

Proposed Amendment to the ANO

Lighting of Wind Turbine Generators in United Kingdom Territorial Waters

- (1) This article shall apply to any wind turbine generator which is situated in waters within or adjacent to the United Kingdom up to the seaward limits of the territorial sea and which is 60 metres or more above the level of the sea at the highest astronomical tide.
- (2) Subject to paragraphs (2) and (3) the person in charge of a wind turbine generator shall ensure that it is fitted with at least one medium intensity steady red light positioned as close as possible to the top of the fixed structure.
- (3) When visibility in all directions from every wind turbine generator in a group is more than 5km the light intensity for any light required by this article to be fitted to any generator in the group and displayed may be reduced to not less than 10% of the minimum permitted peak intensity.
- (4) Where three or more wind turbine generators are located together in the same vicinity, with the permission of the CAA only those on the periphery of the group need be fitted with a light in accordance with paragraph 2.
- (5)
 - (a) Subject to subparagraph (b) the light required by paragraph (2) shall be so fitted as to show when displayed in all directions.
 - (b) The angle of the plane of peak beam intensity shall be elevated to 3.5 degrees above the horizontal plane and not more than 45% or less than 20% of the minimum permitted peak intensity shall be visible below the horizontal plane.
- (6)
 - (a) Subject to subparagraph (b) the person in charge of a wind turbine generator shall ensure that, by night, any light required to be fitted by this article shall be displayed.
 - (b) In the event of the failure of the light which is required by this article to be displayed by night, the person in charge shall repair or replace the light as soon as is reasonably practicable.
- (7) In any particular case the CAA may direct that a wind turbine generator shall be fitted with and shall display such additional lights in such positions and at such times as it may specify.
- (8) This article shall not apply to any wind turbine generator in respect of which a permission has been granted by the CAA to the person in charge provided any conditions specified in such a permission are complied with.
- (9) A permission may be granted for the purposes of this article in respect of a particular case or class of cases or generally and subject to such conditions as the CAA thinks fit.

(10) In this article:

(a) “wind turbine generator” is a generating station which is wholly or mainly driven by wind;

(b) “medium intensity steady red light” means a light which complies with the characteristics described for a medium intensity Type C light as specified in Volume 1 (Aerodrome Design and Operations) of Annex 14 (Third Edition November 1999) to the Chicago Convention;

(c) the height of a wind turbine generator is the height of the fixed structure or if greater the maximum vertical extent of any blade attached to that structure.