

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL
(Nature of Service)

WH2XHT
(Call Sign)

XT FX MO
(Class of Station)

0065-EX-CM-2016
(File Number)

NAME Northrop Grumman Systems Corporation

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(j) of the Commission's Rules

Station Locations

- (1) Melbourne (BREVARD), FL - NL 28-05-58; WL 80-37-55; 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
- (3) Palmdale (LOS ANGELES), CA - NL 34-38-37; WL 118-04-18; MOBILE: Palmdale, CA: Max altitude 45,000 ft. AMSL, within 371 km, centered around NL 34-38-37; WL 118-04-18

Frequency Information

Melbourne (BREVARD), FL - NL 28-05-58; WL 80-37-55; 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)	
4865 MHz	FX	5M50G7D	5 W (Output Power)	

This authorization effective February 24, 2017 and
will expire 3:00 A.M. EST October 01, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Melbourne (BREVARD), FL - NL 28-05-58; WL 80-37-55; MOBILE: Melbourne, FL: Max altitude 45,000 ft. AMSL, within 371 k

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

Frequency Information

Palmdale (LOS ANGELES), CA - NL 34-38-37; WL 118-04-18; MOBILE: Palmdale, CA: Max altitude 45,000 ft. AMSL, within 3

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4645 MHz	MO	5M50G7D	5 W (Output Power)	
4645 MHz	FX	5M50G7D	5 W (Output Power)	
4685 MHz	MO	5M50G7D	5 W (Output Power)	
4685 MHz	FX	5M50G7D	5 W (Output Power)	
5350-5570 MHz	FX	5M50G7D	5 W (Output Power)	
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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.