

**NORTHROP GRUMMAN CORPORATION**  
**Facilities Electronic Systems Services**  
**Integrated Systems Sector - Air Combat Systems**  
**3520 East Avenue M, Site 4 (WJ01/46)**  
**Palmdale, CA 93650**

April 29, 2001

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 feasibility of using the Telephonics model APS-143B transmitter for the development of a commercial maritime surveillance radar for uses related to Homeland Defense. Northrop Grumman also respectfully requests expedited processing of this request for STA and action by the Commission on or before May 1, 2002.

Grant of this STA will enable Northrop Grumman to begin its testing as scheduled on May 1, 2002. Northrop Grumman intends to operate the facility at all hours of the day from May 1, 2002 through July 31, 2002.

The proposed experimental radio station will operate on a frequency of 9.48 GHz, with 8.000 kW output into a 32.5dB-gain flat plane, horizontally polarized, directional antenna, developing an ERP of 250 kW, and rotating 360 degrees. Bandwidth of emission is approximately 3 MHz and the emission designator is 3M00P0NAN. 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 rooftop, with the center of the feedpoint at 13.72 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: \_\_\_\_\_

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