-	4.22	-	-	-	-
3	Rapid City	ANA1227	2.87	-	3.51	-	-	-	-
4	Rapid City	B24242	9.03	-	-	-	-	-	-
5	Rapid City	B24245	0.01	-	-	-	-	-	-
6	Rapid City	B24269	1.49	-	-	-	-	-	-
7	Rapid City	B242L34	5.92	-	-	-	-	-	-
8	Rapid City	CBLRC325	0.72	-	0.72	-	-	-	-
9	Rapid City	CBLRC326	7.03	-	5.20	-	-	-	-
10	Rapid City	CBLRC327	2.79	-	2.71	-	-	-	-
11	Rapid City	CEM1211	7.41	-	7.52	-	-	-	-
12	Rapid City	CEM1212	1.21	-	1.22	-	-	-	-
13	Rapid City	CEM1213	3.26	-	3.23	-	-	-	-
14	Rapid City	CEM1223	6.25	-	5.34	-	-	-	-
15	Rapid City	CEM1224	4.18	-	4.18	-	-	-	-
16	Rapid City	CLV1287	3.41	-	3.41	-	-	-	-
17	Rapid City	CLV1288	0.35	-	0.37	-	-	-	-
18	Rapid City	CLV1289	0.06	-	0.06	-	-	-	-
19	Rapid City	CLV1290	0.24	-	0.24	-	-	-	-
20	Rapid City	CSS1216	6.65	-	8.12	-	-	-	-
21	Rapid City	CSS1217	4.43	-	3.97	-	-	-	-
22	Rapid City	CSS1218	2.40	-	2.37	-	-	-	-
23	Rapid City	CYR1251	0.82	-	0.64	-	-	-	-
24	Rapid City	CYR1252	0.28	-	0.45	-	-	-	-
25	Rapid City	CYR1253	2.16	-	2.16	-	-	-	-
26	Rapid City	CYR1262	0.95	-	0.92	-	-	-	-
27	Rapid City	EMD1232	3.98	3.98	-	-	-	-	-
28	Rapid City	EMD1233	9.87	9.87	-	-	-	-	-
29	Rapid City	EMD1234	1.79	1.79	-	-	-	-	-
30	Rapid City	EMD1235	1.95	1.95	-	-	-	-	-
31	Rapid City	ENS1241	2.85	2.85	-	-	-	-	-
32	Rapid City	ENS1242	2.04	2.04	-	-	-	-	-
33	Rapid City	ENS1243	2.71	2.71	-	-	-	-	-
34	Rapid City	ENS1246	3.70	3.70	-	-	-	-	-
35	Rapid City	ENS1247	0.74	0.74	-	-	-	-	-
36	Rapid City	ENS1248	5.62	5.62	-	-	-	-	-
37	Rapid City	FFS1256	6.78	6.78	-	-	-	-	-
38	Rapid City	FFS1257	9.29	-	9.24	-	-	-	-
39	Rapid City	FFS1258	17.24	-	16.84	-	-	-	-
40	Rapid City	FIF1214	5.37	5.37	-	-	-	-	-
41	Rapid City	FIF1215	5.77	5.77	-	-	-	-	-
42	Rapid City	FIF1220	7.51	7.51	-	-	-	-	-

Black Hills Power, Inc. d/b/a Black Hills Energy - Rapid City Circuits

Line No.	District	Circuit	Overhead Miles	4/1/2017 to 3/31/2018	2018	2019	2020	2021	Total Line Miles Trimmed
				Line Miles Trimmed	Line Miles Trimmed	Line Miles Trimmed	Line Miles Trimmed	Line Miles Trimmed	
43	Rapid City	FIF1221	0.78	0.78	-	-	-	-	-
44	Rapid City	FST408	0.62	-	-	-	-	-	-
45	Rapid City	FST409	0.59	-	-	-	-	-	-
46	Rapid City	FST410	0.72	-	-	-	-	-	-
47	Rapid City	FST411	0.80	-	-	-	-	-	-
48	Rapid City	LNG212	6.68	-	-	-	-	-	-
49	Rapid City	LNG287	10.76	-	-	-	-	-	-
50	Rapid City	LNG291	25.61	-	-	-	-	-	-
51	Rapid City	MER1208	6.80	-	2.57	-	-	-	-
52	Rapid City	MER1209	8.11	-	8.45	-	-	-	-
53	Rapid City	MER1210	7.31	-	7.18	-	-	-	-
54	Rapid City	MER1261	0.41	-	0.94	-	-	-	-
55	Rapid City	MLL2436	14.97	-	-	-	-	-	-
56	Rapid City	MLL2437	0.90	-	-	-	-	-	-
57	Rapid City	MLL2438	0.41	-	-	-	-	-	-
58	Rapid City	PAC2S82	38.74	38.74	-	-	-	-	-
59	Rapid City	PLVRC300	28.88	-	-	-	-	-	-
60	Rapid City	PLVRC301	6.37	-	-	-	-	-	-
61	Rapid City	PLVRC302	9.13	-	-	-	-	-	-
62	Rapid City	PMT2456	31.60	-	31.81	-	-	-	-
63	Rapid City	PMT2457	22.49	-	22.22	-	-	-	-
64	Rapid City	PMT2458	25.40	-	25.29	-	-	-	-
65	Rapid City	RAD1271	3.38	-	-	-	-	-	-
66	Rapid City	RAD1272	4.66	-	-	-	-	-	-
67	Rapid City	RAD1273	11.87	-	-	-	-	-	-
68	Rapid City	SRD1282	3.53	-	3.32	-	-	-	-
69	Rapid City	SRD1283	1.56	-	1.56	-	-	-	-
70	Rapid City	TESRC343	1.85	-	1.93	-	-	-	-
71	Rapid City	TESRC347	9.35	-	8.84	-	-	-	-
72	Rapid City	TESRC355	1.53	-	1.52	-	-	-	-
73	Rapid City	WBV401	0.91	-	0.91	-	-	-	-
74	Rapid City	WBV402	0.60	-	0.53	-	-	-	-
75	Rapid City	WBV403	0.13	-	0.13	-	-	-	-
76	Rapid City	WBV404	0.58	-	0.58	-	-	-	-

