

**ATTACHMENT X-4
TABULATED SUMMARY OF ACOUSTIC MODELING RESULTS BY
RECEPTOR LOCATION**

Boardman to Hemingway Transmission Line Project
 Idaho Power's Responses to Public Comments Received by ODOE on the Draft Proposed Order
 November 6, 2019

Table NC-1: Summary of Acoustic Modeling Results—Comparison of Predicted Facility Sound Levels to Late Night Baseline L50 (NSR Exceedances)

NSR Number (Map ID)	Distance from NSR to the Transmission Line (feet)	Nearest Milepost	County	Late Night Baseline Sound Pressure Level (dBA)	Future Sound Level (Foul Weather) (dBA)	Increase (dBA)
5002	2,067	58.9	Umatilla	25	36	+11
8	2,139	58.9	Umatilla	25	36	+11
9	1,834	59.6	Umatilla	25	36	+12
10	1,834	59.6	Umatilla	25	36	+12
11	1,398	59.7	Umatilla	25	38	+13
5004	338	106.7	Union	32	47	+15
46	991	106.2	Union	32	43	+11
69	1,467	142.6	Baker	27	39	+12
70	1,053	142.7	Baker	27	40	+14
5010	1,170	174.2	Baker	24	41	+17
92	2,434	215.2	Malheur	24	35	+12
93	2,283	216	Malheur	24	35	+11
94	1,801	216.2	Malheur	24	37	+12
95	2,070	216.3	Malheur	24	36	+12
96	1,470	216.5	Malheur	24	38	+13
97	1,693	216.5	Malheur	24	37	+13
98	1,102	216.8	Malheur	24	39	+15
99	1,768	216.9	Malheur	24	37	+13
100	2,119	217	Malheur	24	36	+12
101	673	217	Malheur	24	42	+17
102	607	217.3	Malheur	24	42	+18
103	2,575	217.4	Malheur	24	35	+11
104	1,598	217.4	Malheur	24	37	+14
105	745	217.4	Malheur	24	41	+17
106	2,621	217.7	Malheur	24	35	+11
107	2,474	217.9	Malheur	24	35	+12
108	2,119	218.1	Malheur	24	36	+12
109	2,595	218.1	Malheur	24	35	+11
110	2,648	218.1	Malheur	24	35	+11
518	2734	216.4	Malheur	24	35	+11
5011	780	227.1	Malheur	24	42	+18
111	2,746	253.5	Malheur	24	35	+11
5008	1,340	254.7	Malheur	24	38	+14
5009	2,060	254.7	Malheur	24	36	+12
112	1,732	254.9	Malheur	24	37	+13
113	3,087	263.7	Malheur	24	34	+11
115	659	6.1	Union	32	46	+14
142C	1,015	6.4	Union	32	44	+12
143C	934	6.4	Union	32	45	+12
147C	1,075	6.2	Union	32	44	+12
148C	1,058	6.3	Union	32	44	+12

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Table NC-1: Summary of Acoustic Modeling Results—Comparison of Predicted Facility Sound Levels to Late Night Baseline L50 (NSR Exceedances)

NSR Number (Map ID)	Distance from NSR to the Transmission Line (feet)	Nearest Milepost	County	Late Night Baseline Sound Pressure Level (dBA)	Future Sound Level (Foul Weather) (dBA)	Increase (dBA)
<u>119</u>	<u>935</u>	<u>6.8</u>	<u>Union</u>	<u>32</u>	<u>45</u>	<u>+12</u>
<u>121</u>	<u>1,079</u>	<u>6.9</u>	<u>Union</u>	<u>32</u>	<u>44</u>	<u>+12</u>
<u>125</u>	<u>1,378</u>	<u>7.4</u>	<u>Union</u>	<u>32</u>	<u>43</u>	<u>+11</u>
133	890	255.4	Malheur	24	40	+16

Source: B2HAPPDoc3-41 ASC 24_ Exhibit X_Noise_ASC 2018-09-28, Table X-5.

