

Appendix 5-4

Noise Impact for NSR CN1 (With Silenced Equipments)

Task	SWL	Distance from Noise Source to Boundary	Distance from boundary to Boundary	Distance from Noise Source to NSR	Distance from Noise Source to NSR	G/F	1/F	2/F	G/F	1/F	2/F	G/F	1/F	2/F	G/F	1/F	2/F	Overall PNL, dB(A)	1/F	2/F
A1	109.6	50	27	77.0	77.0	77.0	77.1	77.3	D.A	-45.8	D.A	-45.8	BNL	63.9	BNL	63.9	66.8	66.9	66.9	66.8
A2	109.6	50	27	77.0	77.0	77.0	77.1	77.3	-45.8	-45.8	-45.8	-45.8	63.9	63.8	66.9	66.9	66.8	66.9	66.9	66.8
A3	112.0	50	27	77.0	77.0	77.0	77.1	77.3	-45.8	-45.8	-45.8	-45.8	66.3	66.2	69.3	69.2	69.2	69.2	69.2	69.2
A4	109.6	50	27	77.0	77.0	77.0	77.1	77.3	-45.8	-45.8	-45.8	-45.8	63.9	63.8	66.9	66.9	66.8	66.9	66.9	66.8
B1	108.5	50	27	77.0	77.0	77.0	77.1	77.3	-45.8	-45.8	-45.8	-45.8	62.7	62.7	65.7	65.7	65.7	65.7	65.7	65.7
B2	107.8	50	27	77.0	77.0	77.0	77.1	77.3	-45.8	-45.8	-45.8	-45.8	62.0	62.0	65.0	65.0	65.0	65.0	65.0	65.0
B3	108.5	50	27	77.0	77.0	77.0	77.1	77.3	-45.8	-45.8	-45.8	-45.8	62.7	62.7	65.7	65.7	65.7	65.7	65.7	65.7
B4	112.0	50	27	77.0	77.0	77.0	77.1	77.3	-45.8	-45.8	-45.8	-45.8	66.2	66.2	69.2	69.2	69.2	69.2	69.2	69.2
B5a	119.4	20	27	47.0	47.0	47.0	47.2	47.5	-41.5	-41.5	-41.5	-41.5	78.0	77.9	80.9	80.9	80.9	80.9	80.9	80.9
B5b	114.4	20	27	47.0	47.0	47.0	47.2	47.5	-41.5	-41.5	-41.5	-41.5	72.9	72.9	75.9	75.9	75.9	75.9	75.9	75.8
B6	111.8	50	27	77.0	77.0	77.0	77.1	77.3	-45.8	-45.8	-45.8	-45.8	66.1	66.0	69.1	69.0	69.0	69.0	69.0	69.0
B7	103.8	20	27	47.0	47.0	47.0	47.2	47.5	-41.5	-41.5	-41.5	-41.5	62.3	62.3	65.3	65.3	65.3	65.3	65.3	65.2
B8	110.3	20	27	47.0	47.0	47.0	47.2	47.5	-41.5	-41.5	-41.5	-41.5	68.8	68.7	71.8	71.8	71.8	71.8	71.8	71.7
B9	105.0	20	27	47.0	47.0	47.0	47.2	47.5	-41.5	-41.5	-41.5	-41.5	63.5	63.4	66.5	66.5	66.5	66.5	66.5	66.4
C1	107.8	0	23	23.0	23.0	23.0	23.4	24.1	-35.4	-35.4	-35.4	-35.4	72.5	72.1	75.5	75.5	75.5	75.5	75.5	75.1
C2	108.6	0	23	23.0	23.0	23.0	23.4	24.1	-35.4	-35.4	-35.4	-35.4	73.4	73.2	76.4	76.4	76.4	76.4	76.4	76.0
C3	110.5	0	23	23.0	23.0	23.0	23.4	24.1	-35.4	-35.4	-35.4	-35.4	75.2	75.1	78.2	78.2	78.2	78.2	78.2	77.9
C4	105.0	0	23	23.0	23.0	23.0	23.4	24.1	-35.4	-35.4	-35.4	-35.4	69.7	69.6	72.7	72.7	72.7	72.7	72.7	72.3

Floor

G/F	1.2
2/F	4.2
3/F	7.2

Legend

SWL	Sound Power Level, dB(A)
D.A.	Distance Attenuation, dB(A)
BNL	Basic Noise Level, dB(A)
PNL	Predicted Noise Level including 3 dB(A) façade correction

Appendix 5-4

Noise Impact for NSR CN2 (With Silenced Equipments)

