

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

EXPERIMENTAL
(Nature of Service)

WF2XBK
(Call Sign)

XT FX
(Class of Station)

0431-EX-CR-2020
(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
- (2) Klamath Falls, OR - NL 42-09-22; WL 121-43-59
- (3) Marana, AZ - NL 32-30-39; WL 111-19-21

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
407 MHz	FX	NON	30 W (ERP)	0.001 %
417 MHz	FX	NON	30 W (ERP)	0.001 %
427 MHz	FX	NON	30 W (ERP)	0.001 %
437 MHz	FX	NON	30 W (ERP)	0.001 %

This authorization effective October 01, 2020 and
will expire 3:00 A.M. EST October 01, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
447 MHz	FX	N0N	30 W (ERP)	0.001 %
457 MHz	FX	N0N	30 W (ERP)	0.001 %
468 MHz	FX	N0N	30 W (ERP)	0.001 %
479 MHz	FX	N0N	30 W (ERP)	0.001 %
708 MHz	FX	N0N	30 W (ERP)	0.001 %
724 MHz	FX	N0N	30 W (ERP)	0.001 %
741 MHz	FX	N0N	30 W (ERP)	0.001 %
813 MHz	FX	N0N	30 W (ERP)	0.001 %
832 MHz	FX	N0N	30 W (ERP)	0.001 %
851 MHz	FX	N0N	30 W (ERP)	0.001 %

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
871 MHz	FX	N0N	30 W (ERP)	0.001 %
891 MHz	FX	N0N	30 W (ERP)	0.001 %
912 MHz	FX	N0N	30 W (ERP)	0.001 %
1445 MHz	FX	N0N	30 W (ERP)	0.001 %
1738 MHz	FX	N0N	30 W (ERP)	0.001 %
1778 MHz	FX	N0N	30 W (ERP)	0.001 %
1862 MHz	FX	N0N	30 W (ERP)	0.001 %
1905 MHz	FX	N0N	30 W (ERP)	0.001 %
1950 MHz	FX	N0N	30 W (ERP)	0.001 %
2344 MHz	FX	N0N	30 W (ERP)	0.001 %

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2399 MHz	FX	N0N	30 W (ERP)	0.001 %
2455 MHz	FX	N0N	30 W (ERP)	0.001 %
2512 MHz	FX	N0N	30 W (ERP)	0.001 %
2570 MHz	FX	N0N	30 W (ERP)	0.001 %
2630 MHz	FX	N0N	30 W (ERP)	0.001 %
5012 MHz	FX	N0N	30 W (ERP)	0.001 %
5129 MHz	FX	N0N	30 W (ERP)	0.001 %
5248 MHz	FX	N0N	30 W (ERP)	0.001 %
5370 MHz	FX	N0N	30 W (ERP)	0.001 %
5495 MHz	FX	N0N	30 W (ERP)	0.001 %

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5623 MHz	FX	N0N	30 W (ERP)	0.001 %

Klamath Falls, OR - NL 42-09-22; WL 121-43-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
417 MHz	FX	N0N	30 W (ERP)	0.001 %
427 MHz	FX	N0N	30 W (ERP)	0.001 %
437 MHz	FX	N0N	30 W (ERP)	0.001 %
447 MHz	FX	N0N	30 W (ERP)	0.001 %
457 MHz	FX	N0N	30 W (ERP)	0.001 %
468 MHz	FX	N0N	30 W (ERP)	0.001 %
479 MHz	FX	N0N	30 W (ERP)	0.001 %
708 MHz	FX	N0N	30 W (ERP)	0.001 %

Frequency Information

Klamath Falls, OR - NL 42-09-22; WL 121-43-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
724 MHz	FX	N0N	30 W (ERP)	0.001 %
741 MHz	FX	N0N	30 W (ERP)	0.001 %
813 MHz	FX	N0N	30 W (ERP)	0.001 %
832 MHz	FX	N0N	30 W (ERP)	0.001 %
851 MHz	FX	N0N	30 W (ERP)	0.001 %
871 MHz	FX	N0N	30 W (ERP)	0.001 %
891 MHz	FX	N0N	30 W (ERP)	0.001 %
912 MHz	FX	N0N	30 W (ERP)	0.001 %
1445 MHz	FX	N0N	30 W (ERP)	0.001 %
1738 MHz	FX	N0N	30 W (ERP)	0.001 %

Frequency Information

Klamath Falls, OR - NL 42-09-22; WL 121-43-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1778 MHz	FX	N0N	30 W (ERP)	0.001 %
1862 MHz	FX	N0N	30 W (ERP)	0.001 %
1905 MHz	FX	N0N	30 W (ERP)	0.001 %
1950 MHz	FX	N0N	30 W (ERP)	0.001 %
2344 MHz	FX	N0N	30 W (ERP)	0.001 %
2399 MHz	FX	N0N	30 W (ERP)	0.001 %
2455 MHz	FX	N0N	30 W (ERP)	0.001 %
2512 MHz	FX	N0N	30 W (ERP)	0.001 %
2570 MHz	FX	N0N	30 W (ERP)	0.001 %
2630 MHz	FX	N0N	30 W (ERP)	0.001 %

