

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

EXPERIMENTAL

(Nature of Service)

XC FX

(Class of Station)

WK2XNE

(Call Sign)

0532-EX-CR-2021

(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 & jb) of the Commission's Rules

Station Locations

- (1) Linthicum (ANNE ARUNDEL), MD - NL 39-11-09; WL 76-41-11
- (2) Hanover (ANNE ARUNDEL), MD - NL 39-11-06; WL 76-42-22

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3-3.5 GHz	FX	2M00Q1N 50K0P0N 200MQ3N	385 kW (ERP)	
5.5-5.9 GHz	FX	2M00Q1N 50K0P0N 200MQ3N	615 kW (ERP)	
6.425-7.1 GHz	FX	2M00Q1N 50K0P0N	615 kW (ERP)	

This authorization effective November 01, 2021 and
will expire 3:00 A.M. EST November 01, 2023

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6.425-7.1 GHz	FX	200MQ3N	615 kW (ERP)	
7.25-7.9 GHz	FX	2M00Q1N 50K0P0N 200MQ3N	770 kW (ERP)	

Hanover (ANNE ARUNDEL), MD - NL 39-11-06; WL 76-42-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3-3.5 GHz	FX	2M00Q1N 50K0P0N 200MQ3N	385 kW (ERP)	
5.5-5.9 GHz	FX	2M00Q1N 50K0P0N 200MQ3N	615 kW (ERP)	
6.425-7.1 GHz	FX	2M00Q1N 50K0P0N 200MQ3N	615 kW (ERP)	
7.25-7.9 GHz	FX	2M00Q1N 50K0P0N 200MQ3N	770 kW (ERP)	

Special Conditions:

- (1) 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.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at <http://sbe.org/wp-content/uploads/freqcoor.pdf> to find the appropriate coordinator.
- (4) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by Defense MicroElectronic Activity Contract Number HQ0727-16-D-0004. 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.
- (5) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (6) Experimental licensee must successfully coordinate with the local Society of Broadcast Engineers frequency coordinator in the corresponding proposed venue prior to operation in 6.425-7.1 GHz band.
- (7) Experimental licensee must successfully coordinate with the Fixed Microwave Service licensees in the proposed area in accordance with 47 C.F.R, Part 101.103(d) prior to operation in 6.425-7.1 GHz band.