



APPENDIX 12-2

NOISE STUDY AREA

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The Institute of Acoustics document Good Practice Guide To The Application Of ETSU-R-97 For The Assessment And Rating Of Wind Turbine Noise states, in section 2.2 in relation to the extent of the study area:

The 'study area' for background noise surveys (and noise assessment) should, as a minimum, be the area within which noise levels from the proposed, consented and existing wind turbine(s) may exceed 35 dB LA90 at up to 10 m/s wind speed. (Note: unless stated, in this document the wind speed reference for noise data is the 10 metre standardised wind speed, derived from the wind speed at turbine hub height as explained in Section 2.6).

With reference to the Cumulative Long List (See Chapter 2) the following wind energy developments were considered for inclusion in the cumulative noise assessment:

- ▶ Cappagh White: at a distance of approximately 2.9 km;
- ▶ Garracummer: at a distance of approximately 4.4 km;
- ▶ Turaheen: at a distance of approximately;
- ▶ Glencarbry: at a distance of approximately 1 km;
- ▶ Glenough: at a distance of approximately 2.4 km;
- ▶ Hollyford: at a distance of approximately 3.5 km;
- ▶ Glencarbry Extn at a distance of approximately 2.7 km;
- ▶ Turaheen Upper: at a distance of approximately 4.3 km;
- ▶ Glenough/Hollyford at a distance of approximately 5.3 km.

These developments have been included in the noise assessment presented in the Chapter 12.

As discussed in Chapter 12 it is considered that a lower daytime threshold of 40 dB LA90 is appropriate for low noise environments where the background noise is less than 30 dB(A). Therefore, the study area for the operational phase was determined as the area predicted to exceed 30 dB LA90 at the maximum predicted turbine noise emission level from the proposed project in isolation as presented in Figure A12-2-1.

All 198 noise-sensitive locations identified within the noise study area are considered in the noise assessment.

Figure 12.2.1. Noise Study Area

