

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



2021 Stipulation Vegetation Management Report
Docket No. EL-17-006 & EL17-008

April 29, 2022

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
		2,533.06	478.00	448.59	599.59	538.76	754.60	2,819.53
1	Northern Hills	719.37	76.02	30.85	239.34	307.71	140.81	794.73
2	Southern Hills	590.06	181.53	193.14	11.72	92.05	285.78	764.22
3	Rapid City	450.80	100.20	208.89	82.60	18.44	88.68	498.80
4	Wyoming	54.89	1.88	-	-	50.07	-	51.95
5	Montana	30.49	-	-	-	30.49	-	30.49
6	69kV/230Kv ¹	687.45	118.37	15.71	265.93	40.00	239.33	679.34
7								
8	Maintenance Cost		\$ 2,326,671	\$ 3,450,765	\$ 3,871,577	\$ 4,409,390	\$ 4,486,608	
9	Cost / Line Mile ²		\$ 4,867.54	\$ 7,692.47	\$ 6,457.05	\$ 8,184.33	\$ 5,945.71	

Note¹ : Overhead line miles were updated with more detailed information

Note² : Cost / Line Mile changed due to overhead line miles update

Black Hills Power, Inc. d/b/a Black Hills Energy - Northern 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	
			719.37	76.02	30.85	239.34	307.71	140.81	794.73
1	N. Hills	BLX_2488	0.22	-	-	-	0.22	-	-
2	N. Hills	BLX_2489	13.78	-	-	-	-	13.78	-
3	N. Hills	BLX_2490	21.09	-	-	-	-	21.09	-
4	N. Hills	HVW1215	12.99	-	-	12.98	-	-	-
5	N. Hills	HVW1216	2.56	-	-	2.59	-	-	-
6	N. Hills	MTV2416	11.76	-	-	11.76	-	-	-
7	N. Hills	MTV2417	44.39	-	-	40.00	-	-	-
8	N. Hills	MTV2418	39.06	-	-	38.80	-	-	-
9	N. Hills	PLM1201	20.88	-	-	-	-	20.88	-
10	N. Hills	PLM1202	10.51	10.00	-	-	10.51	-	-
11	N. Hills	PLM1203	0.94	-	-	0.94	-	-	-
12	N. Hills	PLM1204	67.03	58.54	8.32	-	-	67.03	-
13	N. Hills	PLM1205	6.37	-	6.37	-	-	-	-
14	N. Hills	PLM1206	3.69	-	-	-	3.69	-	-
15	N. Hills	RHL1201	0.28	0.28	-	-	-	0.28	-
16	N. Hills	SH4_411	6.29	-	-	-	-	6.29	-
17	N. Hills	SH4_412	5.66	-	-	-	-	5.66	-
18	N. Hills	SH4_413	0.33	-	-	-	-	0.33	-
19	N. Hills	SH4_414	2.61	-	-	-	-	2.61	-
20	N. Hills	SHL2470	55.94	-	-	55.96	-	-	-
21	N. Hills	SHL2471	27.32	-	-	-	27.32	-	-
22	N. Hills	SHL2472	7.94	-	7.94	-	-	-	-
23	N. Hills	SHL2473	8.23	-	8.22	-	-	-	-
24	N. Hills	SPC1291	2.88	-	-	-	2.88	-	-
25	N. Hills	SPC1292	2.63	-	-	-	2.63	-	-
26	N. Hills	SPC1293	2.86	-	-	-	-	2.86	-
27	N. Hills	SPG1221	3.25	-	-	-	3.25	-	-
28	N. Hills	SPG1222	7.93	-	-	-	7.93	-	-
29	N. Hills	SPG1223	6.27	-	-	-	6.27	-	-
30	N. Hills	SPP1286	1.13	-	-	-	1.13	-	-
31	N. Hills	SPP1287	5.76	-	-	-	5.76	-	-
32	N. Hills	STG1201	30.50	-	-	30.32	-	-	-
33	N. Hills	STG1202	3.27	-	-	3.27	-	-	-
34	N. Hills	STG1203	7.21	-	-	7.30	-	-	-
35	N. Hills	STG1209	1.72	-	-	1.72	-	-	-
36	N. Hills	STG1210	3.72	-	-	3.72	-	-	-
37	N. Hills	STG1211	7.88	-	-	7.98	-	-	-
38	N. Hills	TRO1209	30.73	-	-	-	30.73	-	-

