



Federal Aviation Administration
 Air Traffic Airspace Branch, ASW-520
 2601 Meacham Blvd.
 Fort Worth, TX 76137-0520

Aeronautical Study No.
 2006-ANE-34-OE

Issued Date: 03/06/2006

NILS BOLGEN
 MASSACHUSETTS TECHNOLOGY COLLABORATIVE
 75 NORTH DRIVE
 WESTBOROUGH, MA 01581

**** NOTICE OF PRESUMED HAZARD ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure Type: WIND TURBINE
 Location: WEST BARNSTABLE, MA
 Latitude: 41-41-36.85 NAD 83
 Longitude: 70-20-25.64
 Heights: 328 feet above ground level (AGL)
 448 feet above mean sea level (AMSL)

Initial findings of this study indicated that the structure as described exceeds obstruction standards and/or would have an adverse physical or electromagnetic interference effect upon navigable airspace or air navigation facilities. Pending resolution of the issues described below, the structure is presumed to be a hazard to air navigation.

Any height exceeding 253 feet above ground level (373 feet above mean sea level), will result in a substantial adverse effect and would warrant a Determination of Hazard to Air Navigation.

See attachment for additional information.

NOTE: PENDING RESOLUTION OF THE ISSUE(S) DESCRIBED ABOVE, THE STRUCTURE IS PRESUMED TO BE A HAZARD TO AIR NAVIGATION. THIS LETTER DOES NOT AUTHORIZE CONSTRUCTION OF THE STRUCTURE EVEN AT A REDUCED HEIGHT. ANY RESOLUTION OF THE ISSUE(S) DESCRIBED ABOVE MUST BE COMMUNICATED TO THE FAA SO THAT A FAVORABLE DETERMINATION CAN SUBSEQUENTLY BE ISSUED.

IF MORE THAN 60 DAYS FROM THE DATE OF THIS LETTER HAS ELAPSED WITHOUT ATTEMPTED RESOLUTION, IT WILL BE NECESSARY FOR YOU TO REACTIVATE THE STUDY BY FILING A NEW FAA FORM 7460-1, NOTICE OF PROPOSED CONSTRUCTION OR ALTERATION.

If we can be of further assistance, please contact our office at (816)329-2525. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2006-ANE-34-OE.

Signature Control No: 448437-443347

(NPH)

Donna O'Neill
 Specialist

Attachment(s)
 Additional Information

Additional Information for ASN 2006-ANE-34-OE

The proposed construction would be located approximately 3.07 nautical miles northwest of Barnstable Municipal-Boardman /Polando Field (HYA) in Barnstable, MA. It is identified as an obstruction under the standards of 14 CFR, part 77, as applied to HYA as follows:

Section 77.23(a)(2): A height AGL or airport elevation, whichever is higher, exceeding 300 ft. within 4 miles; would exceed by 122 ft. for the existing airport.

In accordance with Federal Aviation Regulations (FAR) Part 77, Section 77.35 a preliminary study has been conducted to ascertain the effects of the proposal upon the operation of air navigation facilities. It has been determined that the proposed structure at a height of 328 ft. AGL/448 ft. AMSL would impact the required clearances of the BCU localizer. A wind turbine could be located at this proposed location if the hub height is lowered by a minimum of 75 ft.

The impact to the BCU localizer clearances could also be mitigated by moving the structure westward to a point as least as far west as Oak Street, near Garretts pond or in the Clay Hill area between the high tension power line and Route 6. However, this option would require a new study be conducted for impacts to other components of the National Airspace System.

Furthermore, should spurious electromagnetic noise from the wind turbine or aggregate noise from multiple wind turbines adversely cause electro-magnetic interference (EMI) to the localizer or any other FAA facility, the proponent would need to agree to cease operation of the wind turbine(s) until such EMI is mitigated.

If you have any questions, you may contact Donna O'Neill, FAA Obstruction Evaluation Specialist, at (816) 329-2525.

Please refer to Aeronautical Study Number 2006-ANE-34-OE in any correspondence.