

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

EXPERIMENTAL

(Nature of Service)

XD      FX MO

(Class of Station)

WJ2XIP

(Call Sign)

0406-EX-TC-2019

(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) Midlothian (ELLIS), TX - NL 32-27-08; WL 96-54-36; MOBILE: Midlothian, TX, within 300 km, centered around NL 32-27-08; WL 96-54-36

Frequency Information

Midlothian (ELLIS), TX - NL 32-27-08; WL 96-54-36; MOBILE: Midlothian, TX, within 300 km, centered around NL 32-27-08; V

| Frequency         | Station Class | Emission Designator                                                       | Authorized Power | Frequency Tolerance (+/-) |
|-------------------|---------------|---------------------------------------------------------------------------|------------------|---------------------------|
| 14.7145-14.83 GHz | MO            | 2M40G1D<br>8M00G1D<br>9M58G1D<br>21M4G1D<br>42M8G1D<br>64M0G1D<br>89M5G1D | 484.346 W (ERP)  |                           |
| 15.15-15.35 GHz   | MO            | 8M00G1D<br>9M58G1D<br>21M4G1D<br>42M8G1D                                  | 484.346 W (ERP)  |                           |

This authorization effective January 23, 2020 and  
will expire 3:00 A.M. EST May 01, 2020

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

Midlothian (ELLIS), TX - NL 32-27-08; WL 96-54-36; MOBILE: Midlothian, TX, within 300 km, centered around NL 32-27-08; V

| Frequency       | Station Class | Emission Designator                                                       | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------------------------------------------------------------|------------------|---------------------------|
| 15.15-15.35 GHz | MO            | 64M0G1D<br>89M5G1D<br>2M40G1D                                             | 484.346 W (ERP)  |                           |
| 15.4-15.53 GHz  | MO            | 89M5G1D<br>64M0G1D<br>42M8G1D<br>21M4G1D<br>9M58G1D<br>8M00G1D<br>2M40G1D | 484.346 W (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) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) The stop buzzer contact for this project is Rick Scoggins 214-843-6025, Alternate: Craig Wilson 972-877-3245
- (5) The authorized station must be in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules.
- (6) Station authorized herein must not be used to provide air traffic control communications.
- (7) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (8) Operation is not permitted in 15.35-15.40 GHz band.