Attachment X-4. Tabulated Summary of Acoustic Modeling Results by Receptor Location

NSR Sequential Number	Receptor ID	Receptor Status	Distance from Receptor to the Transmission Line (ft)	Project Transmission Line Milepost	County	UTM Coordinates (m)		Associated Monitoring Position	Late Night Baseline Sound Pressure Level (dBA)	Predicted Sound Level (dBA)		Foul Weather Increase over Late Night Baseline (dBA)
						Easting	Northing			Fair Weather	Foul Weather	
1	1008	Residence	1,673	1	Morrow	296,829	5,078,967	MP39	50	10	35	-
2	1009	Residence	1,148	1	Morrow	296,681	5,079,106	MP39	50	12	37	-
3	new	Residence	1,837	17.9	Morrow	295,456	5,052,088	MP05	27	10	35	+8
4	new	Residence	3,232	27.9	Morrow	311,219	5,050,286	MP05	27	8	33	+6
5	new	Residence	3,556	28.1	Morrow	311,442	5,050,316	MP05	27	8	33	+6
6	1176	Residence	2,657	33.2	Morrow	318,872	5,046,093	MP05	27	9	34	+7
7	New-1	Residence	2,884	49.7	Umatilla	335,681	5,030,287	MP06	25	9	34	+10
8	New-2	Residence	2,139	58.9	Umatilla	350,487	5,030,937	MP06	25	11	36	+11
9	New-3	Residence	1,834	59.6	Umatilla	351,608	5,029,688	MP06	25	11	36	+12
10	New-4	Residence	1,834	59.6	Umatilla	351,608	5,029,688	MP06	25	11	36	+12
11	New-5	Residence	1,398	59.7	Umatilla	351,805	5,030,667	MP06	25	13	38	+13
12	new	Residence	2,684	64	Umatilla	358,711	5,030,227	MP28	30	9	34	+6
13	new	Residence	2,221	64.2	Umatilla	358,940	5,030,005	MP28	30	10	35	+6
14	New-6	Residence	1,096	64.7	Umatilla	359,251	5,029,655	MP28	30	14	39	+9
15	new	Residence	2,428	64.8	Umatilla	360,178	5,029,105	MP28	30	10	35	+6
16	new	Residence	4,032	67.2	Umatilla	363,067	5,029,396	MP28	30	9	34	+5
17	new	Residence	2,569	75.7	Umatilla	374,908	5,035,471	MP08	41	10	35	-
18	123	Residence	919	78.5	Umatilla	377,967	5,038,280	MP09	35	16	41	+7
19	128	Residence	2,192	79.8	Umatilla	379,730	5,039,276	MP09	35	12	37	+4
20	118	Residence	1,483	82.9	Umatilla	384,896	5,038,241	MP09	35	14	39	+5
21	108	Residence	2,116	88.8	Union	390,861	5,032,259	MP11	32	13	38	+6
22	111	Residence	2,218	88.9	Union	390,956	5,032,288	MP11	32	12	37	+6
23	107	Residence	1,785	89	Union	391,084	5,032,153	MP11	32	14	39	+7
24	266	Residence	1,555	89	Union	391,099	5,032,083	MP11	32	14	39	+8
25	106	Residence	1,883	90.9	Union	393,171	5,029,402	MP11	32	13	38	+7
26	265	Cabin	1,260	91.6	Union	393,869	5,029,058	MP11	32	15	40	+8
29	257	School/Correctional Facility	1,867	99.1	Union	402,712	5,021,145	MP11	32	12	37	+6
36	blank	Residence	1,175	105	Union	411,360	5,018,085	MP11	32	15	40	+9
37	blank	Residence	2,733	105.3	Union	411,775	5,017,526	MP11	32	11	36	+5
38	blank	Residence	1,962	105.8	Union	413,069	5,018,465	MP11	32	12	37	+6

