

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

EXPERIMENTAL

(Nature of Service)

WQ2XNZ

(Call Sign)

XC FX MO

(Class of Station)

0395-EX-CN-2026

(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 Heights (ANNE ARUNDEL), MD - NL 39-12-21; WL 76-40-53; MOBILE: ,
within 1 km, centered around NL 39-12-21; WL 76-40-53

Frequency Information

Linthicum Heights (ANNE ARUNDEL), MD - NL 39-12-21; WL 76-40-53; MOBILE: , within 1 km, centered around NL 39-12-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27500-29100 MHz	FX	160MG7D	611203 W (ERP)	0.00005 %
27500-29100 MHz	MO	160MG7D	611203 W (ERP)	0.00005 %
29250-30000 MHz	FX	160MG7D	611203 W (ERP)	0.00005 %
29250-30000 MHz	MO	160MG7D	611203 W (ERP)	0.00005 %

This authorization effective July 21, 2026 and
will expire 3:00 A.M. ET August 01, 2028

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (1) Prior to equipment authorization or a determination of compliance, the device must be accompanied by a conspicuous notice worded as follows: "This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained."
- (2) The occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) Experimental licensee must coordinate with all the Upper Microwave Flexible Use Service licensees in each signal source area prior to commencing experimental operations.
- (4) Experimental licensee must coordinate with all the Fixed Microwave Service licensees in the proposed venues prior to operation in the frequencies from 27.5 GHz to 29.1 GHz.
- (5) The stop buzzer contact for this experimental authorization will be William Gammon, (858) 514-9784, William.gammon@ngc.com.
- (6) Northrop Grumman Systems Corporation is authorized to conduct uplink testing of its Ka-band satellite earth station antenna located within a 1.0 km radius of geographical coordinates 39° 12' 21" N, 76° 40' 53" W in Linthicum Heights, MD to communicate with the SES-17 (S3043) satellite using the 27.5 - 29.1 GHz and 29.25 - 30.0 GHz frequency bands (Earth-to-space).
- (7) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by Air Force Research Laboratory (AFRL) Contract # FA8650-23-C-9313. 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.