Task	SWL	Distance from Noise Source to Boundary	Distance from boundary to NSR	Distance from Noise Source to NSR	G/F	1/F	2/F	G/F	1/F	2/F	G/F	1/F	2/F	G/F	1/F	2/F	Overall PNL, dB(A)	1/F	2/F	Overall PNL, dB(A)	
A1	109.6	50	560	610.0	610.0	610.0	610.0	-63.7	-63.7	-63.7	-63.7	-63.7	-63.7	45.9	45.9	45.9	48.9	48.9	48.9	48.9	
A2	109.6	50	560	610.0	610.0	610.0	610.0	-63.7	-63.7	-63.7	-63.7	-63.7	-63.7	45.9	45.9	45.9	48.9	48.9	48.9	48.9	
A3	112.0	50	560	610.0	610.0	610.0	610.0	-63.7	-63.7	-63.7	-63.7	-63.7	-63.7	48.3	48.3	48.3	51.3	51.3	51.3	51.3	
A4	109.6	50	560	610.0	610.0	610.0	610.0	-63.7	-63.7	-63.7	-63.7	-63.7	-63.7	45.9	45.9	45.9	48.9	48.9	48.9	48.9	
B1	108.5	50	460	510.0	510.0	510.0	510.0	-62.2	-62.2	-62.2	-62.2	-62.2	-62.2	46.3	46.3	46.3	49.3	49.3	49.3	49.3	
B2	107.8	50	460	510.0	510.0	510.0	510.0	-62.2	-62.2	-62.2	-62.2	-62.2	-62.2	45.6	45.6	45.6	48.6	48.6	48.6	48.6	
B3	108.5	50	460	510.0	510.0	510.0	510.0	-62.2	-62.2	-62.2	-62.2	-62.2	-62.2	46.3	46.3	46.3	49.3	49.3	49.3	49.3	
B4	112.0	50	460	510.0	510.0	510.0	510.0	-62.2	-62.2	-62.2	-62.2	-62.2	-62.2	49.8	49.8	49.8	52.8	52.8	52.8	52.8	
B5a	119.4	20	460	480.0	480.0	480.0	480.0	-61.6	-61.6	-61.6	-61.6	-61.6	-61.6	57.8	57.8	57.8	60.8	60.8	60.8	60.8	
B5b	111.8	20	460	480.0	480.0	480.0	480.0	-62.2	-62.2	-62.2	-62.2	-62.2	-62.2	52.7	52.7	52.7	55.7	55.7	55.7	55.7	
B6	111.8	50	460	510.0	510.0	510.0	510.0	-62.2	-62.2	-62.2	-62.2	-62.2	-62.2	49.6	49.6	49.6	52.6	52.6	52.6	52.6	
B7	103.8	20	460	480.0	480.0	480.0	480.0	-61.6	-61.6	-61.6	-61.6	-61.6	-61.6	42.1	42.1	42.1	45.1	45.1	45.1	45.1	
B8	110.3	20	460	480.0	480.0	480.0	480.0	-61.6	-61.6	-61.6	-61.6	-61.6	-61.6	46.6	46.6	46.6	49.6	49.6	49.6	49.6	
B9	105.0	20	460	480.0	480.0	480.0	480.0	-61.6	-61.6	-61.6	-61.6	-61.6	-61.6	43.3	43.3	43.3	46.3	46.3	46.3	46.3	
C1	107.8	0	20	20.0	20.0	20.0	20.0	-34.1	-34.1	-34.1	-34.1	-34.1	-34.1	73.7	73.7	73.7	76.7	76.7	76.7	76.7	
C2	108.6	0	20	20.0	20.0	20.0	20.0	-34.2	-34.2	-34.2	-34.2	-34.2	-34.2	74.4	74.4	74.4	77.4	77.4	77.4	77.4	
C3	110.5	0	20	20.0	20.0	20.0	20.0	-34.1	-34.1	-34.1	-34.1	-34.1	-34.1	76.5	76.5	76.5	79.5	79.5	79.5	79.5	
C4	105.0	0	20	20.0	20.0	20.0	20.0	-34.1	-34.1	-34.1	-34.1	-34.1	-34.1	70.9	70.9	70.9	73.9	73.9	73.9	73.9	
Floor																					
G/F	1.2																				
2/F	4.2																				
3/F	7.2																				

Height above ground

1.2

4.2

7.2

Legend

SWL

Sound Power Level, dB(A)

D.A.

Distance Attenuation, dB(A)

BNL

Basic Noise Level, dB(A)

PNL

Predicted Noise Level including 3 dB(A) facade correction

Appendix 5-4

Noise Impact for NSR CN3 (With Silenced Equipments)

Task	SWL	Distance from Noise Source to Boundary	Distance from boundary to NSR	Distance from Noise Source to NSR	G/F Slant Distance	G/F D.A	G/F BNL	G/F Overall PNL, dB(A)
A1	109.6	50	34	84.0	84.0	-46.5	63.1	66.1
A2	109.6	50	34	84.0	84.0	-46.5	63.1	66.1
A3	112.0	50	34	84.0	84.0	-46.5	65.5	68.5
A4	109.6	50	34	84.0	84.0	-46.5	63.1	66.1
B1	108.5	50	133	183.0	183.0	-53.3	55.2	58.2
B2	107.8	50	133	183.0	183.0	-53.3	54.5	57.5
B3	108.5	50	133	183.0	183.0	-53.3	55.2	58.2
B4	112.0	50	133	183.0	183.0	-53.3	58.7	61.7
B5a	119.4	20	133	153.0	153.0	-51.7	67.7	70.7
B5b	114.4	20	133	153.0	153.0	-51.7	62.6	65.6
B6	111.8	50	133	183.0	183.0	-53.3	58.5	61.5
B7	103.8	20	133	153.0	153.0	-51.7	52.1	55.1
B8	110.3	20	133	153.0	153.0	-51.7	58.5	61.5
B9	105.0	20	133	153.0	153.0	-51.7	53.3	56.3
C1	107.8	0	560	560.0	560.0	-63.0	44.8	47.8
C2	108.6	0	560	560.0	560.0	-63.0	45.7	48.7
C3	110.5	0	560	560.0	560.0	-63.0	47.5	50.5
C4	105.0	0	560	560.0	560.0	-63.0	42.0	45.0

