

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

EXPERIMENTAL

(Nature of Service)

KA2XGP

(Call Sign)

XD FX

(Class of Station)

0223-EX-RR-2009

(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(i) 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	N0N	100 W (ERP)	
162.1-173 MHz	FX	N0N	100 W (ERP)	
225-328.6 MHz	FX	N0N	100 W (ERP)	
335.4-399.9 MHz	FX	N0N	100 W (ERP)	

This authorization effective December 01, 2009 and
will expire 3:00 A.M. EST December 01, 2011

**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 (+/-)
420-608 MHz	FX	N0N	1 W (ERP)	
614-806 MHz	FX	N0N	1 W (ERP)	
902-928 MHz	FX	N0N	100 W (ERP)	
1025 MHz	FX	N0N	100 W (ERP)	
1035 MHz	FX	N0N	100 W (ERP)	
1084 MHz	FX	N0N	100 W (ERP)	
1090 MHz	FX	N0N	1 W (ERP)	
1096 MHz	FX	N0N	100 W (ERP)	
1215-1390 MHz	FX	N0N	1 W (ERP)	
1427-1429.5 MHz	FX	N0N	100 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1710-2025 MHz	FX	N0N	100 W (ERP)	
2200-2690 MHz	FX	N0N	100 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)	
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)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10700-12200 MHz	FX	NON	100 W (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) 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.
- (3) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) The bands 2310-2320 MHz and 2345-2395 MHz were coordinated prior to authorization with the HQ USAF Frequency Coordinator, Alexandria, VA., who also coordinated it, as appropriate, with the Aerospace and Flight Test Radio Coordinating Council. Use of this band under the authority of this assignment is subject to such further coordination with the HQ USAF Frequency Coordinator, Alexandria, VA, and the Mid-Atlantic Area Frequency Coordinator, Patuxent River, MD, as necessary to ensure compatibility with existing uses.
- (5) Scheduling is required with the Regional Telemetry Scheduler at COMM 301-342-1542, prior to operations.
- (6) The bands 1215-1390, 2700-2900 and 9000-9200 MHz were coordinated prior to authorization with the FAA Eastern Coordinator, New York, New York. Use of these bands under the authority of this assignment is subject to such further coordination with the FAA Eastern Coordinator, New York, New York, as necessary to ensure compatibility with existing uses.
- (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) Operation in 225-328.6 or 335.4-399.9 MHz is subject to immediate cessation if it causes harmful interference to Air Force, Army, Navy, Marine Corps or FAA assignments.