



Immingham Green Energy Terminal

TR030008

Volume 6

6.4 Environmental Statement Appendices

Appendix 7.B: Construction Sound Data and
Assumptions

Planning Act 2008

Regulation 5(2)(a)

Infrastructure Planning (Applications: Prescribed
Forms and Procedure) Regulations 2009 (as
amended)

September 2023

Infrastructure Planning

Planning Act 2008

The Infrastructure Planning
(Applications: Prescribed Forms and
Procedure) Regulations 2009 (as amended)

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Development Consent Order 2023

6.4 Environmental Statement Appendices

Appendix 7.B: Construction Sound Data and Assumptions

Regulation Reference	APFP Regulation 5(2)(a)
Planning Inspectorate Case Reference	TR030008
Application Document Reference	TR030008/APP/6.4
Author	Associated British Ports Air Products BR

Version	Date	Status of Version
Revision 1	21 September 2023	DCO Application

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1. Construction Sound Levels and Assumptions

1.1. Construction Sound Predictions

- 1.1.1. The construction noise predictions have been undertaken for landside construction works on Work Area No.7 using noise data for items of plant and calculation methodologies from BS 5228-1. Manufacturer's source data was also used where source data was not available in BS5228-1:2009+A1:2014. As the principal contractor has not yet been appointed, indicative predicted noise levels for construction of the Project have been based on similar construction methods used for developments in the UK.
- 1.1.2. Predictions have been carried out assuming all of the plant listed in **Table 1** are operating at the realistic closest approach to the Noise Sensitive Receptors ("NSRs"), therefore this is a worst-case scenario, as not all the plant will be at the realistic closest approach for the full duration, and the construction plant is likely to spread across the Site.
- 1.1.3. All of the plant listed below has assumed to be operating for 9.5 hours out of the 12 hour working day. The predictions do not include any screening from existing buildings or structures.

1.2. Data Sources

- 1.2.1. **Table 1** below provides a list of indicative construction plant and associated sound power levels (Lw).

Table 1: Construction Plant Data

Plant Item	Source	Number in Operation	Total Sound Power Level (dBA)
Site Clearance			
Diesel generator 550 kW	C.4.84	2	105
Diesel generator 450 kW	C.4.78	2	108
Transformer 2x630 kW	OTHER ASSESSMENTS	2	91
Tracked front loader	D.10.108	2	116
wheel loaders	C.2.27	2	111
Tracked Excavators	C.4.63	2	108
Dumper	C.2.30	2	110
Four-axle dump truck	C6.24	6	121.8

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Plant Item	Source	Number in Operation	Total Sound Power Level (dBA)
Three-axle dump truck	C6.24	1	114
3-5t truck	C4.53	2	108
Pick up	C4.53	2	108
Road and Hardstanding			
Diesel generator 550 kW	C.4.84	2	105
Diesel generator 450 kW	C.4.78	2	108
Transformer 2x630 kW	OTHER ASSESSMENTS	2	91
Concrete mixer	C.4.22	2	107
pump	C.4.29	2	111
Four-axle dump truck	C6.24	2	117
Three-axle dump truck	C6.24	2	117
Piling			
Diesel generator 550 kW	C.4.84	2	105
Diesel generator 450 kW	C.4.78	2	108
Transformer 2x630 kW	OTHER ASSESSMENTS	2	91
Piling rig (CFA)	C.3.22	2	111
Underground Drainage and Services			
Diesel generator 550 kW	C.4.84	2	105
Diesel generator 450 kW	C.4.78	2	108
Transformer 2x630 kW	OTHER ASSESSMENTS	2	91
Crawler crane	C.3.28	2	98
Telehandler	C.4.54	2	110
wheel loaders/excavators	C.4.56	2	114

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Plant Item	Source	Number in Operation	Total Sound Power Level (dBA)
Building and Plant Installation			
Diesel generator 550 kW	C.4.84	2	105
Diesel generator 450 kW	C.4.78	2	108
Transformer 2x630 kW	OTHER ASSESSMENTS	2	91
Crawler crane	C.3.28	2	98
Truck crane, capacity <100Te	C.4.43	3	102.8
Truck crane, capacity >100 t	C.4.38	3	110.8
Telehandler	C.4.54	3	111.8
Single axle truck flatbed	C4.53	1	105
1t truck with a long flatbed	C4.53	1	105
3-5t truck	C4.53	2	108
Pickup	C4.53	2	108