

**NORTHROP GRUMMAN SPACE TECHNOLOGY**

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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 an 180-day extension of the grant of Special Temporary Authority ("STA") under Call Sign WC9XWF (File No. 0045-EX-ST-2007), which authorizes NGST to operate airborne mobile and fixed-ground experimental radio station facilities until April 11, 2006 in order to demonstrate a Wideband Networking Waveform ("WNW") digital command and control network for the U.S. Army at the Yuma Proving Grounds in Arizona. NGST must coordinate with the multiple parties and schedules in order undertake the demonstrations and the delay in the Commission's grant of the STA has caused scheduling problems. NGST is seeking a full 180-day extension of the STA only out of an abundance of caution in case it encounters further scheduling issues for the demonstrations, but expects to be able to conclude its demonstrations in a few months.

The Federal Aviation Administration ("FAA"), through the FAA's Western-Pacific Regional Office, has conditionally concurred under temporary coordination assignment NG T070139 to the operations under the STA. NGST has request extension of the temporary coordination assignment from the FAA.

Under the STA, the 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 32-50-15.74 N, 114-23-22.62 W (U.S. Army Yuma Proving Grounds, Yuma, Arizona).

The fixed-ground facility will transmit from U.S. Army Yuma Proving Grounds, Yuma, Arizona (32-50-15.74 N, 114-23-22.62 W) with an omnidirectional antennae that will be positioned at ground level with a height of 6.0 meters AGL and an elevation of 98 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 & Mission Systems Corp.

Respectfully submitted,  
NORTHROP GRUMMAN SPACE &  
MISSION SYSTEMS CORP.

By: Paul Wulff  
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