

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

EXPERIMENTAL

(Nature of Service)

WD2XWV

(Call Sign)

XT FX MO

(Class of Station)

0389-EX-CR-2020

(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 28-05-38; WL 80-38-42; MOBILE: Melbourne (BREVARD), FL, airborne at altitude of 10700 meters, within 680 km, centered around NL 28-05-38; WL 80-38-42
- (2) Norfolk (GLOUCESTER), VA - NL 36-50-09; WL 76-15-01; MOBILE: Norfolk (GLOUCESTER), VA, airborne at altitude of 10700 meters, within 680 km, centered around NL 36-50-09; WL 76-15-01
- (3) Mojave (KERN), CA - NL 35-03-25; WL 118-09-16; MOBILE: Mojave (KERN), CA, airborne at altitude of 10700 meters, within 680 km, centered around NL 35-03-25; WL 118-09-16

Frequency Information

Melbourne (BREVARD), FL - NL 28-05-38; WL 80-38-42; MOBILE: Melbourne (BREVARD), FL, airborne at altitude of 10700 m

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
440.75 MHz	MO	6M00G1D	75 W (ERP)	
440.75 MHz	FX	6M00G1D	16 W (ERP)	

This authorization effective July 01, 2020 and
will expire 3:00 A.M. EST July 01, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Melbourne (BREVARD), FL - NL 28-05-38; WL 80-38-42; MOBILE: Melbourne (BREVARD), FL, airborne at altitude of 10700 ft

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
443.75 MHz	MO	6M00G1D	75 W (ERP)	
443.75 MHz	FX	6M00G1D	16 W (ERP)	
446.75 MHz	MO	6M00G1D	75 W (ERP)	
446.75 MHz	FX	6M00G1D	16 W (ERP)	
9750-9950 MHz	MO	800KG1D 6M00G1D	19.5 kW (ERP)	
10150-10450 MHz	MO	21M4G1D 800KG1D 6M00G1D	27 kW (ERP)	

Norfolk (GLOUCESTER), VA - NL 36-50-09; WL 76-15-01; MOBILE: Norfolk (GLOUCESTER), VA, airborne at altitude of 10700 ft

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
440.75 MHz	MO	6M00G1D	75 W (ERP)	
440.75 MHz	FX	6M00G1D	16 W (ERP)	

Frequency Information

Norfolk (GLOUCESTER), VA - NL 36-50-09; WL 76-15-01; MOBILE: Norfolk (GLOUCESTER), VA, airborne at altitude of 10700 meters, within

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
443.75 MHz	MO	6M00G1D	75 W (ERP)	
443.75 MHz	FX	6M00G1D	16 W (ERP)	
446.75 MHz	MO	6M00G1D	75 W (ERP)	
446.75 MHz	FX	6M00G1D	16 W (ERP)	
9750-9950 MHz	MO	800KG1D	19.5 kW (ERP)	
10150-10450 MHz	MO	21M4G1D	27 kW (ERP)	

Mojave (KERN), CA - NL 35-03-25; WL 118-09-16; MOBILE: Mojave (KERN), CA, airborne at altitude of 10700 meters, within

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
440.75 MHz	MO	6M00G1D	75 W (ERP)	
440.75 MHz	FX	6M00G1D	16 W (ERP)	
443.75 MHz	FX	6M00G1D	16 W (ERP)	

Frequency Information

Mojave (KERN), CA - NL 35-03-25; WL 118-09-16; MOBILE: Mojave (KERN), CA, airborne at altitude of 10700 meters, within

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
443.75 MHz	MO	6M00G1D	75 W (ERP)	
446.75 MHz	MO	6M00G1D	75 W (ERP)	
446.75 MHz	FX	6M00G1D	16 W (ERP)	
9750-9950 MHz	MO	800KG1D 6M00G1D	19.5 kW (ERP)	
10150-10450 MHz	MO	21M4G1D 800KG1D 6M00G1D	27 kW (ERP)	

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) 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.
- (3) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) The U.S. Air Force concurs with the Melbourne, FL request strictly on a non-interference basis. Prior to the start of operations, the licensee must provide a stop buzzer POC to Dick Akers at (321) 494-5838.

Special Conditions:

- (5) The U.S. Navy has no objection to frequency use as proposed provided coordination is accomplished with the appropriate DoD Area Frequency Coordinator prior to commencing operation. The appropriate AFCs for each location are as follows:

Station Location:

DoD Area Frequency Coordinator:

Melbourne, FL
Norfolk, VAEastern Area Frequency Coordinator (305) 494-5366
JFMO Lant (757) 836-8006

- (6) Scheduling required prior to commencing operation in Mojave, CA with Area Frequency Coordinator, Nellis AFB, Nevada.
- (7) DURING TRANSMISSION, AIRCRAFT SHALL NOT EXCEED THE ALTITUDE BEYOND 35,100 FEET AGL.