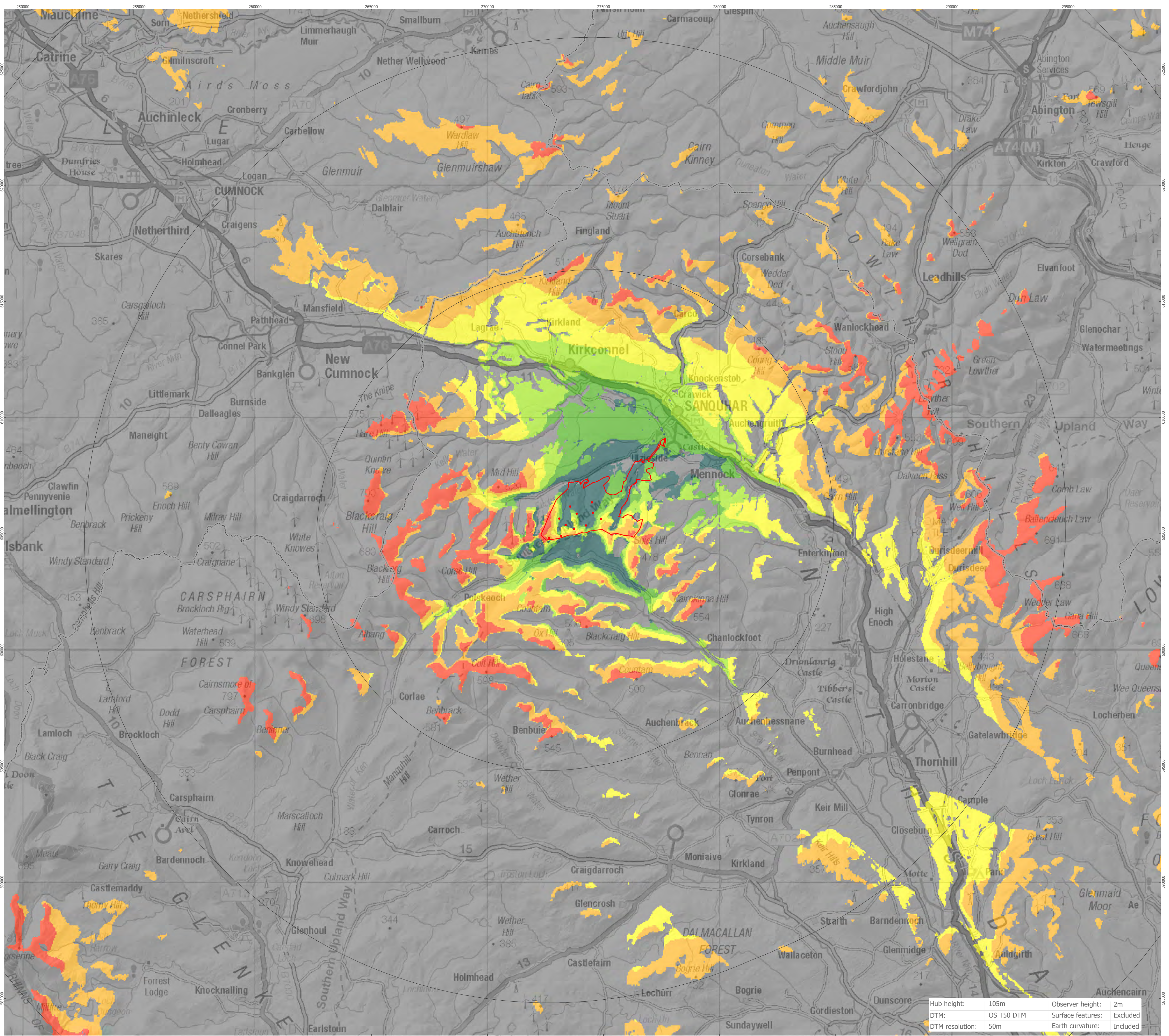


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Proposed Turbine Location

Site Boundary

10km Radii

Local Authority Boundary

Intensity of Turbine Light shown in Candela (cd)

Vertical angle	Turbine Lighting Intensity	
	2000cd scenario	200cd scenario
Above 6°	<100cd	<10cd
2° to 6°	775 to 100cd	77.5 to 10cd
0° to 2°	2100 to 775cd	210 to 77.5cd
0° to -1°	2100 to 750cd	210 to 75cd
-1° to -2°	750 to 75cd	75 to 7.5cd
-2° to -3°	75 to 32cd	7.5 to 3.2cd
-3° to -4°	32 to 13cd	3.2 to 1.3cd
Below -4°	<13cd	<1.3cd

Notes

1.The lighting intensity for each of the vertical angles shown is based on information provided by an aviation warning light manufacturer (See appendix 6.4).

2.Reduced intensity turbine lighting (200cd) based on 'Air Navigation Order 2016 (CAP393) Article 223 (8)' which allows the 2000cd turbine light to be 'reduced to not less than 10% of the minimum peak intensity specified 'i.e. 200cd 'if visibility in all directions from every wind turbine generator in a group is more than 5km '.

3.Perception of theoretical candela intensity does not take account of distance .

4.ZTV calculations do not take into account surface features such as forestry or buildings.

5.ZTV calculations for turbine lighting intensity are based on visible aviation lighting mounted on the turbine nacelle.

6.The ZTV calculates the degree of vertical angle from the study area are shown to each of the Proposed Development turbines.

7.ZTV calculations represent a worst case situation where predicted lighting intensity may be as a result of only one turbine in the layout.

1:80,000

Scale @ A1

0

5 km

NORTH

Produced By: CS

Ref: 4256-REP-6.16

Checked By: JP

Date: 22/06/2023

Lighting Intensity

Figure 6.16

Cloud Hill Wind Farm

LVIA Report