

**NORTHROP GRUMMAN SPACE TECHNOLOGY**

*Paul Wulff*

*Radio Systems*

*One Rancho Carmel, RC2/2685*

*San Diego, CA 92128*

*858-592-3296*

**Email: paul.wulff@ngc.com**

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Federal Communications Commission  
Experimental Radio Services  
P.O. Box 358320  
Pittsburgh, PA 15251-5320

Dear Sir or Madam:

Northrop Grumman Space & Mission Systems Corp. ("Northrop Grumman Space Technology" or "NGST") hereby requests a grant of Special Temporary Authority ("STA") to operate airborne mobile and fixed-ground experimental radio station facilities, as detailed below, for a period beginning on November 1, 2006, and ending on April 30, 2007. Northrop Grumman Space Technology requests this STA in order to test and demonstrate a Wideband Networking Waveform ("WNW") digital command and control network for a customer in support of the Airborne and Maritime/Fixed Station Joint Tactical Radio System (AMF JTRS), Contract Number: FA8709-04-C-0011. The Federal Aviation Administration ("FAA"), through the FAA's Southwest Regional Office, has conditionally approved the proposed operations that NGST is requesting herein under coordination number ASW06-1799.

The proposed airborne mobile experimental facility will utilize a NGST Radio Systems, model number 000-00-0001, transmitter with a omnidirectional antenna, operating at 1,378 MHz, with a maximum ERP of 100.0 Watts and a data rate of 2 MB per second. The emission designator is 3M00G1D, and the bandwidth will not to exceed 3 MHz. The airborne transmitter will be mounted on an aircraft, flying at a minimum altitude of 3,050 meters and a maximum altitude of 6,100 meters, within a 60 kilometer radius around a centerpoint of 32-40-00.0 N, 097-05-53.0 W (Arlington Municipal Airport, Arlington, Tarrant County, Texas).

The proposed fixed-ground facility will transmit from 600 E. Interstate 20 East, Arlington Municipal Airport, Arlington, Tarrant County, Texas (32-40-00.0 N, 097-05-53.0 W) with an omnidirectional antennae that will be positioned at ground level with a height of 2.0 meters AGL and an elevation of 190 meters ASL.

The fixed ground station will utilize a NGST Radio Systems, model number 000-00-0001, transmitter operating at 1,378 MHz, with a maximum ERP of 100.0 Watts and a data rate of 2 MB per second. The emission designator is 3M00G1D, and the bandwidth will not to exceed 3 MHz.

I certify that I am an authorized employee of Northrop Grumman Space Technology & Mission Systems Corp.

Respectfully submitted,  
NORTHROP GRUMMAN SPACE &  
MISSION SYSTEMS CORP.

By: Paul Wulff  
Paul Wulff  
*Manager, Specialty Engineering*