

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

EXPERIMENTAL

(Nature of Service)

XT MO

(Class of Station)

WJ2XSD

(Call Sign)

0412-EX-CN-2018

(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) MOBILE: Palm Bay, FL, within 3.22 km, centered around NL 27-33-38; WL 80-25-23

Frequency Information

MOBILE: Palm Bay, FL, within 3.22 km, centered around NL 27-33-38; WL 80-25-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
77 MHz	MO	100KP0N	360 kW (ERP)	
152 MHz	MO	100KP0N	360 kW (ERP)	
161 MHz	MO	100KP0N	360 kW (ERP)	
174 MHz	MO	100KP0N	360 kW (ERP)	

This authorization effective December 07, 2018 and
will expire 3:00 A.M. EST December 01, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
184 MHz	MO	100KP0N	360 kW (ERP)	
194 MHz	MO	100KP0N	360 kW (ERP)	
205 MHz	MO	100KP0N	360 kW (ERP)	
215 MHz	MO	100KP0N	360 kW (ERP)	
386.629 MHz	MO	100KP0N	360 kW (ERP)	
390.495 MHz	MO	100KP0N	360 kW (ERP)	
392.438 MHz	MO	100KP0N	360 kW (ERP)	
394.4 MHz	MO	100KP0N	360 kW (ERP)	
396.372 MHz	MO	100KP0N	360 kW (ERP)	
398.344 MHz	MO	100KP0N	360 kW (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
502.892 MHz	MO	100KP0N	360 kW (ERP)	
507.921 MHz	MO	100KP0N	360 kW (ERP)	
510.448 MHz	MO	100KP0N 100KP0N 100KP0N	360 kW (ERP)	
513 MHz	MO	100KP0N	360 kW (ERP)	
515.565 MHz	MO	100KP0N	360 kW (ERP)	
518.13 MHz	MO	100KP0N	360 kW (ERP)	
523.311 MHz	MO	100KP0N	360 kW (ERP)	
655 MHz	MO	100KN0N	360 kW (ERP)	
905 MHz	MO	100KP0N	360 kW (ERP)	
1677 MHz	MO	100KP0N	360 kW (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1818.449 MHz	MO	100KP0N	360 kW (ERP)	
1836.634 MHz	MO	100KP0N	360 kW (ERP)	
1845.771 MHz	MO	100KP0N	360 kW (ERP)	
1855 MHz	MO	100KP0N	360 kW (ERP)	
1864.275 MHz	MO	100KP0N	360 kW (ERP)	
1873.55 MHz	MO	100KP0N	360 kW (ERP)	
1892.286 MHz	MO	100KP0N	360 kW (ERP)	
2401.725 MHz	MO	100KP0N	360 kW (ERP)	
2425.743 MHz	MO	100KP0N	360 kW (ERP)	
2437.811 MHz	MO	100KP0N	360 kW (ERP)	

Frequency Information

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2450 MHz	MO	100KP0N	360 kW (ERP)	
2462.25 MHz	MO	100KP0N	360 kW (ERP)	
2474.5 MHz	MO	100KP0N	360 kW (ERP)	
2650 MHz	MO	100KP0N	360 kW (ERP)	
3180 MHz	MO	100KP0N	360 kW (ERP)	
3380 MHz	MO	100KP0N	360 kW (ERP)	
3620 MHz	MO	100KP0N	360 kW (ERP)	
4715 MHz	MO	100KP0N	360 kW (ERP)	
4940 MHz	MO	100KP0N	360 kW (ERP)	
5257.426 MHz	MO	100KP0N	360 kW (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5283.582 MHz	MO	100KP0N	360 kW (ERP)	
5310 MHz	MO	100KP0N	360 kW (ERP)	
5336.55 MHz	MO	100KP0N	360 kW (ERP)	
5363.1 MHz	MO	100KP0N	360 kW (ERP)	
5416.731 MHz	MO	100KP0N	360 kW (ERP)	
8550 MHz	MO	100KP0N	360 kW (ERP)	
8750 MHz	MO	100KP0N	360 kW (ERP)	
8950 MHz	MO	100KP0N	360 kW (ERP)	
9690 MHz	MO	100KP0N	360 kW (ERP)	
12910 MHz	MO	100KP0N	360 kW (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13920.204 MHz	MO	100KP0N	360 kW (ERP)	
14059.406 MHz	MO	100KP0N	360 kW (ERP)	
14129.353 MHz	MO	100KP0N	360 kW (ERP)	
14200 MHz	MO	100KP0N	360 kW (ERP)	
14271 MHz	MO	100KP0N	360 kW (ERP)	
14342 MHz	MO	100KP0N	360 kW (ERP)	
14485.42 MHz	MO	100KP0N	360 kW (ERP)	
14610 MHz	MO	100KP0N	360 kW (ERP)	
14890 MHz	MO	100KP0N	360 kW (ERP)	

Special Conditions:

- (1) Operation requires consent of affected Educational Broadband Service/Broadband Radio Service (EBS/BRS) licensees.
- (2) Operation in the 1850-1910 or 1930-1990 MHz band requires prior frequency coordination with 2 GHz microwave users and consent of PCS licensees to avoid interference.

Special Conditions:

- (3) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (4) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at https://www.sbe.org/sections/freq_local.php to find the appropriate coordinator.
- (5) 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.
- (6) NGSC must notify the following within 80 km of the test area:
Location & Monitoring Service licensees (902-928 MHz)
Paging Service licensees in 152 MHz, and 152 MHz/158 MHz.
- (7) Test is ground to air operations only. The receiver aircraft will be East of Melbourne FL at 43K AGL, 70NM over the ocean. The ground equipment will stay setup fixed at test location.
- (8) Cease Buzzer POC is Spencer Cleveland, 321-951-5660/5522