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

Line			4/1/2017 to 3/31/2018	2018	2019	2020	2021	Total Line Miles Trimmed
No.	District	Circuit	Overhead Miles	Line Miles Trimmed	Line Miles Trimmed	Line Miles Trimmed	Line Miles Trimmed	Line Miles Trimmed
39	N. Hills	TRO1210	1.66	-	-	-	1.66	-
40	N. Hills	WFL1207	48.02	7.20	-	-	48.02	-
41	N. Hills	WFL1212	26.37	-	-	22.00	-	-
42	N. Hills	WTW2W13	51.92	-	-	-	51.92	-
43	N. Hills	WTW2W5	91.74	-	-	-	91.74	-
44	N. Hills	WTW2W9	12.05	-	-	-	12.05	-

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	
			450.80	100.20	208.89	82.60	18.44	88.68	498.80
1	Rapid City	ANA1225	4.18	-	4.17	-	-	-	-
2	Rapid City	ANA1226	4.21	-	4.22	-	-	-	-
3	Rapid City	ANA1227	3.52	-	3.51	-	-	-	-
4	Rapid City	B24242	7.15	-	-	-	7.15	-	-
5	Rapid City	B24245	1.04	-	-	-	1.04	-	-
6	Rapid City	B24261	0.02	-	-	-	0.02	-	-
7	Rapid City	B24269	1.44	-	-	-	1.44	-	-
8	Rapid City	B242L34	1.59	-	-	-	1.59	-	-
9	Rapid City	CBLRC325	0.72	-	0.72	-	-	-	-
10	Rapid City	CBLRC326	5.20	-	5.20	-	-	-	-
11	Rapid City	CBLRC327	2.71	-	2.71	-	-	-	-
12	Rapid City	CEM1211	7.52	-	7.52	-	-	-	-
13	Rapid City	CEM1212	1.22	-	1.22	-	-	-	-
14	Rapid City	CEM1213	3.23	-	3.23	-	-	-	-
15	Rapid City	CEM1223	5.35	-	5.34	-	-	-	-
16	Rapid City	CEM1224	4.18	-	4.18	-	-	-	-
17	Rapid City	CLV1287	1.58	-	3.41	-	-	-	-
18	Rapid City	CLV1288	0.37	-	0.37	-	-	-	-
19	Rapid City	CLV1289	0.06	-	0.06	-	-	-	-
20	Rapid City	CLV1290	0.24	-	0.24	-	-	-	-
21	Rapid City	CSS1216	8.12	-	8.12	-	-	-	-
22	Rapid City	CSS1217	3.91	-	3.97	-	-	-	-
23	Rapid City	CSS1218	2.37	-	2.37	-	-	-	-
24	Rapid City	CYR1251	0.64	-	0.64	-	-	-	-
25	Rapid City	CYR1252	0.45	-	0.45	-	-	-	-
26	Rapid City	CYR1253	2.16	-	2.16	-	-	-	-
27	Rapid City	CYR1262	0.92	-	0.92	-	-	-	-
28	Rapid City	EMD1232	4.02	3.98	-	-	-	4.02	-
29	Rapid City	EMD1233	9.80	9.87	-	-	-	-	-
30	Rapid City	EMD1234	1.79	1.79	-	-	-	-	-
31	Rapid City	EMD1235	5.34	1.95	-	-	-	-	-
32	Rapid City	ENS1241	3.83	2.85	-	-	-	-	-
33	Rapid City	ENS1242	3.33	2.04	-	-	-	-	-
34	Rapid City	ENS1243	2.69	2.71	-	-	-	-	-
35	Rapid City	ENS1246	3.83	3.70	-	-	-	-	-
36	Rapid City	ENS1247	0.65	0.74	-	-	-	-	-
37	Rapid City	ENS1248	2.60	5.62	-	-	-	2.60	-
38	Rapid City	FFS1256	6.75	6.78	-	-	-	-	-
39	Rapid City	FFS1257	9.16	-	9.24	-	-	-	-
40	Rapid City	FFS1258	17.14	-	16.84	-	-	-	-
41	Rapid City	FIF1214	5.54	5.37	-	-	-	-	-