Attachment X-4. Tabulated Summary of Acoustic Modeling Results by Receptor Location

NSR Sequential Number	Receptor ID	Receptor Status	Distance from Receptor to the Transmission Line (ft)	Project Transmission Line Milepost	County	UTM Coordinates (m)		Associated Monitoring Position	Late Night Baseline Sound Pressure Level (dBA)	Predicted Sound Level (dBA)		Foul Weather Increase over Late Night Baseline (dBA)
						Easting	Northing			Fair Weather	Foul Weather	
39	blank	Residence	1,339	105.8	Union	412,939	5,018,324	MP11	32	14	39	+7
40	blank	Residence	2,402	105.9	Union	413,382	5,018,048	MP11	32	11	36	+5
41	blank	Residence	1,650	106	Union	413,170	5,017,950	MP11	32	13	38	+7
42	blank	Residence	2,949	106.1	Union	411,871	5,017,363	MP11	32	11	36	+5
43	blank	Residence	1,978	106.1	Union	413,329	5,017,731	MP11	32	12	37	+6
44	blank	Residence	1,627	106.1	Union	413,205	5,017,785	MP11	32	13	38	+7
45	blank	Residence	2,024	106.2	Union	412,192	5,017,242	MP11	32	13	38	+6
46	blank	Residence	991	106.2	Union	413,066	5,017,539	MP11	32	15	40	+9
47	blank	Residence	1,345	106.3	Union	412,401	5,017,259	MP11	32	15	40	+8
48	blank	Residence	2,152	106.3	Union	412,204	5,017,039	MP11	32	12	37	+6
49	blank	Residence	1,247	106.3	Union	413,179	5,017,410	MP11	32	14	39	+8
50	blank	Residence	1,791	106.3	Union	413,355	5,017,402	MP11	32	12	37	+6
51	blank	Residence	3,130	106.4	Union	412,104	5,016,572	MP11	32	10	35	+5
52	blank	Residence	2,461	106.4	Union	412,287	5,016,666	MP11	32	12	37	+6
53	blank	Residence	1,759	106.4	Union	412,342	5,016,992	MP11	32	13	38	+7
54	blank	Residence	1,900	106.4	Union	412,352	5,016,874	MP11	32	13	38	+6
55	blank	Residence	3,041	106.6	Union	412,252	5,016,409	MP11	32	11	36	+5
56	blank	Residence	3,035	107.8	Union	413,460	5,014,689	MP11	32	11	36	+5
57	blank	Residence	1,939	110.3	Union	417,831	5,013,289	MP11	32	12	37	+6
58	blank	Residence	1,306	110.9	Union	418,035	5,012,267	MP11	32	14	39	+7
59	blank	Residence	1,581	111.7	Union	418,564	5,011,176	MP11	32	13	38	+6
60	blank	Residence	2,349	111.7	Union	418,791	5,011,237	MP11	32	11	36	+5
61	blank	Residence	2,858	111.9	Union	419,051	5,011,007	MP11	32	10	35	+4
62	blank	Residence	3,035	112.6	Union	419,517	5,009,994	MP11	32	9	34	+4
63	blank	Residence	958	112.6	Union	418,948	5,009,711	MP11	32	15	40	+9
64	blank	Residence	1,106	115.4	Union	420,229	5,005,549	MP13	48	15	40	-
65	blank	Residence	1,854	119.4	Union	423,413	4,999,692	MP13	48	12	37	-
66	91	Residence	2,106	120.5	Union	424,119	4,998,514	MP13	48	12	37	-
67	blank	Residence	997	123.7	Union	428,499	4,995,702	MP14	33	16	41	+8
68	85	Residence	2,083	124.1	Union	428,330	4,994,572	MP14	33	12	37	+5

