

**NORTHROP GRUMMAN SYSTEMS CORPORATION
FACILITIES ELECTRONIC SYSTEMS SERVICES
INTEGRATED SYSTEMS SECTOR - AIR COMBAT SYSTEMS
3520 East Avenue M, Site 4 (WJ01/46)
Palmdale, CA 93650**

January 6, 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 an 180-day extension of the grant of Special Temporary Authority ("STA") under Call Sign WB9XZK (File No. 0475-EX-PL-2004), which will expire on February 15, 2005. The extension of the STA is necessitated by Northrop Grumman's need to continue to test equipment that it is developing for potential future use by the U.S. Department of Defense.

Under the STA extension, Northrop Grumman proposes to continue to operate airborne mobile and fixed ground experimental radio station facilities at and around the following four locations:

- Melbourne (Brevard County), Florida (NAD-83 Coordinates: 28-05-38 N; 080-38-42 W)
- Robins Air Force Base (Houston County), Georgia (NAD-83 Coordinates: 32-38-25 N; 086-35-31 W)
- Hickam Air Force Base (Honolulu County), Hawaii (NAD-83 Coordinates: 21-18-58 N; 157-55-36 W)
- Norfolk (Gloucester County), Virginia (NAD-83 Coordinates: 36-50-09 N; 076-15-01 W)

The airborne mobile and ground fixed-based experimental transmissions will utilize either Raytheon EPLRS RT-ADDSI, RT-1720F9C)/G, P/N A3006978 transmitters with omnidirectional antennas operating at 440.750, 443.750 and 446.750 MHz, with a maximum output power of 100.0W. The emission designator is 6M00G1D. For airborne mobile operations, the transmitter equipment will be mounted on aircraft flying at an altitude of 10,700 meters, within a 335 kilometer radius of around the center point of four locations listed above. Fixed-based operations will take place on buildings and next to aircraft no farther than within a 3 kilometer radius around the center point of four locations listed above

Additional airborne mobile experimental operations will utilize Lockheed Martin model AN/UPQ-3(A) JF-12/06534 transmitters operating at 10,150 to 10,450 MHz with a maximum output of 70.0W and an emission designator of 21M4G1D, and at 9,750 to 9,950 MHz with a maximum output of 50.0W and emission designator of 800KG1D. The transmitters will be mounted on aircraft flying at an altitude of 10,700 meters within a 680 kilometer radius of around the center point of four locations listed above.

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

Respectfully submitted,
NORTHROP GRUMMAN SYSTEMS CORPORATION

By: /s/ Fred Berrong
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