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 Line Miles Trimmed	2018 Line Miles Trimmed	2019 Line Miles Trimmed	2020 Line Miles Trimmed	2021 Line Miles Trimmed	Total Line Miles Trimmed
42	Rapid City	FIF1215	1.84	5.77	-	-	-	-	-
43	Rapid City	FIF1220	13.08	7.51	-	-	-	-	-
44	Rapid City	FIF1221	0.08	0.78	-	-	-	-	-
45	Rapid City	FST408	0.62	-	-	0.62	-	-	-
46	Rapid City	FST409	0.59	-	-	0.59	-	-	-
47	Rapid City	FST410	0.72	-	-	0.72	-	-	-
48	Rapid City	FST411	0.81	-	-	0.82	-	-	-
49	Rapid City	LNG212	7.20	-	-	-	7.20	-	-
50	Rapid City	LNG287	9.59	-	-	-	-	9.59	-
51	Rapid City	LNG291	30.30	-	-	-	-	30.30	-
52	Rapid City	MER1208	2.57	-	2.57	-	-	-	-
53	Rapid City	MER1209	8.46	-	8.45	-	-	-	-
54	Rapid City	MER1210	6.46	-	7.18	-	-	-	-
55	Rapid City	MER1261	0.94	-	0.94	-	-	-	-
56	Rapid City	MLL2436	14.65	-	-	14.75	-	-	-
57	Rapid City	MLL2437	0.90	-	-	0.90	-	-	-
58	Rapid City	MLL2438	0.42	-	-	0.42	-	-	-
59	Rapid City	PAC2582	38.73	38.74	-	-	-	38.73	-
60	Rapid City	PLVRC300	28.22	-	-	28.94	-	-	-
61	Rapid City	PLVRC301	6.39	-	-	6.32	-	-	-
62	Rapid City	PLVRC302	8.99	-	-	9.05	-	-	-
63	Rapid City	PMT2456	31.77	-	31.81	-	-	-	-
64	Rapid City	PMT2457	22.24	-	22.22	-	-	-	-
65	Rapid City	PMT2458	25.56	-	25.29	-	-	-	-
66	Rapid City	RAD1272	4.67	-	-	4.68	-	-	-
67	Rapid City	RAD1273	11.42	-	-	11.41	-	-	-
68	Rapid City	RAD1276	3.38	-	-	3.38	-	-	-
69	Rapid City	SRD1281	0.30	-	0.30	-	-	-	-
70	Rapid City	SRD1282	3.33	-	3.32	-	-	-	-
71	Rapid City	SRD1283	1.56	-	1.56	-	-	-	-
72	Rapid City	TESRC343	1.92	-	1.93	-	-	1.92	-
73	Rapid City	TESRC347	8.84	-	8.84	-	-	-	-
74	Rapid City	TESRC355	1.52	-	1.52	-	-	1.52	-
75	Rapid City	WBV401	0.91	-	0.91	-	-	-	-
76	Rapid City	WBV402	0.53	-	0.53	-	-	-	-
77	Rapid City	WBV403	0.13	-	0.13	-	-	-	-
78	Rapid City	WBV404	0.58	-	0.58	-	-	-	-

