

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

EXPERIMENTAL

(Nature of Service)

WF2XJF

(Call Sign)

XD      FX MO

(Class of Station)

0046-EX-RR-2012

(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(i) of the Commission's Rules

Station Locations

- (1) Redstone Arsenal (MADISON), AL - NL 34-39-09; WL 86-40-17; MOBILE: Redstone Arsenal (MADISON), AL, within 100 km, centered around NL 34-39-09; WL 86-40-17
- (2) Tucson (PIMA), AZ - NL 32-05-43; WL 110-57-06; MOBILE: Tucson, PIMA, AZ, within 40 km, centered around NL 32-05-43; WL 110-57-06

Frequency Information

Redstone Arsenal (MADISON), AL - NL 34-39-09; WL 86-40-17; MOBILE: Redstone Arsenal (MADISON), AL, within 100 km

| 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)      |                           |

This authorization effective May 18, 2012 and  
will expire 3:00 A.M. EST May 18, 2014

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

Tucson (PIMA), AZ - NL 32-05-43; WL 110-57-06; MOBILE: Tucson, PIMA, AZ, within 40 km, centered around NL 32-05-43;

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

## Special Conditions:

- (1) 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.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) Operation is subject to prior coordination with Fixed Microwave licensees.