

## Appendix 13.2: Civil Aviation Authority Letter

Mike Hale  
Aviation Consultant  
Wind Power Aviation Consultants Ltd.  
38 Hadrian Way  
Chilworth  
Southampton  
SO16 7HX

13 August 2021  
Ref Windfarms/Energy Isles

Dear Mike,

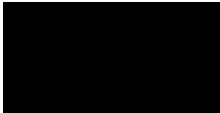
**Proposed Energy Isles Wind Farm Obstacle Lighting Scheme, located on Yell,  
Shetland Islands**

Reference: Energy Isles Lighting Brief (AL2) dated 12 August 2021

1. Thank you for the report at reference which details the obstacle lighting scheme for the Energy Isles wind turbine proposed development.
2. The proposed development has 18 turbines, with turbine heights in excess of 150m high ground to tip. This brings them into scope of the Air Navigation Order Article 222 requirements for obstacle lighting at night.
3. Based on the information and proposal contained within the report and your, the CAA confirms that in accordance with the Air Navigation Order (ANO) Article 222 section 6, we agree a variation to the lighting requirements specified in the ANO Article for the proposed Energy Isles wind farm as per the following:
  - medium intensity steady red (2000 candela) lights on the nacelles of Turbines 11, 12, 14, 16, 19, 20, 21, 24, 25, 26 and 28;
  - a second 2000 candela light on the nacelles of the turbines stated above to act as alternates in the event of failure of the main light;
  - the visible lights on these turbines will be capable of being dimmed to 10% of peak intensity when the visibility as measured at the wind farm exceeds 5km;
  - infra-red lights to MoD specification installed on the nacelles of Turbines 11, 12, 14, 15, 16, 19, 20, 21, 24, 25, 26 and 28;
  - At least three (to provide 360 degree coverage) 32 candela lights provided at an intermediate level of half the nacelle height  $\pm$  10 m each on Turbines 12, 16, 20, 26 and 28.

4. The above variation differs from the lighting brief in two elements:
  - (i) Takes account of your covering e-mail in which you propose not lighting turbine 15 but turbine 21 instead (which we concur provides a better overall perimeter visible red lighting coverage)
  - (ii) Addresses a minor typographical error between the list of turbines with IR lighting on page 4 (which does not include turbine 21) and figure 3 (which does) in the brief.
  
5. Please let me know if you have any further queries.

Yours sincerely,



Andy Wells  
Manager Rulemaking and Safety Publications

Civil Aviation Authority

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