

The Drax Power (Generating Stations) Order

Land at, and in the vicinity of, Drax Power Station, near Selby, North Yorkshire

Environmental Statement Appendix 7.2 – Construction Noise Calculations – Residential NSR



The Planning Act 2008
The Infrastructure Planning (Applications: Prescribed Forms and Procedure)
Regulations 2009 – Regulation 5(2)(a)

Drax Power Limited

Drax Repower Project

Applicant: DRAX POWER LIMITED
Date: May 2018
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Power Generation Plant - Construction X / Y



	Distances, m										BS5228 Reference
	580 NSR 1 Wren Hall	1648 NSR 2 Long Drax	948 NSR 3 Old Lodge	846 NSR 4 Drax Abbey Farm	967 NSR 5 Formans Cottage	2000 NSR 6 Barlow	1719 NSR 7 Cabmlesforth	1110 NSR 8 Station Cottage	1213 NSR 9 Briden Bungalow	2171 NSR 10 Willow Lane Drain	
Site Preparation											
Dozer	39.7	30.7	35.5	36.5	35.3	29.0	30.3	34.1	33.3	28.3	C.2.16
Tracked Excavator	42.7	33.7	38.5	39.5	38.3	32.0	33.3	37.1	36.3	31.3	C.2.13
Tracked Concrete Crusher	48.7	39.7	44.5	45.5	44.3	38.0	39.3	43.1	42.3	37.3	C.2.18
Wheeled Backhoe Loader	32.7	23.7	28.5	29.5	28.3	22.0	23.3	27.1	26.3	21.3	C.2.8
Total	50.2	41.1	45.9	46.9	45.8	39.4	40.8	44.6	43.8	38.7	
Excavation											
Dozer	45.7	36.7	41.5	42.5	41.3	35.0	36.3	40.1	39.3	34.3	C.2.12
Tracked Excavator	43.7	34.7	39.5	40.5	39.3	33.0	34.3	38.1	37.3	32.3	C.2.14
Loading Lorry	44.7	35.7	40.5	41.5	40.3	34.0	35.3	39.1	38.3	33.3	C.6.21
Articulated Dump Truck	45.7	36.7	41.5	42.5	41.3	35.0	36.3	40.1	39.3	34.3	C.4.1
Total	51.1	42.0	46.8	47.8	46.6	40.3	41.6	45.4	44.7	39.6	
Rolling and Compaction											
Roller	43.7	34.7	39.5	40.5	39.3	33.0	34.3	38.1	37.3	32.3	C.2.37
Vibratory Plate	44.7	35.7	40.5	41.5	40.3	34.0	35.3	39.1	38.3	33.3	C.2.41
Total	47.3	38.2	43.0	44.0	42.8	36.5	37.8	41.6	40.9	35.8	
Piling											
Hydraulic Hammer Rig	53.7	44.7	49.5	50.5	49.3	43.0	44.3	48.1	47.3	42.3	C.3.1
Rotary Bored Piling Rig	47.7	38.7	43.5	44.5	43.3	37.0	38.3	42.1	41.3	36.3	C.3.14
Total	54.7	45.6	50.4	51.4	50.3	44.0	45.3	49.1	48.3	43.2	
Welding/Cutting Steel											
Welder (Welding Piles)	37.7	28.7	33.5	34.5	33.3	27.0	28.3	32.1	31.3	26.3	C.3.73
Generator for welder	21.7	12.7	17.5	18.5	17.3	11.0	12.3	16.1	15.3	10.3	C.3.33
Cutter (Cutting Piles)	32.7	23.7	28.5	29.5	28.3	22.0	23.3	27.1	26.3	21.3	C.3.34
Total	39.0	29.9	34.7	35.7	34.6	28.3	29.6	33.4	32.6	27.5	
Other											
Lorry Concrete Mixer	41.7	32.7	37.5	38.5	37.3	31.0	32.3	36.1	35.3	30.3	C.4.21
Conc. Pump (Discharging)	31.7	22.7	27.5	28.5	27.3	21.0	22.3	26.1	25.3	20.3	C.4.24
Tower Crane	41.7	32.7	37.5	38.5	37.3	31.0	32.3	36.1	35.3	30.3	C.4.49
Total	45.0	35.9	40.7	41.7	40.5	34.2	35.5	39.3	38.5	33.5	
	NSR 1	NSR 2	NSR 3	NSR 4	NSR 5	NSR 6	NSR 7	NSR 8	NSR 9	NSR 10	
Total Before Screening	57.9	48.9	53.7	54.7	53.5	47.2	48.5	52.3	51.5	46.5	
Screening Correction	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	
Total Cumulative Noise from all Activities	47.9	38.9	43.7	44.7	43.5	37.2	38.5	42.3	41.5	36.5	

