

PUBLIC INTEREST STATEMENT

1. Introduction

By the instant application (“Application”), Observation Without Limits, LLC (“OWL”) requests that the Commission grant a two year experimental license to permit OWL operate the facilities (the “Facilities”) specified in the instant application.

2. Purpose and Nature of the Operation

OWL, headquartered in Huntsville, Alabama, delivers high-quality, high-value engineering, scientific, and information technology (IT) solutions to customers within the U.S. government and a range of other market segments. OWL delivers the "Power of Solutions," providing complete lifecycle analysis, engineering, and hardware, to support customer missions.

As a general matter, this experimental license is requested to support an OWL Internal Research and Development (IRAD) project to develop, test and validate a ground surveillance radar. Additional confidential information regarding the purpose and nature of the experiment is contained at Confidential Exhibit 3.

3. Transmitting Equipment

<u>Manufacturer</u>	<u>Model No.</u>	<u>#Units</u>	<u>Experimental</u>
OWL	N/A	10	YES

4. Waiver of Station ID Requirement

Waiver of the Station ID rules set forth at Section 5.115 is respectfully requested.

5. Beamwidth/Orientation

A “No” reply has been inserted with respect to the question “Is a directional antenna (other than radar) used?” because the transmitter is a radar device. For the purposes of full disclosure, however, the following additional directionality information is provided:

Width of beam in degrees at the half power point:	Azimuth: 120 deg, elevation: 20 deg
Orientation in horizontal plane:	Any orientation relative to North
Orientation in vertical plane:	Fixed at 0 deg; level with horizon

6. Reply to Antenna Height Question

A “Yes” reply has been inserted with respect to the question “Will the antenna extend more than 6 meters above the ground...” because the antenna height will be no more than 15.4 m above the ground to tip. Because the license requests authority to operate throughout the United States, the elevation of an antenna site/distance to nearest aircraft landing area/shielding will vary depending on the specific location of operation. The figures provided on FCC Form 442 represent elevation/distance/shielding figures for OWL’s campus location at Huntsville, Alabama, as an example.

7. Interference Mitigation

OWL is well aware of its obligations under Part 5 of the Commission’s rules to avoid interference to co-channel licensees in non-experimental services, and will take all steps to ensure compliance with this obligation. With respect to interference mitigation, OWL understands that FAA (or other government stakeholders) may restrict radiation to certain azimuth and/or elevation sectors in order to ensure that the proposed Facilities do not pose a threat of interference to adjacent emitters. Accordingly, this is to confirm that the subject radar device can be manually pointed to specific directions to mitigate interference and that OWL stands ready to work with FAA (or other government stakeholders) to identify any reasonably necessary orientation or power restrictions for the system, and OWL would similarly be available to coordinate any reasonable time of day/duration of transmission requirements specified by stakeholders.

8. Stop Buzzer.

OWL advises that the following will be available by wireless telephone and will act as “stop buzzers” if any issues regarding interference arise during testing:

Tom Gates at 256-651-3441 and Joel Simoneau at 256-744-4514

For the foregoing reasons, OWL respectfully submits that approval of this Application is in the public interest, convenience and necessity.