

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

EXPERIMENTAL

(Nature of Service)

WF2XCR

(Call Sign)

XT MO

(Class of Station)

0305-EX-PL-2009

(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(i) of the Commission's Rules

Station Locations

- (1) MOBILE: Ground checks on Boeing site, Seattle, WA, within 2 km, centered around NL 47-31-00; WL 122-18-00
- (2) MOBILE: Flights up to 10000 feet around vicinity of Boardman, OR, within 160 km, centered around NL 45-44-54; WL 119-47-38
- (3) MOBILE: Ground checks on Boeing site, St Charles, MO, within 2 km, centered around NL 38-48-41; WL 90-28-18
- (4) MOBILE: Flights up to 10000 feet around vicinity of Fort Leonard Wood, MO, within 160 km, centered around NL 37-38-54; WL 92-12-56

Frequency Information

MOBILE: Ground checks on Boeing site, Seattle, WA, within 2 km, centered around NL 47-31-00; WL 122-18-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
433-434.5 MHz	MO	12K5F9W	0.76 W (ERP)	
1712.5 MHz	MO	18M0F9W	4.85 W (ERP)	

This authorization effective November 13, 2009 and
will expire 3:00 A.M. EST November 01, 2011

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Ground checks on Boeing site, Seattle, WA, within 2 km, centered around NL 47-31-00; WL 122-18-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1745 MHz	MO	18M0F9W	4.85 W (ERP)	
4490 MHz	MO	15M0F9W	8.5 W (ERP)	
4790 MHz	MO	15M0F9W	8.5 W (ERP)	
4942 MHz	MO	700KF9W	2140 W (ERP)	
4970 MHz	MO	700KF9W	2140 W (ERP)	

MOBILE: Flights up to 10000 feet around vicinity of Boardman, OR, within 160 km, centered around NL 45-44-54; WL 119-47-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
433-434.5 MHz	MO	12K5F9W	0.76 W (ERP)	
1787.5 MHz	MO	18M0F9W	4.85 W (ERP)	
1807.5 MHz	MO	18M0F9W	4.85 W (ERP)	
4490 MHz	MO	15M0F9W	8.5 W (ERP)	

Frequency Information

MOBILE: Flights up to 10000 feet around vicinity of Boardman, OR, within 160 km, centered around NL 45-44-54; WL 119-47-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4790 MHz	MO	15M0F9W	8.5 W (ERP)	
4942 MHz	MO	700KF9W	2140 W (ERP)	
4970 MHz	MO	700KF9W	2140 W (ERP)	

MOBILE: Ground checks on Boeing site, St Charles, MO, within 2 km, centered around NL 38-48-41; WL 90-28-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
433-434.5 MHz	MO	12K5F9W	0.76 W (ERP)	
1712.5 MHz	MO	18M0F9W	4.85 W (ERP)	
1745 MHz	MO	18M0F9W	4.85 W (ERP)	
4490 MHz	MO	15M0F9W	8.5 W (ERP)	
4790 MHz	MO	15M0F9W	8.5 W (ERP)	
4942 MHz	MO	700KF9W	2140 W (ERP)	

Frequency Information

MOBILE: Ground checks on Boeing site, St Charles, MO, within 2 km, centered around NL 38-48-41; WL 90-28-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4970 MHz	MO	700KF9W	2140 W (ERP)	

MOBILE: Flights up to 10000 feet around vicinity of Fort Leonard Wood, MO, within 160 km, centered around NL 37-38-54; WL 92-12-56

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
433-434.5 MHz	MO	12K5F9W	0.76 W (ERP)	
1802.5 MHz	MO	18M0F9W	4.85 W (ERP)	
1835 MHz	MO	18M0F9W	4.85 W (ERP)	
4490 MHz	MO	15M0F9W	8.5 W (ERP)	
4790 MHz	MO	15M0F9W	8.5 W (ERP)	
4942 MHz	MO	700KF9W	2140 W (ERP)	
4970 MHz	MO	700KF9W	2140 W (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

Special Conditions:

- (2) Operation in the 1710-1755 or 2110-2155 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.
- (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 is only permitted using the following frequencies:
 - Frequencies to be used in King, WA: 433-434.5 MHz, 1712.5 MHz, 1745 MHz, 4790 MHz, 4490 MHz, 4942 MHz and 4970 MHz
 - Frequencies to be used in Boardman, OR: 433-434.5 MHz, 1787.5 MHz, 1807.5 MHz, 4790 MHz, 4490 MHz, 4942 MHz and 4970 MHz
 - Frequencies to be used in St. Charles, MO: 433-434.5 MHz, 1712.5 MHz, 1745 MHz, 4790 MHz, 4490 MHz, 4942 MHz and 4970 MHz
 - Frequencies to be used in Ft. Leonard Wood, MO: 433-434.5 MHz, 1802.5 MHz, 1835 MHz, 4790 MHz, 4490 MHz, 4942 MHz and 4970 MHz.
- (5) The designated point-of-contact to terminate transmissions if interference occurs is Steven McMichael (314) 341-2134 and Paul Buhse (314) 662-3039.