

Job Number: JAL 5201
 Client: AWE Aldermaston
 Receptor: Harbourhill Copse
 Date: 22-Apr-10
 Consultant: DG
 QA: RM/TAD

Sound Power Level at Louvres of Operational Building (assuming 80 dB(A) internal noise level)

Segment ID	Segment Name	dB(A)	Octave bands with mid frequency in Hz								Distance to receptor (m)
			63	125	250	500	1 k	2 k	4 k	8 k	
D=1	Side 1	79	90	86	84	77	69	63	61	57	621
D=2	Side 2	71	82	78	76	69	61	55	53	49	630
D=3	Side 3	80	90	86	84	77	69	63	61	57	661
D=4	Side 4	77	88	84	82	75	67	61	59	55	N/A
D=5	Side 5	77	87	83	81	74	66	60	58	54	N/A
D=6	Side 6	71	82	78	76	69	61	55	53	49	N/A
D=7	Side 7	79	90	86	84	77	69	63	61	57	681
D=8	Side 8	83	94	90	88	81	73	67	65	61	645
Sum		87	97	93	91	84	76	70	68	64	

Specific Noise Level at Receptor (Calculated using ISO 9613:1996 [*1])

Segment ID	Segment Name	dB(A)	Octave bands with mid frequency in Hz							
			63	125	250	500	1 k	2 k	4 k	8 k
D=7	Side 7	12	29	17	17	10	1			
D=8	Side 8	16	32	21	21	15	5			
D=1	Side 1	13	29	18	18	11	2			
D=2	Side 2	5	21	10	10	3				
D=3	Side 3	13	29	18	18	11	2			
Total		20	36	25	25	18	9			

Other Contributions

Roof	14
Walls	17
I/A Chillers	17

Non-Test Operation

	Daytime	Nighttime
Specific Noise Level (dBA)	24	24
Background Noise Level (dBA)	53	49
Specific minus Background (dB)	-29	-25

[*1] - International Organization for Standardization (ISO) (1996). ISO 9613: Acoustics – Attenuation of sound during propagation outdoors. ISO Switzerland.