

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

EXPERIMENTAL

(Nature of Service)

XC FX

(Class of Station)

WH2XRS

(Call Sign)

0372-EX-CR-2021

(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(c) of the Commission's Rules

Station Locations

- (1) Hanover (ANNE ARUNDEL), MD - NL 39-11-09; WL 76-42-09
- (2) Linthicum (ANNE ARUNDEL), MD - NL 39-10-57; WL 76-41-22

Frequency Information

Hanover (ANNE ARUNDEL), MD - NL 39-11-09; WL 76-42-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1030 MHz	FX	7M00V1D	661 W (ERP)	
3.2-3.4 GHz	FX	20M0Q3N	460 kW (ERP)	

This authorization effective July 01, 2021 and
will expire 3:00 A.M. EST July 01, 2023

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Linthicum (ANNE ARUNDEL), MD - NL 39-10-57; WL 76-41-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1030 MHz	FX	7M00V1D	661 W (ERP)	

Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (2) One or more frequency assignments were coordinated prior to authorization with FAA Headquarters, 800 Independence Avenue, S.W., Washington, DC 20591; Telephone: 202-267-8699.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) THE FOLLOWING ARE FAA CONDITIONS TO BE ADDED TO FCC LICENSE WH2XRS FOR 1030MHZ (1) 1030MHZ ASSIGNMENT IS FOR THE UPX-44 INTERROGATOR WITH G/ATOR TPS-80 RADAR FOR TEST OF RANDOM AIRBORNE TRANSPONDERS, (2) PERMISSION TO RADIATE IS ONLY FOR INTERROGATORS WITH P/NS WITH AN AIMS CERTIFICATION LETTER, (3) ONLY MODES 1,2,3/A AND C ARE ALLOWED, (4) MAX PRR IS 354, (5) MAX PWR IS 661W ERP OR 3.162KW PEAK TRANSMITTER PWR, (6) RADIATION SHALL BE PERFORMED IN 25 MINUTES PERIOD, (7) TWO MD LOCATIONS PERMITTED BUT ONLY ONE MAY RADIATE AT A TIME, (8) HANOVER MUST BLANK AZ 178 TO 135 DEG.TRANSMISSION ARE ALLOWED 135-178 DEG. (9) LINTHICUM MUST BLANK AZ 16 TO 266 DEG, (10) STOP BUZZERS AT HANOVER ARE 410-765-2333 AND 410-765-2818, (11) STOP BUZZER AT LINTHICUM IS 410-993-5485.
- (5) FOLLOWING CONDITIONS APPLY TO 1030 MHZ REQUEST
 - A. PERMISSION TO RADIATE IS ONLY FOR INTGRS WITH P/NS WITH AIMS CERTIFICATION LETTER;
 - B. ONLY MODES 1,2,3/A AND C AUTHORIZED;
 - C. RADIATION SHALL BE PERFORMED IN 25 MINUTE PERIODS;
 - D. TWO MD LOCATIONS PERMITTED BUT ONLY ONE MAY RADIATE AT A TIME;
 - E. BLANK AZ 178 TO 135 DEG.TRANSMISSIONS ARE ALLOWED 135-178 DEG;
 - F. COORDINATE TESTING WITH LOCAL ATC.