Floor
G/F
Height above ground
1.2

Legend

SWL Sound Power Level, dB(A)
D.A. Distance Attenuation, dB(A)
BNL Basic Noise Level, dB(A)
PNL Predicted Noise Level including 3 dB(A) façade correction

Appendix 5-4

Noise Impact for NSR CN4 (With Silenced Equipments)

Task	SWL	Distance from Noise Source to Boundary	Distance from boundary to NSR	Distance from Noise Source to NSR	Slant Distance	G/F	D.A	BNL	G/F	Overall PNL, dB(A)
A1	109.6	50	12	62.0	62.0		-43.9	65.8		68.8
A2	109.6	50	12	62.0	62.0		-43.9	65.8		68.8
A3	112.0	50	12	62.0	62.0		-43.9	68.1		71.1
A4	109.6	50	12	62.0	62.0		-43.9	65.8		68.8
B1	108.5	50	332	382.0	382.0		-59.7	48.8		51.8
B2	107.8	50	332	382.0	382.0		-59.7	48.1		51.1
B3	108.5	50	332	382.0	382.0		-59.7	48.8		51.8
B4	112.0	50	332	382.0	382.0		-59.7	52.3		55.3
B5a	119.4	20	332	352.0	352.0		-59.0	60.5		63.5
B5b	114.4	20	332	352.0	352.0		-59.0	55.4		58.4
B6	111.8	50	332	382.0	382.0		-59.7	52.1		55.1
B7	103.8	20	332	352.0	352.0		-59.0	44.8		47.8
B8	110.3	20	332	352.0	352.0		-59.0	51.3		54.3
B9	105.0	20	332	352.0	352.0		-59.0	46.0		49.0
C1	107.8	0	447	447.0	447.0		-61.0	46.8		49.8
C2	108.6	0	447	447.0	447.0		-61.0	47.6		50.6
C3	110.5	0	447	447.0	447.0		-61.0	49.5		52.5
C4	105.0	0	447	447.0	447.0		-61.0	44.0		47.0

Floor
G/F
Height above ground
1.2

Legend

- SWL Sound Power Level, dB(A)
- D.A. Distance Attenuation, dB(A)
- BNL Basic Noise Level, dB(A)
- PNL Predicted Noise Level including 3 dB(A) façade correction

Appendix 5-4

Noise Impact for NSR CN5 (With Silenced Equipments)

Task	SWL	Distance from Noise Source to Boundary	Distance from boundary to NSR	Distance from Noise Source to NSR	G/F Slant Distance	G/F D.A	G/F BNL	G/F Overall PNL, dB(A)
A1	109.6	50	7	57.0	57.0	-43.1	66.5	69.5
A2	109.6	50	7	57.0	57.0	-43.1	66.5	69.5
A3	112.0	50	7	57.0	57.0	-43.1	68.9	71.9
A4	109.6	50	7	57.0	57.0	-43.1	66.5	69.5
B1	108.5	50	750	800.0	800.0	-66.1	42.4	45.4
B2	107.8	50	750	800.0	800.0	-66.1	41.7	44.7
B3	108.5	50	750	800.0	800.0	-66.1	42.4	45.4
B4	112.0	50	750	800.0	800.0	-66.1	45.9	48.9
B5a	119.4	20	750	770.0	770.0	-65.8	53.7	56.7
B5b	114.4	20	750	770.0	770.0	-65.8	48.6	51.6
B6	111.8	50	750	800.0	800.0	-66.1	45.7	48.7
B7	103.8	20	750	770.0	770.0	-65.8	38.0	41.0
B8	110.3	20	750	770.0	770.0	-65.8	44.5	47.5
B9	105.0	20	750	770.0	770.0	-65.8	39.2	42.2
C1	107.8	0	947	947.0	947.0	-67.5	40.2	43.2
C2	108.6	0	947	947.0	947.0	-67.5	41.1	44.1
C3	110.5	0	947	947.0	947.0	-67.5	43.0	46.0
C4	105.0	0	947	947.0	947.0	-67.5	37.4	40.4

Floor
G/F
Height above ground
1.2

Legend

- SWL Sound Power Level, dB(A)
- D.A. Distance Attenuation, dB(A)
- BNL Basic Noise Level, dB(A)
- PNL Predicted Noise Level including 3 dB(A) façade correction