

Project: Proposed Comprehensive Residential and Commercial Development atop Siu Ho Wan Depot
 Title: Helicopter Noise Assessment Area Determination

With reference to the International Civil Aviation Organisation,
 the EPN and L_{max} (with lateral movements) for helicopter H175 and MD 902 Explorer were :

Flying mode	EPN Noise Level at 150m,		L_{max} Noise Level at 150m, dB(A)	
	H175	MD 902 Explorer	H175	MD 902 Explorer
Flyover	93.8	93.3	80.8	80.3

Notes:

[1] Noise level was measured at 150m (free field).

[2] L_{max} = EPNdB-13, with reference to "Transportation Noise Reference Book" (Nelson, 1987), Equation (6a) "Conversion Relationship of Aircraft Noise Indices between WECPNL and DENL" (Proceedings of 20th International Congress of Acoustics), Section 2.1 "Consideration to noise index for evaluating airport noise in Japan" (The 33rd International Congress and Exposition on Noise Control Engineering) and Section 2 "Evaluation and Prediction of Airport Noise in Japan" (Journal of the Acoustical Society of Japan).

Buffer distance for worst operating configuration

H175

Flying mode	Separation Distance ^[1] (m)	L_{max} at 150m dB(A)	Correction			Corrected L_{max} dB(A)	Noise Criteria dB(A)	Exceedance dB(A)
			Distance dB(A)	Barrier dB(A)	Facade dB(A)			
Flyover	130	80.8	1.2	0	3	85	85	-

Note:

[1] Only horizontal distance is adopted as conservative assessment.