

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

EXPERIMENTAL

(Nature of Service)

XD FX

(Class of Station)

WJ2XKL

(Call Sign)

0420-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

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
409 MHz	FX	8K33A3E 12K5A1D 12K5F3E 12K5F1D 12K5G1D	63 W (ERP)	
454.5 MHz	FX	8K33A3E 16K0A1D 25K0F3E 75K0F1D 1M20G1D	63 W (ERP)	

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

**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 (+/-)
455 MHz	FX	8K33A3E 16K0A1D 25K0F3E 75K0F1D 1M20G1D	63 W (ERP)	
457 MHz	FX	8K33A3E 16K0A1D 25K0F3E 75K0F1D 1M20G1D	63 W (ERP)	
459 MHz	FX	8K33A3E 16K0A1D 25K0F3E 75K0F1D 1M20G1D	63 W (ERP)	
480 MHz	FX	8K33A3E 16K0A1D 25K0F3E 75K0F1D 1M20G1D	63 W (ERP)	
500 MHz	FX	16K0A1D 8K33A3E 25K0F3E 75K0F1D 1M20G1D	63 W (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
510 MHz	FX	8K33A3E 16K0A1D 25K0F3E 75K0F1D 1M20G1D	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 to find the appropriate coordinator.
- (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 station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (5) Raytheon SAS coordinate with the local Society of Broadcast Engineers frequency coordinator prior to operation on 454.5 MHz, 455 MHz, 480 MHz, 500 MHz, and 510 MHz.
- (6) Operation is subject to consent of the following within 50 miles of the test area:
 - Paging Service licensees in 454 MHz/459 MHz,
 - General Aviation Air-Ground Service in 454 MHz/459 MHz.
- (7) Operation is not permitted in 407 MHz.