

**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)

0053-EX-RR-2003

(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 April 01, 2003 and
will expire 3:00 A.M. EST January 16, 2008

**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)	

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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

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10700-12200 MHz	FX	N0N	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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (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) The band 2360-2390 MHz was 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., as necessary to ensure compatibility with existing uses.
- (5) Scheduling is required with the Regional Telemetry Scheduler, Larry Joy 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.