Line miles can differ from overhead line miles based upon circuit configuration.

Black Hills Power, Inc. d/b/a Black Hills Energy - Southern Hills Circuits

Line No.	District	Circuit	4/1/2017 to 3/31/2018		2018	2019	2020	2021	Total Line Miles Trimmed
			Overhead Miles	Line Miles Trimmed	Line Miles Trimmed	Line Miles Trimmed	Line Miles Trimmed	Line Miles Trimmed	
			578.61	228.81	174.14	-	-	-	402.95
1	S. Hills	ARG704	86.87	-	86.87	-	-	-	-
2	S. Hills	CUS1201	24.47	-	-	-	-	-	-
3	S. Hills	CUS1202	36.75	36.75	-	-	-	-	-
4	S. Hills	CUS1203	60.51	-	-	-	-	-	-
5	S. Hills	CUS2400	20.30	20.30	-	-	-	-	-
6	S. Hills	CUS2S45	60.93	11.47	60.67	-	-	-	-
7	S. Hills	EDC1201	46.06	46.06	-	-	-	-	-
8	S. Hills	EDC241	2.29	2.29	-	-	-	-	-
9	S. Hills	EDC242	6.19	6.19	-	-	-	-	-
10	S. Hills	EDC243	1.74	1.74	-	-	-	-	-
11	S. Hills	HIL2S54	11.64	-	-	-	-	-	-
12	S. Hills	HIL2S67	34.24	-	-	-	-	-	-
13	S. Hills	HIL2S72	32.77	-	-	-	-	-	-
14	S. Hills	HSC1206	50.38	50.38	-	-	-	-	-
15	S. Hills	HSC1207	4.40	4.40	-	-	-	-	-
16	S. Hills	HSC1208	1.96	1.93	-	-	-	-	-
17	S. Hills	HSC1209	0.02	0.02	-	-	-	-	-
18	S. Hills	PRO1220	47.28	47.28	-	-	-	-	-
19	S. Hills	WHL1201	19.27	-	-	-	-	-	-
20	S. Hills	WHL1202	30.54	-	26.60	-	-	-	-

Black Hills Power, Inc. d/b/a Black Hills Energy - Wyoming Circuits

Line No.	District	Circuit	4/1/2017 to 3/31/2018		2018	2019	2020	2021	Total Line Miles Trimmed
			Overhead Miles	Line Miles Trimmed	Line Miles Trimmed	Line Miles Trimmed	Line Miles Trimmed	Line Miles Trimmed	
			54.50	5.03	-	-	-	-	5.03
1	WY	COL2401	3.46	-	-	-	-	-	-
2	WY	NEW401	6.50	-	-	-	-	-	-
3	WY	NEW403	5.07	-	-	-	-	-	-
4	WY	NEW404	7.66	-	-	-	-	-	-
5	WY	NEW405	5.68	-	-	-	-	-	-
6	WY	N4E408	2.65	2.65	-	-	-	-	-
7	WY	N4EW421	0.50	0.50	-	-	-	-	-
8	WY	N4W422	0.42	0.42	-	-	-	-	-
9	WY	N4W423	1.46	1.46	-	-	-	-	-
10	WY	OSC1201	9.66	-	-	-	-	-	-
11	WY	UPT401	6.47	-	-	-	-	-	-
12	WY	UPT402	4.95	-	-	-	-	-	-
13	WY	WRF408	0.01	-	-	-	-	-	-

