

Environmental Impact Assessment (EIA)

Report

LT383 Alyth to Tealing Overhead Line (OHL)

400kV Upgrade

November 2024



VOLUME 4: APPENDIX 13.4 – CONSTRUCTION ACTIVITY

1.	WORST CASE CONSTRUCTION ACTIVITIES AND ASSOCIATED NOISE LEVELS FOR FELLING WORKS	1
2.	WORST CASE CONSTRUCTION ACTIVITIES AND ASSOCIATED NOISE LEVELS FOR FOUNDATIONS	2
3.	WORST CASE CONSTRUCTION ACTIVITIES AND ASSOCIATED NOISE LEVELS FOR STRINGING	3
4.	WORST CASE CONSTRUCTION ACTIVITIES AND ASSOCIATED NOISE LEVELS FOR DISMANTLING	4
5.	WORST CASE CONSTRUCTION ACTIVITIES AND ASSOCIATED NOISE LEVELS FOR VEHICLES ON ACCESS TRACKS	5

1. WORST CASE CONSTRUCTION ACTIVITIES AND ASSOCIATED NOISE LEVELS FOR FELLING WORKS

Activity	Plant Item	Quantity	Utilisation %	Sound Power, LW (dB(A))	Sound Power corrected for quantity and utilisation, LW (dB(A))	L _{Aeq} at 10 m (dB)
Felling	Forwarder	1	100%	84	84	56
	Harvester	1	100%	92	92	64
	Wood Chipper	1	100%	119	119	91
	Tracked Excavator	1	100%	105	105	77
Total					119	91

2. WORST CASE CONSTRUCTION ACTIVITIES AND ASSOCIATED NOISE LEVELS FOR FOUNDATIONS

Activity	Plant Item	Quantity	Utilisation %	Sound Power, LW (dB(A))	Sound Power corrected for quantity and utilisation, LW (dB(A))	L _{Aeq} at 10 m (dB)
Foundations	C4.27 Concrete mixer truck	2	100%	107	110	82
	C4.24 Concrete pump + cement mixer truck (discharging)	2	100%	96	99	71
	C2.15 Tracked excavator	2	50%	104	104	76
	C4.33 Poker vibrator	2	50%	106	106	78
	C4.95 Handheld cordless nail gun	2	50%	101	101	73
Total					113	85

3. WORST CASE CONSTRUCTION ACTIVITIES AND ASSOCIATED NOISE LEVELS FOR STRINGING

Activity	Plant Item	Quantity	Utilisation %	Sound Power, LW (dB(A))	Sound Power corrected for quantity and utilisation, LW (dB(A))	L _{Aeq} at 10 m (dB)
Stringing	C3.7 Power pack	2	100%	98	101	73
	C4.57 Lifting platform	2	50%	95	95	67
Total					102	81

4. WORST CASE CONSTRUCTION ACTIVITIES AND ASSOCIATED NOISE LEVELS FOR DISMANTLING

Activity	Plant Item	Quantity	Utilisation %	Sound Power, LW (dB(A))	Sound Power corrected for quantity and utilisation, LW (dB(A))	L _{Aeq} at 10 m (dB)
Dismantling	C4.49 Tower crane	1	100%	105	105	77
	C2.29 Tracked excavator	1	100%	106	106	78
Total					109	81

5. WORST CASE CONSTRUCTION ACTIVITIES AND ASSOCIATED NOISE LEVELS FOR VEHICLES ON ACCESS TRACKS

Activity	Plant Item	Quantity	Utilisation %	Sound Power, LW (dB(A))	Sound Power corrected for quantity and utilisation, LW (dB(A))	L _{Aeq} at 10 m (dB)
Access	Heavy Goods Vehicles	1 per hour	100%	118	118	58
Total					118	58