

PUBLIC INTEREST STATEMENT**1. Introduction**

DRS C3 & Aviation Company (DRS C3&A) respectfully requests that the Commission grant an experimental Special Temporary Authority (STA” to permit DRS C3&A to operate at the location specified in the application.

2. Purpose and Nature of the Operation

DRS C3&A is a world leader in Naval display consoles and is a leading supplier of networked and integrated sensor control systems for military and homeland security missions. DRS C3&A 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, undersea warfare 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 purpose of this experiment is to provide on-the-air demonstrations of the Squire radar system for potential customers, for ultimate use overseas. 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. These systems, like many manufactured by DRS C3&A, 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

4. Interference Mitigation

DRS C3&A 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, DRS C3&A 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.
- The SQUIRE radar operates at a fixed frequency within the specified band. The frequency is set at the factory. The bandwidth of the radar is 50 MHz. At any given time, the applicant intends to operate on only one frequency within the band (9.9-10.4 GHz) during the experiment, with the specified 50 MHz bandwidth.
- DRS C3&A 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 DRS C3&A stands ready to work with FAA to identify any reasonably necessary azimuth and/or elevation restrictions for the system.

5. Stop Buzzer

DRS C3&A 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:

Don Carlson – Cell: (610) 202-5945

For the foregoing reasons, DRS C3&A respectfully submits that approval of this application is in the public interest, convenience and a necessity.