

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

EXPERIMENTAL

(Nature of Service)

WI2XPR

(Call Sign)

XT FX MO

(Class of Station)

0333-EX-CM-2019

(File Number)

NAME Northrop Grumman Innovation Systems, Inc.

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(b) of the Commission's Rules

Station Locations

- (1) MOBILE: Antares Launch Vehicle, ground testing, within 2 km, centered around NL 37-50-02; WL 75-29-15
- (2) Wallops Island, VA - NL 37-50-02; WL 75-29-15; MOBILE: Antares launch vehicle, ground testing, within 2 km, centered around NL 37-50-02; WL 75-29-15
- (3) Wallops Island, VA - NL 37-50-02; WL 75-29-15; MOBILE: Antares Launch Vehicle, ground testing, within 2 km, centered around NL 37-50-02; WL 75-29-15

Frequency Information

MOBILE: Antares Launch Vehicle, ground testing, within 2 km, centered around NL 37-50-02; WL 75-29-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2241.5 MHz	MO	3M48F1D	2.3 W (ERP)	0.002 %
2269.5 MHz	MO	3M90G1D	5.4 W (ERP)	0.002 %

This authorization effective December 30, 2019 and
will expire 3:00 A.M. EST November 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Wallops Island, VA - NL 37-50-02; WL 75-29-15; MOBILE: Antares launch vehicle, ground testing, within 2 km, centered around

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2287.5 MHz	MO	3M90G1D	4.8 W (ERP)	0.002 %

Wallops Island, VA - NL 37-50-02; WL 75-29-15; MOBILE: Antares Launch Vehicle, ground testing, within 2 km, centered around

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5765 MHz	MO	14M0P0N	108 W (ERP)	0.05 %

Special Conditions:

- (1) PRIOR TO ACTIVATION, APPLICANT MUST COORDINATE WITH NASA LARC FLT OPS, 757-864-7761
- (2) COORDINATION IS REQUIRED WITH THE NASA/GSFC SPECTRUM MANAGER, SCOTT GALBRAITH AT 301-286-5089, VINCENT.S.GALBRAITH@NASA.GOV, AND WITH THE NASA/WFF SPECTRUM MANAGER FELIPE ARROYO AT 757-824-1623, FELIPE.ARROYO-1@NASA.GOV AT LEAST 7 DAYS IN ADVANCE.