

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

EXPERIMENTAL

(Nature of Service)

XE FX

(Class of Station)

WD2XCR

(Call Sign)

0086-EX-RR-2013

(File Number)

NAME Northrop Grumman 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(b) of the Commission's Rules

Station Locations

(1) Elkridge (HOWARD), MD - NL 39-11-53; WL 76-45-14

Frequency Information

Elkridge (HOWARD), MD - NL 39-11-53; WL 76-45-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1030 MHz	FX	12M0M1D	100 kW (ERP)	
2900-3100 MHz	FX	200MQ8N	100 kW (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) Use of the frequency 1030 MHz shall be limited to the following:

Pulse Repetition Rates shall be 250 pps and 275 pps.
Pulse Duration shall be 0.8 usecs.

This authorization effective March 23, 2013 and
will expire 3:00 A.M. EST March 01, 2015

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Special Conditions:

- (4) Use of the frequency 3000 MHz (200 MHz bandwidth giving 2900-3100 MHz) shall be limited to the following:

Pulse Repetition Rates shall be 250 pps, 275 pps, 300 pps, 650 pps, 800 pps, 825 pps, 950 pps and 1010 pps.

Pulse Durations shall be 15 usecs, 22.5 usecs, 27 usecs, 28.5 usecs, 90 usecs, 102 usecs, 245 usecs and 257 usecs.

- (5) This assignment on 1030 MHz and in the band 2900-3100 MHz was coordinated prior to authorization with the FAA Eastern Coordinator, New York, NY. Use of these 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.
- (6) Licensee should be aware that US Coast Guard NAVAIDS may be licensed in the band 2900-3100 MHz, and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.