

APPENDIX D.5.3.2 - SUPPORT BUILDING FACADE NOISE BREAKOUT ASSESSMENT

Job Number: JAL 5201
Client: AWE Aldermaston
Receptor: Rag Hill Cottage
Date: 22-Apr-10
Consultant: DG
QA: DL

Sound Power Level at the Louvres of the Support 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	960

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=1	Side 1	9	26	14	14	7				

Non-Test Operation

	Daytime	Nighttime
Specific Noise Level (dBA)	9	9
Background (dBA)	35	32
Specific minus Background (dB)	-26	-23

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

APPENDIX D.5.3.2 - SUPPORT BUILDING FACADE NOISE BREAKOUT ASSESSMENT

Job Number: JAL 5201
Client: AWE Aldermaston
Receptor: Aldermaston Manor House Hotel
Date: 22-Apr-10
Consultant: DG
QA: DL

Sound Power Level at the Louvres of the Support 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	1
											350

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=1	Side 1	19	34	24	23	17	9	1		

Non-Test Operation

	Daytime	Nighttime
Specific Noise Level (dBA)	19	19
Background (dBA)	38	36
Specific minus Background (dB)	-19	-17

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APPENDIX D.5.3.2 - SUPPORT BUILDING FACADE NOISE BREAKOUT ASSESSMENT

Job Number: JAL 5201
Client: AWE Aldermaston
Receptor: Spring Lane Cpttage
Date: 22-Apr-10
Consultant: DG
QA: DL

Sound Power Level at the Louvres of the Support 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	600

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=1	Side 1	14	30	19	18	12	3			

Non-Test Operation

	Daytime	Nighttime
Specific Noise Level (dBA)	14	14
Background (dBA)	37	35
Specific minus Background (dB)	-23	-21

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