

Appendix 4.12 Calculations of Operational Fixed Plant Noise Levels with Mitigation Measures

Overall Fixed Plant Noise Impact

NSR ID	Description	Land use	Area Sensitivity Rating	Noise Criteria, dB(A) ^[2]		No. of Storeys	Representative Assessment Level, mPD ^[1]	Overall Predicted Noise Level, L _{eq (30-min)} , dB(A)	Noise Exceedance, dB(A)	
				Daytime & Evening	Night-time				Daytime & Evening	Night-time
N1a	Hong Kong Baptist Theological Seminary (HKBTS) Staff & Students Quarters	Residential	B	44	41	6	8	37	0	0
							17	36	0	0
							23	36	0	0
N1b	Hong Kong Baptist Theological Seminary (HKBTS) Staff & Students Quarters	Residential	B	44	41	6	8	38	0	0
							17	38	0	0
							23	37	0	0
N2	HKBTS Administration and Education Block	Education	B	44	N/A ^[3]	5	8	32	0	N/A ^[3]
							14	32	0	N/A ^[3]
							20	32	0	N/A ^[3]
N3a	Proposed School with Recreational Area under the Approved Planning Application No. A/MOS/125	Education	B	42	N/A ^[3]	6	9	35	0	N/A ^[3]
							18	35	0	N/A ^[3]
							27	35	0	N/A ^[3]
N3b	Proposed School with Recreational Area under the Approved Planning Application No. A/MOS/125	Education	B	42	N/A ^[3]	6	9	35	0	N/A ^[3]
							18	35	0	N/A ^[3]
							27	35	0	N/A ^[3]
N4	Symphony Bay, Block 11	Residential	A	44	41	7	15	24	0	0
							24	24	0	0
							33	24	0	0
N5	Zessa Vista	Residential	A	44	41	3	7	29	0	0
							10	29	0	0
							13	29	0	0

Notes:

N/A Not applicable

[1] The floor to floor height of the NSR is assumed as 3m and the assessment levels adopted are 1.2m from the floor of the lowest, middle and highest storeys. The noise source is assumed at 5.5mPD.

[2] The noise criteria adopted are either ANL-5dB(A) in accordance to the IND-TM or the measured background level, whichever lower. Refer to **Appendix 4.1** for detailed determination of Noise Criteria for Operational Fixed Noise Sources. As the proposed SPS would operate 24 hours a day, the more stringent night-time noise criterion was adopted in the assessment.

[3] It is assumed that there would be no night-time activities (2300 – 0700 hours) for education institutes. Daytime criterion is adopted for educational institutes.