Frequency Information

Klamath Falls, OR - NL 42-09-22; WL 121-43-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5012 MHz	FX	N0N	30 W (ERP)	0.001 %
5129 MHz	FX	N0N	30 W (ERP)	0.001 %
5248 MHz	FX	N0N	30 W (ERP)	0.001 %
5370 MHz	FX	N0N	30 W (ERP)	0.001 %
5495 MHz	FX	N0N	30 W (ERP)	0.001 %
5623 MHz	FX	N0N	30 W (ERP)	0.001 %
5754 MHz	FX	N0N	30 W (ERP)	0.001 %

Marana, AZ - NL 32-30-39; WL 111-19-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
417 MHz	FX	N0N	30 W (ERP)	0.001 %
427 MHz	FX	N0N	30 W (ERP)	0.001 %

Frequency Information

Marana, AZ - NL 32-30-39; WL 111-19-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
437 MHz	FX	N0N	30 W (ERP)	0.001 %
447 MHz	FX	N0N	30 W (ERP)	0.001 %
457 MHz	FX	N0N	30 W (ERP)	0.001 %
468 MHz	FX	N0N	30 W (ERP)	0.001 %
479 MHz	FX	N0N	30 W (ERP)	0.001 %
708 MHz	FX	N0N	30 W (ERP)	0.001 %
724 MHz	FX	N0N	30 W (ERP)	0.001 %
741 MHz	FX	N0N	30 W (ERP)	0.001 %
813 MHz	FX	N0N	30 W (ERP)	0.001 %
832 MHz	FX	N0N	30 W (ERP)	0.001 %

Frequency Information

Marana, AZ - NL 32-30-39; WL 111-19-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
851 MHz	FX	N0N	30 W (ERP)	0.001 %
871 MHz	FX	N0N	30 W (ERP)	0.001 %
891 MHz	FX	N0N	30 W (ERP)	0.001 %
912 MHz	FX	N0N	30 W (ERP)	0.001 %
1445 MHz	FX	N0N	30 W (ERP)	0.001 %
1738 MHz	FX	N0N	30 W (ERP)	0.001 %
1778 MHz	FX	N0N	30 W (ERP)	0.001 %
1862 MHz	FX	N0N	30 W (ERP)	0.001 %
1905 MHz	FX	N0N	30 W (ERP)	0.001 %
1950 MHz	FX	N0N	30 W (ERP)	0.001 %

Frequency Information

Marana, AZ - NL 32-30-39; WL 111-19-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2344 MHz	FX	N0N	30 W (ERP)	0.001 %
2399 MHz	FX	N0N	30 W (ERP)	0.001 %
2455 MHz	FX	N0N	30 W (ERP)	0.001 %
2512 MHz	FX	N0N	30 W (ERP)	0.001 %
2570 MHz	FX	N0N	30 W (ERP)	0.001 %
2630 MHz	FX	N0N	30 W (ERP)	0.001 %
5012 MHz	FX	N0N	30 W (ERP)	0.001 %
5129 MHz	FX	N0N	30 W (ERP)	0.001 %
5248 MHz	FX	N0N	30 W (ERP)	0.001 %
5370 MHz	FX	N0N	30 W (ERP)	0.001 %

Frequency Information

Marana, AZ - NL 32-30-39; WL 111-19-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5495 MHz	FX	NON	30 W (ERP)	0.001 %
5623 MHz	FX	NON	30 W (ERP)	0.001 %
5754 MHz	FX	NON	30 W (ERP)	0.001 %

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 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.
- (3) Operation requires consent of affected Educational Broadband Service/Broadband Radio Service (EBS/BRS) licensees.
- (4) 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.
- (5) Operation is NOT permitted on the frequency 411 MHz in Klamath Falls, OR and Marana, AZ due to potential interference to Department of Homeland Security.
- (6) Operation is NOT permitted using the frequency 5754 MHz in Glasgow, MT.
- (7) Operation is subject to prior coordination with FAA Northwest Regional Office, 1601 Lind Avenue, S.W. Renton, Washington 98055; Phone 206-227-2464.
- (8) Operation is NOT permitted using the following frequencies: 759 MHz, 776 MHz, and 794 MHz.
- (9) Use of this frequency under the authority of this assignment is subject to further coordination with AFMO CONUS, FT. Sam Houston, Texas, as necessary compatibility with existing uses.
- (10) This frequency assign was coordinated prior to authorization with FAA Headquarters, 800 Independence Avenue, S. W., Washington, D.C. 20591.
- (11) Operation is subject to prior coordination with affected existing and future Fixed Microwave Service licensees in using the frequency bands: 1850-1990 and 2130-2200 MHz.

Special Conditions:

- (12) This frequency assignment in one of the bands 1435-1525, 2310-2320 and 2345-2390 MHz was coordinated prior to its authorization with Area Frequency Coordinator (AFC), who also coordinated it, as appropriate, with the Aerospace and Flight 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.
- (13) Licensee must consent from Advanced Wireless Service licensees before utilizing 1748 MHz.
- (14) The designated point-of-contact to terminate transmissions if interference occurs is Loren Ayotte (425) 647-5011.