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						Easting	Northing			Fair Weather	Foul Weather	
69	83	Residence	1,467	142.6	Baker	439,860	4,968,035	MP15	27	14	39	+12
70	82	Residence	1,053	142.7	Baker	439,993	4,967,946	MP15	27	15	40	+14
71	-1	Residence	1,335	144.3	Baker	440,661	4,965,581	MP15	27	14	39	+13
72	80	Residence	3,320	144.3	Baker	440,057	4,965,541	MP15	27	10	35	+9
73	78	Residence	2,923	145.2	Baker	440,273	4,963,747	MP15	27	10	35	+9
74	1262	Residence	2,582	153.7	Baker	439,029	4,951,743	MP16	41	11	36	+1
75	523	Residence	1,591	153.8	Baker	439,265	4,951,957	MP16	41	13	38	+2
76	blank	Residence	2,323	154.1	Baker	439,590	4,951,522	MP16	41	12	37	+1
77	1266	Residence	2,707	154.4	Baker	439,982	4,951,168	MP16	41	11	36	+1
78	72	Residence	1,371	154.9	Baker	440,872	4,951,166	MP16	41	14	39	+2
79	71	Residence	860	155.2	Baker	441,403	4,951,092	MP16	41	17	42	+4
80	1269	Residence	3,058	155.6	Baker	441,686	4,950,225	MP16	41	11	36	+1
81	blank	Residence	2,431	156	Baker	442,416	4,950,110	MP16	41	12	37	+1
82	227	Residence	2,182	159.9	Baker	448,178	4,948,130	MP17	41	12	37	+1
83	68	Residence	2,205	162.3	Baker	452,311	4,947,967	MP09	35	12	37	+4
84	1714	Residence	2,881	166.2	Baker	455,371	4,943,302	MP17	41	10	35	+1
85	36	Residence	1,473	185.2	Baker	473,610	4,921,457	MP25	46	13	38	-
86	34	Residence	1,578	185.3	Baker	473,678	4,921,255	MP25	46	12	37	-
88	873	Residence	705	198.5	Malheur	482,540	4,903,638	MP32	41	19	44	+5
89	876	Residence	443	198.7	Malheur	482,856	4,903,318	MP32	41	21	46	+7
90	877	Residence	505	199.1	Malheur	483,155	4,902,774	MP32	41	21	46	+6
91	936	Residence	2,375	199.8	Malheur	482,565	4,901,562	MP33	34	10	35	+3
92	887	Residence	2,434	215.2	Malheur	478,340	4,879,805	MP35	24	10	35	+12
93	888	Residence	2,283	216	Malheur	477,194	4,879,669	MP34	24	10	35	+11
94	891	Residence	1,801	216.2	Malheur	476,768	4,879,627	MP34	24	12	37	+12
95	890	Residence	2,070	216.3	Malheur	476,735	4,879,525	MP34	24	11	36	+12
96	892	Residence	1,470	216.5	Malheur	476,299	4,879,547	MP34	24	13	38	+13
97	929	Residence	1,693	216.5	Malheur	475,893	4,880,423	MP34	24	12	37	+13
98	925	Residence	1,102	216.8	Malheur	475,509	4,880,072	MP35	24	14	39	+15
99	895	Residence	1,768	216.9	Malheur	475,678	4,879,196	MP35	24	12	37	+13

