

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

EXPERIMENTAL

(Nature of Service)

WF2XVA

(Call Sign)

XT FX

(Class of Station)

0210-EX-CR-2021

(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(k) of the Commission's Rules

Station Locations

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

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30-74.6 MHz	FX	N0N	20 W (ERP)	
75.4-107.9 MHz	FX	N0N	20 W (ERP)	
137-225 MHz	FX	N0N	20 W (ERP)	
400-405 MHz	FX	N0N	20 W (ERP)	

This authorization effective July 01, 2021 and
will expire 3:00 A.M. EST July 01, 2023

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
407-412 MHz	FX	N0N	20 W (ERP)	
417-932 MHz	FX	N0N	20 W (ERP)	
935-941 MHz	FX	N0N	20 W (ERP)	
944-959 MHz	FX	N0N	20 W (ERP)	
1427-1435 MHz	FX	N0N	20 W (ERP)	
1535-1545 MHz	FX	N0N	20 W (ERP)	
1610-1645.5 MHz	FX	N0N	20 W (ERP)	
1668.4-1710 MHz	FX	N0N	20 W (ERP)	
1847-2700 MHz	FX	N0N	20 W (ERP)	
3100-4200 MHz	FX	N0N	20 W (ERP)	

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4400-5000 MHz	FX	N0N	20 W (ERP)	
5250-5600 MHz	FX	N0N	20 W (ERP)	
5650-7125 MHz	FX	N0N	20 W (ERP)	
8500-9000 MHz	FX	N0N	20 W (ERP)	
9200-9300 MHz	FX	N0N	20 W (ERP)	
9500-14523 MHz	FX	N0N	20 W (ERP)	
15322-15700 MHz	FX	N0N	20 W (ERP)	
16200-18000 MHz	FX	N0N	20 W (ERP)	

Special Conditions:

- (1) Operation in the 824-849 or 869-894 MHz band requires consent of local cellular licensee(s) 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.

Special Conditions:

- (3) 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, TX, 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, TX, as necessary to ensure compatibility with existing uses.
- (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) Operations subject to coordination prior to activation and, as appropriate, possible scheduling with FAA WSA Office.
- (7) Licensee must notch out all frequencies per FAA prior coordination and is subject to immediate shut down in the event of any harmful interference.
- (8) Operation is NOT PERMITTED in the frequency 75.2 -75.4 MHz, 156.775-156.825 MHz, 161.95-162.05 MHz, 608-614 MHz and 15350-15400 MHz.
- (9) Maintain separation from grandfathered earth stations as defined in Part 90 subpart Z, or coordinate an agreement with the grandfathered earth station licensees prior to operation on 3650-3700 MHz.
- (10) Consult the ULS database to ensure that the operations will not cause harmful interference to any existing registered stations in the 3650-3700 MHz, and notify registered users in the area prior to operation on 3650-3700 MHz.
- (11) The licensee shall not constrain or limit the present or future growth of non-Federal and Federal radio services in the area of operation. Furthermore, the licensee shall:
(1.) be responsible for remedying RF interference caused to non-Federal and Federal users including terminating transmissions if necessary to resolve interference, (2.) maintain a transmission log as a standard operating procedure, (3.) periodically check the FCC licensing databases to monitor the authorizations granted in the area of operation, and (4.) notify appropriate the FCC Field Office(s) of the test locations and duration of operation.
Matt Williams, Desk 425-342-5891/Cell# 360-813-4038
James Skala, Desk 425-266-5671/Cell# 425-876-0740
- (12) The designated point-of-contact to terminate transmission if interference occurs is Wayne Cooper at 206-544-5429; Omar Zubi at 206-390-8493 and Stephen Henning at 206-949-4469.
- (13) The bands 2310-2320 MHz and 2345-2360 MHz have been reallocated on a primary basis to the Wideband Communications Service (WCS). Additional coordination with WCS is required.
- (14) Operation is NOT permitted using the frequency band 755-776 MHz and 788-806 MHz
- (15) Boeing must coordinate with Aerospace and Flight Test Radio Coordinating Council prior to operate 1435-1525 MHz, 2310-2320 MHz and 2345-2360 MHz for the renewal of license.
- (16) Operation is a subject to obtain consent from SIRUS XM radio. Inc. prior to operate the frequency band 2320-2345 MHz.
- (17) Operation is a subject to obtain consent from Global Star prior to operate the frequency band 2483-2501 MHz.