Black Hills Power, Inc. d/b/a Black Hills Energy - Southern 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	
			590.06	181.53	193.14	11.72	92.05	285.78	764.22
1	S. Hills	ARG704	89.04	-	86.87	-	-	-	-
2	S. Hills	CUS1201	24.38	-	-	-	24.38	-	-
3	S. Hills	CUS1202	38.89	36.75	-	-	-	38.89	-
4	S. Hills	CUS1203	61.00	-	-	-	-	61.00	-
5	S. Hills	CUS2400	20.08	20.30	-	-	-	20.08	-
6	S. Hills	CUS2S45	60.82	11.47	60.67	-	-	-	-
7	S. Hills	EDC1201	0.01	46.06	-	-	-	0.01	-
8	S. Hills	EDC241	0.05	2.29	-	-	-	0.05	-
9	S. Hills	EDC242	0.01	6.19	-	-	-	0.01	-
10	S. Hills	EDC243	0.49	1.74	-	-	-	0.49	-
11	S. Hills	EDC_1241	53.59	-	-	-	-	53.59	-
12	S. Hills	EDC_1242	48.40	-	-	-	-	48.40	-
13	S. Hills	EDC_1243	5.71	-	-	-	-	5.71	-
14	S. Hills	EDC_1244	0.88	-	-	-	-	0.88	-
15	S. Hills	HIL2S54	11.72	-	-	11.72	-	-	-
16	S. Hills	HIL2S67	34.82	-	-	-	34.82	-	-
17	S. Hills	HIL2S72	32.85	-	-	-	32.85	-	-
18	S. Hills	HSC1206	50.28	50.38	-	-	-	50.28	-
19	S. Hills	HSC1207	4.43	4.40	-	-	-	4.43	-
20	S. Hills	HSC1208	1.94	1.93	-	-	-	1.94	-
21	S. Hills	HSC1209	0.02	0.02	-	-	-	0.02	-
23	S. Hills	WHL1201	19.00	-	19.00	-	-	-	-
24	S. Hills	WHL1202	31.65	-	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	
			54.89	1.88	-	4.82	50.07	-	56.77
1	WY	COL2401	3.57	-	-	-	3.57	-	-
2	WY	NEW401	6.35	-	-	-	6.35	-	-
3	WY	NEW403	5.41	-	-	-	5.41	-	-
4	WY	NEW404	7.66	-	-	-	7.66	-	-
5	WY	NEW405	5.75	-	-	-	5.75	-	-
6	WY	NSD_481	0.12	-	-	0.12	-	-	-
7	WY	NSD_484	2.21	-	-	2.21	-	-	-
8	WY	N4W422	0.90	0.42	-	0.90	-	-	-
9	WY	N4W423	1.59	1.46	-	1.59	-	-	-
10	WY	OSC1201	9.92	-	-	-	9.92	-	-
11	WY	UPT401	6.47	-	-	-	6.47	-	-
12	WY	UPT402	4.95	-	-	-	4.95	-	-

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
			30.49	-	-	-	30.49	-	30.49
1	MT	BLC2010	18.13	-	-	-	18.13	-	-
2	MT	BLC2016	5.95	-	-	-	5.95	-	-
3	MT	BLC2033	5.98	-	-	-	5.98	-	-
4	MT	BTP	0.43	-	-	-	0.43	-	-

