

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

EXPERIMENTAL

(Nature of Service)

XC FX

(Class of Station)

WC2XVZ

(Call Sign)

0168-EX-RR-2012

(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 (MARICOPA), AZ - NL 33-28-09; WL 111-43-42
- (2) MESA (MARICOPA), AZ - NL 33-28-07; WL 111-43-40

Frequency Information

MESA (MARICOPA), AZ - NL 33-28-09; WL 111-43-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2020-2030 MHz	FX	NON	1 W (ERP)	
2190-2400 MHz	FX	NON	1 W (ERP)	
2500-3800 MHz	FX	NON	1 W (ERP)	
5000-5600 MHz	FX	NON	1 W (ERP)	

This authorization effective July 06, 2012 and
will expire 3:00 A.M. EST July 01, 2014

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MESA (MARICOPA), AZ - NL 33-28-09; WL 111-43-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5650-6000 MHz	FX	N0N	1 W (ERP)	
7700-11200 MHz	FX	N0N	1 W (ERP)	
11800-18000 MHz	FX	N0N	1 W (ERP)	

MESA (MARICOPA), AZ - NL 33-28-07; WL 111-43-40

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30-32 MHz	FX	N0N	10 W (ERP)	
50-52 MHz	FX	N0N	10 W (ERP)	
59-62 MHz	FX	N0N	10 W (ERP)	
70-72 MHz	FX	N0N	10 W (ERP)	
86-88 MHz	FX	N0N	10 W (ERP)	
108-108.15 MHz	FX	N0N	10 W (ERP)	

Frequency Information

MESA (MARICOPA), AZ - NL 33-28-07; WL 111-43-40

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
148-152 MHz	FX	N0N	10 W (ERP)	
170-176 MHz	FX	N0N	10 W (ERP)	
399.9-405.5 MHz	FX	N0N	10 W (ERP)	
406.5-445 MHz	FX	N0N	10 W (ERP)	
500-524 MHz	FX	N0N	10 W (ERP)	
658-662 MHz	FX	N0N	10 W (ERP)	
860-864 MHz	FX	N0N	10 W (ERP)	
1050-1080 MHz	FX	N0N	10 W (ERP)	
1214-1216 MHz	FX	N0N	10 W (ERP)	
1680-1690 MHz	FX	N0N	10 W (ERP)	

Frequency Information

MESA (MARICOPA), AZ - NL 33-28-07; WL 111-43-40

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1820-1830 MHz	FX	N0N	10 W (ERP)	
2020-2030 MHz	FX	N0N	1 W (ERP)	
2190-2400 MHz	FX	N0N	1 W (ERP)	
2500-2690 MHz	FX	N0N	1 W (ERP)	
2900-3800 MHz	FX	N0N	1 W (ERP)	
5000-5600 MHz	FX	N0N	1 W (ERP)	
5650-6000 MHz	FX	N0N	1 W (ERP)	
7700-11200 MHz	FX	N0N	1 W (ERP)	
11800-18000 MHz	FX	N0N	1 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.
- (2) 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.

Special Conditions:

- (3) Licensee should be aware that Federal Aviation Administration (FAA) stations may be licensed on frequencies in the bands 399.9-405.5 MHz, 406.5-445 MHz, 13250-14200 MHz, 14400-17700 MHz and 17800-18000 MHz, and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (4) 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 numbers N00019-92-C-0059 and N00019-99-C-1226. 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.
- (5) The frequency assignment in the bands 1050-1080 MHz, 1214-1216 MHz, 5000-5250 MHz and 9000-9200 MHz was coordinated prior to authorization with the FAA Western Coordinator, Los Angeles, California. Use of the frequency or band under the authority of this assignment is subject to such further coordination with the FAA Western Coordinator, Los Angeles, California as necessary to ensure compatibility with existing uses.
- (6) The frequency assignment in the band 2310-2390 MHz was coordinated prior to authorization with the Area Frequency Coordinator, Ft. Huachuca, Arizona, 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, Ft. Huachuca, as necessary to ensure compatibility with existing uses.
- (7) The designated point-of-contact to terminate transmissions if interference occurs is Mr. Mike Valle, (480) 891-3686
- (8) Operation is NOT PERMITTED using the frequency bands: 2690-2900 MHz, 410.2875-410.3125 MHz and 413.1-413.125 MHz.
- (9) The application is required to re-coordinate with Aerospace and Flight Test Radio Coordinating Council (AFTRCC) prior to submit renewal application.