

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

EXPERIMENTAL

(Nature of Service)

XT MO

(Class of Station)

WF2XSR

(Call Sign)

0101-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(i) of the Commission's Rules

Station Locations

(1) MOBILE: Seattle, WA, within 15 km, centered around NL 47-30-57; WL 122-17-42

Frequency Information

MOBILE: Seattle, WA, within 15 km, centered around NL 47-30-57; WL 122-17-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
80 MHz	MO	6M36P0N	0.01 W (ERP)	
750 MHz	MO	6M36P0N	0.1 W (ERP)	
784 MHz	MO	6M36P0N	0.1 W (ERP)	
806 MHz	MO	6M36P0N	0.1 W (ERP)	

This authorization effective May 09, 2021 and
will expire 3:00 A.M. EST May 01, 2023

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Seattle, WA, within 15 km, centered around NL 47-30-57; WL 122-17-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
825 MHz	MO	6M36P0N	0.1 W (ERP)	
850 MHz	MO	6M36P0N	0.1 W (ERP)	
1050 MHz	MO	6M36P0N	0.01 W (ERP)	
1250 MHz	MO	6M36P0N	0.1 W (ERP)	
1300 MHz	MO	6M36P0N	0.1 W (ERP)	
1756 MHz	MO	6M36P0N	0.01 W (ERP)	
1950 MHz	MO	6M36P0N	0.01 W (ERP)	
2500 MHz	MO	6M36P0N	2 W (ERP)	
2950 MHz	MO	6M36P0N	1 W (ERP)	
4500 MHz	MO	6M36P0N	5 W (ERP)	

Frequency Information

MOBILE: Seattle, WA, within 15 km, centered around NL 47-30-57; WL 122-17-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5550 MHz	MO	6M36P0N	0.01 W (ERP)	
6980 MHz	MO	6M36P0N	1 W (ERP)	
7000 MHz	MO	6M36P0N	1 W (ERP)	
8000 MHz	MO	N0N	1 W (ERP)	
9410 MHz	MO	6M36P0N	1 W (ERP)	
9500 MHz	MO	6M36P0N	1 W (ERP)	
11000 MHz	MO	6M36P0N	2 W (ERP)	
15000 MHz	MO	6M36P0N	3 W (ERP)	
16200-17300 MHz	MO	6M36P0N	0.61 W (ERP)	
20000 MHz	MO	6M36P0N	0.01 W (ERP)	

Frequency Information

MOBILE: Seattle, WA, within 15 km, centered around NL 47-30-57; WL 122-17-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
36500 MHz	MO	6M36P0N	1 W (ERP)	
36500 MHz	MO	6M36P0N	0.01 W (ERP)	
35 GHz	MO	N0N 6M36P0N	1 W (ERP)	

Special Conditions:

- (1) Licensee must be made aware that the bands, 1695-1710 MHz, 1755 MHz-1780 MHz and 2155-2180 MHz, are in the AWS 3 band to be licensed in the Commission's current auction proceedings. This license authorization can potentially be impacted as a result of the proceedings and licensee is advised to use another band for long term operation.
- (2) Operation in the 824-849 or 869-894 MHz band requires consent of local cellular licensee(s) to avoid interference.
- (3) 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.
- (4) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (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) 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) Operation is NOT PERMITTED using the frequency 25 MHz and 975 MHz due to harmful interference to Federal Government operations.
- (8) Licensee is authorized using the frequency 1050 MHz instead of using the frequency 975 MHz for this experiment.
- (9) The designated point-of-contact to terminate transmissions if interference occurs is Derreck Martin at 425-234-9761.
- (10) Operation must get consent from Education Broadband Service licensees prior to operation on 2500 MHz.
- (11) Operation is NOT PERMITTED using the frequency 775 MHz and 800 MHz.

Special Conditions:

(12) All testing must avoid transmissions into the following sector 166-176 degrees.