

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 four locations listed below, which Northrop Grumman is currently operating pursuant to a grant of Special Temporary Authority ("STA") under Call Sign WB2XCF (File No. 0445-EX-ST-2005). This application is necessitated by Northrop Grumman's continued need to test equipment that it is developing under as part of an internal research and development program for potential sale to customers, including the U.S. military.

1. Linthicum (Anne Arundel County), Maryland (NAD-83 coordinates 39-11-08 N and 076-41-11 W.)
2. Huntsville (Madison County), Alabama (NAD-83 coordinates 34-38-42 N and 086-00-07 W.)
3. Eglin Air Force Base (Okaloosa County), Florida (NAD-83 coordinates 30-39-06 N and 086-31-22 W.)
3. Ridgely Airfield, Ridgely (Caroline County), Maryland (15 km radius around NAD-83 coordinates 38-58-12 N and 075-52-00 W; Maximum Altitude: 3050 m)

The proposed transmissions at the four locations will involve a Northrop Grumman model number 2836112 radar transmitter that will produce 5W of peak power while transmitting at a frequency of 35.5 GHz with a bandwidth of 600 MHz. The emission designator is 6M00FXX, and the antenna has a gain of 25dBi.