

PUBLIC INTEREST STATEMENT

1. Introduction

By the instant application ("Application"), DRS Tactical Systems, Inc. ("DRS") requests that the Commission grant to DRS a two year experimental license to operate the facilities (the "Facilities") specified in the instant Form 442.

2. Purpose and Nature of the Operation

DRS, a wholly owned subsidiary of DRS Technologies, Inc., is a leading designer and manufacturer of ultra-rugged, commercial-off-the-shelf (COTS)-based computers, laptops, workstations, displays, handheld devices and integrated peripheral products for military and industrial markets. The testing conducted at DRS' Melbourne, FL, campus location is a critical part of the manufacture and delivery of military systems provided to the Armed Forces in support of Homeland Security as well as war efforts.

This experiment is to be conducted in furtherance of Internal Research Development (IR&D) activities, the purpose of which is to provide application support and further testing for the equipment in connection with the development efforts on the Gateway system used in the XChange product offering. The testing as requested within this application will consist of 3 nodes, operating at various locations in the Melbourne area. Two nodes will utilize fixed masts at the following locations: Main Building located at 1110 W. Hibiscus Blvd, Melbourne FL; Vehicle Integration Building located at 401 N. Wickham Rd, Suite 143 Melbourne FL. The mobile node will be a High Mobility Multipurpose Wheeled Vehicle ("HMMWV") with a mast. This node will be operating while on the move. Equipment used in this experiment will consist of the Harris Broadband Ethernet Radio attached to a DRS Gateway System. This system will greatly increase the functionality of the military and commercial entities by providing complex gateway functionality while on the move.

Fixed and Mobile transmissions will be conducted, as follows:

Fixed Transmissions:

Originating from antennas not extending more than 6 meters above the height of supporting structures, located at:

Fixed Site #1 - 28-05-13 N.Lat; 080-38-46 W.Long. (NAD 83)

Fixed Site #2 - 28-06-45 N.Lat; 080-40-19 W.Long. (NAD 83)

Mobile Transmissions:

Mobile transmissions originating from a HUMVEE (High Mobility Multipurpose Wheeled Vehicle) within a 20km radius around the Centerpoint Coordinates of 28-06-45 N.Lat; 080-40-19 W.Long. (NAD83)

3. Directionality of Antennas For Fixed Sites #1 and 2

	Width of Beam in Degrees at Half-Power Point	Orientation in Horizontal Plane (degrees)	Orientation in Vertical Plan (degrees)
Fixed Site #1	60	60	15
Fixed Site #2	4.7		

4. Mitigation of Interference/Stop Buzzer.

DRS is well aware of its obligations under Part 5 of the FCC's rules to avoid interference to co-channel licensees in non-experimental services, and will take all steps to ensure compliance with this obligation. DRS acknowledges that any experimental operations conducted in this band will be on a non-interference basis. However, to the extent DRS will use its best efforts to avoid and minimize interference. Because the equipment is technically incapable of providing identification, DRS respectfully requests a waiver of the station identification of Section 5.115 of the Commissions rules, 47 C.F.R. §5.115

DRS advises that Mark Sullivan will be available by wireless telephone at (321) 258-0059 and will act as a "stop buzzer" if any issues regarding interference arise during testing.

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