Special Conditions:

- (18) Prior to commencing any operations in the frequencies below, the applicant must obtain consent from the following within 50 miles of the contours of the testing area:
- Paging Service licensees in 35 MHz
 - Paging Service licensees in 43 MHz
 - Paging Service licensees in 152 MHz
 - Paging Service licensees in 158 MHz
 - Mobile Service licensees in 152 MHz/158 MHz
 - AMTS Licensee (217-218 MHz/219-220 MHz)
 - 218-219 MHz Service licensees
 - 220-222 MHz Service licensees
 - Mobile Service licensees in 454 MHz/459 MHz
 - General Aviation Air-Ground Service in 454 MHz/459 MHz
 - 700 MHz Lower Band licensees (698-746 MHz)
 - 700 MHz Upper Band licensees (746-758 MHz, 775-788 MHz, and 805-806 MHz)
 - SMR/ESMR licensees (809-824 MHz/854-869 MHz)
 - B/ILT licensees (809-824 MHz/854-869 MHz)
 - Cellular licensees (824-849 MHz/869-894 MHz)
 - Commercial Air-Ground licensee (849-851 MHz/894-896 MHz)
 - SMR licensees (896-901 MHz/935-940 MHz)
 - B/ILT licensees (896-901 MHz/935-940 MHz)
 - Narrowband PCS licensees (901-902/930-931/940-941 MHz)
 - Location & Monitoring Service licensees (902-928 MHz)
 - Paging Service licensees in 929 MHz and 931 MHz
 - 1392-1395 MHz/1432-1435 MHz Band licensees
 - 1670-1675 MHz Band licensee (Crown Castle International), and the lessee (One Dot Six Corp)
 - Broadband PCS licensees (1850-1910 MHz/1930-1990 MHz)
 - 1910-1915 MHz/1990-1995 MHz Bands licensee (T-Mobile)
 - WCS (2305-2320 MHz/2345-2360 MHz) licensee (AT&T)
- (19) The applicant must coordinate its operations in the 3550-3700 MHz band with one or more authorized Spectrum Access System (SAS) administrators to obtain channel assignments and avoid causing harmful interference to authorized users of the band, including General Authorized Access (GAA) users.
- (20) With respect to operations in the 3700-4200 MHz band, WTB/Mobility Division recommends that the applicant should be made aware that they must avoid causing interference to the existing Fixed Service operators and FSS earth stations in the band. For applicant's reference, a list of registered incumbent FSS earth stations in the band can be found at the following link:
<https://docs.fcc.gov/public/attachments/DA-20-823A2.xls>
- (21) Licensee must successfully secure consents from the Upper Microwave Flexible Use Service licensees in the proposed area prior to accessing to 417-932 MHz band.
- (22) Licensee must successfully secure consents from the Advanced Wireless Service licensees in the proposed area prior to accessing to 1668.4-1710 MHz band.
- (23) Licensee must successfully obtain consents from the Educational Broadband Service and Broadband Radio Service licensees prior to accessing to the frequency range from 2496 MHz to 2690 MHz.

Special Conditions:

- (24) Licensee must successfully coordinate with the local Society of Broadcast Engineers frequency coordinator prior to operation in the proposed frequency bands.
- (25) Licensee must successfully coordinate with Fixed Microwave Service licensees in accordance with 47 C.F.R, Part 101.103(d) prior to commencing experimental operations.