**NORTHROP GRUMMAN CORPORATION**
**Facilities Electronic Systems Services**
**Integrated Systems Sector Western Region**
**3520 East Avenue M, Site 4 (WA00/4T)**
**Palmdale, CA 93550**

August 26, 2008

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

Dear Sir or Madam:

Northrop Grumman Corporation ("Northrop Grumman") hereby requests a 180-day grant of Special Temporary Authority ("STA") to operate an experimental facility to test the transmitter/antenna component of a newly designed Real-time Precision Targeting radar system. Northrop Grumman also respectfully requests expedited processing of this request for STA and action by the Commission on or before October 1, 2008.

Grant of this STA will enable Northrop Grumman to begin its testing as scheduled on October 6, 2008. Northrop Grumman intends to operate the facility at all hours of the day from October 6, 2008 through March 1, 2009.

The proposed experimental radio station will operate on frequencies of 9.140 to 9.790 GHz, with 792W output into a 32.5dB-gain flat plane, horizontally polarized, directional antenna, developing an ERP of 13,200 kW (pep), and rotating 360 degrees. Bandwidth of emission is up to 68 MHz and the emission designator is 68M0Q3N. The experimental station will be located at Northrop Grumman's facility at 2000 NASA Boulevard, Melbourne, Florida (Coordinates: 28-05-55 North; 080-39-00 West). The transmitting antenna will be mounted on a test fixture, with the center of the feedpoint at 6.5 meters AGL. The elevation of the site is 9.14 meters ASL.

I certify that I am an authorized employee of Northrop Grumman Corporation.

Respectfully submitted,
NORTHROP GRUMMAN CORPORATION

By: /s/ Fred Berrong

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