

PUBLIC INTEREST STATEMENT

1. Introduction

DRS Signal Solutions, Inc. (“DRS SSI”) respectfully requests that the Commission grant an experimental Special Temporary Authority (“STA”) to permit DRS SSI to operate at the location specified in the application.

2. Purpose and Nature of the Operation

DRS SSI, headquartered in Gaithersburg, MD, is world leader in high-performance Signals Intelligence (SIGINT) tuners and receivers covering frequency ranges from HF through SHF, data recording & collection, software definable radios, and geo-convergence systems. The company has served the Intelligence Community for more than fifty years, with cutting edge Size, Weight, And Power (SWAP) reduction, world class microwave technology, and tools to search, intercept, analyze, and record signals.

The purpose of this experiment is to demonstrate the performance of DRS SSI’s Transceiver under data/voice transmission and detection in a real world environment. This experiment will help to identify potential pitfall in the design and lead to corrective actions before the product is released to production.

DRS SSI respectfully requests waiver of the Station ID rule.

3. Transmitting Equipment

Manufacturer	Model	Quantity	Experimental? Yes/No
DRS SSI	SI-8649A/PF/S3B25L1T6	1	Yes
DRS SSI	SI-8649A/S3B25X60T6	1	Yes
DRS SSI	SI-3249A	1	Yes
Spectrum Microwave, Inc.	Amplifier - QBS-544 (1 – 30MHz)	1	No
Spectrum Microwave, Inc.	Amplifier - QBS-559 (20 – 800MHz)	1	No
Spectrum Microwave Inc	Amplifier - QBS-560 (800 – 2500MHz)	1	No
Spectrum Microwave, Inc	Amplifier - QBS-561 (2500 – 6000MHz)	1	No
A.H. Systems, Inc	Antenna - SAS-550-1B (0.009 – 60MHz)	1	No
A.H. Systems, Inc	Antenna - SAS-545 (30 – 1000MHz)	1	No
PCTEL	Antenna - PCTUWB-W (698–6000MHz)	1	No

4. Interference Mitigation

DRS SSI 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 SSI 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 25W, 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.

5. Stop Buzzer

DRS SSI 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:

Gaithersburg MD Operations – Song Phommachanh – 240-644-3867

Cary, NC Operations – Clark Pope – 919-815-7345

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