

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

EXPERIMENTAL

(Nature of Service)

WE2XDB

(Call Sign)

XD FX MO

(Class of Station)

0295-EX-PL-2006

(File Number)

NAME Raytheon Aircraft 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(h) of the Commission's Rules

Station Locations

- (1) Wichita (SEDGWICK), KS - NL 37-41-15; WL 97-13-15; MOBILE: Wichita (SEDGWICK), KS, within 2 km, centered around NL 37-41-15; WL 97-13-15

Frequency Information

Wichita (SEDGWICK), KS - NL 37-41-15; WL 97-13-15; MOBILE: Wichita (SEDGWICK), KS, within 2 km, centered around N

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
540-2173 KHZ	FX	NON	15.2 W (ERP)	
2191-13660 KHZ	FX	NON	15.2 W (ERP)	
13670-25550 KHZ	FX	NON	15.2 W (ERP)	
25670-29999.99 KHZ	FX	NON	15.2 W (ERP)	

This authorization effective April 01, 2008 and
will expire 3:00 A.M. EST April 01, 2010

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Wichita (SEDGWICK), KS - NL 37-41-15; WL 97-13-15; MOBILE: Wichita (SEDGWICK), KS, within 2 km, centered around N

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
30-38 MHz	FX	N0N	15.2 W (ERP)	
38.25-73 MHz	FX	N0N	15.2 W (ERP)	
76-87.9 MHz	FX	N0N	15.2 W (ERP)	
102.9 MHz	FX	N0N	15.2 W (ERP)	
103.1 MHz	FX	N0N	15.2 W (ERP)	
410-500 MHz	FX	N0N	15.2 W (ERP)	
500-608 MHz	FX	N0N	1.2 W (ERP)	
614-960 MHz	FX	N0N	1.2 W (ERP)	
1427-1434 MHz	FX	N0N	1.2 W (ERP)	
1526-1660.5 MHz	FX	N0N	1.2 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1670-2309 MHz	FX	N0N	1.2 W (ERP)	
2400-2690 MHz	FX	N0N	1.2 W (ERP)	
3010-4990 MHz	FX	N0N	1.2 W (ERP)	
5600-8090 MHz	FX	N0N	1.2 W (ERP)	
9225-10680 MHz	FX	N0N	1.2 W (ERP)	
10700-15350 MHz	FX	N0N	1.2 W (ERP)	
15400-18000 MHz	FX	N0N	1.2 W (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) Notch the following frequencies within plus or minus 12.5 kHz:
M36.16; M39.58; M39.7; M410; M410.95; M411.95; M411.975; M413.825;
M413.875; M414.325; M414.5375; M460.6875; M460.7625; M460.8125;
M460.8625; M465.6625; M465.6875; M465.7375; M465.8375
- (3) Notch the following frequencies within plus or minus 10 MHz:
M5603; M7160

Special Conditions:

- (4) Notch the following frequency within plus or minus 12 MHz:

M1575.42

- (5) Operation is subject to prior coordination with existing fixed microwave service (Part 101) licensees in accordance with CFR 47, Part 101.103(d). The minimum radius of coordination around the proposed transmitter should be 30 km.
- (6) 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. The minimum radius of coordination around the proposed transmitter should be 100 km for the requested bands below 500 MHz and 30 km for those bands above 500 MHz.
- (7) Licensee should be aware that Federal Aviation Administration operations may be licensed on frequencies above 7125 MHz, and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (8) This frequency assignment in 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.
- (9) Operation is subject to prior coordination with affected existing and future Fixed Microwave Service licensees.
- (10) Licensee should be aware that AM Broadcast stations may be licensed on these frequencies, and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (11) Stop Buzzer: Jerry Tate, 316-990-2511.