

# AVIATION SYSTEMS INC.

Date: MAR 12 2007

To: Aaron Bouchane  
Massachusetts Tech Collaborative  
75 North Drive  
Westborough, MA 01581

ASI #: 07-N-0448.004

Client Site ID: Regional H.S.

FAA #:

**We are sending you herewith the following via:**

US Mail     Overnight     Fax     Email     2nd Day

- ASI FAR Part 77 Airspace Obstruction Report
- Search Area Study Report
- Copies of our filing(s) with FAA and/or State
- Responses from FAA and/or State
- ASI Opinion Letter
- Quad Chart
- See attachments for Airport Runway data and/or AM Stations(s)
- Certified Survey

**Comments:**

Sincerely,

Aviation Systems, Inc.

By: 

**FAR PART 77 AIRSPACE OBSTRUCTION REPORT**

To: **Aaron Bouchane** Date: March 9, 2007

**Massachusetts Tech Collaborative**  
**75 North Drive**  
**Westborough, MA 01581**

Location: Yarmouth, MA

Client Case No.: Regional H.S.

ASI Case No.: 07-N-0448.004

**SUMMARY OF FINDINGS:**

At this location any structure over 200 feet AGL will have to be filed with the FAA. A structure up to 316 feet AGL should receive a routine approval if it were to be filed with the FAA. A structure over 374 feet AGL should not be approved. Refer to Findings and Comment Section for additional information.

**SITE DATA:**

Structure: Wind Turbine

*Note Operational Impact*

Coordinates: 41° - 40' - 37.59"/070° - 11' - 39.75" [NAD 27]

41° - 40' - 37.99"/070° - 11' - 37.82" [NAD 83]

Site Ground Elevation: 30' [AMSL]

Studied Structure Height (With Appurtenances): 397' [AGL]

Total Overall Height: 427' [AMSL]

**SEARCH RESULTS:**

- The nearest public use or military air facility subject to FAR Part 77 is Barnstable Muni-Boardman/Polando Field.
- The studied structure is located 3.31 NM/20,106 feet East (087° True) of the Barnstable Muni-Boardman/Polando Field Runway 24.
- Other Public or Private Airports or Heliports within 3 NM:  None  Printout attached

**FINDINGS**

• **FAA Notice (Ref.: FAR 77.13 (a)(1); FAR 77.13 (a)(2) i, ii,iii):**

- Not required at studied height.
- Required at studied height.
- The No Notice Maximum height is 200 feet AGL.

IMPORTANT: Our report is intended as a planning tool. If notice is required, actual site construction activities are not advisable until an FAA Final Determination of No Hazard is issued.

• **Obstruction Standards of FAR Part 77 (Ref.: FAR 77.23 (a)(1),(2),(3),(4),(5)):**

- Not exceeded at studied height.
- Exceeded at studied height and Extended Study may be required.
- Maximum nonexceedance height is 316 feet AGL.

• **Marking and Lighting (Ref.: AC 70/7460-1K, Change 1):**

- Will not be required.
- Will be required at studied height, if structure exceeds:
  - 200 feet AGL
  - Obstruction Standard

*Safe Operational Impact*

• **Operational Procedures (Ref.: FAR 77.23 (a)(3), (4); FAA Order 7400.2; FAA Order 8260.3B):**

- Not affected at studied height (FAA should issue a Determination of No Hazard.)
- Affected at studied height and the FAA will consider the studied structure to be a hazard to air navigation.
- Maximum height that would not affect operational procedures is 374 feet AGL/ 404 feet AMSL.

**Conclusions/Comments**

- The proposed structure at this site would penetrate the VFR Traffic Pattern airspace at Barnstable Muni-Boardman/Polando Field, protected by Federal Aviation Regulations.
- There are no Air Traffic Control Radar (ASR) or Joint Use Long Range Radar (ARSR) facilities within a critical distance.

