



Defence Infrastructure Organisation

David Naylor-Gray
Safeguarding
Ministry of Defence
Safeguarding – Wind Energy
Kingston Road
Sutton Coldfield
West Midlands B75 7RL
United Kingdom

Your Reference: 459 Eston House

Telephone [MOD]: +44 (0)121 311 3810

Facsimile [MOD]: +44 (0)121 3112218

Our Reference: 21242

E-mail: DIOODC-IPSSG2a@mod.uk

Conon McAllister
Entrust Professional Services Ltd
Daresbury Innovation Centre
Keckwick Lane
Daresbury
Warrington WA4 4FS

24 September
2014

Dear Mr McAllister

Please quote in any correspondence: 21242

Site Name: Eston House

Site Address: Sedgmoor Road, Middlesbrough, Cleveland TS6 0UA

Thank you for your pro-forma requesting pre-application advice from the Ministry of Defence (MOD) with regard to your proposed wind energy development

I am writing to inform you that the MOD may have concerns about the proposal. Our assessment has been carried out on the basis that there will be 1 turbine, 77.9 metres in height from ground level to blade tip and located at the grid reference below:

Turbine	100km Square letter	Easting	Northing
1	NZ	55560	17416

We have calculated that your development will be detectable by, one or more MOD radars as specified below. As a consequence, we may object should you proceed with a planning application for the development in its current form. At this time, we are not able to state definitively that we would object, as the MOD can only accurately assess the operational impact of the development at the point in time at which we are consulted on the application by a planning authority. Whether the operational impact of the development is deemed to be acceptable or unacceptable will be dependent on a variety of constraints including, but not limited to, the proliferation of other actual and potential turbine developments in the vicinity at that time. As we are not able to predict the level of turbine development in the area around your proposal at the time that a planning application is submitted, we cannot assess the full and actual operational impact of your development.

Air Traffic Control (ATC) Radar

The turbine will be 85.5 km from and detectable by the ATC radar at Great Dunfell; which provides a data feed to the Air Traffic Control Radar at Warton Airfield.

Wind turbines have been shown to have detrimental effects on the performance of MOD ATC and Range Control radars. These effects include the desensitisation of radar in the vicinity of the turbines, and the creation of "false" aircraft returns which air traffic controllers must treat as real. The desensitisation of radar could result in aircraft not being detected by the radar and therefore not presented to air traffic controllers. Controllers use the radar to separate and sequence both military and civilian aircraft and, in uncontrolled airspace, radar is the only sure way to do this safely. Maintaining situational awareness of all aircraft movements within the airspace is crucial to achieving a safe and efficient air traffic service, and the integrity of radar data is central to this process. The creation of "false" aircraft displayed on the radar leads to increased workload for both controllers and aircrews, and may have a significant operational impact. Furthermore, real aircraft returns can be obscured by the turbine's radar returns, making the tracking of conflicting unknown aircraft and the controllers' own traffic much more difficult.

Please note that DIO staff will not be able to provide any information regarding the operational impact of your development over and above that which is contained in this letter.

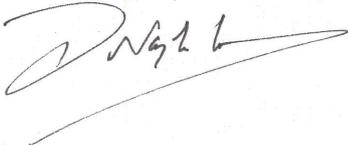
Unless directed otherwise, the Ministry of Defence will treat all pre-application information in confidence and the information will only be used or disclosed in accordance with the wishes of the confider.

MOD Safeguarding wishes to be consulted and notified about the progress of planning applications and submissions relating to this proposal to verify that it will not adversely affect defence interests.

I hope this adequately explains our position on the matter. Further information about the effects of wind turbines on MOD interests can be obtained from the following website:

MOD: <https://www.gov.uk/mod-safeguarding>

Yours sincerely



David Naylor-Gray
Safeguarding Officer – Wind Energy
Defence Infrastructure Organisation

SAFEGUARDING SOLUTIONS TO DEFENCE NEEDS