Black Hills Power, Inc. d/b/a Black Hills Energy - Montana Circuits

Line No.	District	Circuit	Overhead Miles	4/1/2017 to 3/31/2018 Line Miles Trimmed	2018 Line Miles Trimmed	2019 Line Miles Trimmed	2020 Line Miles Trimmed	2021 Line Miles Trimmed	Total Line Miles Trimmed
			26.69	-	-	-	-	-	-
1	MT	BLC2010	15.42	-	-	-	-	-	-
2	MT	BLC2016	4.83	-	-	-	-	-	-
3	MT	BLC2033	6.01	-	-	-	-	-	-
4	MT	BTP	0.43	-	-	-	-	-	-

Black Hills Power, Inc d/b/a Black Hills Energy - 69kV Circuits

Line No.	District	Circuit	Overhead Miles	4/1/2017 to 3/31/2018 Line Miles Trimmed	2018 Line Miles Trimmed	2019 Line Miles Trimmed	2020 Line Miles Trimmed	2021 Line Miles Trimmed	Total Line Miles Trimmed
			483.31	117.18	15.71	-	-	-	132.89
1	47kV	Edgemont to Provo	7.50	7.50	-	-	-	-	-
2	69kV	Sundance Hill to Belle Creek	74.00	-	-	-	-	-	-
3	69kV	Sundance Hill to Lookout #1	13.00	-	-	-	-	-	-
4	69kV	Sundance Hill to Lookout #2	10.00	-	-	-	-	-	-
5	69kV	Custer to Edgemont	38.00	-	-	-	-	-	-
6	69kV	Custer to Westhill	24.00	-	-	-	-	-	-
7	69kV	Pactola to Hill City	11.50	-	-	-	-	-	-
8	69kV	Hill City to Custer	13.50	-	-	-	-	-	-
9	69kV	Pactola to Ben French	12.00	-	-	-	-	-	-
10	69kV	Pactola to Pluma	16.00	-	-	-	-	-	-
11	69kV	Windy Flatts to Pluma	7.00	-	-	-	-	-	-
12	69kV	Ben French to Lange #1	3.00	3.00	-	-	-	-	-
13	69kV	Ben French to Lange #2	3.00	3.00	-	-	-	-	-
14	69kV	Ben French to Lange #3	3.00	3.00	-	-	-	-	-
15	69kV	Rapid City Loop	25.50	53.00	-	-	-	-	-
16	69kV	Rapid City Loop (Southwest)	11.63	-	11.65	-	-	-	-
17	69kV	Lange to Sturgis	26.00	26.00	-	-	-	-	-
18	69kV	Sturgis to Whitewood	4.00	-	-	-	-	-	-
19	69kV	Whitewood to Sundance Hill	22.00	-	-	-	-	-	-
20	69kV	Whitewood to Spruce Gulch	12.00	-	-	-	-	-	-
21	69kV	Spruce Gulch to Pluma	2.00	-	-	-	-	-	-
22	69kV	Osage to Newcastle (north)	15.00	-	-	-	-	-	-
23	69kV	Osage to Newcastle/Salt Creek (south)	15.00	-	-	-	-	-	-
24	69kV	Osage to Upton	16.00	-	-	-	-	-	-
25	69kV	Pluma to Kirk	3.00	-	-	-	-	-	-
26	69kV	Pluma to Yellow Creek	4.00	-	-	-	-	-	-
27	69kV	Westhill to Edgemont	20.33	20.33	-	-	-	-	-
28	69kV	Westhill to Hot Springs City	1.35	1.35	-	-	-	-	-
29	69kV	Yellow Creek to Kirk to Lookout #2 (east)	18.00	-	-	-	-	-	-
30	69kV	Yellow Creek to Lookout #1 (West)	20.00	-	-	-	-	-	-
31	69kV	Piedmont Tap	4.00	-	4.06	-	-	-	-
32	69kV	Trojan Tap	2.00	-	-	-	-	-	-
33	69kV	Colony Tap	1.00	-	-	-	-	-	-
34	69kV	Yellow Creek to Dumont	7.00	Maintained By Other Party	Maintained By Other Party	Maintained By Other Party	Maintained By Other Party	Maintained By Other Party	Maintained By Other Party
35	69kV	Pactola to Clinton	15.00	Maintained By Other Party	Maintained By Other Party	Maintained By Other Party	Maintained By Other Party	Maintained By Other Party	Maintained By Other Party
36	69kV	Pactola to BHEC Custer	3.00	Maintained By Other Party	Maintained By Other Party	Maintained By Other Party	Maintained By Other Party	Maintained By Other Party	Maintained By Other Party

Line miles can differ from overhead line miles based upon circuit configuration.