

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

EXPERIMENTAL

(Nature of Service)

XD      FX MO

(Class of Station)

WL2XYE

(Call Sign)

0581-EX-CN-2021

(File Number)

NAME Raytheon Company (Missiles and Defense - M)

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) Tucson (PIMA), AZ - NL 32-06-27; WL 110-56-19
- (2) Tucson (PIMA), AZ - NL 32-06-06; WL 110-56-49
- (3) MOBILE: Tucson, AZ. Mobile along five flight paths to plant, within 28 km, centered around NL 32-02-41; WL 111-00-20

Frequency Information

Tucson (PIMA), AZ - NL 32-06-27; WL 110-56-19

| Frequency   | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|-------------------------------|------------------|---------------------------|
| 31-31.3 GHz | FX            | 299MN0N<br>299MP0N<br>299MG1N | 30 MW (ERP)      |                           |
| 31.8-36 GHz | FX            | 500MG1N<br>500MP0N<br>500MN0N | 30 MW (ERP)      |                           |

This authorization effective August 26, 2021 and  
will expire 3:00 A.M. EST September 01, 2023

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

Tucson (PIMA), AZ - NL 32-06-06; WL 110-56-49

| Frequency   | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|-------------------------------|------------------|---------------------------|
| 31-31.3 GHz | FX            | 299MN0N<br>299MP0N<br>299MG1N | 30 MW (ERP)      |                           |
| 31.8-36 GHz | FX            | 500MN0N<br>500MP0N<br>500MG1N | 30 MW (ERP)      |                           |

MOBILE: Tucson, AZ. Mobile along five flight paths to plant, within 28 km, centered around NL 32-02-41; WL 111-00-20

| Frequency   | Station Class | Emission Designator           | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|-------------------------------|------------------|---------------------------|
| 31-31.3 GHz | MO            | 299MN0N<br>299MP0N<br>299MG1N | 30 MW (ERP)      |                           |
| 31.8-36 GHz | MO            | 500MN0N<br>500MP0N<br>500MG1N | 30 MW (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) 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.
- (3) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) Licensee must successfully coordinate with Fixed Microwave Service licensees within 99 km radius from each corresponding proposed location in accordance with 47 C.F.R, Part 101.103(d) prior to commencing experimental operations.

**Special Conditions:**

- (5) The authorized station must be in compliance with environmental requirement set forth in Section 1.1307 of the Commission's Rules.
- (6) The designated point-of-contact to terminate transmissions if interference occurs is Jim Ortega at (520) 262-1757.