

Tangy IV Wind Farm Section 36C Variation

Technical Appendix 15.2: Civil Aviation Authority (CAA) Response to Tangy IV Wind Farm Aviation Lighting Assessment Report

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5 May 2026
Ref Windfarms / Tangy IV

Dear Mike,

Proposed Obstacle Lighting Scheme for Tangy IV Wind Farm

Reference: Tangy IV Wind Farm Lighting Report AL3 dated 23 April 2026

1. Thank you for the lighting report at reference. The document discusses the obstacle lighting plan for a proposed wind farm located on the southwest slopes of Cnocan Gean, to the north of Tangy Burn and west of Tangy Loch on the Mull of Kintyre, approximately 7km north of Campbeltown Airport.
2. The proposed Tangy IV Wind Farm consists of 16 turbines of height approximately 200 m ground to tip, which brings the turbines within scope of the Air Navigation Order (ANO) Article 222 obstacle lighting requirements. Although the type of wind turbine generator has yet to be determined at this stage, the overall height of the turbines will not change significantly.
3. We have considered the report 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. In particular, we are aware of the ornithological significance of Tangy Loch and its designated Special Protection Area.
4. We note the proposed lighting scheme identifies the perimeter outline and that some mitigation is proposed to be provided by the provision of infra-red lighting for those operators who carry Night Vision Device capability.
5. 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, T06, T08 and T11;
- a second 2000 candela light on the nacelles of the above turbines to act as alternates in the event of a failure of the main light (note that both lights should not be lit at the same time);
- the lights on these turbines to be 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 5km;
- exceptionally a 200 candela light on the nacelle of turbine T05 with a second light of 200 candela to act as an alternate in the event of a failure of the main light (note that both lights should not be lit at the same and no dimming of the light, as outlined above, is permitted);
- infra-red lights to MoD specification installed on the nacelles of turbines T01, T02, T03, T04, T05, T06, T07, T08, T09, T10, T11, T12, T13, T14, T15 and T16 (note that dimming permission is applicable only to visible lights, not infra-red lighting).

6. Intermediate level 32 candela lights are not required to be fitted on the turbine towers.

7. 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.

Yours sincerely,

A black rectangular box redacting the signature of Andy Wells.

Andy Wells
Manager Aviation and Wind Turbine Policy