

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

EXPERIMENTAL
(Nature of Service)

WF2XEX
(Call Sign)

XT MO
(Class of Station)

0038-EX-CR-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: Thurmont, MD, within 0.1 km, centered around NL 39-32-41; WL 77-22-16
- (2) MOBILE: Germantown, MD, within 0.1 km, centered around NL 39-13-16; WL 77-13-23
- (3) MOBILE: Germantown, MD, within 0.1 km, centered around NL 39-12-07; WL 77-15-46

Frequency Information

MOBILE: Thurmont, MD, within 0.1 km, centered around NL 39-32-41; WL 77-22-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460.4-467.6 MHz	MO	1M25F9W 300KG9W 4M20F9W	1 mW (ERP)	
851-866 MHz	MO	300KG9W 20K0W7W	1 mW (ERP)	
869-894 MHz	MO	1M25F9W 300KG9W	1 mW (ERP)	

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

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Thurmont, MD, within 0.1 km, centered around NL 39-32-41; WL 77-22-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
869-894 MHz	MO	4M20F9W	1 mW (ERP)	
928-932 MHz	MO	300KG9W	1 mW (ERP)	
935-941 MHz	MO	300KG9W	1 mW (ERP)	
944-960 MHz	MO	300KG9W	1 mW (ERP)	
1805-1880 MHz	MO	300KG9W	1 mW (ERP)	
1930-1990 MHz	MO	1M25F9W 300KG9W 4M20F9W	1 mW (ERP)	
2110-2170 MHz	MO	1M25F9W 300KG9W 4M20F9W	1 mW (ERP)	

MOBILE: Germantown, MD, within 0.1 km, centered around NL 39-13-16; WL 77-13-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460.4-467.6 MHz	MO	1M25F9W 300KG9W	1 mW (ERP)	

Frequency Information

MOBILE: Germantown, MD, within 0.1 km, centered around NL 39-13-16; WL 77-13-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460.4-467.6 MHz	MO	4M20F9W	1 mW (ERP)	
851-866 MHz	MO	300KG9W 20K0W7W	1 mW (ERP)	
869-894 MHz	MO	1M25F9W 300KG9W 4M20F9W	1 mW (ERP)	
928-932 MHz	MO	300KG9W	1 mW (ERP)	
935-941 MHz	MO	300KG9W	1 mW (ERP)	
944-960 MHz	MO	300KG9W	1 mW (ERP)	
1805-1880 MHz	MO	300KG9W	1 mW (ERP)	
1930-1990 MHz	MO	1M25F9W 300KG9W 4M20F9W	1 mW (ERP)	
2110-2170 MHz	MO	1M25F9W 300KG9W 4M20F9W	1 mW (ERP)	

Frequency Information

MOBILE: Germantown, MD, within 0.1 km, centered around NL 39-13-16; WL 77-13-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2110-2170 MHz	MO	4M20F9W	1 mW (ERP)	

MOBILE: Germantown, MD, within 0.1 km, centered around NL 39-12-07; WL 77-15-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460.4-467.6 MHz	MO	1M25F9W 300KG9W 4M20F9W	1 mW (ERP)	
851-866 MHz	MO	300KG9W 20K0W7W	1 mW (ERP)	
869-894 MHz	MO	1M25F9W 300KG9W 4M20F9W	1 mW (ERP)	
928-932 MHz	MO	300KG9W	1 mW (ERP)	
935-941 MHz	MO	300KG9W	1 mW (ERP)	
944-960 MHz	MO	300KG9W	1 mW (ERP)	

Frequency Information

MOBILE: Germantown, MD, within 0.1 km, centered around NL 39-12-07; WL 77-15-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1805-1880 MHz	MO	300KG9W	1 mW (ERP)	
1930-1990 MHz	MO	1M25F9W 300KG9W 4M20F9W	1 mW (ERP)	
2110-2170 MHz	MO	1M25F9W 300KG9W 4M20F2W	1 mW (ERP)	

Special Conditions:

- (1) Operation in the 1850-1910 or 1930-1990 MHz band requires prior frequency coordination with 2 GHz microwave users and consent of PCS licensees to avoid interference.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) 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.
- (4) Operation in the 824-849 or 869-894 MHz band requires consent of local cellular licensee(s) to avoid interference.
- (5) Licensee must get consent from Education Broadband Service / Broadband Radio Service and Advanced Wireless Service licensees in the immediate area.
- (6) The designated point-of-contact to terminate transmissions if interference occurs is Alexander Chi at 301-512-5818.
- (7) Operation is NOT permitted on 915.4-928 MHz, 932-935 MHz and 941-944 MHz.