

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)

0403-EX-CR-2026
(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 (+/-)
30-73 MHz	FX	N0N	20 W (ERP)	0.001 %
75.4-108 MHz	FX	N0N	20 W (ERP)	0.001 %
137-225 MHz	FX	N0N	20 W (ERP)	0.001 %
400-405 MHz	FX	N0N	20 W (ERP)	0.001 %

This authorization effective August 01, 2026 and
will expire 3:00 A.M. ET August 01, 2028

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	N0N	20 W (ERP)	0.001 %
418.055-932 MHz	FX	N0N	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 %
3100-3549 MHz	FX	N0N	20 W (ERP)	0.001 %

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4400-4990 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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (2) 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.
- (3) Licensee must notch out all frequencies per FAA prior coordination and is subject to immediate shut down in the event of any harmful interference.

Special Conditions:

- (4) Operation is NOT PERMITTED in the frequency band 73-74.6 MHz, 156.775-156.825MHz, 161.95-162.05 MHz, 2690-2700MHz, 3550-4200 MHz, 4940-5000 MHz, 5850-5925 MHz, 10680-10700 MHz, 14510-14523 MHz and 15350-15400 MHz.
- (5) Operation is NOT PERMITTED using the frequency bands 756-775 MHz and 788-806 MHz.
- (6) 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 Omar Zubi (206)390-8493 or Wayne Cooper (206)544-5429.
- (7) 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.
- (8) Licensee is NOT PERMITTED operation on any Public Safety frequencies listed under 47 CFR Rule 90.20.
- (9) Licensee must get consent from Advanced Wireless Service licensees in proposed area prior to operation on the requested frequency band 2110-2180 MHz.
- (10) Operation is subject to prior coordination with AFTRCC.
- (11) A notification email of intended use will be sent to the DoD area frequency coordinator for State of Arizona (MARK.K.ROSSOW.CIVMAIL.MIL and JAMES.E.ORTEGA.CIVMAIL.MIL) between 24 hours and 72 hours to that use. The email will state that Boeing will be conducting HIRF using frequencies authorized under NG 084537 thru NG 084558.
- (12) Prior to renewal of this license, the Boeing Company must provide an updated AFTRCC coordination.
- (13) The applicant must obtain consents from all incumbent Advanced Wireless Service licensees in the proposed area prior to accessing to the frequency range from 1915 MHz to 2200 MHz.
- (14) The applicant must obtain consents from the Educational Broadband Service and Broadband Radio Service licensees in the proposed area prior to accessing to the frequency range from 2496 MHz to 2690 MHz.
- (15) The applicant must obtain consents from the 600 Megahertz Band licensees (Service Code: WT) in the proposed area prior to accessing to the frequency range from 614 MHz to 698 MHz.
- (16) The applicant must coordinate with the local Society of Broadcast Engineers frequency coordinator in the proposed area prior to performing High Intensity Radiated Fields testing.
- (17) The applicant must coordinate with the Fixed Microwave Service licensees in the proposed area in accordance with 47 C.F.R, Part 101.103(d) prior to commencing HIRF tests.

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)
 - ?Broadband PCS licensees (1850-1910 MHz/1930-1990 MHz)
 - ?1910-1915 MHz/1990-1995 MHz Band licensee (T-Mobile)
 - ?WCS (2305-2320 MHz/2345-2360 MHz) licensee (AT&T)
- (19) Prior to commencing any operations in Aeronautical and Fixed frequencies (1435-1525 MHz, 2360-2395 MHz), the applicant must coordinate with the Aerospace and Flight Test Radio Coordinating Council (AFTRCC).
- (20) Prior to operating in the 5895-5925 MHz band, the applicant must obtain consent from part 90 licensees in the IQ and QQ radio services operating DSRC or C-V2X systems in the geographic test area.

Special Conditions:

(21) Operation is not permitted using the following frequency bands

162.338 MHz +-5 kHz
165.613 MHz +-5 kHz
165.763 MHz +-8 kHz
166.175 MHz +-5 kHz
166.388 MHz +-5 kHz
169.225 MHz +-5 kHz
169.250 MHz +-5 kHz
169.350 MHz +-5 kHz
169.375 MHz +-5 kHz
172.175 MHz +-5 kHz
172.825 MHz +-5 kHz
172.850 MHz +-5 kHz
172.975 MHz +-5 kHz

(22) Operation is not permitted the use of the frequency bands:

400.175-400.975 MHz
417-418.05 MHz
449.75-450.25 MHz
608-614 MHz

(23) Prior to commencing any operations in the frequency range 1610-1618.725 MHz, The Boeing Company must notify Globalstar LLC, Mr. L. Barbee Ponder IV, Phone Number: 985-335-1503, E-Mail: Barbee.Ponder@globalstar.com of the subject operations. The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.

(24) Prior to commencing any operations in the frequency range 1617.725-1626.5 MHz, The Boeing Company must notify Iridium Constellation LLC, Mr. Joseph A. Godles, Esq., Phone Number: 202-429-4900, E-Mail: JGodles@g2w2.com of the subject operations. The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.

(25) Operation is not permitted using the frequency bands: 13750-13800 MHz, 10550-10750 MHz, 4990-5000 MHz, 2025-2120 MHz, 2200-2300 MHz, and 1400-1427 MHz.