

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

EXPERIMENTAL

(Nature of Service)

WH9XAC

(Call Sign)

XT FX MO

(Class of Station)

0834-EX-ST-2013

(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:

Purpose is to assess feasibility and reliability of using planned powers, antennas, and equipment for video uplinks and downlinks within certain bands of spectrum.

Station Locations

- (1) Melbourne (BREVARD), FL - NL 28-03-36; WL 80-23-24; MOBILE: Melbourne, FL: Max altitude 45,000 ft. AMSL, within 371 km
- (2) Huntsville (MADISON), AL - NL 34-25-52; WL 86-23-37; MOBILE: Huntsville, AL: Max altitude 45,000 ft. AMSL, within 371 km

Frequency Information

Melbourne (BREVARD), FL - NL 28-03-36; WL 80-23-24; MOBILE: Melbourne, FL: Max altitude 45,000 ft. AMSL, within 371 k

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4495 MHz	FX	5M50G7D	5 W (Output Power)	
4495 MHz	MO	5M50G7D	5 W (Output Power)	

This authorization effective October 18, 2013 and
will expire 3:00 A.M. EST April 18, 2014

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Melbourne (BREVARD), FL - NL 28-03-36; WL 80-23-24; MOBILE: Melbourne, FL: Max altitude 45,000 ft. AMSL, within 371 k

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4865 MHz	FX	5M50G7D	5 W (Output Power)	
4865 MHz	MO	5M50G7D	5 W (Output Power)	
5350-5570 MHz	FX	5M50G7D	5 W (Output Power)	
5350-5570 MHz	MO	5M50G7D	5 W (Output Power)	

Huntsville (MADISON), AL - NL 34-25-52; WL 86-23-37; MOBILE: Huntsville, AL: Max altitude 45,000 ft. AMSL, within 371 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4495 MHz	FX	5M50G7D	5 W (Output Power)	
4495 MHz	MO	5M50G7D	5 W (Output Power)	
4865 MHz	FX	5M50G7D	5 W (Output Power)	
4865 MHz	MO	5M50G7D	5 W (Output Power)	
5350-5570 MHz	FX	5M50G7D	5 W (Output Power)	

Frequency Information

Huntsville (MADISON), AL - NL 34-25-52; WL 86-23-37; MOBILE: Huntsville, AL: Max altitude 45,000 ft. AMSL, within 371 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5350-5570 MHz	MO	5M50G7D	5 W (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) Northrop Grumman will coordinate the use of 4495 MHz and 4865 MHz 72 hours in advance with the Gulf Area Frequency Coordinator (GAFC) by calling 850-883-7535 to schedule a time and date.