

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

EXPERIMENTAL

(Nature of Service)

WJ2XLC

(Call Sign)

XD      FX MO

(Class of Station)

0249-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) St Louis (ST LOUIS), MO - NL 38-43-30; WL 90-18-18; MOBILE: St Louis, MO, within 100 km, centered around NL 38-43-30; WL 90-18-18

Frequency Information

St Louis (ST LOUIS), MO - NL 38-43-30; WL 90-18-18; MOBILE: St Louis, MO, within 100 km, centered around NL 38-43-30;

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 34-38 GHz | MO            | 120MQ3N             | 110 W (ERP)      |                           |
| 34-38 GHz | FX            | 120MQ3N             | 110 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.

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

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



**Special Conditions:**

- (4) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (5) Licensee must avoid pointing the transmitting antenna main beam gain within 10 degrees of any point on the geostationary orbital arc while transmitting signals in the 37.5-38 GHz band.
- (6) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (7) No automatic renewal for operations in the 37.5-38 GHz band.
- (8) Prior to operation, the applicant must coordinate with stations authorized to operate in these frequency bands that are located within a 25 mile radius of the transmitter.