

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WF2XFW

(Call Sign)

0071-EX-RR-2013

(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) Glasgow, MT - NL 48-25-18; WL 106-31-42

Frequency Information

Glasgow, MT - NL 48-25-18; WL 106-31-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30-72 MHz	FX	N0N	10 uW (ERP)	
76-108.5 MHz	FX	N0N	10 uW (ERP)	
108.8-111.7 MHz	FX	N0N	10 uW (ERP)	
112.2-113.8 MHz	FX	N0N	10 uW (ERP)	

This authorization effective April 30, 2013 and
will expire 3:00 A.M. EST April 03, 2015

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Glasgow, MT - NL 48-25-18; WL 106-31-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
114-116.2 MHz	FX	N0N	10 uW (ERP)	
116.4-118.225 MHz	FX	N0N	10 uW (ERP)	
119.375-121.4 MHz	FX	N0N	10 uW (ERP)	
123.75-125.825 MHz	FX	N0N	10 uW (ERP)	
126.95-133 MHz	FX	N0N	10 uW (ERP)	
133.5-135 MHz	FX	N0N	10 uW (ERP)	
135.675-163.765 MHz	FX	N0N	10 uW (ERP)	
164-167.1 MHz	FX	N0N	10 uW (ERP)	
167.8-172.2 MHz	FX	N0N	10 uW (ERP)	
172.4-242.8 MHz	FX	N0N	10 uW (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
244-255.2 MHz	FX	N0N	10 uW (ERP)	
255.6-270.8 MHz	FX	N0N	10 uW (ERP)	
271.2-282.5 MHz	FX	N0N	10 uW (ERP)	
282.7-285.3 MHz	FX	N0N	10 uW (ERP)	
285.5-305.1 MHz	FX	N0N	10 uW (ERP)	
305.3-330.4 MHz	FX	N0N	10 uW (ERP)	
330.6-364.1 MHz	FX	N0N	10 uW (ERP)	
364.9-414.5 MHz	FX	N0N	10 uW (ERP)	
414.65-419.1 MHz	FX	N0N	10 uW (ERP)	
419.6-607 MHz	FX	N0N	10 uW (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
615-1164 MHz	FX	N0N	10 uW (ERP)	
1189-1215 MHz	FX	N0N	10 uW (ERP)	
1240-1367 MHz	FX	N0N	10 uW (ERP)	
1394-1400 MHz	FX	N0N	10 uW (ERP)	
1427-1563 MHz	FX	N0N	10 uW (ERP)	
1588-1660.5 MHz	FX	N0N	10 uW (ERP)	
1668.4-2690 MHz	FX	N0N	10 uW (ERP)	
2700-2705 MHz	FX	N0N	10 uW (ERP)	
2715-2770 MHz	FX	N0N	10 uW (ERP)	
2780-3650 MHz	FX	N0N	10 uW (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3700-4200 MHz	FX	N0N	10 uW (ERP)	
4400-4990 MHz	FX	N0N	10 uW (ERP)	
5000-7125 MHz	FX	N0N	10 uW (ERP)	
8500-10680 MHz	FX	N0N	10 uW (ERP)	
10700-15350 MHz	FX	N0N	10 uW (ERP)	
15400-18000 MHz	FX	N0N	10 uW (ERP)	

Special Conditions:

- (1) 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.
- (2) Operation in the 824-849 or 869-894 MHz band requires consent of local cellular licensee(s) to avoid interference.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) Operation is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9102 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.
- (5) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (6) 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.

Special Conditions:

- (7) Licensee must NOTCH OUT the following frequencies +/- 10 KHz: M108.7000, M111.8000, M112.0000, M112.1000, M113.9000, M116.3000, M118.3250, M118.3750, M119.2750, M121.5000, M122.0000, M122.2000, M122.2500, M122.3500, M122.4500, M122.5500, M123.6000, M123.6500, M125.9250, M126.8500, M133.0250, M133.4000, M135.0750, M135.1750, M135.2250, M135.4750, M135.5750, M163.6750, M163.9625, M167.2875, M167.3125, M167.4125, M167.5125, M167.5625, M167.7375, M172.3000, M243.0000, M255.4000, M271.0000, M282.6000, M285.4000, M305.2000, M330.5000, M364.2000, M364.8000, M414.5750, M419.2000, M419.3000, M419.4750, M419.5250.
- (8) Operation is subject to prior coordination with Auxiliary Broadcasting, Fixed Microwave and Wireless Communications Service licensees.
- (9) Any operation in the 1850-1990 and 2130-2200 MHz band must be coordinated with the existing and future users to avoid interference.
- (10) In the 3650-3700 MHz band, licensee must maintain operation separation from grandfathered earth station as defined in Part 90 subpart z, or coordinate an agreement with the grandfathered earth station licensees.
- (11) Licensee must notify registered users in the area and will not cause interference to any existing registered stations in the 3650-3700 MHz band.
- (12) Licensee must get consent from existing Advanced Wireless Service (AWS) and Broadband Radio Services/Educational Broadband Services (BRS/EBS) licensees.
- (13) The Stop Buzzer, Points of Contact, Matt Williams, Desk 425-266-4141/Cell 360-813-4038 or James Skala, Desk 425-266-5671/Cell 425-876-0740 must be present during testing to turn off equipment if having interference.
- (14) All use of the telemetry bands must be on a secondary basis to aeronautical telemetry operation.
- (15) This frequency assignment in one of the bands 1435-1525, 2310-2320 and 2345-2390 MHz was coordinated prior to its authorization with AFMO CONUS, Ft. Sam Houston, Texas, 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 AFMO CONUS, Ft. Sam Houston, Texas, as necessary to ensure compatibility with existing uses.
- (16) Operation on this assignment is subject to immediate cessation, if it causes harmful interference to military operations.
- (17) Operation is subject to prior coordination with the FAA Northwest Coordinator, Seattle, Washington as necessary to ensure compatibility with existing uses.
- (18) Operation is NOT permitted on the frequency band 243-244 MHz, 406-406.1 MHz, 758-776 MHz, 788-806 MHz, 4200-4400 MHz and 7125-10680 MHz.
- (19) Licensee shall follow all Aerospace and Flight Test Radio Coordinating Council (AFTRCC) restrictions prior to operation the frequency band 1435-1525 MHz, 2310-2320 MHz and 2345-2390 MHz.
- (20) The licensee shall not constrain or limit the present or future growth of non-Federal and Federal radio services in the area of operations. Furthermore, the licensee shall
 - a) be responsible for remedying RF interference caused to non-Federal and Federal users including terminating transmissions if necessary to resolve interference.
 - b) maintain a transmission log as a standard operating procedure.
 - c) periodically check the FCC licensing databases to monitor the authorizations granted in the area of operation.