

NORTHROP GRUMMAN SYSTEMS CORPORATION

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February 9, 2007

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. 370 kilometer radius around Linthicum (Anne Arundel County), Maryland (NAD-83 coordinates 39-11-08 N and 076-41-11 W) (with a maximum altitude of 3500 meters above mean sea level); and
2. 37 kilometer radius around Sussex County Airport, Georgetown (Sussex County), Delaware (NAD-83 coordinates 38-41-34 N and 075-21-53 W) (with a maximum altitude of 3500 meters above mean sea level).

As part of an internal research and development project, Northrop Grumman is required to test an Unmanned Aerial Vehicle Radar (UAVR) 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 October 1, 2006.

The experimental transmissions at the two locations will involve a Northrop Grumman UAVR that will produce 7kW of average power while transmitting at a frequency range of 16.7 GHz with a bandwidth of 1.2 MHz. The emission designator is 1M2FXX, and the antenna has a gain of 25.5dBi.

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