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

Line No.	District	Circuit	Overhead Miles	2017	2018	2019	2020	2021	Total Line Miles Trimmed
				Line Miles Trimmed	Line Miles Trimmed	Line Miles Trimmed	Line Miles Trimmed	Line Miles Trimmed	
			687.45	118.37	15.71	265.93	40.00	239.33	679.34
1	69kV	38TH STREET TAP	1.27	1.27	-	-	-	-	1.27
2	69kV	44TH STREET TAP	0.16	-	-	-	-	-	-
3	69kV	4TH STREET TAP	0.39	0.39	-	-	-	-	0.39
4	69kV	5TH ST TAP	0.04	-	-	-	-	0.04	0.04
5	69kV	88 OIL TAP	0.58	-	-	-	-	0.58	0.58
6	69kV	AMERICAN COLLOID EAST TAP	0.12	-	-	-	-	0.12	0.12
7	69kV	AMERICAN COLLOID TAP	0.40	-	-	-	-	0.40	0.40
8	69kV	ANAMOSA TAP	0.59	0.59	-	-	-	-	0.59
9	69kV	ARGYLE TAP	0.01	-	-	0.01	-	-	0.01
10	69kV	BEC BELLE FOURCHE TAP	0.20	-	-	-	-	0.20	0.20
11	69kV	BEC SPEARFISH TAP	0.02	-	-	-	-	0.02	0.02
12	69kV	BEC STURGIS TAP	0.02	-	-	-	-	-	-
13	69kV	BEN FRENCH - BEN FRENCH DIESELS	0.11	0.11	-	-	-	-	0.11
14	69kV	BEN FRENCH - LANGE #1	3.00	3.00	-	-	-	-	3.00
15	69kV	BEN FRENCH - LANGE #2	3.00	3.00	-	-	-	-	3.00
16	69kV	BEN FRENCH - LANGE #3	3.00	3.00	-	-	-	-	3.00
22	69kV	BIG BEND TAP	0.04	-	-	-	-	0.04	0.04
23	69kV	Blucksberg Tap	0.26	-	-	0.26	-	-	0.26
24	69kV	Butte Pump Tap	0.11	-	-	-	-	0.11	0.11
25	69kV	CEMETERY TAP	0.49	0.49	-	-	-	-	0.49
26	69kV	CENTURY RD TAP	0.04	0.04	-	-	-	-	0.04
27	69kV	CLEVELAND STREET TAP	0.05	0.05	-	-	-	-	0.05
28	69kV	COLONY TAP	1.00	-	-	-	-	1.00	1.00
29	69kV	CROSS ST TAP	0.15	0.15	-	-	-	-	0.15
30	69kV	CT #1 - NSS #2 69 KV SUB	0.11	-	-	0.11	-	-	0.11
31	69kV	CUSTER - MINNEKAHTA	24.51	-	-	24.51	-	-	24.51
32	69kV	CUSTER - WEST HILL	23.71	-	-	-	-	23.71	23.71
33	69kV	E NORTH ST TAP	0.02	0.02	-	-	-	-	0.02
34	69kV	EAST MEADE ST TAP	0.02	0.02	-	-	-	-	0.02
35	69kV	EDGEMONT CITY TAP	0.80	0.80	-	-	-	-	0.80
36	69kV	GCC DACOTAH CEMENT PLANT TAP	0.15	0.15	-	-	-	-	0.15
37	69kV	HILL CITY TAP	0.07	-	-	0.07	-	-	0.07
38	69kV	HILLSVIEW TAP	0.45	-	-	-	-	-	-
39	69kV	KIRK - SUNDANCE HILL #2	25.63	-	-	-	25.00	-	25.00
40	69kV	MALL TAP	0.50	-	-	-	-	-	-
41	69kV	MERILLAT TAP	0.05	-	-	-	-	-	-
42	69kV	MINNEKAHTA - EDGEMONT	13.12	13.12	-	-	-	-	13.12
43	69kV	MOUNTAIN VIEW TAP	0.22	-	-	0.22	-	-	0.22
44	69kV	NEIL SIMPSON 4160 WEST TAP	0.16	-	-	0.16	-	-	0.16
45	69kV	NEWCASTLE TAP	1.72	-	-	-	-	1.72	1.72
46	69kV	NSS #1-4160 EAST TAP	0.15	-	-	0.15	-	-	0.15
47	69kV	NSS #1-COAL SHOVEL	2.15	-	-	2.15	-	-	2.15
48	69kV	NSS #1-NSS #2	0.68	-	-	0.68	-	-	0.68
49	69kV	NSS #1-WYODAK TIE	0.35	-	-	0.35	-	-	0.35
50	69kV	OSAGE - NEWCASTLE	15.00	-	-	-	-	15.00	15.00
51	69kV	OSAGE - NEWCASTLE (CUSTER LINE)	15.00	-	-	-	15.00	-	15.00
52	69kV	PACTOLA - BEN FRENCH #1	12.32	-	-	-	-	6.00	6.00
53	69kV	PACTOLA - CUSTER	24.77	-	-	-	-	24.77	24.77

