December 14, 2001

Carl Huie
Federal Communications Commission
Experimental Licensing Branch
(202)418-2430

Dear Mr. Huie:

Following please find the WIDAX Corporation request for a Special Temporary Authority (STA). This experimental license is needed to test the radio service of newly developed wireless Internet access equipment for use within the 3.4 to 3.5 GHz range.

NAME AND ADDRESS:
WIDAX Corporation
269 Stevens Street
Hyannis, MA 02601

NEED FOR SPECIAL ACTION:
WIDAX Corporation has developed a Point to Multipoint (PMP) Orthogonal Frequency Division Multiplexing (OFDM) and Wideband Code Division Multiple Access (WCDMA) system that is designed to operate at the 3.400 GHz – 3.430 GHz and 3.500 – 3.530 band. The WIDAX system provides broadband bi-directional, wireless, Metropolitan Area Network (MAN), high-speed Internet access capabilities and is designed to eliminate the bottleneck of the last mile Internet connectivity. The system is the first implementation of the impending IEEE 802.16 standard.

Although this frequency band is not in general use in the United States, it has a wide application in Europe, Asia and Latin America. WIDAX requests the STA to enable testing to determine system parameters, data throughput and functionality.

It is the intention of WIDAX Corporation to use these frequencies solely for the testing of equipment that is to be marketed and deployed in foreign markets where the 3.4 GHz to 3.5 GHz band has been allocated for private fixed communication services.

TYPE OF OPERATION TO BE CONDUCTED:
Alpha Test for Point to Multipoint System

PURPOSE OF OPERATION TO BE CONDUCTED:
Testing of the system to determine system parameters, data throughput, and functionality.

TIME AND DATE OF PROPOSED OPERATION:
The span of testing needs to be extensive enough to evaluate the effect of seasonal criteria such as foliage and other climate variants on system performance. Therefore, six months to one year is requested in order to evaluate both multipath and the fading of radio waves through the seasonal changes of deciduous plants.

CLASS OF STATION:
Temporary Fixed Earth Station.

NATURE OF SERVICE:
Domestic High-Speed Fixed Wireless Internet Access

LOCATION OF PROPOSED OPERATION:
Woods Hole Oceanographic Institute (WHOI)
Clark Laboratory, Quisett Campus, Woods Hole Road
Woods Hole, MA 02543

North Latitude: 41 degrees, 32 minutes, 4.4 seconds
West Longitude: 70 degrees, 38 minutes, 50.1 seconds

EQUIPMENT TO BE USED:
Manufacturer: WIDAX
Model:

Alberio	750 base
Jupiter	250 subscriber units

Number of Units: 50

FREQUENCY TO BE USED:
3.400 – 3.430 GHz up-stream
3.500 – 3.530 GHz down-stream

EFFECTIVE RADIATED POWER:
33 dBm

EMISSION TYPE:
OFDM, QAM, plus multi-carrier CDMA

OVERALL HEIGHT ABOVE GROUND OF ANTENNA STRUCTURE: **6 meters**
Ground Level at site: 22 meters Above Sea Level (ASL)
Building Height: 21 meters
Tower Height above building high point: 6 meters.
Total height ASL: 49 meters

Thank you for your consideration in this matter. Please call me should you require any additional information.

Sincerely yours,

James F. Marinelli
Vice President of Operations