



Aultmore Windfarm Redesign

Technical Appendix 14.1: Reduced Lighting Scheme Agreement

Vattenfall Wind Power Ltd

Prepared by:
SLR Consulting Ltd

SLR Project No.: 405.03640.00016

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Revision: 01

Malcolm Spaven
Director, Aviatica Ltd.
Reservoir House
Gladhouse
Midlothian
EH23 4TA

20 September 2023
Ref Windfarms / Aultmore

Dear Malcolm,

Proposed Obstacle Lighting Scheme for Aultmore Wind Farm

Reference: Aviatica Report No. 23/1100/VAT/2, September 2023

1. Thank you for the report at reference. The attached report provides a proposal for an obstacle lighting plan for the Aultmore wind farm.
2. The proposed Aultmore wind farm consists of 16 turbines. The turbines will have tip heights of 200 metres above ground level (AGL), which brings them within scope of the Air Navigation Order (ANO) Article 222.
3. We have considered the report carefully and take note of the intent to address concerns relating to the night-time visual impact of such aviation lighting while ensuring that the lighting installed on the turbines meets air safety requirements.
4. You have conducted an aviation study that considers the type of aviation operations who might be expected to fly in this area and set out the rationale for a reduced lighting scheme.
5. We note the local terrain aspects and additional mitigation provided by the provision of infra-red lighting for those operators who carry Night Vision Device capability.
6. As a result, the CAA agrees a variation to the lighting requirements specified in the ANO Article for the Aultmore wind farm, under provisions given in the Air Navigation Order (ANO) Article 222 section 6, as per the following:
 - medium intensity steady red (2000 candela) lights on the nacelles of turbines T01, T02, T03, T05, T06, T08, T13, T15 and T16;

- 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;
- 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;
- infra-red lights to MoD specification installed on the nacelles of turbines T01, T02, T03, T04, T05, T06, T07, T08, T09, T11, T12, T13, T14, T15 and T16.

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

8. Please let me know if you have any further queries.

Yours sincerely,



Andy Wells
Manager Rulemaking and Safety Publications

