

NORTHROP GRUMMAN SYSTEMS CORPORATION

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March 23, 2004

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 and airborne mobile experimental radio systems at and around the following two locations:

1. 200 nautical mile radius around Linthicum (Anne Arundel County), Maryland (NAD-83 coordinates 39-11-08 N and 076-41-11 W) and
2. 100 nautical mile radius around Webster Airfield, St. Inigoes (St. Mary's County), Maryland (NAD-83 coordinates 38-08-45 N and 076-25-42 W)

As part of an internal research and development project, Northrop Grumman is required to test an electronically scanned phased array antenna consisting of ground fixed/base and airborne transmitter units. In the future, Northrop Grumman may receive orders for this equipment from the United States government. Testing is scheduled to commence on or about September 1, 2004.

The experimental transmissions at the two locations will involve a Northrop Grumman transmitter that will produce 2kW of average power while transmitting at a frequency range of 8.5 to 9.8 GHz with a bandwidth of 1300 MHz. The antenna has a gain of 36dBi. The emission designator is 1G3F8N.

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

Respectfully submitted,
NORTHROP GRUMMAN SYSTEMS CORPORATION

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