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						Easting	Northing			Fair Weather	Foul Weather	
100	896	Residence	2,119	217	Malheur	475,620	4,879,057	MP35	24	11	36	+12
101	899	Residence	673	217	Malheur	475,459	4,879,468	MP34	24	17	42	+17
102	924	Residence	607	217.3	Malheur	474,932	4,879,676	MP35	24	17	42	+18
103	915	Residence	2,575	217.4	Malheur	474,051	4,879,545	MP35	24	10	35	+11
104	916	Residence	1,598	217.4	Malheur	474,382	4,879,621	MP35	24	12	37	+14
105	919	Residence	745	217.4	Malheur	474,630	4,879,540	MP35	24	16	41	+17
106	904	Residence	2,621	217.7	Malheur	475,377	4,878,437	MP35	24	10	35	+11
107	905	Residence	2,474	217.9	Malheur	474,640	4,878,052	MP35	24	10	35	+12
108	911	Residence	2,119	218.1	Malheur	474,307	4,878,073	MP35	24	11	36	+12
109	913	Residence	2,595	218.1	Malheur	473,894	4,879,450	MP35	24	10	35	+11
110	914	Residence	2,648	218.1	Malheur	473,920	4,879,474	MP35	24	10	35	+11
111	1415	Residence	2,746	253.5	Malheur	484,633	4,844,659	MP35	24	10	35	+11
112	1420	Residence	1,732	254.9	Malheur	486,262	4,843,852	MP35	24	12	37	+13
113	1422	Residence	3,087	263.7	Malheur	492,765	4,831,089	MP35	24	9	34	+11
Morgan Lake Alternative												
114	blank	Residence	3,031	1.9	Union	403,831	5,018,094	MP11	32	10	35	+4
115	blank	Residence	659	6.1	Union	410,100	5,016,605	MP11	32	18	43	+11
116	blank	Residence	2,989	6.7	Union	411,682	5,016,649	MP11	32	11	36	+5
117	98	Cabin	2,549	6.7	Union	410,416	5,015,531	MP11	32	12	37	+6
118	100	Residence	1,499	6.7	Union	410,654	5,015,745	MP11	32	14	39	+8
119	blank	Residence	935	6.8	Union	410,895	5,015,727	MP11	32	17	42	+10
120	blank	Residence	2,897	6.8	Union	411,725	5,016,555	MP11	32	11	36	+5
121	1237	Residence	1,079	6.9	Union	410,912	5,015,638	MP11	32	16	41	+9
122	blank	Residence	2,579	7.1	Union	412,010	5,016,071	MP11	32	12	37	+6
123	blank	Residence	2,618	7.1	Union	411,979	5,016,127	MP11	32	11	36	+5
124	blank	Residence	2,953	7.1	Union	412,025	5,016,230	MP11	32	11	36	+5
125	blank	Residence	1,378	7.4	Union	411,384	5,014,946	MP11	32	15	40	+8
126	blank	Residence	3,081	8.3	Union	413,366	5,014,719	MP11	32	11	36	+5
127	blank	Residence	2,077	9.1	Union	413,861	5,013,840	MP11	32	13	38	+6

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						Easting	Northing			Fair Weather	Foul Weather	
128	blank	Residence	1,926	9.1	Union	413,858	5,013,792	MP11	32	13	38	+7
129	blank	Residence	1,936	9.1	Union	413,823	5,013,810	MP11	32	13	38	+7
130	blank	Residence	2,297	9.2	Union	413,986	5,013,859	MP11	32	12	37	+6
131	blank	Residence	3,071	11	Union	414,566	5,010,723	MP11	32	12	37	+6
132	blank	Residence	1,060	12.3	Union	416,014	5,008,955	MP11	32	17	42	+10

Notes:

Receptor IDs are provided for ease in cross-referencing older documentation. An incremental increase presented as (-) signifies that the future increase as a result of the Project is predicted to be less than 1 dBA when considered cumulatively with the baseline condition. The incremental increase is obtained by first logarithmically adding the Predicted Foul Weather Sound Level to the Late Night Baseline Sound Pressure Level. The Late Night Baseline Sound Pressure Level is then arithmetically subtracted from this total to quantify the incremental increase. Note that sound pressure levels cannot be added together linearly. For example, a baseline sound pressure level of 25 dBA plus a received sound pressure level of 33 dBA does not equal 58 dBA; rather, using logarithmic addition, the resultant sound pressure level would be 34 dBA. Sound levels in this table are reported in whole decibels.

dBA = A-weighted decibel

ft = feet

ID = identification

m = meter

MP = milepost

NSR = noise sensitive receptor

UTM = universal transverse Mercator