

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

EXPERIMENTAL
(Nature of Service)

WI2XAD
(Call Sign)

XT FX MO
(Class of Station)

0177-EX-CR-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) Linthicum (ANNE ARUNDEL), MD - NL 39-11-09; WL 76-41-11
- (2) MOBILE: Georgetown, DE: Airborne, max altitude 31,000 ft MSL, within 371 km, centered around NL 38-41-33; WL 75-21-43
- (3) MOBILE: Eglin Air Force Base, FL: Max altitude 31,000 feet MSL, within 186 km, centered around NL 29-35-22; WL 85-54-12
- (4) MOBILE: China Lake, CA: Max altitude 31,000 feet MSL, within 186 km, centered around NL 35-41-14; WL 117-41-16
- (5) MOBILE: Holloman, NM: Max altitude 31,000 feet MSL, within 139 km, centered around NL 32-51-17; WL 106-06-51
- (6) Hanover (ANNE ARUNDEL), MD - NL 39-11-10; WL 76-42-11
- (7) MOBILE: Dugway, UT: Max altitude 31,000 feet MSL, within 140 km, centered around NL 40-13-15; WL 112-44-40

Frequency Information

Linthicum (ANNE ARUNDEL), MD - NL 39-11-09; WL 76-41-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
33.8 GHz	FX	800MQ3N 40MQ3N	2.3 MW (ERP)	

This authorization effective June 01, 2018 and
will expire 3:00 A.M. EST June 20, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Georgetown, DE: Airborne, max altitude 31,000 ft MSL, within 371 km, centered around NL 38-41-33; WL 75-21-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
33.4-36 GHz	MO	800MQ3N 40M0Q3N	2.3 MW (ERP)	

MOBILE: Eglin Air Force Base, FL: Max altitude 31,000 feet MSL, within 186 km, centered around NL 29-35-22; WL 85-54-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
33.4-36 GHz	MO	40M0Q3N 800MQ3N	2.3 MW (ERP)	

MOBILE: China Lake, CA: Max altitude 31,000 feet MSL, within 186 km, centered around NL 35-41-14; WL 117-41-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
33.4-36 GHz	MO	40M0Q3N 800MQ3N	2.3 MW (ERP)	

MOBILE: Holloman, NM: Max altitude 31,000 feet MSL, within 139 km, centered around NL 32-51-17; WL 106-06-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
33.4-36 GHz	MO	40M0Q3N 800MQ3N	2.3 MW (ERP)	

Frequency Information

Hanover (ANNE ARUNDEL), MD - NL 39-11-10; WL 76-42-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
33.8 GHz	FX	800MQ3N 40M0Q3N	2.3 MW (ERP)	

MOBILE: Dugway, UT: Max altitude 31,000 feet MSL, within 140 km, centered around NL 40-13-15; WL 112-44-40

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
33.4-36 GHz	MO	40M0Q3N 800MQ3N	2.3 MW (ERP)	

Special Conditions:

- (1) Subject to coordination with the Area Frequency Coordinator located at White Sands Missile Range, New Mexico, prior to use in the State of New Mexico or other U. S. Territory within a 150 mile radius of WSMR plus the area of Utah and Colorado that lies South of 41 degrees North and between 108 degrees and 111 degrees West. Phone: 505-678-5417 or 3702.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) The station identification requirements of Section 5.115 of the Commission's Rules are waived.