

Hi Pat,

Further to your email below, I wish to advise that this Departments original submission (email dated 31 March) still stands.

Regards,  
Catherine Madden,  
Property Management Branch,  
Department of Defence.

**From:** Pat O'Neill - (DECLG) [<mailto:Pat.ONeill@environ.ie>]

**Sent:** 06 April 2016 11:37

**To:** Tara Higgins; KENNEDY Tom; O'Brien, Grainne ([obrien@bim.ie](mailto:obrien@bim.ie)); Catherine Madden; [david.fitzgerald@met.ie](mailto:david.fitzgerald@met.ie); [lkavanagh@cer.ie](mailto:lkavanagh@cer.ie); Dermot O'Callaghan ([dermot\\_ocallaghan@hsa.ie](mailto:dermot_ocallaghan@hsa.ie)); [patricia.comiskey@seai.ie](mailto:patricia.comiskey@seai.ie); [BKelly@heritagecouncil.ie](mailto:BKelly@heritagecouncil.ie)

**Subject:** Marine Institute- Galway Bay Marine Renewable Energy Test Site - File ref. FS 006566

Dear Addressee,

Thank you for your respective observations/comments on this application which were received recently and have been noted.

Please find attached a revised application form submitted by the applicant. The only change (other than the date) is in Item number 25.

In the original application form the heights of the wind turbine blades and wave energy converters were 60m and 30m, respectively above UKHO Admiralty Chart Datum.

In the revised application form the heights of the turbine blades and wave energy converters are 35m and 5m respectively and these heights are relative to sea level.

For purposes of clarity, please confirm if the above changes your observations or if your initial comments still stand.

Regards

Pat

Hi Pat,

Based on the information provided with your letter dated 10<sup>th</sup> March 2016, the Department of Defence has the following observation on the above application:

*'In all locations where wind turbines are permitted it should be a condition that they meet the following lighting requirements:*

*(1) Single turbines or turbines delineating corners of a wind farm should be illuminated by high intensity obstacle lights.*

*(2) Obstruction lighting elsewhere in a wind farm will be of a pattern that will allow the hazard be identified and avoided by aircraft in flight.*

*(3) Obstruction lights used should be incandescent or of a type visible to Night Vision Equipment. Obstruction lighting fitted to obstacles must emit light at the near Infra-Red (IR) range of the electromagnetic spectrum specifically at or near 850 nanometres (nm) of wavelength. Light intensity to be of similar value to that emitted in the visible spectrum of light.'*

Regards,

**Catherine Madden**

**Property Management Branch**

**Department of Defence**

**Station Road**

**Newbridge**

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