

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

EXPERIMENTAL
(Nature of Service)

WJ2XHE
(Call Sign)

XC FX MO
(Class of Station)

0034-EX-CM-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(c) of the Commission's Rules

Station Locations

- (1) Linthicum (ANNE ARUNDEL), MD - NL 39-11-08; WL 76-41-11
- (2) MOBILE: Georgetown, DE: Max altitude 18,000 ft MSL, within 350 km, centered around NL 38-41-22; WL 75-21-36
- (3) MOBILE: Holloman AFB, NM: Max altitude 31,000 feet MSL, within 100 km, centered around NL 32-50-36; WL 105-05-57
- (4) MOBILE: Eglin AFB: Max altitude 31,000 feet MSL, within 150 km, centered around NL 29-31-00; WL 86-06-00
- (5) MOBILE: Sierra Vista, AZ: Max altitude 31,000 feet MSL, within 241 km, centered around NL 31-35-18; WL 110-20-40

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.4-10.2 GHz	FX		10.6 MW (ERP)	
		724MQ3N		
		348MQ3N		
		216MQ3N		
		72M0Q3N		

This authorization effective May 14, 2018 and
will expire 3:00 A.M. EST February 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Georgetown, DE: Max altitude 18,000 ft MSL, within 350 km, centered around NL 38-41-22; WL 75-21-36

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9.4-10.2 GHz	MO	724MQ3N 348MQ3N 216MQ3N 72M0Q3N	10.6 MW (ERP)	

MOBILE: Holloman AFB, NM: Max altitude 31,000 feet MSL, within 100 km, centered around NL 32-50-36; WL 105-05-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.4-10.2 GHz	MO	724MQ3N 348MQ3N 216MQ3N 72M0Q3N	10.6 MW (ERP)	

MOBILE: Eglin AFB: Max altitude 31,000 feet MSL, within 150 km, centered around NL 29-31-00; WL 86-06-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.4-10.2 GHz	MO	724MQ3N 348MQ3N 216MQ3N 72M0Q3N	10.6 MW (ERP)	

MOBILE: Sierra Vista, AZ: Max altitude 31,000 feet MSL, within 241 km, centered around NL 31-35-18; WL 110-20-40

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.4-10.2 GHz	MO	724MQ3N	10.6 MW (ERP)	

Frequency Information

MOBILE: Sierra Vista, AZ: Max altitude 31,000 feet MSL, within 241 km, centered around NL 31-35-18; WL 110-20-40

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9.4-10.2 GHz	MO	348MQ3N 216MQ3N 72M0Q3N	10.6 MW (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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by Department of Defense contract no. W15P7T-10-D-D408-KZ01. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (4) Operations must be scheduled as a WSMR range mission through the 586flts Det 1, who is the test liaison between Holloman AFB and WSMR. Final authorization to radiate is contingent upon successful scheduling and deconfliction of both spectrum and airspace, with other area wide operations.
- (5) Testing is within Eglin AFB controlled airspace areas R2914 and R2915, the Tindall AFB areas, and the off-shore warning area W151 at Eglin.