

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

EXPERIMENTAL

(Nature of Service)

XD FX

(Class of Station)

KA2XBU

(Call Sign)

0412-EX-RR-2013

(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) Linthicum (ANNE ARUNDEL), MD - NL 39-10-54; WL 76-41-24
- (2) Linthicum (ANNE ARUNDEL), MD - NL 39-11-08; WL 76-42-11
- (3) Linthicum (ANNE ARUNDEL), MD - NL 39-11-03; WL 76-41-09

Frequency Information

Linthicum (ANNE ARUNDEL), MD - NL 39-10-54; WL 76-41-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2700 MHz	FX	5M00P0N	1.9 GW (ERP)	
2845 MHz	FX	5M00P0N	1.9 GW (ERP)	

This authorization effective January 01, 2014 and
will expire 3:00 A.M. EST January 01, 2016

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Linthicum (ANNE ARUNDEL), MD - NL 39-11-08; WL 76-42-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1030 MHz	FX	8M00M1D	100 kW (ERP)	
2700 MHz	FX	5M00P0N	1.9 GW (ERP)	
2845-2880 MHz	FX	5M00P0N	1.9 GW (ERP)	

Linthicum (ANNE ARUNDEL), MD - NL 39-11-03; WL 76-41-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1030 MHz	FX	8M00M1D	100 kW (ERP)	
2700-2795 MHz	FX	5M00P0N	1.9 GW (ERP)	
2845-2880 MHz	FX	5M00P0N	1.9 GW (ERP)	

Special Conditions:

- (1) Assignment on 1030 MHz or in one of the bands 1215-1400, 2700-2900, or 9000-9200 MHz was coordinated prior to authorization with the FAA Eastern Coordinator, New York, NY. Use of frequencies under the authority of this assignment is subject to such further coordination with the FAA Eastern Coordinator, New York, NY, as necessary to ensure compatibility with existing uses.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) The station identification requirements of Section 5.115 of the Commission's Rules are waived.

Special Conditions:

- (4) Operation on 1030 MHz at location 2 is authorized only for pulse repetition rate of 235 pps in SIF Mode only.
Operation on 1030 MHz at location 3 is authorized only for pulse repetition rate of 235 pps in Modes 1, 2, 3A and C only.
- (5) Transmission direction is between -45 and +45 degrees referenced to True North for operations on 2700 and 2845 MHz for Location 1; 1030, 2700 and 2845-2880 MHz for Location 2; and 1030 and 2845-2880 MHz for Location 3.