

Environmental Impact Assessment (EIA)

Report

LT383 Alyth to Tealing Overhead Line (OHL)

400kV Upgrade

November 2024



VOLUME 4: APPENDIX 13.6 – OPERATIONAL NOISE IMPACT ASSESSMENT

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1. OPERATIONAL NOISE IMPACT ASSESSMENT OF 400 KV OHL

Table 13.6-1: TGN(E)22 Tier 1 Result Summary

NSR	Name, if possible	Coordinate (X)	Coordinate (Y)	Distance from OHL Centreline (m)	Predicted Wet Noise (dB(A))	Sensitivity	Magnitude	Significance	Action
1	HAUGHEND FARM COTTAGE	329117	747135	168	35.9	Medium	Low	Minor	Proceed to Tier 2
2		329070	747029	68	41.7	Medium	Medium	Moderate	Proceed to Tier 2
3	HAUGHEND FARM	329209	746884	164	36.1	Medium	Low	Minor	Proceed to Tier 2
4		329399	746385	64	42.0	Medium	Medium	Moderate	Proceed to Tier 2
5		329421	746375	79	40.9	Medium	Medium	Moderate	Proceed to Tier 2
6	BRAMBLE COTTAGE	329439	746355	86	40.3	Medium	Medium	Moderate	Proceed to Tier 2
7		329532	746251	121	38.2	Medium	Low	Minor	Proceed to Tier 2
8	WESTER CARDEAN	329498	746227	79	40.8	Medium	Medium	Moderate	Proceed to Tier 2
9		330276	744937	185	35.1	Medium	Low	Minor	Proceed to Tier 2
10		330202	744831	71	41.5	Medium	Medium	Moderate	Proceed to Tier 2
11	DRUMKILBO MAINS FARM	330315	744739	126	37.9	Medium	Low	Minor	Proceed to Tier 2
12	3 DRUMKILBO COTTAGES	330055	744727	65	41.9	Medium	Medium	Moderate	Proceed to Tier 2
13	4 DRUMKILBO COTTAGE	330071	744725	63	42.0	Medium	Medium	Moderate	Proceed to Tier 2

NSR	Name, if possible	Coordinate (X)	Coordinate (Y)	Distance from OHL Centreline (m)	Predicted Wet Noise (dB(A))	Sensitivity	Magnitude	Significance	Action
14	2 DRUMKILBO COTTAGE	330530	744522	104	39.2	Medium	Medium	Moderate	Proceed to Tier 2
15	BLACKCURRANT COTTAGE	330541	744515	106	39.1	Medium	Medium	Moderate	Proceed to Tier 2
16		330221	744326	205	34.2	Medium	Low	Minor	Proceed to Tier 2
17		330215	744292	236	33.0	Medium	Negligible	Negligible	Acceptable
18	SOUTH EAST FULLARTON	330225	744289	231	33.2	Medium	Negligible	Negligible	Acceptable
19	CROSSING COTTAGE	331016	744224	199	34.5	Medium	Low	Minor	Proceed to Tier 2
20	KIRKLANDS	331120	744173	228	33.3	Medium	Negligible	Negligible	Acceptable
21	MAGDALEN	331154	744164	243	32.7	Medium	Negligible	Negligible	Acceptable
22	KIRKINCH FARM	331112	744145	201	34.4	Medium	Low	Minor	Proceed to Tier 2
23		331130	744131	202	34.3	Medium	Low	Minor	Proceed to Tier 2
24		331103	744123	180	35.3	Medium	Low	Minor	Proceed to Tier 2
25		331104	744118	176	35.5	Medium	Low	Minor	Proceed to Tier 2
26		331222	744117	252	32.4	Medium	Negligible	Negligible	Acceptable
27		331231	744111	253	32.4	Medium	Negligible	Negligible	Acceptable
28		331111	744102	169	35.8	Medium	Low	Minor	Proceed to Tier 2
29	HAWTHORN COTTAGE	331194	744100	220	33.6	Medium	Negligible	Negligible	Acceptable

NSR	Name, if possible	Coordinate (X)	Coordinate (Y)	Distance from OHL Centreline (m)	Predicted Wet Noise (dB(A))	Sensitivity	Magnitude	Significance	Action
30	1 KIRKINCH COTTAGES	331182	744097	210	34.0	Medium	Low	Minor	Proceed to Tier 2
31		331210	744092	226	33.4	Medium	Negligible	Negligible	Acceptable
32	THE GABLE	331161	744069	175	35.5	Medium	Low	Minor	Proceed to Tier 2
33	NEULANDS	331178	744058	178	35.4	Medium	Low	Minor	Proceed to Tier 2
34	THE WELL	331331	744031	257	32.2	Medium	Negligible	Negligible	Acceptable
35		331226	744024	183	35.2	Medium	Low	Minor	Proceed to Tier 2
36	ASHDON	331211	744006	160	36.2	Medium	Low	Minor	Proceed to Tier 2
37	RIOMHACH	331302	744004	218	33.7	Medium	Negligible	Negligible	Acceptable
38	1 NEILSTON FARM STEADING	331225	743994	160	36.2	Medium	Low	Minor	Proceed to Tier 2
39		331259	743990	179	35.4	Medium	Low	Minor	Proceed to Tier 2
40		331260	743990	180	35.3	Medium	Low	Minor	Proceed to Tier 2
41		331260	743989	179	35.4	Medium	Low	Minor	Proceed to Tier 2
42		331235	743988	162	36.1	Medium	Low	Minor	Proceed to Tier 2
43	2 NEILSTON FARM STEADING	331235	743983	158	36.3	Medium	Low	Minor	Proceed to Tier 2
44	NEILSTON FARMHOUSE	331259	743965	160	36.2	Medium	Low	Minor	Proceed to Tier 2
45	PINETREES	331214	743942	113	38.6	Medium	Low	Minor	Proceed to Tier 2

