

PUBLIC INTEREST STATEMENT**1. Introduction**

Laurel Technologies Partnership (“Laurel Technologies”) respectfully requests that the Commission grant Special Temporary Authority (“STA”) to permit Laurel Technologies to operate at the location specified in the application.

2. Purpose and Nature of the Operation

Laurel Technologies is a State of the Art Radar Test and Integration facility, and is a leading supplier of networked and integrated sensor control systems for military and homeland security missions. Laurel Technologies incorporates dynamic technologies in command, control, computing, and communications to provide new approaches for seamless homeland security, homeland defense, and military operations. The company’s solutions for force protection, and ship self-defense incorporate virtually undetectable radar, day/night video and a multi-sensor tracking system to provide highly accurate detections and tracking of targets. Designed and built for border, coastal/port defense, and surveillance, the systems automatically identify and classify moving ground and shallow-water targets, contributing to national security objectives to safeguard borders, littoral regions and valuable assets from terrorist acts.

The requested STA will permit ground-based operations in support of the implementation of the following government contract:

Contract No.: W15P7T-11-C-D602
Agency/Customer: CECOM (Us Army)
POC: Myrle Sampson 443-395-3919

The planned testing will consist of specific periods during which the transmitting equipment will be activated and will radiate low level electromagnetic energy towards targets of interest on the ground or towards water borne vessels afloat within range of the respective systems. The data received from the radars as well as images from cameras which form part of the systems will be observed and analyzed. These systems, like many manufactured by Laurel Technologies, are part of the currently fielded larger detection and surveillance technology base which protects the homeland and the war fighter domestically and abroad.

3. Transmitting Equipment

Description/Manufacturer	Model	Quantity	Experimental? Yes/No
Squire Radar/DRS Technologies	Squire	1	Y
Scout Radar/DRS Technologies	Scout Mk2PCR	1	Y

4. Interference Mitigation

Laurel Technologies 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, Laurel Technologies advises as follows:

- Operation of the requested facilities will not be continuous. Rather, authority for only sporadic operation of the facilities is requested during the authorized timeframe. The transmitters will be radiating low levels of RF power while viewing targets of interest. Average levels will be no more than 100mW, transmitting for a few hours per day. In the off state, no measurable power will be radiated. In fact, there may be extended periods of non-operation during the authorized period, while other non-RF transmission aspects of the experiment are conducted.
- Both SCOUT and SQUIRE radars operate at a fixed frequency within the specified bands. These frequencies are set at the factory. The bandwidth of each radar is 50 MHz. At any given time, the applicant intends to operate on only one frequency within each of the two bands (9.2-9.5 GHz and 9.9-10.4 GHz) during the experiment, with the specified 50 MHz bandwidth.
- Laurel Technologies understands that FAA (or other stakeholders) may require certain limited azimuth and/or elevation blanking 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 has such blanking capabilities and that Laurel stands ready to work with FAA to identify any reasonably necessary azimuth and/or elevation restrictions for the system.

5. Stop Buzzer

Laurel Technologies advises that the following will be available by wireless telephone and will act as a "stop buzzer" if any issues regarding interference arise during testing:

Jim Kijesky – (727) 331-9729

For the foregoing reasons, Laurel Technologies respectfully submits that approval of this application is in the public interest, convenience and a necessity.