



Glenburnie Wind Farm

AEI Technical Appendix 14.1

Reduced Lighting Scheme

Author RES

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Strategy and Policy Group Windfarm Policy



Sam Johnson Senior Aviation Manager RES Group Beaufort Court, Egg Farm Lane Kings Langley WD4 8LR

28 January 2025 Ref Windfarms / Glenburnie

Dear Sam,

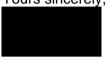
Proposed Obstacle Lighting Scheme for Glenburnie Wind Farm

Reference: Proposed Glenburnie Wind Farm and obstacle lighting e-mail dated 20 December 2024

- 1. Thank you for the e-mail at reference, which discusses the proposed Glenburnie Wind Farm approximately 9km north of Lauder in the Scottish Borders. The proposed wind farm consists of 12 turbines with tip heights of 220 m above ground level, which brings them within scope of the Air Navigation Order (ANO) Article 222 obstacle lighting requirements.
- 2. We recognise the intent to address concerns relating to adverse visual impacts of aviation lighting on non-aviation receptors while ensuring that the lighting installed on the turbines meets air safety requirements.
- 3. Therefore, under provisions given in the Air Navigation Order (ANO) Article 222 section 6, the CAA provides for the following variation:
 - Medium intensity steady red (2000 candela) lights on the nacelles of turbines T05, T08, T11, T13 and T16;
 - a second 2000 candela light on the nacelles of the above turbines to act as an alternative in case of failure of the main light (note that both lights should not be lit at the same time):
 - the visible lights on these turbines to be capable of being dimmed to 10% of peak intensity when the visibility as measured at the wind farm exceeds 5km.
 - a scheme of infrared lighting to be agreed with the MoD (note that dimming permission is applicable only to visible lights, not infra-red lighting).

- 4. Intermediate level 32 candela lights are not required to be fitted on the turbine towers.
- 5. If the proposed design of the wind farm changes (other than variations due to micrositing etc.) this is likely to require a revision to this aviation obstacle lighting variation.
- 6. Please let me know if you have any further queries.

Yours sincerely,



Andy Wells Manager Aviation and Wind Farm Policy