April 27, 2010

William H. Roeting, CAPT, USN (Ret)
USJFCOM JBAIIC Test Director and NPS Principal Investigator
The Naval Postgraduate School (NPS)
1 University Circle
Monterey, CA 93943

Federal Communications Commission
Office of Engineering and Technology
445 12th St SW
Washington, DC 20554

Re: X-Band Antenna Testing

To whom it may concern:

As the Test Director and NPS Principal Investigator for the USJFCOM sponsored Joint Battlespace Awareness ISR Integration Capability (JBAIIC) Test Bed, I support the testing of the X-Band SATCOM network in the manner specified below. The testing of this X-Band network, including the Communications-On-The-Move (COTM) technology, will support risk reduction for several of the technology initiatives that fall within the purview of the JBAIIC ISR Test Bed. The applicable mission includes the development and potential deployment of a robust SATCOM network for mobile satellite communications for Operation Enduring Freedom (OEF).

The testing will evaluate the DRS *X46-V SATCOM* terminal which is being proposed as a COTM solution for the OEF network.

The commercial companies participating in the testing are:

- DRS ICAS, LLC: *X46-V SATCOM Terminal* and *4.8m Ground Station* (HUB)
- DRS Defense Solutions: Network Operations Support
- XTAR, LLC: Providing X-Band Satellite capacity

The testing is expected to be conducted in phases using X-band capacity from the XTAR-LANT (Hispasat) spacecraft that orbits at 30° West in the following frequencies:

- Uplink Frequency Range: 7.9 to 8.4 GHz
- Downlink Frequency Range: 7.25 to 7.75 GHz

The network will include two antennas:

- DRS ICAS, LLC *X46-V SATCOM Terminal* system located on a mobile remote (vehicle mount) in the Herndon, VA area
- DRS ICAS, LLC *4.8M Ground Station* located at DRS in Merrimack, NH

The testing is expected to be conducted in phases that include testing with stationary systems and testing with mobile remote systems.

The commercial companies participating in the test are responsible for:

- Acquiring all applicable licenses for this testing
- Providing all required technical and other documentation
- Completing and delivering all applicable reporting
- Providing all RF Technical analysis, such as, but not limited to, link budgets, antenna patterns, etc.

It is our understanding that DRS ICAS, LLC, DRS Defense Solutions, and XTAR, LLC (collectively the "Contractor Team") agree to release, defend, indemnify and hold harmless the United States Federal Government, its agent and representatives, and each of their respective directors, officers, an employees from and against any and all losses, claims, demands, causes of action, liabilities and expenses (including attorneys fees and costs) arising out of or relating to the Contractor Team causing harmful interference relating to antenna demonstrations in the X-Band frequencies, as well as operation outside the scope of issued licensed by the Federal Communications Commission and the National Telecommunications Association.

In summary, while the TBD (DOD organization) cannot endorse the specific vendors or technologies involved in the testing described above, we believe that the testing will provide valuable research information for our specific mission and will advance the COTM technology for the industry as a whole. As such, we believe that the testing described in this letter is a legitimate use of X-Band frequencies.

For further information, please contact:

NAME:	Mr. Joseph Natalino
DEPT:	Program Manager, Communications Systems
Organization:	DRS ICAS
Phone:	(603) 566-5108
Email:	jnatalino@drs-ds.com

Sincerely,

William H. Roeting, CAPT, USN (Ret)
JBAIIC Test Director and NPS Principal Investigator