

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

EXPERIMENTAL

(Nature of Service)

XC      FX

(Class of Station)

W12XWW

(Call Sign)

0334-EX-CR-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(c) of the Commission's Rules

Station Locations

- (1) Tucson (PIMA), AZ - NL 32-08-14; WL 110-55-21
- (2) Tucson (PIMA), AZ - NL 32-06-16; WL 110-57-13
- (3) Florence (PINAL), AZ - NL 33-04-29; WL 111-22-12

Frequency Information

Tucson (PIMA), AZ - NL 32-08-14; WL 110-55-21

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 92-96 GHz | FX            | N0N                 | 7 kW (ERP)       |                           |

Tucson (PIMA), AZ - NL 32-06-16; WL 110-57-13

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 92-96 GHz | FX            | N0N                 | 7 kW (ERP)       |                           |

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

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

Florence (PINAL), AZ - NL 33-04-29; WL 111-22-12

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 92-96 GHz | FX            | NON                 | 7 kW (ERP)       |                           |

## Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (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) Operation is subject to prior coordination with the existing users in 92-95 GHz band prior to commencing the test operations.
- (4) Raytheon must not utilize the band 86-92 GHz. US246 restricts emissions in the band to protect NASA passive sensors.
- (5) Raytheon Missile System shall insure that any out-of-band emissions in the 89-92 GHz frequency band from the delivered/deployed version of this equipment complies with the protection requirements of ITU-R Recommendations RA.769-2 and RS.2017.
- (6) Raytheon Missile Systems shall comply with the coordination requirements of US161(b)/US342 given the desired operation location within the 150 km coordination distance of the Radio Astronomy observatories located in Arizona.
- (7) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government; contract number H94003-04-D-0006. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (8) Stop buzzer is Jim Ortega, at 520-794-0227.
- (9) The applicant register with the third party Database Manager as specified in Section 101.1523 of the Commission's Rules.
- (10) The authorized station must be in compliance with environmental requirement set forth in Section 1.1307 of the Commission's Rules.