

Appendix 5.2

Noise Rating Curve Assessment – Britons Protection Plant - Proposed Habitable Rooms (Site A: Eastern, Site B: Western facades)

Frequency, Hz	Noise Source Spectrum	Attenuation of Glazing - 8.8/16/12.8	Resultant Internal Noise Level, dB	NR25	A-Weighted Internal Noise Level, dB(A)
63 Hz	76.9	22	54.9	55.2	28.7
125 Hz	64.9	28	36.9	43.8	20.8
250 Hz	66.6	36	30.6	35.3	22.0
500 Hz	68.7	45	23.7	28.7	20.5
1 kHz	63.9	53	10.9	25.0	10.9
2 kHz	59	55	4	21.9	5.2
4 kHz	49.6	65	0.0	19.5	1.0
Overall Internal Noise Level, $L_{Aeq, T}$					22.2

