

**NORTHROP GRUMMAN DEFENSE MISSION SYSTEMS, INC.**  
**Defense Mission Systems Division**  
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June 30, 2006

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

Dear Sir or Madam:

Northrop Grumman Defense Mission Systems, Inc. ("Northrop Grumman") hereby requests a 180-day grant of Special Temporary Authority ("STA"), beginning on July 17, 2005, to operate a fixed/base and airborne mobile experimental radio system at and around the following area of operation:

- An altitude of 18,288 meters within an 148 kilometer radius around Marine Corp Air Station Miramar (San Diego County), California (NAD-83 coordinates: 32-51-39 N. and 117-08-41 W.).

The proposed airborne mobile experimental transmissions will utilize 8 Qualcomm, model QSEC-2700, CDMA transmitters that will produce a maximum output power of 24.84 dBm or 0.303 Watts ERP in the 1850-1865 MHz frequency band with a bandwidth of 1.25 MHz. The emission designator is 1M25F9W.

The proposed fixed/base experimental transmissions will utilize a Qualcomm, CDMA BACN base station transmitter that will produce a maximum output power of 40.82 dBm or 12.08 Watts ERP in the 1930-1945 MHz frequency band with a bandwidth of 1.25 MHz. The emission designator is 1M25F9W. The maximum antenna gain will be 6 dBi.

Northrop Grumman, and its partner, Qualcomm, will coordinate with PCS licensees that may be affected by the experimental operations. Please contact Mr. John Forrester of Qualcomm (Phone: 858-401-9773; Email: [jforrest@qualcomm.com](mailto:jforrest@qualcomm.com)) with any questions regarding these coordination efforts.

This STA request is necessitated by Northrop Grumman's need to resume demonstrations of a Battlefield Airborne Communications Node (BACN) for the U.S. Air Force (Contract No. H94-003-04-D-0005-0002). The Commission had previously granted an STA to Northrop Grumman for the operations proposed herein under Call Sign WC9XKV (File Nos. 0069-EX-ST-2006 and 0078-EX-ST-2006).

I certify that I am an authorized employee of Northrop Grumman Defense Mission Systems, Inc.

Respectfully submitted,  
NORTHROP GRUMMAN DEFENSE MISSION SYSTEMS, INC.

By: \s\ Thomas Adam  
Thomas Adam  
Engineer, Deployment Readiness Group  
System Test and Evaluation