

By the instant request (“STA Request”), DRS Technologies ICAS, LLC (“DRS ICAS”) requests that the Commission grant to DRS ICAS a six (6) month Special Temporary Authority (“STA”) to operate the facilities (the “Facilities”) specified in the instant STA Request. A Start Date of September 28, 2012 is respectfully requested.

DRS ICAS is an industry leader in the design, development and production of products and systems for Communications Intelligence (COMINT), Spectrum Management, Satellite Communications and Tactical Military Networks. The testing specified in the instant STA Request 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. For this specific experiment, a 46cm Ka-band (Remote Antenna) will be mounted on a test vehicle. The vehicle will be operated at the DRS Merrimack, NH facility. This 46cm antenna will communicate with a satellite simulator located at the same DRS Merrimack, NH facility. The tests will primarily involve tests of network throughput. NOTE: This experiment involves transmissions into “cold sky” and will not involve use of, or transmission to, a satellite. Accordingly, pursuant to discussions with Commission staff, it is the applicant’s understanding that this filing can be processed and coordinated by the Commission.

Parameter	Remote Antenna (mobile)
Antenna Diameter	46 cm
Antenna TX Gain (@ 31 GHz)	41.0 dBi
Uplink EIRP	52.0 dBW
Antenna 3dB Beamwidth	1.50 degrees
Power at Feed	12.0 W
EIRP Density at Feed	-16.33 dBW/Hz

Directionality Information:

Antenna	Width of Beam in Degrees at half-power point	Orientation in Vertical Plane	Orientation in Horizontal Plane
Ka-46V(mobile terminal)	1.50°	13.0°	37.50°

Mitigation of Interference:

- Operation of the requested facilities will not be continuous. Transmissions will typically last for no longer than 1 hour in duration to conduct the tests. Transmissions will occur between 9am-5pm (EST), Monday-Friday.
- There will be no terrestrial blockage of the transmissions, and there will be a clear line of sight to the terrestrial base satellite simulator.
- DRS ICAS hereby advises that Joseph Natalino, Lead Project Engineer, will be available by wireless telephone at (603) 566-5018 (jnatalino@drs.com) and will act as a “stop buzzer” if any issues regarding interference arise during testing.

NOTE: FAA notification is not required pursuant to Section 17.14(a) of the Commission’s rules because the proposed antennas locations are with existing structures of equal or greater height.