

### **Description of Program and Government Contract Information**

In this application, Northrop Grumman Defense Mission Systems, Inc. ("Northrop Grumman") seeks a grant of a two-year experimental radio station authorization to operate the facilities that Northrop Grumman is currently operating pursuant to the grant of Special Temporary Authority under Call Sign WC9XKV (File Nos. 0500-EX-ST-2006), which will expire on January 16, 2007. Northrop Grumman respectfully request grant of this application on, or before, January 17, 2007. The two-year experimental radio station authorization is necessitated by Northrop Grumman's need to continue demonstrations of a Battlefield Airborne Communications Node (BACN) for the U.S. Air Force (Contract No. H94-003-04-D-0005-0002).

Specifically, the proposed experimental radio station authorization would permit Northrop Grumman 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.