NSR	Name, if possible	Coordinate (X)	Coordinate (Y)	Distance from OHL Centreline (m)	Predicted Wet Noise (dB(A))	Sensitivity	Magnitude	Significance	Action
46	WOODSIDE	331193	743925	87	40.3	Medium	Medium	Moderate	Proceed to Tier 2
47	TEMPLETON MYRES	330963	743771	138	37.3	Medium	Low	Minor	Proceed to Tier 2
48	GATESIDE OF NEVAY	331676	743309	55	42.7	Medium	Medium	Moderate	Proceed to Tier 2
49	GATESIDE OF NEVAY	331595	743276	96	39.6	Medium	Medium	Moderate	Proceed to Tier 2
50	NEVAY PARK	332208	743260	253	32.4	Medium	Negligible	Negligible	Acceptable
51	THE BIVVI	333486	740193	150	36.7	Medium	Low	Minor	Proceed to Tier 2
52	SIDLAW HOSPITAL	334804	739322	256	32.2	Medium	Negligible	Negligible	Acceptable

Table 1.2: TGN(E)22 Tier 2 Result Summary

NSR	Distance from OHL Centreline (m)	Predicted Wet Noise (dB(A))	Predicted Dry Noise (dB(A))	Combined Wet and Dry Noise (dB(A))	Impact	Significance of Effect	Magnitude
1	168	35.9	10.9	26.0	No adverse impact	Negligible	Negligible
2	68	41.7	16.7	31.9	No adverse impact	Negligible	Negligible
3	164	36.1	11.1	26.2	No adverse impact	Negligible	Negligible
4	64	42.0	17.0	32.2	No adverse impact	Negligible	Negligible

NSR	Distance from OHL Centreline (m)	Predicted Wet Noise (dB(A))	Predicted Dry Noise (dB(A))	Combined Wet and Dry Noise (dB(A))	Impact	Significance of Effect	Magnitude
5	79	40.9	15.9	31.0	No adverse impact	Negligible	Negligible
6	86	40.3	15.3	30.5	No adverse impact	Negligible	Negligible
7	121	38.2	13.2	28.4	No adverse impact	Negligible	Negligible
8	79	40.8	15.8	31.0	No adverse impact	Negligible	Negligible
9	185	35.1	10.1	25.2	No adverse impact	Negligible	Negligible
10	71	41.5	16.5	31.6	No adverse impact	Negligible	Negligible
11	126	37.9	12.9	28.1	No adverse impact	Negligible	Negligible
12	65	41.9	16.9	32.0	No adverse impact	Negligible	Negligible
13	63	42.0	17.0	32.2	No adverse impact	Negligible	Negligible
14	104	39.2	14.2	29.4	No adverse impact	Negligible	Negligible
15	106	39.1	14.1	29.3	No adverse impact	Negligible	Negligible
16	205	34.2	9.2	24.4	No adverse impact	Negligible	Negligible
19	199	34.5	9.5	24.6	No adverse impact	Negligible	Negligible
22	201	34.4	9.4	24.6	No adverse impact	Negligible	Negligible
23	202	34.3	9.3	24.5	No adverse impact	Negligible	Negligible
24	180	35.3	10.3	25.5	No adverse impact	Negligible	Negligible
25	176	35.5	10.5	25.7	No adverse impact	Negligible	Negligible

NSR	Distance from OHL Centreline (m)	Predicted Wet Noise (dB(A))	Predicted Dry Noise (dB(A))	Combined Wet and Dry Noise (dB(A))	Impact	Significance of Effect	Magnitude
28	169	35.8	10.8	26.0	No adverse impact	Negligible	Negligible
30	210	34.0	9.0	24.2	No adverse impact	Negligible	Negligible
32	175	35.5	10.5	25.7	No adverse impact	Negligible	Negligible
33	178	35.4	10.4	25.5	No adverse impact	Negligible	Negligible
35	183	35.2	10.2	25.3	No adverse impact	Negligible	Negligible
36	160	36.2	11.2	26.4	No adverse impact	Negligible	Negligible
38	160	36.2	11.2	26.4	No adverse impact	Negligible	Negligible
39	179	35.4	10.4	25.5	No adverse impact	Negligible	Negligible
40	180	35.3	10.3	25.5	No adverse impact	Negligible	Negligible
41	179	35.4	10.4	25.5	No adverse impact	Negligible	Negligible
42	162	36.1	11.1	26.3	No adverse impact	Negligible	Negligible
43	158	36.3	11.3	26.5	No adverse impact	Negligible	Negligible
44	160	36.2	11.2	26.4	No adverse impact	Negligible	Negligible
45	113	38.6	13.6	28.8	No adverse impact	Negligible	Negligible
46	87	40.3	15.3	30.5	No adverse impact	Negligible	Negligible
47	138	37.3	12.3	27.4	No adverse impact	Negligible	Negligible
48	55	42.7	17.7	32.9	No adverse impact	Negligible	Negligible

NSR	Distance from OHL Centreline (m)	Predicted Wet Noise (dB(A))	Predicted Dry Noise (dB(A))	Combined Wet and Dry Noise (dB(A))	Impact	Significance of Effect	Magnitude
49	96	39.6	14.6	29.8	No adverse impact	Negligible	Negligible
51	150	36.7	11.7	26.8	No adverse impact	Negligible	Negligible