



## Appendix 10.6

### Plant Noise Assumptions

Environment	Plant description	Number of Items	Noise Level per item (SWL/SPL) dB(A)
<b>Internal Noise Sources</b>			
Building 1 (Visitors Centre)	No noise generating equipment		
Building 2 (Gate House)	No noise generating equipment		
Building 3 (Fuel Preparation Reception Area)	HGV movements	4	66.5
	Shovel Loader	1 (20% on time)	102.0
Building 3 (Fuel Preparation Processing Area)	Shredders (x2)	1	85dB(A)
	Rotating Drums (x4)		
	Separation Trains (x2)		
	Associated peripheral plant		
Building 3 (Fuel Preparation Mechanical Handling Area)	HGV movements	6	72.5
	Shovel Loader	1 (100% on time)	109.0
	Forklift Truck (4tn diesel)	1 (100% on time)	97.5
Building 4 (Engine House)	V16 Deutz Gas Engines	6	70 @ 3m
	V/S6 Deutz Gas Engines	2	70 @ 3m
Building 5 (Biomax Area)	Mincers/Mixers	1	85dB(A)
	Centrifuges		
	Separation plant		
	Anaerobic digesters		
Building 6 (Proposed High Energy User)	No user confirmed – Internal noise level assumed to be 85dB(A) in line with upper Noise at Work Regulations Limit.		
Building 7 (Pyrolysis Area)	V/S6 Deutz Gas Engines	2	70 @ 3m
Building 8 (Water Treatment)	No noise generating equipment		
<b>External Sources</b>			
External HGV Movements	EC directive 92/97/EC SWL corrected on link for speed and number of movements		105.5
External Car Movements	EC directive 92/97/EC SWL corrected on link for speed and number of movements		99.5
External Area	Plasma Gasifiers	1	70 @ 3m