

**Laufer Wind Group LLC
Application for Modification
of Experimental License WF2XVD
ELS File No. 0086-EX-ML-2012**

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 ("LWG") hereby respectfully requests a modification to its experimental license granted under call sign WF2XVD and allowing it 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. Specifically, LWG seeks to add a fourth location to its license, so that it may conduct tests at the National Renewable Energy Laboratory – National Wind Technology Center, in Louisville, Colorado.

The following information is provided in support of this application:

A. Purpose of Operation and Need for License:

The Laufer Wind Group LLC 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 Additional Operation:

LWG proposes to conduct tests at an additional site deploying temporarily fixed base station transmitters and associated antennas at the following location:

Additional Location	Coordinates (NAD83)
<u>Location No. 4:</u> 4 temporarily fixed base stations within a 3 km radius of coordinates near National Renewable Energy Laboratory, National Wind Technology Center Louisville, CO 80027	39°54'35.2" North Latitude 105°13'33.7" 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. Moreover, LWG will limit the power, area of operation, and transmitting times to the minimum necessary to evaluate the system.

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 temporarily fixed sites identified above. 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 at this additional site with up to four (4) temporarily fixed base stations installed within a radius of approximately 3 km from the coordinates 39°54'35.2" North Latitude; 105°13'33.72" West Longitude near the National Renewable Energy Laboratory – National Wind Technology Center, in Louisville, Colorado.

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. As noted above, LWG will also limit the power, area of operation, and transmitting times to the minimum necessary to evaluate the system.

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 modification of its experimental license as requested is in the public interest, convenience, and necessity. Grant of the application will allow LWG to expand its tests and demonstration of 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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In the unlikely event interference concerns should arise, please Mr. Laufer at the address below. Mr. Laufer will also serve as the designated point-of-contact (stop buzzer) to terminate transmissions if interference occurs:

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