

NORTHROP GRUMMAN SYSTEMS CORPORATION

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October 26, 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 extension of the grant of Special Temporary Authority ("STA") under Call Sign WB2XWO (File No. 0185-EX-ST-2004) to operate a fixed experimental radio facility at located at 10 Norden Place, Norwalk (Fairfield County), Connecticut (NAD-27 coordinates: 41-06-40 North; 073-23-28 West). The current grant of STA will expire on December 1, 2004.

Northrop Grumman will continue to use the STA to develop and test a radar system, which has been contracted through IRAD funding, that will demonstrate the expected results of Ground Target Moving Indicator (GTMI) mode performance. This experiment, GTMI, is to be done utilizing a Light Weight Array (LWA), part of the Space Based Radar (SBR) prototype. This experiment will be done in conditions where simultaneous radio frequency interference and terrain clutter interference are present.

The experimental transmissions at the location specified above will involve a Northrop Grumman APY-6 radar that will produce 200W average ERP while operating in the 9.1-9.8 GHz band, with a bandwidth of 100 MHz. The emission designator is 100MFXX.

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