

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

EXPERIMENTAL

(Nature of Service)

XT MO

(Class of Station)

WK2XGE

(Call Sign)

0425-EX-CN-2019

(File Number)

NAME The Boeing 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(h) of the Commission's Rules

Station Locations

(1) MOBILE: US, US

Frequency Information

MOBILE: US, US

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
699-716 MHz	MO	9M11G7D 9M09W7D 2M73W7D	0.77 W (ERP)	0.00025 %
777-787 MHz	MO	8M97G7D 9M01W7D	0.77 W (ERP)	0.00025 %
814-824 MHz	MO	14M2G7D 14M5W7D 3M03W7D	0.77 W (ERP)	0.00025 %

This authorization effective July 08, 2019 and
will expire 3:00 A.M. EST July 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: US, US

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
824-849 MHz	MO	4M12F9W 13M5G7D 13M5W7D	0.77 W (ERP)	0.00025 %
1710-1780 MHz	MO	18M3G7D 18M5W7D 4M12F9W	0.77 W (ERP)	0.00025 %
1850-1910 MHz	MO	4M14F9W 18M5G7D 18M5W7D	0.77 W (ERP)	0.00025 %
2305-2315 MHz	MO	8M99G7D 9M05W7D 4M51G7D 4M49W7D	0.77 W (ERP)	0.00025 %
2496-2690 MHz	MO	18M5G7D 18M5W7D 14M5W7D 37M7G7D 37M9W7D	0.77 W (ERP)	0.00025 %
2500-2570 MHz	MO	18M5G7D 18M5W7D 4M50G7D 4M50W7D 37M5G7D	0.77 W (ERP)	0.00025 %

Frequency Information

MOBILE: US, US

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2500-2570 MHz	MO	37M7W7D	0.77 W (ERP)	0.00025 %

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) Prior to commencing any operations in the frequencies below, the applicant must obtain consent from the following within 50 miles of the contours of the testing area:
 - 700 MHz Lower Band "A" block licensees (698-704 MHz/728-734 MHz)
 - 700 MHz Lower Band "B" block licensees (704-710 MHz/734-740 MHz)
 - 700 MHz Lower Band "C" block licensees (710-716 MHz/740-746 MHz)
 - 700 MHz Upper Band "C" block (746-757 MHz and 776-787 MHz) licensee (Verizon) and/or lessees
 - SMR licensees (809-824 MHz/854-869 MHz)
 - B/ILT licensees (809-824 MHz/854-869 MHz)
 - Cellular licensees (824-849 MHz/869-894 MHz)
 - Broadband PCS licensees (1850-1910 MHz/1930-1990 MHz)
 - WCS (2305-2320 MHz/2345-2360 MHz) licensee (AT&T)
- (4) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (5) Licensee shall ensure that the transmitting station antenna(s) main beam gain tip down when possible and avoid pointing above the horizon to protect satellite stations.
- (6) 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.
- (7) The authorized station must be in compliance with environmental requirement set forth in Section 1.1307 of the Commission's Rules.
- (8) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (9) Operations are on a non-interference basis (NIB) and shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing.

Special Conditions:

- (10) Licensee must obtain consents from the Advance Wireless Service licensees prior to accessing to 1710-1780 MHz band.
- (11) Licensee must obtain consents from the Educational Broadband Service and the Broadband Radio Service licensees prior to operation on the frequencies in 2495-2690 MHz range.
- (12) Licensee must coordinate with the Fixed Microwave Service licensees prior to operation in 2496-2500 MHz band.
- (13) Stop buzzer, Antonio Sanchez at 405-250-0564.