

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

EXPERIMENTAL

(Nature of Service)

XD FX

(Class of Station)

WJ2XRL

(Call Sign)

0500-EX-CR-2021

(File Number)

NAME Raytheon Company

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) Dulles (LOUDOUN), VA - NL 38-58-43; WL 77-29-03

Frequency Information

Dulles (LOUDOUN), VA - NL 38-58-43; WL 77-29-03

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
29-31 GHz	FX	3M00K9W	1 W (ERP)	
		3M00K9W		

Special Conditions:

- (1) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (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 station identification requirements of Section 5.115 of the Commission's Rules are waived.

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

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COMMISSION**



Special Conditions:

- (5) Raytheon IIS must contact the Navy and Marine Corps Spectrum Center (NMSC) SATCOM representative; Mr. Richard Ontiveros (richard.ontiveros1@navy.mil) or Mr. Keith Jones (keith.k.jones@navy.mil) prior to scheduled testing events to confirm stop buzzer POC and to mitigate any potential interference that may occur.
- (6) INMARSAT 5F2 satellite @ 55 degrees W.L. (U. K. licensed)
The fixed earth stations are authorized to conduct tests via INMARSAT 5F2 at 55° WL satellite in the 29-30 GHz band.
- (7) Communications between authorized fixed earth station(s) and the INMARSAT 5F2 Ka-Band geostationary space stations must be in compliance with all existing and future space station coordination agreements reached between the United Kingdom and other administrations, and between the INMARSAT 5F2 operators and, if any, the Ka-band NGSO (non- geostationary space stations) operators.
- (8) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.