**Actions:**

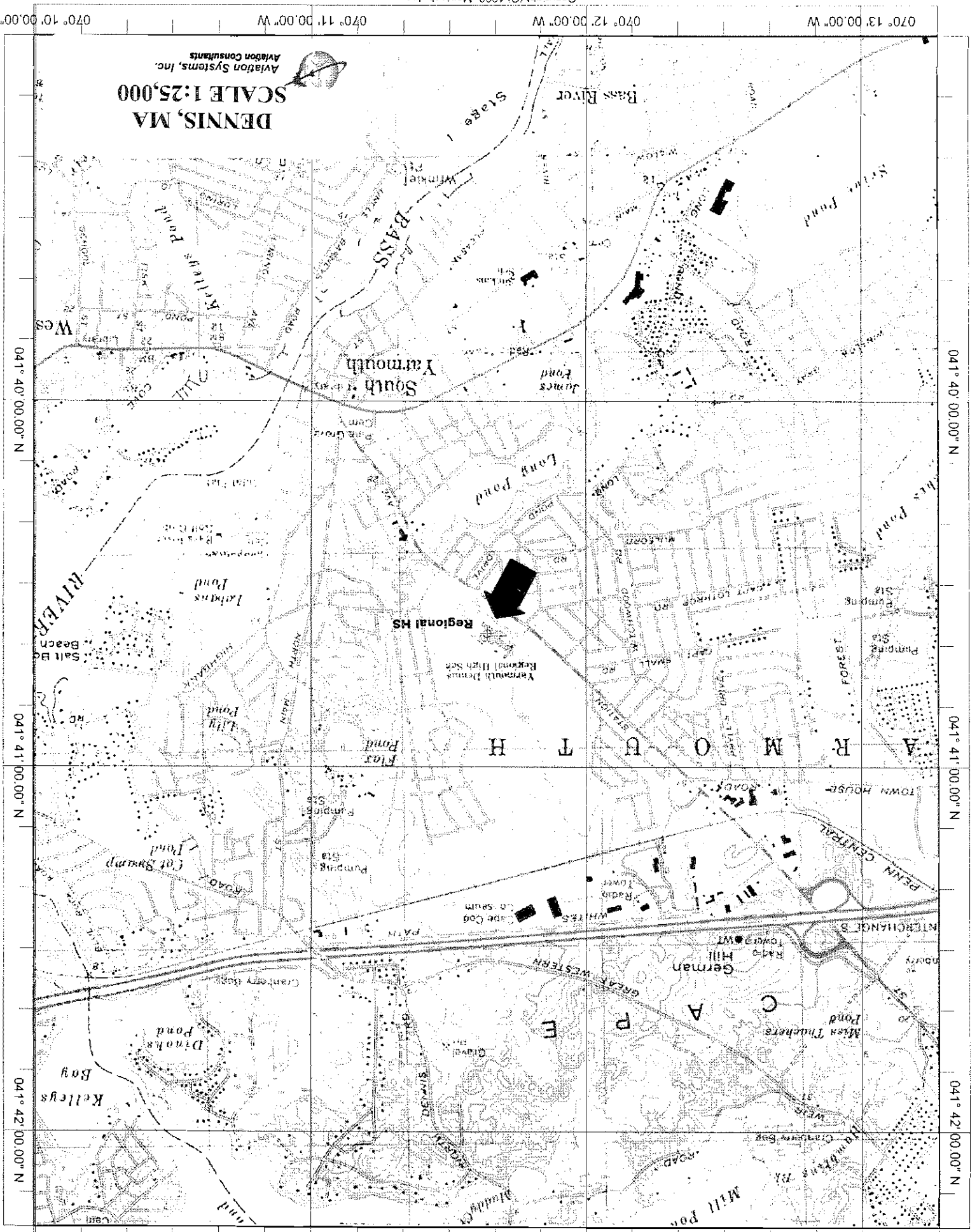
ASI will file with FAA Region and State

Yes

No

DENNIS, MA  
SCALE 1:25,000  
Aviation Systems, Inc.  
Aviation Consultants

Copyright (C) 1998, Maptech, Inc.



070° 10' 00.00" W

070° 11' 00.00" W

070° 12' 00.00" W

070° 13' 00.00" W

041° 40' 00.00" N

041° 40' 00.00" N

041° 41' 00.00" N

041° 41' 00.00" N

041° 42' 00.00" N

041° 42' 00.00" N

070° 10' 00.00" W

070° 11' 00.00" W

070° 12' 00.00" W

070° 13' 00.00" W