

## Appendix 5G

## Operational Noise Levels

Prepared for: Kronospan

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DNS5-4-017

Table 1 – Operational Noise Levels

Plant	Source Type	Sound Pressure Levels LAeq dB	Radiating Surface Area (m2)	Sound Power Level dBA	External Sound Pressure Levels LAeq dB
CHP Stack	Point	<80 @ 1m (90deg)	-	90	<80 @ 1m
Pumps (2)	Point	<80 @ 1m	-	90	<80 @ 1m
Boiler Vents (on roof of Boiler Hall) (3)	Point	70 @ 1m	-	80	70 @ 1m
Turbine Cooler Fans	Point	80 @ 1m	18	97	80 @ 1m
HGV	Line	75 @ 10m	-	103	75 @ 10m
ACC Fans (6) (top) ACC Inlet (4) (open sides below)	Area Area	66 @ 10m 74 @ 1m	150 1106	94 112	66 @ 10m 74 @ 1m
ACC Turbine Ducting (top) ACC Turbine Ducting (sides)	Area Area	71 @ 1m 71 @ 1m	7 – 86 5-69	112-123 110-121	71 @ 1m 71 @ 1m
Bagging Plant (roof) Bagging Plant (walls)	Area Area	93 (inside) 93 (inside)	130 1480	122 125	65 @ 1m 65 @ 1m
Boiler Room (roof) Boiler Room (walls)	Area Area	85 (inside) 85 (inside)	720 670-1340	114 113-116	50 @ 1m 50 @ 1m
IDF Fan enclosure (roof) IDF Fan enclosure (walls)	Area Area	99 (inside) 99 (inside)	63 80	117 125	65 @ 1m 65 @ 1m
Lime Silo (top) Lime Silo (walls)	Area Area	85 (inside) 85 (inside)	22 25	93 105	65 @ 1m 65 @ 1m
NOx Ducting (top) NOx Ducting (sides)	Area Area	91 (inside) 91 (inside)	8-73 511	112-121 130	70 @ 1m 70 @ 1m
Pre-Crusher (2) (roof) Pre-Crusher (2) (walls)	Area Area	98 (inside) 98 (inside)	460 30-148	125 118-125	65 @ 1m 70 @ 1m

Plant	Source Type	Sound Pressure Levels LAeq dB	Radiating Surface Area (m2)	Sound Power Level dBA	External Sound Pressure Levels LAeq dB
Pre-Crusher (doors)	Area	98 (inside)	50-62	115-116	78 @ 1m
Ash Silo (2) (top)	Area	80 (inside)	460	100	60 @ 1m
Ash Silo (2) (walls)	Area	80 (inside)	541	109	60 @ 1m
Storage Building (roof)	Area	75 (inside)	266	100	41 @ 1m
Storage Building (walls)	Area	75 (inside)	180-350	98-101	41 @ 1m
Turbine Ducting (top)	Area	100 (inside)	66	118	70 @ 1m
Turbine Ducting (walls)	Area	100 (inside)	6-220	108-124	70 @ 1m
Turbine Hall (roof)	Area	95 (inside)	602	123	57 @ 1m
Turbine Hall (walls)	Area	95 (inside)	41-565	111-123	57 @ 1m
Service Building (walls)	Area	95 (inside)	134-302	116-119	71 @ 1m

