

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

EXPERIMENTAL

(Nature of Service)

XD      FX

(Class of Station)

WJ2XJS

(Call Sign)

0110-EX-CR-2020

(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

Frequency Information

Midlothian (ELLIS), TX - NL 32-27-08; WL 96-54-36

| Frequency  | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|------------|---------------|---------------------|------------------|---------------------------|
| 31.5 MHz   | FX            | 16K0F3E<br>8K00F1D  | 63 W (ERP)       |                           |
| 43.25 MHz  | FX            | 16K0F3E<br>8K00F1D  | 63 W (ERP)       |                           |
| 75.4 MHz   | FX            | 16K0F3E<br>8K00F1D  | 63 W (ERP)       |                           |
| 158.45 MHz | FX            | 16K0F3E             | 63 W (ERP)       |                           |

This authorization effective May 01, 2020 and  
will expire 3:00 A.M. EST May 01, 2022

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

Midlothian (ELLIS), TX - NL 32-27-08; WL 96-54-36

| Frequency  | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|------------|---------------|---------------------|------------------|---------------------------|
| 158.45 MHz | FX            | 8K00F1D             | 63 W (ERP)       |                           |
| 173.2 MHz  | FX            | 12K5F3E<br>8K00F1D  | 63 W (ERP)       |                           |
| 220.5 MHz  | FX            | 16K0F3E<br>8K00F1D  | 63 W (ERP)       |                           |
| 224 MHz    | FX            | 16K0F3E<br>8K00F1D  | 63 W (ERP)       |                           |

## Special Conditions:

- (1) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at [https://www.sbe.org/sections/freq\\_local.php](https://www.sbe.org/sections/freq_local.php) to find the appropriate coordinator.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) 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.
- (5) Raytheon SAS coordinate with the local Society of Broadcast Engineers frequency coordinator prior to operation on 158.45 MHz and 173.2 MHz.
- (6) Operation is subject to consent of the following within 50 miles of the test area:
  - All services in 220 MHz,
  - 220-222 MHz Service,
  - Paging Service licensees in 43 MHz, 158 MHz, and 152 MHz/158 MHz.