

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

EXPERIMENTAL

(Nature of Service)

XC FX

(Class of Station)

WE2XCB

(Call Sign)

0604-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(b) of the Commission's Rules

Station Locations

(1) MESA, AZ - NL 33-28-07; WL 111-43-42

Frequency Information

MESA, AZ - NL 33-28-07; WL 111-43-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
32-50 MHz	FX	N0N	40 mW (ERP)	
52-59 MHz	FX	N0N	500 mW (ERP)	
62-70 MHz	FX	N0N	500 mW (ERP)	
73-74.8 MHz	FX	N0N	500 mW (ERP)	

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

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MESA, AZ - NL 33-28-07; WL 111-43-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
75.2-86 MHz	FX	N0N	500 mW (ERP)	
88-108 MHz	FX	N0N	500 mW (ERP)	
137-148 MHz	FX	N0N	500 mW (ERP)	
152-162.015 MHz	FX	N0N	500 mW (ERP)	
162.03-170 MHz	FX	N0N	500 mW (ERP)	
176-200 MHz	FX	N0N	500 mW (ERP)	
200-225 MHz	FX	N0N	2 W (ERP)	
405.5-406.5 MHz	FX	N0N	1200 mW (ERP)	
445-500 MHz	FX	N0N	1200 mW (ERP)	
524-600 MHz	FX	N0N	1 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
869-960 MHz	FX	N0N	500 mW (ERP)	
1108 MHz	FX	N0N	500 mW (ERP)	
1145 MHz	FX	N0N	500 mW (ERP)	
1429.5-1524 MHz	FX	N0N	500 mW (ERP)	
1690-1820 MHz	FX	N0N	500 mW (ERP)	
1830-2020 MHz	FX	N0N	500 mW (ERP)	
2030-2190 MHz	FX	N0N	500 mW (ERP)	
2400-2500 MHz	FX	N0N	300 mW (ERP)	
3800-5000 MHz	FX	N0N	300 mW (ERP)	
6000-6200 MHz	FX	N0N	300 mW (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6200-6700 MHz	FX	N0N	1 W (ERP)	
6700-7700 MHz	FX	N0N	300 mW (ERP)	
11200-11800 MHz	FX	N0N	300 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) Operation is subject to prior coordination with the Associated Public Safety Communications Officers, Inc. (APCO); ATTN: Director of Frequency Coordination; 351 North Williamson Blvd.; Daytona Beach, FL 32114-1112; Telephone: (386) 322-2500.
- (3) Operation in the 824-849 or 869-894 MHz band requires consent of local cellular licensee(s) to avoid interference.
- (4) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (5) 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.
- (6) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (7) Renewal of this License is subject to prior coordination with AFTRCC Frequency Advisory Committee, PO Box 200547, Cartersville, GA 30120-9010, Telephone (770) 494-2893.
- (8) Operation is subject to prior coordination with affected existing and future Advanced Wireless Services (AWS) licensees.
- (9) Operation is subject to prior coordination with affected existing and future WCS licensees.
- (10) The designated point-of-contacts to terminate transmissions if interference occurs is Eric Knutesen, 480-213-0216.
- (11) Operation is subject to prior coordination with affected existing and future Broadcast Radio Service (BRS) and Educational Broadband Service (EBS) licensee(s).
- (12) The Boeing Company is subject to prior coordination with microwave station call sign KYD27 licensee before commencing operation within frequency band 941-960 MHz.

Special Conditions:

- (13) Ground operations only.
- (14) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9247 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, executivedir@sbe.org; information, www.sbe.org. Further renewal of this authorization is subject to prior coordination with SBE.
- (15) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government; contract number W58RGZ-05-C-0001. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (16) Operation is NOT permitted using the frequency band 4200-4400 MHz, 1400-1429.5 MHz, and 406-406.1 MHz.
- (17) The frequency band 1435-1525 MHz was coordinated prior to authorization with the Area Frequency Coordinator (AFC), Ft. Huachuca, AZ, who also coordinated it, as appropriate, with the Aerospace and Flight Test Radio Coordinating Council. Use of this frequency under the authority of this assignment is subject to such further coordination with the AFC, as necessary to ensure compatibility with the existing uses.
- (18) Operation is subject to prior coordination with FAA Western Regional Office, P.O. Box 92007, Worldway Center, Los Angeles, CA 90009, ATTN: Frequency Management Office: PH 310-297-1872.