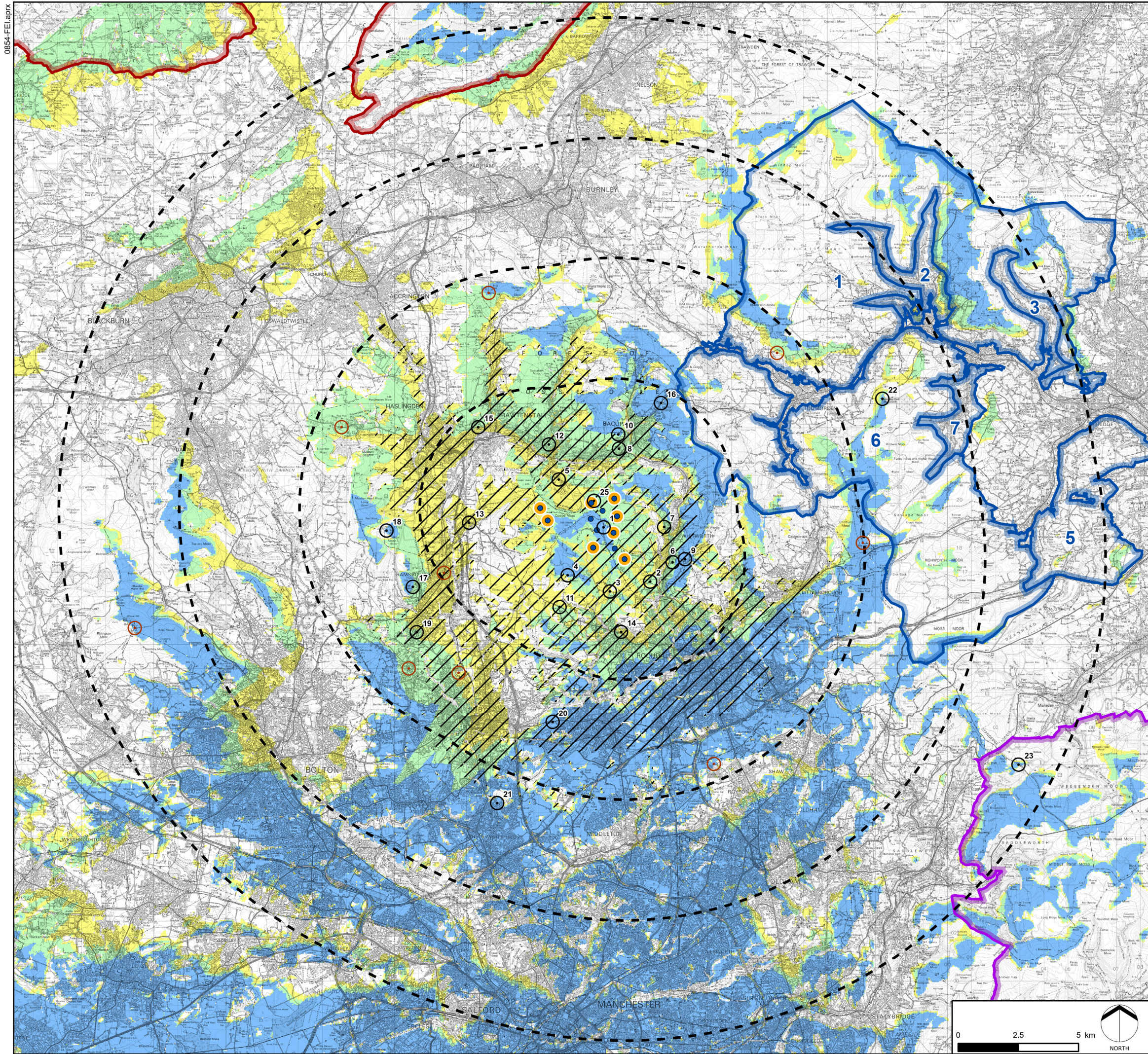


SCOUT MOOR II WIND FARM

FIGURE 11.11
Aviation Lighting ZTV – Bare Earth



KEY

Scout Moor II Turbines

Scout Moor II Turbines with Aviation Lights

Distance Radii from Outermost Turbines (5, 10, 15, 20km)

Viewpoints

Illustrative Wirelines

Forest of Bowland National Landscape

Peak District National Park

Calderdale Special Landscape Areas

1 Northern Calderdale Moorlands and Fringes

2 Hardcastle Craggs, Hebden Water and Colden Water

3 Luddenden Dean

5 Ringstone Edge and Norland Moor Fringes

6 Southern Calderdale Moorlands and Fringes

7 Cragg Vale

Zone of Theoretical Visibility to Aviation Lights

1 - 3 lights may be visible

4 - 6 lights may be visible

7 - 8 lights may be visible

Minimum -2° angle or greater, below the nacelle lights of all visible lit turbines. This area indicates where intensity of the aviation lights could be reduced to less than 42cd/420cd due to the vertical directional intensity mitigation of the light design. See Figure 4 and Table 4 of Appendix 3 of Guidance on Aviation Lighting Impact Assessment by NatureScot 2024

FIGURE DATA:
This figure has been based on the following data:

Layout file: D012-obvs-HL-T5-20km.shp; D012-obvs-HL-T50-80km.shp
Terrain data: T5-DTM.asc; T50-DTM-45km.asc
Viewer's eye height: 2m above ground level
Calculation grid size: 5m (to 5km from turbines / 50m (beyond))

NOTES:
This drawing is based upon computer generated Zone of Theoretical Visibility (ZTV) studies produced using the Viewshed routine in the Visibility Analysis plugin for QGIS.

The areas shown are the maximum theoretical visibility, taking topography into account.

This visibility map is based on a 'bare earth' model of the landform and does not show any effects of screening from obstacles such as buildings and vegetation.

The ZTV includes an adjustment that allows for Earth's curvature and light refraction. It is based on a DTM and has a 5m² (to 5km from turbines) / 50m² resolution.
Projected Coordinate System: British National Grid
Cubico UK Development (Wind 1) Ltd

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