

NORTHROP GRUMMAN SYSTEMS CORPORATION

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July 25, 2005

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

Dear Sir or Madam:

Northrop Grumman Systems Corporation ("Northrop Grumman") hereby requests a 180-day grant of Special Temporary Authority ("STA") to operate fixed/base experimental radio facility in Linthicum (Anne Arundel County), Maryland (NAD-27 coordinates 39-11-00 N and 076-41-07 W.)

Northrop Grumman has been contracted by the United States Navy (Contract No. N00019-04-C-0005) to do advanced direction finding (DF) algorithm development for the EA-18G interferometer antenna. Testing is scheduled to commence on or around August 15, 2005.

The experimental transmissions will involve an HP/Agilent model number 8673A signal generator and a Hughes model number 8010H04 amplifier that together will produce 3 W of output power while transmitting at a frequency of 17.25 GHz, with a bandwidth of 100 kHz, and an antenna gain of 15dBi. The emission designator is 100K00F2D.

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

Respectfully submitted,
NORTHROP GRUMMAN SYSTEMS CORPORATION

By: \s\ Jan E. Sochurek. _____
Jan E. Sochurek
Spectrum Licensing Specialist