

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

EXPERIMENTALWF2XQA

(Nature of Service)

(Call Sign)

XTFX0009-EX-CR-2022

(Class of Station)

(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) Everett (SNOHOMISH), WA - NL 47-55-16; WL 122-16-42

Frequency Information

Everett (SNOHOMISH), WA - NL 47-55-16; WL 122-16-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30-72 MHz	FX	NON	10 uW (ERP)	
76-168 MHz	FX	NON	10 uW (ERP)	
169-172 MHz	FX	NON	10 uW (ERP)	
173.5-608 MHz	FX	NON	10 uW (ERP)	

This authorization effective April 01, 2022 and
 will expire 3:00 A.M. EST February 28, 2024

**FEDERAL
 COMMUNICATIONS
 COMMISSION**



Frequency Information

Everett (SNOHOMISH), WA - NL 47-55-16; WL 122-16-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
614-1164 MHz	FX	NON	10 uW (ERP)	
1189-1215 MHz	FX	NON	10 uW (ERP)	
1240-1367 MHz	FX	NON	10 uW (ERP)	
1394-1400 MHz	FX	NON	10 uW (ERP)	
1427-1559 MHz	FX	NON	10 uW (ERP)	
1610-1660.5 MHz	FX	NON	10 uW (ERP)	
1668.4-1820 MHz	FX	NON	10 uW (ERP)	
1830-2690 MHz	FX	NON	10 uW (ERP)	
2700-2705 MHz	FX	NON	10 uW (ERP)	
2715-2770 MHz	FX	NON	10 uW (ERP)	

Frequency Information

Everett (SNOHOMISH), WA - NL 47-55-16; WL 122-16-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4730-4760 MHz	FX	NON	10 uW (ERP)	
4790-4990 MHz	FX	NON	10 uW (ERP)	
5000-7125 MHz	FX	NON	10 uW (ERP)	
7125-7512 MHz	FX	NON	10 uW (ERP)	
7538-7655 MHz	FX	NON	10 uW (ERP)	
7675-7752 MHz	FX	NON	10 uW (ERP)	
7778-7857 MHz	FX	NON	10 uW (ERP)	
7883-8165 MHz	FX	NON	10 uW (ERP)	
8185-8272 MHz	FX	NON	10 uW (ERP)	
8298-10600 MHz	FX	NON	10 uW (ERP)	

Frequency Information

Everett (SNOHOMISH), WA - NL 47-55-16; WL 122-16-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10700-15350 MHz	FX	NON	10 uW (ERP)	
15400-18000 MHz	FX	NON	10 uW (ERP)	

Special Conditions:

- (1) Assignment in frequency band 960-1400, 2700-2900, or 9000-9200 MHz was coordinated prior to authorization with the FAA Northwest Coordinator, Seattle, WA. Use of frequencies under the authority of this assignment is subject to such further coordination with the FAA Northwest Coordinator, Seattle, WA, as necessary to ensure compatibility with existing uses.
- (2) 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.
- (3) Operation in the 824-849 or 869-894 MHz band requires consent of local cellular licensee(s) to avoid interference.
- (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) One or more frequency assignments were coordinated prior to authorization with FAA Headquarters, 800 Independence Avenue, S.W., Washington, DC 20591; Telephone: 202-267-8699.
- (7) 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.
- (8) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (9) This frequency assignment in one of the bands 1435-1525, 2310-2320 and 2345-2390 MHz was coordinated prior to its authorization with the Area Frequency Coordinator (AFC), 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 AFC, as necessary to ensure compatibility with existing uses.
- (10) The designated point-of-contact to terminate the transmissions if interference occurs is Stephen Henning, 206-544-8386/206-949-4469 and Omar Zubi, 206-390-8493.

Special Conditions:

- (11) Licensee must get consent from EBS/BRS and AWS licensees in the immediate geographic area prior to conducting the test.
- (12) Operation is NOT PERMITTED using the following frequency bands:
 - 240.6725 - 240.7000 MHz
 - 242.9875 - 243.0125 MHz
 - 253.9970 - 254.0030 MHz
 - 256.6945 - 256.7055 MHz
 - 272.8725 - 272.9000 MHz
 - 281.9970 - 282.0030 MHz
 - 328.1970 - 328.2030 MHz
 - 328.6000 - 335.4000 MHz
 - 384.6570 - 384.6680 MHz
 - 386.1570 - 386.1680 MHz
 - 386.5195 - 386.5305 MHz
 - 386.7570 - 386.7680 MHz
 - 386.9070 - 386.9180 MHz
 - 387.1945 - 387.2055 MHz
 - 388.0320 - 388.0430 MHz
 - 396.1570 - 396.1680 MHz
 - 396.5195 - 396.5305 MHz
 - 396.7570 - 396.7680 MHz
 - 396.9070 - 396.9180 MHz
 - 398.0320 - 398.0430 MHz
 - 406.0000 - 406.1000 MHz
- (13) Operation is NOT PERMITTED using the frequency band 108-137 MHz, 758-776 MHz, 788-806 MHz, 3550-4200 MHz and 5850-5925 MHz.

Special Conditions:

(14) Prior to commencing any operations in the frequencies below, the applicant must obtain consent from the following within 5 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 licensees (698-758 MHz and 775-788 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
- 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)

(15) The applicant must obtain consents from the Advanced Wireless Service licensees in the proposed area prior to accessing to the frequency ranges from 1695 MHz to 1780 MHz, and from 1915 MHz to 2200 MHz.

(16) The applicant must obtain consents from the Upper Microwave Flexible Use Service licensees in the proposed area prior to accessing to the frequency range from 614 MHz to 698 MHz.

(17) The applicant must obtain consents from the Educational Broadband Service and Broadband Radio Service licensees in proposed area prior to operation in the frequency range from 2496 MHz to 2690 MHz.

(18) The applicant must coordinate with the local Society of Broadcast Engineers frequency coordinator prior to operation in 76-168 MHz, 169-172 MHz, 173-608 MHz, 2025-2110 MHz, 2450-2500 MHz, 5000-7125 MHz, 10700-15350 MHz and 15400-18000 MHz bands.

(19) The applicant must coordinate with the Fixed Microwave Service licensees in the proposed venue in accordance with 47 C.F.R, Part 101.103(d) prior to operation in 2450-2498 MHz, 3700-4700 MHz, 8298-10600 MHz, 10700-15350 MHz and 15400-18000 MHz bands.