

PUBLIC INTEREST STATEMENT

1. Introduction

By the instant application (“Application”), DRS Training & Control Systems, LLC (a limited liability company) requests that the Commission grant a two year experimental license to permit DRS TCS to operate the facilities (the “Facilities”) specified in the instant application.

2. Purpose and Nature of the Operation

This particular experiment will involve the creation of signals for electronic warfare testing. This will benefit the warfighter by creating a part of the infrastructure needed to test advanced radar warning receivers, thus helping to advance the state of the art of such equipment, which is critical to the safety of our military pilots.

The operations under this license will be associated with the following government contract:¹

Customer/Agency:	U.S. Air Force
Contract #:	FA8240-13-C-2002
POCs:	US Gov’t: Denis Sullivan, Program Manager (800-779-0526 X58888) DRS Chris Vignali, Program Manager (850-302-3320)

DRS TCS will advise the Commission of future contracts associated with this experiment as they are awarded.

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

It is noted that geographic coordinates set forth in the Application are provided based on measurements in WGS84 format. It is the applicant’s understanding that NAD83 is a subset of World Geodetic System of 1984 (WGS84) and for mapping and charting purposes the commission considers NAD83 and WGS84 to be equivalent. If the provision of coordinates in WGS format is unacceptable, the applicant requests that the commission advise as such and the applicant will revise the coordinates as necessary.

¹ As of the date this application was filed, the contract associated with this application was between the U.S. Air Force and DRS Intelligence, Communications, and Avionics Solutions (DRS-ICAS), LLC. The process of contract novation from DRS-ICAS, LLC to DRS TCS is currently underway.

3. **Transmitter Equipment/Types/Pulse Repetition Rates/Orientation**

Manufacturer	Model No.	# Units	Experimental
Applied Systems Engineering, Inc.	177C	3	Yes

Frequency	Transmitter Type	Transmitter Reference	PRR (Pulses Per Second)
5.4-5.8 GHz	Traveling Wave Tube, 90000 Watts	Transmitter A	Up to 100,000
5.4-5.8 GHz	Traveling Wave Tube, 8000 Watts	Transmitter B	Up to 100,000
5.4-5.8 GHz	Traveling Wave Tube, 8000 Watts	Transmitter C	Up to 100,000

Transmitter Reference	Width of Beam in Degrees at Half-Power Point	Orientation in Vertical Plane	Orientation in Horizontal Plane
Transmitter A	1	4.8	0-360°
Transmitter B	68 (Azimuth) 33 (Elevation)	5.3	0-360°
Transmitter C	74 (Azimuth) 39 (Elevation)	5.3	0-360°

4. **Interference Mitigation**

Operation will not be continuous. The transmitters will only be operated on the air for brief periods of time, typically less than one hour at a time. The total amount of radiate time needed is estimated at less than 12 hours.

Radiate times could be coordinated with the Gulf Area Frequency Coordinator at Eglin Air Force Base, Florida.

5. **Stop Buzzer**

DRS TCS hereby advises the Commission that the following personnel will act as “stop buzzers” if any issues regarding interference arise during testing:

Terry Weimer – 850-543-9974
Dan Ehrenhalt – 716-418-0182