

The Drax Power (Generating Stations) Order

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

Environmental Statement Appendix 7.3 – Construction Noise Calculations – Ecology 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 Units X / Y



	Distances, m														BS5228 Reference
	1800	1785	850	550	800	450	930	1250	260	420	1200	1640	1620		
	NSR 11 - River Ouse 1	NSR 12 - River Ouse 2	NSR 13 - Disused Railway SINC 2	NSR 14 - Woodland 1	NSR 15 - Woodland 2	NSR 16 - Woodland 3	NSR 17 - Woodland 4	NSR 18 - Woodland 5	NSR 19 - Development Parcel E	NSR 20 - Development Parcel B	NSR 21 - Disused Railway SINC 1	NSR 22 - River Derwent 1	NSR 23 - River Derwent 2		
Site Preparation															
Dozer	29.9	30.0	36.4	40.2	36.9	41.9	35.6	33.1	46.7	42.5	42.5	42.5	30.8	C.2.16	
Tracked Excavator	32.9	33.0	39.4	43.2	39.9	44.9	38.6	36.1	49.7	45.5	45.5	45.5	33.8	C.2.13	
Tracked Concrete Crusher	38.9	39.0	45.4	49.2	45.9	50.9	44.6	42.1	55.7	51.5	42.4	39.7	39.8	C.2.18	
Wheeled Backhoe Loader	22.9	23.0	29.4	33.2	29.9	34.9	28.6	26.1	39.7	35.5	26.4	23.7	23.8	C.2.8	
Total	40.4	40.4	46.9	50.7	47.4	52.4	46.1	43.5	57.2	53.0	48.5	48.0	41.3		
Excavation															
Dozer	35.9	36.0	42.4	46.2	42.9	47.9	41.6	39.1	65.9	65.9	65.9	65.9	36.8	C.2.12	
Tracked Excavator	33.9	34.0	40.4	44.2	40.9	45.9	39.6	37.1	50.7	46.5	37.4	34.7	34.8	C.2.14	
Loading Lorry	34.9	35.0	41.4	45.2	41.9	46.9	40.6	38.1	51.7	47.5	38.4	35.7	35.8	C.6.21	
Articulated Dump Truck	35.9	36.0	42.4	46.2	42.9	47.9	41.6	39.1	52.7	48.5	39.4	36.7	36.8	C.4.1	
Total	41.2	41.3	47.8	51.5	48.3	53.3	47.0	44.4	66.3	66.0	65.9	65.9	42.2		
Rolling and Compaction															
Roller	33.9	34.0	40.4	44.2	40.9	45.9	39.6	37.1	50.7	46.5	37.4	34.7	34.8	C.2.37	
Vibratory Plate	34.9	35.0	41.4	45.2	41.9	46.9	40.6	38.1	51.7	47.5	38.4	35.7	35.8	C.2.41	
Total	37.4	37.5	44.0	47.7	44.5	49.5	43.2	40.6	54.2				38.3		
Piling															
Hydraulic Hammer Rig	43.9	44.0	50.4	54.2	50.9	55.9	49.6	47.1	60.7	56.5	47.4	44.7	44.8	C.3.1	
Rotary Bored Piling Rig	37.9	38.0	44.4	48.2	44.9	49.9	43.6	41.1	54.7	50.5	41.4	38.7	38.8	C.3.14	
Total	44.9	44.9	51.4	55.2	51.9	56.9	50.6	48.0	61.7	57.5	48.4	45.7	45.8		
Welding/Cutting Steel															
Welder (Welding Piles)	27.9	28.0	34.4	38.2	34.9	39.9	33.6	31.1	44.7	40.5	31.4	28.7	28.8	C.3.73	
Generator for welder	11.9	12.0	18.4	22.2	18.9	23.9	17.6	15.1	28.7	24.5	15.4	12.7	12.8	C.3.33	
Cutter (Cutting Piles)	22.9	23.0	29.4	33.2	29.9	34.9	28.6	26.1	39.7	35.5	26.4	23.7	23.8	C.3.34	
Total	29.2	29.2	35.7	39.5	36.2	41.2	34.9	32.3	46.0	41.8	32.7	30.0	30.1		
Other															
Lorry Concrete Mixer	31.9	32.0	38.4	42.2	38.9	43.9	37.6	35.1	48.7	44.5	35.4	32.7	32.8	C.4.21	
Conc. Pump (Discharging)	21.9	22.0	28.4	32.2	28.9	33.9	27.6	25.1	38.7	34.5	25.4	22.7	22.8	C.4.24	
Tower Crane	31.9	32.0	38.4	42.2	38.9	43.9	37.6	35.1	48.7	44.5	35.4	32.7	32.8	C.4.49	
Total	35.1	35.2	41.6	45.4	42.2	47.2	40.9	38.3	51.9	47.8	38.6	35.9	36.0		
	NSR 11	NSR 12	NSR 13	NSR 14	NSR 15	NSR 16	NSR 17	NSR 18	NSR 19	NSR 20	NSR 21	NSR 22	NSR 23		
Site Preparation	40.4	40.4	46.9	50.7	47.4	52.4	46.1	43.5	57.2	53.0	48.5	48.0	41.3		
Excavation	41.2	41.3	47.8	51.5	48.3	53.3	47.0	44.4	66.3	66.0	65.9	65.9	42.2		
Rolling and Compaction	37.4	37.5	44.0	47.7	44.5	49.5	43.2	40.6	54.2	0.0	0.0	0.0	38.3		
Piling	44.9	44.9	51.4	55.2	51.9	56.9	50.6	48.0	61.7	57.5	48.4	45.7	45.8		
Welding/Cutting Steel	29.2	29.2	35.7	39.5	36.2	41.2	34.9	32.3	46.0	41.8	32.7	30.0	30.1		
Other	35.1	35.2	41.6	45.4	42.2	47.2	40.9	38.3	51.9	47.8	38.6	35.9	36.0		
Total Before Screening	48.1	48.2	54.6	58.4	55.1	60.1	53.8	51.3	68.3	66.9	66.0	66.0	49.0		
Screening Correction	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	11.0	12.0	13.0	10.0		
Total Cumulative Noise from all Activities	38.1	38.2	44.6	48.4	45.1	50.1	43.8	41.3	58.3	55.9	54.0	53.0	39.0		

