

NORTHROP GRUMMAN SYSTEMS CORPORATION

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November 16, 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 extension of the grant of Special Temporary Authority ("STA") under Call Sign WC9XAT to continue to operate fixed/base and airborne mobile experimental radio systems at and around the following two locations:

1. 500 kilometer radius around Linthicum (Anne Arundel County), Maryland (NAD-83 coordinates 39-11-08 N and 076-41-11 W) and
2. 200 kilometer radius around Webster Airfield, St. Ingoes (St. Mary's County), Maryland (NAD-83 coordinates 38-08-45 N and 076-25-42 W).

In addition, Northrop Grumman requests modification of the STA to operate fixed/base and ground mobile experimental radio system at and around the following additional, third location:

3. 50 kilometer radius around Shelter Cove Airport, Whitehorn (Humboldt County), California (NAD-83 coordinates 40-00-59.7 N and 124-02-38.5 W).

The experimental transmissions at the three locations will continue to involve Northrop Grumman transmitters 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.

The current STA under Call Sign WC9XAT (File No. 0140-EX-ST-2005) will expire on December 1, 2005. Northrop Grumman must continue to test an electronically scanned phased array antenna consisting of ground fixed/base and airborne transmitter units as part of an internal research and development project. In the future, Northrop Grumman may receive orders for this equipment from the United States government

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