

**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)

0099-EX-ML-2011

(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 (+/-)
32.00000000-50.00000000 MHz	FX	NON	40.000000 mW (ERP)	
52.00000000-59.00000000 MHz	FX	NON	500.000000 mW (ERP)	
62.00000000-70.00000000 MHz	FX	NON	500.000000 mW (ERP)	
73.00000000-74.80000000 MHz	FX	NON	500.000000 mW (ERP)	

This authorization effective April 26, 2011 and
will expire 3:00 A.M. EST March 01, 2012

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
75.20000000-86.00000000 MHz	FX	N0N	500.000000 mW (ERP)	
88.00000000-108.00000000 MHz	FX	N0N	500.000000 mW (ERP)	
137.00000000-148.00000000 MHz	FX	N0N	500.000000 mW (ERP)	
152.00000000-162.01500000 MHz	FX	N0N	500.000000 mW (ERP)	
162.03000000-170.00000000 MHz	FX	N0N	500.000000 mW (ERP)	
176.00000000-200.00000000 MHz	FX	N0N	500.000000 mW (ERP)	
200.00000000-225.00000000 MHz	FX	N0N	2.000000 W (ERP)	
405.50000000-406.50000000 MHz	FX	N0N	1200.000000 mW (ERP)	
445.00000000-500.00000000 MHz	FX	N0N	1200.000000 mW (ERP)	
524.00000000-600.00000000 MHz	FX	N0N	1.000000 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
869.00000000-960.00000000 MHz	FX	N0N	500.000000 mW (ERP)	
1108.00000000 MHz	FX	N0N	500.000000 mW (ERP)	
1145.00000000 MHz	FX	N0N	500.000000 mW (ERP)	
1400.00000000-1524.00000000 MHz	FX	N0N	500.000000 mW (ERP)	
1690.00000000-1820.00000000 MHz	FX	N0N	500.000000 mW (ERP)	
1830.00000000-2020.00000000 MHz	FX	N0N	500.000000 mW (ERP)	
2030.00000000-2190.00000000 MHz	FX	N0N	500.000000 mW (ERP)	
2400.00000000-2500.00000000 MHz	FX	N0N	300.000000 mW (ERP)	
2690.00000000-2700.00000000 MHz	FX	N0N	300.000000 mW (ERP)	
3800.00000000-5000.00000000 MHz	FX	N0N	300.000000 mW (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6000.00000000-6200.00000000 MHz	FX	N0N	300.000000 mW (ERP)	
6200.00000000-6700.00000000 MHz	FX	N0N	1.000000 W (ERP)	
6700.00000000-7700.00000000 MHz	FX	N0N	300.000000 mW (ERP)	
11200.00000000-11800.00000000 MHz	FX	N0N	300.000000 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.

Special Conditions:

- (10) The designated point-of-contacts to terminate transmissions if interference occurs are Mr. Michael Valle at (480) 891-3686, and Mr. Donald Johnson at (480) 891-1583.
- (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.
- (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 DSG-EMO099 and N00019-04-C-0014. 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.