

APPENDIX 4D
Determination of Maximum Permissible SWL for
Fixed Plant Noise

Appendix 4D - Determination of Maximum Permissible SWL for Fixed Plant Noise

Day-time and Evening

NSR ID	Description	Area Sensitive Rating	Affected by IF?	Background Noise Measurement Location	Noise Criteria (Day-time and Evening) , dB(A)			Approx. Horizontal Distance , m	Distance Attenuation, dB(A)	Tonality Correction, dB(A) [1]	Façade Correction, dB(A)	Maximum Permissible SWL, dB(A)
					ANL -5, dB(A)	Lowest Background Noise Level	Adpoted Noise Criterion					
NSR 1	Block B, Peninsula Heights	C	No	M1	65	74	65	136	-51	3	3	110
NSR 2	Block 1, Meridian Hill	C	No	M1	65	74	65	121	-50	3	3	109
NSR 3	Chun Sing House, Tin Ma Court	B	No	M2	60	60	60	91	-47	3	3	101
NSR 4	Chun Wai House, Tin Ma Court	B	No	M2	60	60	60	87	-47	3	3	101
NSR 5	Grace Methodist Church Kindergarten	B	No	M3	60	68	60	107	-49	3	3	103
NSR 6	Wang King House, Tin Wang Court	B	No	M4	60	70	60	214	-55	3	3	109
NSR 7	Block 6, Tsui Chuk Garden	B	No	M5	60	58	58	168	-53	3	3	105

Lowest Max Permissible SWL, dB(A)

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Night-time

NSR ID	Description	Area Sensitive Rating	Affected by IF?	Background Noise Measurement Location	Noise Criteria (Night-time) , dB(A)			Approx. Horizontal Distance , m	Distance Attenuation, dB(A)	Tonality Correction, dB(A) [1]	Façade Correction, dB(A)	Maximum Permissible SWL, dB(A)
					ANL -5, dB(A)	Lowest Background Noise Level	Adpoted Noise Criterion					
NSR 1	Block B, Peninsula Heights	C	No	M1	55	70	55	136	-51	3	3	100
NSR 2	Block 1, Meridian Hill	C	No	M1	55	70	55	121	-50	3	3	99
NSR 3	Chun Sing House, Tin Ma Court	B	No	M2	50	56	50	91	-47	3	3	91
NSR 4	Chun Wai House, Tin Ma Court	B	No	M2	50	56	50	87	-47	3	3	91
NSR 5	Grace Methodist Church Kindergarten	B	No	M3	50	59	50	107	-49	3	3	93
NSR 6	Wang King House, Tin Wang Court	B	No	M4	50	58	50	214	-55	3	3	99
NSR 7	Block 6, Tsui Chuk Garden	B	No	M5	50	51	50	168	-53	3	3	97

Lowest Max Permissible SWL, dB(A)

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Note:

[1] As conservative approach, +3 dB(A) of tonality correction is applied. The fixed noise sources associated with the Project should be free of the characteristics of tonality, impulsiveness and intermittency. If the noise exhibits any tonality, intermittency or impulsiveness characteristics during the operation of the plant, the noise design limit (Maximum Permissible SWL) should be reduced to absorb these corrections in accordance with the recommendation given in IND-TM.