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

Line No.	District	Circuit	Overhead Miles	2017	2018	2019	2020	2021	Total Line Miles Trimmed
				Line Miles Trimmed	Line Miles Trimmed	Line Miles Trimmed	Line Miles Trimmed	Line Miles Trimmed	
54	69kV	PACTOLA - PLUMA	23.87	-	-	-	-	23.87	23.87
55	69kV	PIEDMONT TAP	4.00	-	4.06	3.00	-	-	7.06
56	69kV	PLEASANT VALLEY TAP	0.01	0.01	-	-	-	-	0.01
57	69kV	PLUMA - WHITEWOOD	13.73	-	-	-	-	2.00	2.00
58	69kV	PLUMA TAP	0.06	-	-	-	-	0.06	0.06
59	69kV	POPE AND TALBOT TAP	0.17	-	-	-	-	0.17	0.17
60	69kV	RADIO DRIVE TAP	0.02	0.02	-	-	-	-	0.02
61	69kV	RAPID CITY LOOP	32.08	32.08	-	-	-	-	32.08
62	69kV	RAPID CITY SOUTHWEST LOOP	11.65	11.65	11.65	-	-	-	23.30
63	69kV	RED ROCK TAP	0.04	-	-	-	-	-	-
64	69kV	RICHMOND HILL TAP	0.04	-	-	-	-	-	-
65	69kV	SOUTH RAPID CITY TAP	2.65	-	-	-	-	2.65	2.65
66	69kV	SPEARFISH CITY TAP	1.00	-	-	-	-	-	-
67	69kV	SPEARFISH PARK TAP	0.37	-	-	-	-	-	-
68	69kV	SPRUCE GULCH TAP	0.06	-	-	-	-	0.06	0.06
69	69kV	STURGIS - LANGE	25.71	26.00	-	-	-	-	26.00
70	69kV	STURGIS TAP	0.03	-	-	0.03	-	-	0.03
71	69kV	SUNDANCE HILL - BELLE CREEK	74.00	-	-	-	-	73.83	73.83
72	69kV	SUNDANCE HILL - STURGIS	26.27	-	-	26.27	-	-	26.27
73	69kV	SUNDANCE HILL-SHL 4160	0.08	-	-	0.08	-	-	0.08
74	69kV	TROJAN TAP	2.00	-	-	-	-	2.00	2.00
75	69kV	UPTON - OSAGE	15.56	-	-	-	-	15.56	15.56
76	69kV	Upton Tap	1.65	-	-	-	-	-	-
77	69kV	WATER TREATMENT PLANT TAP	0.35	0.35	-	-	-	-	0.35
78	69kV	WEST BLVD TAP	0.38	0.38	-	-	-	-	0.38
79	69kV	WESTHILL - EDGEMONT	20.33	20.33	-	-	-	-	20.33
80	69kV	WESTHILL - HOT SPRINGS CITY	1.35	1.35	-	-	-	-	1.35
81	69kV	WHITEWOOD TAP	0.09	-	-	0.09	-	-	0.09
82	69kV	WINDY FLATS TAP	0.02	-	-	0.02	-	-	0.02
83	69kV	WYODAK POWER PLANT TAP	0.05	-	-	-	-	0.05	0.05
84	69kV	WYODAK-NSS #2	1.05	-	-	1.05	-	-	1.05
85	69kV	WYOMING REFINERY TAP	0.04	-	-	-	-	0.04	0.04
86	69kV	YELLOW CREEK - KIRK (EAST TIE)	2.20	-	-	-	-	2.20	2.20
87	69kV	YELLOW CREEK - KIRK (WEST TIE)	2.51	-	-	-	-	2.51	2.51
88	69kV	YELLOW CREEK - PACTOLA TIE (DC)	4.13	-	-	-	-	4.13	4.13
89	69kV	YELLOW CREEK - PLUMA (DC)	4.58	-	-	-	-	4.58	4.58
90	69kV	YELLOW CREEK - SUNDANCE HILL #1	31.91	-	-	-	-	31.91	31.91
91	230kV	DONKEY CREEK-PUMPKIN BUTTES	49.76	-	-	49.76	-	-	49.76
92	230kV	PUMPKIN BUTTES-WINDSTAR	68.81	-	-	68.81	-	-	68.81
93	230kV	WYGEN1-DONKEY CREEK	0.62	-	-	0.62	-	-	0.62
94	230kV	WYGEN2-DONKEY CREEK	0.78	-	-	0.78	-	-	0.78
95	230kV	WYGEN3-DONKEY CREEK	0.75	-	-	0.75	-	-	0.75
96	230kV	WYODAK - LOOKOUT	84.76	-	-	84.76	-	-	84.76
97	230kV	WYODAK PLANT-WYODAK 230KV SUB	0.17	-	-	0.17	-	-	0.17
98	230kV	WYODAK-DONKEY CREEK	1.07	-	-	1.07	-	-	1.07