Gas Pipeline - Construction



	Distances, m										BS5228 Reference
	40	900	300	480	780	2000	1888	800	120	1500	
	NSR 1 Wren Hall	NSR 2 Long Drax	NSR 3 Old Lodge	NSR 4 Drax Abbey Farm	NSR 5 Formans Cottage	NSR 6 Barlow	NSR 7 Cabmlesforth	NSR 8 Station Cottage	NSR 9 Briden Bungalow	NSR 10 Willow Lane Drain	
Site Preparation											
Dozer	63.0	35.9	45.5	41.4	37.2	29.0	29.5	36.9	53.4	31.5	C.2.16
Tracked Excavator	42.7	38.9	48.5	44.4	40.2	32.0	32.5	39.9	56.4	34.5	C.2.13
Tracked Concrete Crusher	48.7	39.7	44.5	45.5	44.3	38.0	39.3	43.1	42.3	37.3	C.2.18
Wheeled Backhoe Loader	56.0	28.9	38.5	34.4	30.2	22.0	22.5	29.9	46.4	24.5	C.2.8
Total	63.9	43.4	51.5	49.0	46.4	39.4	40.5	45.6	58.6	39.9	
Excavation											
Tracked Excavator	67.0	39.9	49.5	45.4	41.2	33.0	33.5	40.9	57.4	35.5	C.2.14
Loading Lorry	68.0	40.9	50.5	46.4	42.2	34.0	34.5	41.9	58.4	36.5	C.6.21
Total	70.5	43.5	53.0	48.9	44.7	36.5	37.0	44.5	61.0	39.0	
Welding/Cutting Steel											
Welder (Welding Piles)	61.0	33.9	43.5	39.4	35.2	27.0	27.5	34.9	51.4	29.5	C.3.73
Generator for welder	45.0	17.9	27.5	23.4	19.2	11.0	11.5	18.9	35.4	13.5	C.3.33
Cutter (Cutting Piles)	56.0	28.9	38.5	34.4	30.2	22.0	22.5	29.9	46.4	24.5	C.3.34
Total	62.2	35.2	44.7	40.7	36.4	28.3	28.8	36.2	52.7	30.8	
Other											
Lorry Concrete Mixer	65.0	37.9	47.5	43.4	39.2	31.0	31.5	38.9	55.4	33.5	C.4.21
Conc. Pump (Discharging)	55.0	27.9	37.5	33.4	29.2	21.0	21.5	28.9	45.4	23.5	C.4.24
Total	65.4	38.3	47.9	43.8	39.6	31.4	31.9	39.4	55.8	33.9	
	NSR 1	NSR 2	NSR 3	NSR 4	NSR 5	NSR 6	NSR 7	NSR 8	NSR 9	NSR 10	
Site Preparation	63.9	43.4	51.5	49.0	46.4	39.4	40.5	45.6	58.6	39.9	
Excavation	70.5	43.5	53.0	48.9	44.7	36.5	37.0	44.5	61.0	39.0	
Welding/Cutting Steel	62.2	35.2	44.7	40.7	36.4	28.3	28.8	36.2	52.7	30.8	
Other	65.4	38.3	47.9	43.8	39.6	31.4	31.9	39.4	55.8	33.9	
Total Before Screening	72.7	47.3	56.3	52.8	49.4	41.9	42.7	48.9	64.0	43.3	
Screening Correction	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	
Total Cumulative Noise from all Activities	62.7	37.3	46.3	42.8	39.4	31.9	32.7	38.9	54.0	33.3	
Construction of Unit X											
Construction of Unit X	47.9	38.9	43.7	44.7	43.5	37.2	38.5	42.3	41.5	36.5	
Gas Pipeline Construction	62.7	37.3	46.3	42.8	39.4	31.9	32.7	38.9	54.0	33.3	
Stage 1 Total Cumulative Construction Noise	62.9	41.2	48.2	46.9	44.9	38.3	39.5	43.9	54.3	38.2	