

Description of Experimental Program

Northrop Grumman Corporation ("Northrop Grumman") submits the attached Special Temporary Authority ("STA") application to supplement the STA granted by the Commission on October 6, 2008 under Call Sign WD9XOA (File No. 0458-EX-PL-2008), so that equipment may be operated aeronautical mobile at a maximum altitude of 30,000 feet within a 150 mile radius of the fixed location that was previously authorized for that call sign:

Melbourne (Brevard County) Florida - NAD-83 coordinates 28-05-55 N and 80-39-00 W

Northrop Grumman would use this additional authority to test the experimental equipment while airborne. This would be accomplished during four (4) flights, each of which would last three (3) hours and occur between 2300 and 0200 hours local time.

The purpose of this request is to permit testing of the transmitter/antenna component of a newly designed Real-time Precision Targeting radar system. Testing has already commenced on the ground and expedited consideration of this request for airborne testing would be appreciated.