

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

EXPERIMENTAL

(Nature of Service)

WH2XFY

(Call Sign)

XC FX MO

(Class of Station)

0308-EX-CR-2017

(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 39-11-06; WL 76-41-10
- (2) MOBILE: Georgetown, DE: Max altitude 17,000 ft MSL, within 56 km, centered around NL 38-41-20; WL 75-21-30
- (3) MOBILE: Charlottesville, VA: Max altitude 17,000 ft MSL, within 56 km, centered around NL 38-08-22; WL 78-27-09
- (4) MOBILE: Ft. Eustis, VA: Max altitude 17,000 ft MSL, within 150 km, centered around NL 37-09-34; WL 76-34-31
- (5) MOBILE: Lakehurst, NJ: Max altitude 17,000 feet MSL, within 80 km, centered around NL 40-02-12; WL 74-22-16

Frequency Information

Linthicum (ANNE ARUNDEL), MD - NL 39-11-06; WL 76-41-10

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
92.1-94.8 GHz	FX		598 kW (ERP)	
		107MQ3N		
		733MQ3N		
		1G42Q3N		
		156MP0N		
		2G30P0N		

This authorization effective August 01, 2017 and
will expire 3:00 A.M. EST August 01, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Georgetown, DE: Max altitude 17,000 ft MSL, within 56 km, centered around NL 38-41-20; WL 75-21-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
92.1-94.8 GHz	MO	107MQ3N 733MQ3N 1G42Q3N 156MP0N 2G30P0N	598 kW (ERP)	

MOBILE: Charlottesville, VA: Max altitude 17,000 ft MSL, within 56 km, centered around NL 38-08-22; WL 78-27-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
92.1-94.8 GHz	MO	107MQ3N 733MQ3N 1G42Q3N 156MP0N 2G30P0N	598 kW (ERP)	

MOBILE: Ft. Eustis, VA: Max altitude 17,000 ft MSL, within 150 km, centered around NL 37-09-34; WL 76-34-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
92.1-94.8 GHz	MO	107MQ3N 156MP0N 1G42Q3N 2G30P0N 733MQ3N	598 kW (ERP)	

Frequency Information

MOBILE: Lakehurst, NJ: Max altitude 17,000 feet MSL, within 80 km, centered around NL 40-02-12; WL 74-22-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
92.1-94.8 GHz	MO	107MQ3N 733MQ3N 1G42Q3N 156MP0N 2G30P0N	598 kW (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 DARPA contract no. HR001-11-0139. 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) Licensee shall register with the third party database managers as specified in Section 101.1523 of the Commission's Rules.