

NARRATIVE STATEMENT

Pursuant to Section 5.3(d), (f)-(i) and Section 5.53 of the Commission’s rules, 47 C.F.R. §§ 5.3(d), (f)-(i), 5.53 (2010), the Laufer Wind Group LLC hereby respectfully requests a two-year experimental license to operate in the 9380-9440 MHz band for the purpose of conducting tests in connection with the development of a radar activated FAA obstruction lighting system for wind farms.

The following information is provided in support of this application:

A. Purpose of Operation and Need for License:

The Laufer Wind Group LLC (“LWG”) is a wind energy consulting and engineering firm specializing in new technology evaluations and development. LWG is developing the Aircraft Detection Sight Solution (“ADSS”) to address the competing needs of the wind energy and aviation industries. The ADSS is also designed to balance FAA lighting requirements with the nuisance light concerns of local communities, one of the main impediments to wind energy development in the United States.

B. Location of Proposed Operation:

LWG proposes to conduct tests using fixed and temporarily fixed base station transmitters and associated antennas to be deployed at three locations. The addresses and approximate coordinates of the locations are provided below:

Locations	Coordinates (NAD83)
<u>Location No. 1:</u> 10 Commerce Park N. Bedford, NH 03110	40° 30' 42.6" North Latitude 71° 27' 35.6" West Longitude
<u>Location No. 2:</u> 178 Old Field Rd Setauket, NY 11733	40° 58' 27.4" North Latitude 73° 07' 16.4" West Longitude
<u>Location No. 3:</u> 6 temporarily fixed base stations within a 3 km radius of Calverton Executive Airport Calverton, NY 11933	40° 54' 51.5" North Latitude 72° 47' 42.6" West Longitude

C. Technical Specifications:

1. Frequencies Desired

LWG requests authorization to operate in the 9380-9440 MHz band. The tests will be conducted using channels with bandwidths of 5 to 10 MHz within that band.

2. Effective Radiated Power

All power levels will comply with the limits set forth in the FCC's rules. The base stations will operate with a duty cycle of .001 or less and at a peak effective radiated power ("ERP") level 12.3 kW or less.

3. Modulation and Emissions

LWG proposes to operate without a modulated carrier. The primary emission designators are 5M0P0N and 10M0P0N. Other emission modes may be utilized, but in no event will the emissions extend beyond the frequency band requested.

4. Antenna Information

The antennas will be located outdoors at fixed and temporarily fixed sites identified above. The antenna elevations above ground level will not exceed 31 meters. No antennas will be mounted in a fashion that will require approval under FAA and FCC rules and regulations.

5. Equipment To Be Used

LWG proposes to conduct its tests with a single base station at Location Nos. 1 and 2. At Location No. 3 (the Calverton Executive Airport), LWG proposes to conduct tests with up to six (6) temporarily fixed base stations installed within a radius of approximately 3 km from the coordinates specified at that location: 40° 54' 51.5" North Latitude; 72° 47' 42.6" West Longitude. Moreover, LWG will limit the power, area of operation, and transmitting times to the minimum necessary to evaluate the system.

D. Protection Against Interference:

As noted above, LWG has requested authority to operate in the 9380-9440 MHz band. It will coordinate with any licensees, as required by FCC rules, before commencing operations.

LWG also recognizes that the operation of any equipment under experimental authority must not cause harmful interference to authorized facilities, including the facilities of other experimental licensees in this band. Should interference occur, LWG will take immediate steps to resolve the interference, including if necessary arranging for the discontinuance of its operations.

E. Restrictions on Operation:

LWG is not seeking authority to perform a market study under this experimental license. Moreover, no fees will be charged to entities using the equipment during this test. After the test is completed, LWG will recall and recover all devices that do not comply with FCC regulations.

In addition, LWG will advise entities using the equipment that permission to operate has been granted under experimental authority issued to the Laufer Wind Group LLC, that such operation is strictly temporary, and that the equipment may not cause harmful interference. Entities will also be advised in accordance with Section 2.803 of the Commission's rules, 47 C.F.R. §2.803 (2010), that any unapproved devices have not been authorized as required by the rules of the FCC and are not being offered for sale or lease, or sold or leased, until authorization is obtained.

F. Public Interest Statement:

LWG submits that issuance of an experimental license as requested is in the public interest, convenience, and necessity. Grant of the application will allow LWG to test and demonstrate prototype equipment to enhance the company's efforts to design and develop a solution to address the competing needs of the wind energy industry, the aviation industry, and local communities.

G. Contact Information:

For questions about this application, please contact FCC Counsel to the Laufer Wind Group LLC:

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