

Description of Experimental Program

Northrop Grumman Systems Corporation ("Northrop Grumman") requests an experimental radio station license to continue to operate airborne mobile and fixed ground experimental radio station facilities at and around the three locations listed below, which Northrop Grumman is currently operating pursuant to a grant of Special Temporary Authority ("STA") under Call Sign WB9XZK (File No. 0444-EX-ST-2005). This application is necessitated by Northrop Grumman's continued need to test equipment that it is developing for potential future use by the U.S. Department of Defense.

- 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)
- 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 a Raytheon EPLRS RTADDSI, 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 the three 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 the three location locations listed above.