Gas Pipeline - Construction



	Distances, m													BS5228 Reference
	600	500	80	150	20	350	600	700	500	500	300	1640	1620	
	NSR 11 - River Ouse 1	NSR 12 - River Ouse 2	NSR 13 - Disused Railway SINC 2	NSR 14 - Woodland 1	NSR 15 - Woodland 2	NSR 16 - Woodland 3	NSR 17 - Woodland 4	NSR 18 - Woodland 5	NSR 19 - Development Parcel E	NSR 20 - Development Parcel B	NSR 21 - Disused Railway SINC 1	NSR 22 - River Derwent 1	NSR 23 - River Derwent 2	
Site Preparation														
Dozer	39.4	41.0	56.9	51.5	69.0	44.1	39.4	38.1	41.0	41.0	45.5	30.7	30.8	C.2.16
Tracked Excavator	32.9	44.0	59.9	54.5	72.0	47.1	42.4	41.1	44.0	44.0	48.5	33.7	33.8	C.2.13
Tracked Concrete Crusher	38.9	39.0	45.4	49.2	45.9	50.9	44.6	42.1	50.0	50.0	54.5	39.7	39.8	C.2.18
Wheeled Backhoe Loader	32.4	34.0	49.9	44.5	62.0	37.1	32.4	31.1	34.0	34.0	38.5	23.7	23.8	C.2.8
Total	43.1	46.8	62.1	57.3	74.0	53.1	47.6	45.6	51.5	51.5	55.9	41.2	41.3	
Excavation														
Tracked Excavator	43.4	45.0	60.9	55.5	73.0	48.1	43.4	42.1	45.0	45.0	49.5	34.7	34.8	C.2.14
Loading Lorry	44.4	46.0	61.9	56.5	74.0	49.1	44.4	43.1	46.0	46.0	50.5	35.7	35.8	C.6.21
Total	47.0	48.6	64.5	59.0	76.5	51.7	47.0	45.6	48.6	48.6	53.0	38.2	38.3	
Welding/Cutting Steel														
Welder (Welding Piles)	37.4	39.0	54.9	49.5	67.0	42.1	37.4	36.1	39.0	39.0	43.5	28.7	28.8	C.3.73
Generator for welder	21.4	23.0	38.9	33.5	51.0	26.1	21.4	20.1	23.0	23.0	27.5	12.7	12.8	C.3.33
Cutter (Cutting Piles)	32.4	34.0	49.9	44.5	62.0	37.1	32.4	31.1	34.0	34.0	38.5	23.7	23.8	C.3.34
Total	38.7	40.3	56.2	50.8	68.3	43.4	38.7	37.4	40.3	40.3	44.7	30.0	30.1	
Other														
Lorry Concrete Mixer	41.4	43.0	58.9	53.5	71.0	46.1	41.4	40.1	43.0	43.0	47.5	32.7	32.8	C.4.21
Conc. Pump (Discharging)	31.4	33.0	48.9	43.5	61.0	36.1	31.4	30.1	33.0	33.0	37.5	22.7	22.8	C.4.24
Total	41.9	43.4	59.4	53.9	71.4	46.5	41.9	40.5	43.4	43.4	47.9	33.1	33.2	
	NSR 11	NSR 12	NSR 13	NSR 14	NSR 15	NSR 16	NSR 17	NSR 18	NSR 19	NSR 20	NSR 21	NSR 22	NSR 23	
Site Preparation	43.1	46.8	62.1	57.3	74.0	53.1	47.6	45.6	51.5	51.5	55.9	41.2	41.3	
Excavation	47.0	48.6	64.5	59.0	76.5	51.7	47.0	45.6	48.6	48.6	53.0	38.2	38.3	
Welding/Cutting Steel	38.7	40.3	56.2	50.8	68.3	43.4	38.7	37.4	40.3	40.3	44.7	30.0	30.1	
Other	41.9	43.4	59.4	53.9	71.4	46.5	41.9	40.5	43.4	43.4	47.9	33.1	33.2	
Total Before Screening	49.7	51.8	67.6	62.3	79.6	56.2	51.1	49.5	53.9	53.9	58.3	43.6	43.7	
Screening Correction	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	11.0	12.0	13.0	10.0	
Total Cumulative Noise from all Activities	39.7	41.8	57.6	52.3	69.6	46.2	41.1	39.5	43.9	42.9	46.3	30.6	33.7	
Construction of Unit X														
Construction of Unit X	38.1	38.2	44.6	48.4	45.1	50.1	43.8	41.3	58.3	55.9	54.0	53.0	39.0	
Gas Pipeline Construction	39.7	41.8	57.6	52.3	69.6	46.2	41.1	39.5	43.9	42.9	46.3	30.6	33.7	
Stage 1 Total Cumulative Construction Noise	42.0	43.4	57.8	53.8	69.6	51.6	45.7	43.5	58.5	56.1	54.7	53.0	40.1	