

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

XD FX MO

(Class of Station)

WD9XAI

(Call Sign)

0659-EX-ST-2006

(File Number)

NAME Northrop Grumman Systems Corporation

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

Testing an Unmanned Aerial Vehicle Radar (UAVR) consisting of ground fixed/base and airborne transmitter units.

Station Locations

- (1) Linthicum (ANNE ARUNDEL), MD - NL 39-11-08; WL 76-41-11; MOBILE: Linthicum (ANNE ARUNDEL), MD, airborne, maximum altitude 3500 meters AMSL, within 370 km, centered around NL 39-11-08; WL 76-41-11
- (2) Georgetown (SUSSEX), DE - NL 36-31-34; WL 75-21-53; MOBILE: Georgetown (SUSSEX), DE, airborne, maximum altitude 3500 meters AMSL, within 37 km, centered around NL 36-31-34; WL 75-21-53

Frequency Information

Linthicum (ANNE ARUNDEL), MD - NL 39-11-08; WL 76-41-11; MOBILE: Linthicum (ANNE ARUNDEL), MD, airborne, maxir

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.7 GHz	FX	800MFXX	7 kW (Output Power)	
16.7 GHz	MO	800MFXX	7 kW (Output Power)	

This authorization effective September 10, 2007 and
will expire 3:00 A.M. EST March 11, 2008

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Georgetown (SUSSEX), DE - NL 36-31-34; WL 75-21-53; MOBILE: Georgetown (SUSSEX), DE, airborne, maximum altitude

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.7 GHz	FX	800MFXX	7 kW (Output Power)	
16.7 GHz	MO	800MFXX	7 kW (Output Power)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) Licensee should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (4) NTIA approves the emission 800 MHz for this STA and not 1.2 GHz.