

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

EXPERIMENTAL  
(Nature of Service)

WF2XEZ  
(Call Sign)

XT      FX  
(Class of Station)

0335-EX-PL-2009  
(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) San Antonio, TX - NL 29-22-10; WL 98-34-07

Frequency Information

San Antonio, TX - NL 29-22-10; WL 98-34-07

| Frequency   | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-------------|---------------|---------------------|------------------|---------------------------|
| 30-72 MHz   | FX            | NON                 | 10 uW (ERP)      | 0.001 %                   |
| 76-108 MHz  | FX            | NON                 | 10 uW (ERP)      | 0.001 %                   |
| 137-163 MHz | FX            | NON                 | 10 uW (ERP)      | 0.001 %                   |
| 165-239 MHz | FX            | NON                 | 10 uW (ERP)      | 0.001 %                   |

This authorization effective March 11, 2010 and  
will expire 3:00 A.M. EST October 31, 2010

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



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| Frequency       | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 240-242.5 MHz   | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 245-251 MHz     | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 252.5-254 MHz   | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 258-262.5 MHz   | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 263.5-265 MHz   | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 266-267.5 MHz   | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 268-269 MHz     | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 270.5-273.5 MHz | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 274-279.5 MHz   | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 281.6-285.3 MHz | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |

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| 286-291.6 MHz   | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 291.9-299 MHz   | FX            | N0N                 | 0.001 uW (ERP)   | 0.001 %                   |
| 301.5-306.7 MHz | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 307.4-317.4 MHz | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 319.2-322.6 MHz | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 322.8-329.5 MHz | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 330.9-332.8 MHz | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 333.3-343.6 MHz | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 343.8-346.3 MHz | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 346.5-348.5 MHz | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |

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|------------------|---------------|---------------------|------------------|---------------------------|
| 348.7-350.15 MHz | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 350.35-353.4 MHz | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 354.1-360.7 MHz  | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 360.9-363.15 MHz | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 364.3-370.75 MHz | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 371.95-379.8 MHz | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 381.5-392 MHz    | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 392.2-607 MHz    | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 615-1164 MHz     | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 1189-1201 MHz    | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |

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| 1203-1215 MHz   | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 1240-1367 MHz   | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 1394-1400 MHz   | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 1427-1559 MHz   | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 1610-1660.5 MHz | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 1668.4-2690 MHz | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 2700-2705 MHz   | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 2715-2770 MHz   | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 2780-3650 MHz   | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 3700-4200 MHz   | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |

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|-----------------|---------------|---------------------|------------------|---------------------------|
| 4400-4990 MHz   | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 5000-7125 MHz   | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 8500-9000 MHz   | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 9200-10680 MHz  | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 10700-15350 MHz | FX            | N0N                 | 10 uW (ERP)      | 0.001 %                   |
| 15400-18000 MHz | FX            | N0N                 | 10 uW (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 is subject to prior coordination with the Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9247 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) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (4) Operation in the 824-849 or 869-894 MHz band requires consent of local cellular licensee(s) to avoid interference.
- (5) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (6) 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.

**Special Conditions:**

- (7) Operation is NOT permitted on these frequencies: M163.1250, M164.4250, M75.000, M163.3625, M239.0250, M239.2750, M243.000, M244.5750, M251.0750, M252.000, M254.2500, M254.3750, M255.4000, M257.8000, M263.000, M265.4000, M267.9000, M269.1000, M269.4000, M270.2500, M273.5500, M279.5500, M279.600, M281.5000, M285.4500, M291.7500, M299.2000, M301.4000, M306.9000, M307.0000, M307.1000, M307.3000, M317.500, M317.6500, M318.1000, M318.8000, M319.1000, M322.5000, M322.7000, M324.3000, M329.6000, M330.5000, M330.6500, M330.8000, M332.9000, M333.2000, M343.7000, M346.4000, M348.6000, M350.2500, M353.5000, M353.6000, M354.0000, M360.8000, M363.2500, M364.2000, M370.8500, M371.8500, M379.9000, M381.4000, M392.1000.
- (8) Licensee must NOTCH OUT the following bands: 2705-2715 MHz, 2770-2780 MHz, 108-137 MHz, 979-1210 MHz, 1559-1610 MHz, 4200-4400 MHz, 7125-8500 MHz and 9000-9200 MHz.
- (9) The stop buzzer, point-of-contact, Matt Williams, cell 360-813-4038 or James Skala, cell 425-876-0740 must be present during testing to turn off equipment if interference is cause to federal operations in the San Antonio area.
- (10) Operation is subject to prior coordination with Auxiliary Broadcasting, Fixed Microwave and Wireless Communications Service licensees.
- (11) Any operation in the 1850-1990 and 2130-2200 MHz band must be coordinated with the existing and future users to avoid interference.
- (12) All use of the telemetry bands must be on a secondary basis to aeronautical telemetry operation. Sino Swearingen Aircraft Corporation is a licensed user of frequencies in the 1435 to 1525 MHz band and additional coordination may be required. Contact Mr. David Wells at 210-258-8687.
- (13) Licensee must get consent from existing Advanced Wireless Service (AWS) and Broadband Radio Services/Educational Broadband Services (BRS/EBS) licensees.
- (14) This frequency assignment in one of the bands 1435-1525, 2310-2320 and 2345-2390 MHz was coordinated prior to its authorization with AFMO CONUS, Ft. Sam Houston, Texas, 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 AFMO CONUS, Ft. Sam Houston, Texas, as necessary to ensure compatibility with existing uses.
- (15) Operation is subject to prior coordination with FAA Central Regional Office, 601 East 12 St, Kansa City, Missouri 64106, ATTN: Frequency Management Office, PH: 816-426-5647.
- (16) Use of this frequency band 1030 MHz, 1090 MHz, 1215-1400 MHz, 2700-3000 MHz under the authority of this assign is subject to further coordination with the FAA Southwest Coordinator, Ft. Worth, Texas, 76193-7246, ATTN: Frequency Management Office: PH: 817-740-3237, as necessary to ensure compatibility with existing uses.