

## **TECHNICAL APPENDIX 13.7: OPERATIONAL NOISE IMPACT ASSESSMENT OF 400 KV OHL**

- 1. APPENDIX 13.7 OPERATIONAL NOISE IMPACT ASSESSMENT OF 400 KV  
OHL** **1-2**

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Table 1.1: TGN(E)22 Tier 1 Result Summary at 8.8 dB/decade

NSR	D to line (m)	Miller Curve	Sensitivity	Wet Noise (dB) for 8.8 dB/decade	Magnitude
1	339.6	R-2	Medium	42.9	Medium
2	276.8	R-2	Medium	42.1	Medium
3	378.1	R-2	Medium	43.0	Medium
4	378.6	R-2	Medium	43.0	Medium
5	328.7	R-2	Medium	43.1	Medium
6	269.0	R-1	Medium	46.6	High
7	493.4	R-1	Medium	46.2	High
8	345.8	R-2	Medium	42.4	Medium
9	366.8	R-2	Medium	42.3	Medium
10	323.9	R-2	Medium	42.5	Medium
11	326.2	R-2	Medium	43.4	Medium
12	371.0	R-2	Medium	43.2	Medium
13	325.5	R-1	Medium	42.5	Medium
14	318.9	R-1	Medium	42.5	Medium

**Table 1.2: TGN(E)22 Tier 2 Result Summary at 8.8 dB/decade**

NSR	D to line (m)	Miller Curve	Sensitivity	Combined wet and dry noise (8.8 dB/decade)	Impact	Significance of effect	Magnitude
1	339.6	R-2	Medium	37	Adverse Impact	Moderate / Minor	Medium or Low
2	276.8	R-2	Medium	36	No Adverse Impact	Negligible	Negligible
3	378.1	R-2	Medium	37	Adverse Impact	Moderate / Minor	Medium or Low
4	378.6	R-2	Medium	37	Adverse Impact	Moderate / Minor	Medium or Low
5	328.7	R-2	Medium	37	Adverse Impact	Moderate / Minor	Medium or Low
6	269.0	R-1	Medium	40	Adverse Impact	Moderate / Minor	Medium or Low
7	493.4	R-1	Medium	40	Adverse Impact	Moderate / Minor	Medium or Low
8	345.8	R-2	Medium	36	No Adverse Impact	Negligible	Negligible
9	366.8	R-2	Medium	36	No Adverse Impact	Negligible	Negligible
10	323.9	R-2	Medium	36	No Adverse Impact	Negligible	Negligible
11	326.2	R-2	Medium	37	Adverse Impact	Moderate / Minor	Medium or Low
12	371.0	R-2	Medium	37	Adverse Impact	Moderate / Minor	Medium or Low
13	325.5	R-1	Medium	36	No Adverse Impact	Negligible	Negligible
14	318.9	R-1	Medium	36	No Adverse Impact	Negligible	Negligible

**Table 1.3: TGN(E)22 Tier 3 Result Summary at 8.8 dB/decade**

NSR	D to line (m)	Miller Curve	Sensitivity	BGN in 1 mm/hr Rain Rate	Specific OHL Noise at Receptor	Total Noise (BGN in wet conditions + OHL noise)	Wet Excess	Significance of effect	Magnitude
1	339.6	R-2	Medium	42	42	45	3	Minor	Low
2	276.8	R-2	Medium	41	43	45	4	Minor	Low
3	378.1	R-2	Medium	43	42	45	3	Minor	Low
4	378.6	R-2	Medium	43	42	45	3	Minor	Low
5	328.7	R-2	Medium	43	42	46	3	Minor	Low
6	269.0	R-1	Medium	46	43	48	2	Minor	Low
7	493.4	R-1	Medium	46	41	47	1	Minor	Low
8	345.8	R-2	Medium	42	42	45	3	Minor	Low
9	366.8	R-2	Medium	42	42	45	3	Minor	Low
10	323.9	R-2	Medium	42	43	45	3	Minor	Low
11	326.2	R-2	Medium	43	43	46	3	Minor	Low
12	371.0	R-2	Medium	43	42	45	3	Minor	Low
13	325.5	R-1	Medium	41	43	45	4	Minor	Low
14	318.9	R-1	Medium	41	43	45	4	Minor	Low