



NAVIGABLE AIRSPACE DETERMINATION: Mt Cass Wind Farm Limited – Wind Farm at Mount Cass, Christchurch.

PURSUANT TO Rule Part 77 of the Civil Aviation Rules I, Sean Turangarau Kere Rogers, Manager Aeronautical Services, having received from Mt Cass Wind Farm Limited, notification of intention to erect a series of Wind Farm Turbines and two Meteorological masts at Mt Cass, Christchurch, conducted an aeronautical study in consultation with such persons, representatives and organisations as I considered appropriate.

After completing the aeronautical study, I am satisfied that the proposed action, if executed, could constitute a hazard in navigable airspace.

THEREFORE I HEREBY ISSUE a

DETERMINATION OF HAZARD IN NAVIGABLE AIRSPACE

in respect of the above notification.

The following conditions are specific to this Determination:

1. The wind turbines shall be lit with appropriate obstacle lights in accordance with the CAA Lighting and Marking of Wind Farm Turbines Policy, and Civil Aviation Rule (CAR) Part 77, Appendix B as follows:
 - a. The highest turbines, those at the extremities of the site, and other turbines around the perimeter of the site will be lit to enable pilots to identify the extent of the windfarm. The spacing between lit turbines will not exceed 900m along the perimeter, except for turbines A06 to A07 which shall not exceed 1040m, and the flashing should be coordinated between all the lights in the wind farm so that they flash simultaneously.
 - b. Lighting will be medium intensity red as defined in Rule Part 77, Appendix B10, i.e. an effective intensity of not less than 1600 candela of red light and will flash between 20 and 60 times per minute.
 - c. The obstruction lights shall be located on or above the top of the nacelle, shall be visible from all directions, and may be shielded below the horizontal plane.

The provisions of this determination are in addition to and not in derogation of the provisions of any other Act, or any orders or regulations made thereunder.

- d. The painting of turbines with obstruction marking will not be required. Instead, the rotor blades, nacelle and upper 2/3 of the supporting mast of wind turbines should be painted white or a similar industry accepted colour so that they are continuously visible to aviators during daylight hours.
2. Prior to construction, Mt Cass Wind Farm Limited is to provide details of the Wind Turbine locations to Aeropath (info@aeropath.aero) for inclusion in the relevant aeronautical charts and for publication of the revised Minimum Safe Altitudes for Instrument Flight Procedure as assessed by Aeropath for this construction; and
3. Mt Cass Wind Farm Limited is to provide CAA (Aeronautical.services@caa.govt.nz) with at least seven days notice of the wind turbine construction commencing and once the construction of all turbines with the associated compliant lighting/markings is completed.
4. Prior to construction, Mt Cass Wind Farm Limited are to promulgate with Aeropath (info@aeropath.aero) an appropriate NOTAM and/or AIP supplement for the situational awareness of aviators and are to comply with the following temporary lighting solutions:
 - a. A red medium intensity light is to be installed and operational on any attendant crane until such time the permanent light is operational within the area of the turbine (i.e. either on this turbine or an adjacent turbine within 900m to 1040m); **or**
 - b. A temporary light is to be installed on the turbine nacelle until such time as a permanent light is operational within the area of the turbine.

This Determination of Hazard shall become final on 9th September 2021 unless a petition for review is received by the Director prior to that date.

This Determination of Hazard shall not expire but may be revoked, in writing, by the Director.

Dated at Wellington this 12th day of August 2021.



Sean Purangarau Kere Rogers
Manager Aeronautical Services

The provisions of this determination are in addition to and not in derogation of the provisions of any other Act, or any orders or regulations made thereunder.