

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

EXPERIMENTAL

(Nature of Service)

KA2XGP

(Call Sign)

XT FX

(Class of Station)

0069-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(j) of the Commission's Rules

Station Locations

(1) Hanover (ANNE ARUNDEL), MD - NL 39-11-05; WL 76-42-23

Frequency Information

Hanover (ANNE ARUNDEL), MD - NL 39-11-05; WL 76-42-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
138-144 MHz	FX	NON	100 W (ERP)	
162.1-173 MHz	FX	NON	100 W (ERP)	
420-608 MHz	FX	NON	1 W (ERP)	
614-806 MHz	FX	NON	1 W (ERP)	

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

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Hanover (ANNE ARUNDEL), MD - NL 39-11-05; WL 76-42-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
902-928 MHz	FX	N0N	100 W (ERP)	
1025 MHz	FX	N0N	100 W (ERP)	
1084 MHz	FX	N0N	100 W (ERP)	
1096 MHz	FX	N0N	100 W (ERP)	
1427-1429.5 MHz	FX	N0N	100 W (ERP)	
1710-2025 MHz	FX	N0N	100 W (ERP)	
2200-2690 MHz	FX	N0N	10 W (ERP)	
2700-2900 MHz	FX	N0N	1 W (ERP)	
2900-3000 MHz	FX	N0N	100 W (ERP)	
3000-4200 MHz	FX	N0N	100 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4400-4990 MHz	FX	N0N	100 W (ERP)	
5250-5600 MHz	FX	N0N	100 W (ERP)	
5650-9000 MHz	FX	N0N	100 W (ERP)	
9000-9200 MHz	FX	N0N	1 W (ERP)	
9200-10500 MHz	FX	N0N	100 W (ERP)	
10700-12200 MHz	FX	N0N	100 W (ERP)	

Special Conditions:

- (1) This frequency assignment in one of the bands 1435-1525, 2310-2320 and 2345-2390 MHz was coordinated prior to authorization with the Air Force Spectrum Management Office, Fort Meade, MD, who also coordinated it, as appropriate, with the Aerospace and Flight Test Radio Coordinating Council. Use of this frequency under the authority of this assignment is subject to such further coordination with the Air Force Spectrum Management Office, Fort Meade, MD, as necessary to ensure compatibility with existing uses.
- (2) This frequency assignment was coordinated prior to authorization with FAA Headquarters, 800 Independence Avenue, S.W., Washington, DC 20591; Telephone: 202-267-8699.
- (3) 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.
- (4) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (5) The station identification requirements of Section 5.115 of the Commission's Rules are waived.

Special Conditions:

- (6) Scheduling is required with the Regional Telemetry Scheduler at COMM 301-342-1542, prior to operations.
- (7) Operations using Part 73 or Part 74 frequencies are subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9247 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, executivedir@sbe.org; information, www.sbe.org.
- (8) Upon notification from the FCC, operation in 420-608 MHz is subject to immediate cessation, if it causes harmful interference to NASA space assignments.
- (9) Upon notification from the FCC, operation in 2200-2690 MHz is subject to immediate cessation, if it causes harmful interference to NASA Blossom Point, MD assignments.