

**Netherton Hub 400 kV OHL Connection to New
Deer and Peterhead: Tie-In
Environmental Appraisal Report
Volume 3 Appendix 11.4 – Construction Activities**

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Table 1.1: Construction Plant Activities

1. Appendix 11.4 – Construction Activities

1.1 Introduction

- 1.1.1 This Appendix provides the conservative assumptions of plant used for the Construction Noise Impact Assessment (CNIA). The table provides the expected plant for a construction phase for a section of the proposed OHL, as well as the percentage on-time each piece of equipment is expected to be in operation in a standard working day. Information has been collated based on information provided by the Applicant and sound power levels from *Annex C of BS 5228*.

1.2 Construction equipment

Table 1.1: Construction Plant Activities

Construction Activity	Plant Type	No. of Plant	Assumed percentage on-time during working hours	Sound Pressure Level @ 10 m dB LAeq,T
Vegetation clearance and felling	Forwarder	2	90	56
	Harvester	2	90	64
	Wood chipper	1	50	91
	Petrol driven chain saw	2	60	86
	Tracked excavator	2	90	77
	Lorry	4	50	80
	Articulated dump truck	4	20	81
	Tractor (towing trailer)	2	40	79
	Low loader	2	30	74
Access and enabling	Tracked hydraulic excavator (mainly engine noise)	2	80	83
	Cable percussion drilling rig	1	20	74
	Compressor for hand-held pneumatic breaker	1	50	66
	Water pump	2	20	65
	Roller	2	50	74
	Tracked crusher	1	100	84
	Wheeled loader	6	80	80
	Articulated dump truck	4	30	81
	Diesel generator	2	50	74
	Breaker (SI rig)	1	100	84
	Compressor (for SI rig)	1	100	84
	Off road vehicle	1	30	66
Foundations	Concrete mixer truck	6	30	79
	Concrete pump	1	30	78
	Tracked excavator	2	40	76
	Poker vibrator	2	50	78
	Electric percussion drills	2	60	76
	Water pump	2	35	65
	Articulated dump truck	1	50	81

Construction Activity	Plant Type	No. of Plant	Assumed percentage on-time during working hours	Sound Pressure Level @ 10 m dB LAeq,T
	Diesel generator	2	50	74
	Tractor (towing trailer)	2	50	79
	Petrol hand-held circular saw	1	25	91
	CFA piling rig	1	90	82
	Mini piling rig	1	90	82
	Driven piling rig	1	90	75
	Excavator	1	90	77
	Compressor (sound deduced)	1	70	74
	100 kVa Generator	1	90	63
	Bowser pressure washer	1	20	71
Tower assembly and erection	Lorry	3	20	80
	Wheeled loader	1	80	86
	Diesel generator	2	70	74
	Telescopic handler	2	50	79
	Mobile telescopic crane	1	50	71
	Petrol hand-held circular saw	2	10	91
	Electric percussion drill	2	10	76
Stringing	Power pack	1	100	70
	Tractor (towing equipment)	1	50	80
	Puller tensioner	1	80	79
	Tractor (towing trailer)	1	50	79
	Diesel generator	1	100	74
	Lorry	2	30	80
	Off-road vehicle	4	34	66
	Mobile telescopic crane	1	80	71
	Lifting platform	1	25	67
	Telescopic handler	1	50	71
	Service winch 3T	1	50	62
	Hydraulic drop hammer	1	50	72
Dismantling	Tower crane	1	10	77
	Tractor (towing trailer)	1	60	79
	Diesel generator	1	100	74
	Lorry	2	20	80
	Off-road vehicle	1	30	66
	Tracked excavator	1	40	78
Reinstatement	Tower crane	1	10	77
	Tractor (towing trailer)	1	60	79
	Diesel generator	1	100	74

Construction Activity	Plant Type	No. of Plant	Assumed percentage on-time during working hours	Sound Pressure Level @ 10 m dB LAeq,T
	Lorry	2	20	80
	Off-road vehicle	3	30	66
	Roller	1	50	74