

**Strategy and Policy Group
Windfarm Policy**



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18 September 2023
Ref Windfarms / Longcroft

Dear Sam,

Proposed Obstacle Lighting Scheme for Longcroft Wind Farm

Reference: Longcroft Wind Farm Lighting Plan e-mailed 25 August 2023

1. Thank you for the plan at reference, which discusses the proposed obstacle lighting plan for the Longcroft Wind Farm.
2. The proposed Longcroft Wind Farm consists of 19 turbines, with blade tip heights of 220m above ground level, which brings them within scope of the Air Navigation Order (ANO) Article 222 obstacle lighting requirements.
3. We have considered the plan carefully and take note of 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.
4. 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 T01, T03, T06, T08, T11, T13, T15, T17 and T19;
 - a second 2000 candela light on the nacelles of the above turbines to act as alternate in the event of a failure of the main light (note that both lights should not be lit at the same time);
 - lights capable of being dimmed to 10% of peak intensity when the lowest visibility (as measured at suitable points around the wind farm by visibility measuring devices) exceeds 5 km;

Civil Aviation Authority

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- a scheme of infrared lighting to be agreed with the MOD to account for operators who carry night vision device capability (note that dimming permission is applicable only to visible lights, not infra-red lighting).
5. Intermediate level 32 candela lights are not required to be fitted on the turbine towers.
 6. If the proposed design of the wind farm changes (other than variations due to micro-siting etc.) this is likely to require a revision to this aviation obstacle lighting variation.
 7. Please let me know if you have any further queries.

Yours sincerely,

Andy Wells
Manager Aviation and Wind Farm Policy