

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WE2XSN

(Call Sign)

0427-EX-CR-2018

(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) Marana (PINAL), AZ - NL 32-30-42; WL 111-19-11

Frequency Information

Marana (PINAL), AZ - NL 32-30-42; WL 111-19-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30-74.6 MHz	FX	NON	20 W (ERP)	0.001 %
75.4-108 MHz	FX	NON	20 W (ERP)	0.001 %
137-225 MHz	FX	NON	20 W (ERP)	0.001 %
400-405 MHz	FX	100NON	20 W (ERP)	0.001 %

This authorization effective November 01, 2018 and
will expire 3:00 A.M. EST November 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Marana (PINAL), AZ - NL 32-30-42; WL 111-19-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
407-412 MHz	FX	100N0N	20 W (ERP)	0.001 %
417-932 MHz	FX	100N0N	20 W (ERP)	0.001 %
935-941 MHz	FX	N0N	20 W (ERP)	0.001 %
944-959 MHz	FX	N0N	20 W (ERP)	0.001 %
1427-1435 MHz	FX	N0N	20 W (ERP)	0.001 %
1535-1545 MHz	FX	N0N	20 W (ERP)	0.001 %
1610-1645.5 MHz	FX	N0N	20 W (ERP)	0.001 %
1668.4-1710 MHz	FX	N0N	20 W (ERP)	0.001 %
1847-2700 MHz	FX	N0N	20 W (ERP)	0.001 %
3100-4200 MHz	FX	N0N	20 W (ERP)	0.001 %

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4400-5000 MHz	FX	N0N	20 W (ERP)	0.001 %
5250-5600 MHz	FX	N0N	20 W (ERP)	0.001 %
5650-7125 MHz	FX	N0N	20 W (ERP)	0.001 %
8500-9000 MHz	FX	N0N	20 W (ERP)	0.001 %
9200-9300 MHz	FX	N0N	20 W (ERP)	0.001 %
9500-14510 MHz	FX	N0N	20 W (ERP)	0.001 %
15322-15700 MHz	FX	N0N	20 W (ERP)	0.001 %
16200-18000 MHz	FX	N0N	20 W (ERP)	0.001 %

Special Conditions:

- (1) 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.
- (2) Operation in the 824-849 or 869-894 MHz band requires consent of local cellular licensee(s) to avoid interference.
- (3) The station identification requirements of Section 5.115 of the Commission's Rules are waived.

Special Conditions:

- (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) Licensee must notch out all frequencies per FAA prior coordination and is subject to immediate shut down in the event of any harmful interference.
- (6) Operation is NOT PERMITTED in the frequency band 73-74.6 MHz, 156.775-156.825MHz, 161.95-162.05 MHz, 2690-2700MHz, 3650-3700 MHz, 4940-5000 MHz, 10680-10700 MHz, 14510-14523 MHz and 15350-15400 MHz.
- (7) Operation is NOT PERMITTED using the frequency bands 756-775 MHz and 788-806 MHz.
- (8) 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
 - 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.
 - d- Notify appropriate the FCC Field Office(s) of the test locations and duration of operation.
 - e- The stop buzzer for this authorization is Farzad Keshvadian phone number 425-266-6847.
- (9) Operation is subject to coordination with the area frequency coordinator, State of Arizona, ATTN: SFIS FAC-SH, FT. HUACHUCA, AZ 85613-5000, and PHONE: (520) 538-6423; FAX (520) 538-8525; DSN 879-6423.
- (10) Licensee is NOT PERMITTED operation on any Public Safety frequencies listed under 47 CFR Rule 90.20.
- (11) Licensee must get consent from Advanced Wireless Service licensees in proposed area prior to operation on the requested frequency band 2110-2180 MHz.
- (12) Operation is NOT PERMITTED using the frequency band 75.2-75.4 MHz, 409.5625-409.5875 MHz, 409.5975-409.6125 MHz, 409.8375-409.8625 MHz.
- (13) Operation is subject to prior coordination with AFTRCC.