

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

EXPERIMENTAL

(Nature of Service)

WG2XGS

(Call Sign)

XT FX MO

(Class of Station)

0311-EX-PL-2012

(File Number)

NAME Wichita State Univ. - National Institute for Aviation Research

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)	
2191-2495 kHz	FX	NON	15.2 W (ERP)	
2505-4995 kHz	FX	NON	15.2 W (ERP)	
5005-9995 kHz	FX	NON	15.2 W (ERP)	

This authorization effective October 05, 2012 and
will expire 3:00 A.M. EST October 01, 2014

**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 (+/-)
10005-13660 kHz	FX	N0N	15.2 W (ERP)	
25670-29999.99 kHz	FX	N0N	15.2 W (ERP)	
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)	
411-500 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)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1427-1434 MHz	FX	N0N	1.2 W (ERP)	
1526-1550 MHz	FX	N0N	1.2 W (ERP)	
1610-1660.5 MHz	FX	N0N	1.2 W (ERP)	
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) 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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) Operation is subject to prior coordination with affected existing and future Fixed Microwave Service licensees in accordance with 47 CFR, Part 101.103(d)
- (5) Licensee should get consent from existing and future Advance Wireless Services licensees.
- (6) Operation must be maintain separation from the incumbent, grandfathered fixed satellite service earth stations as defined in Part 90, Subpart Z.
- (7) Licensee should get consent from existing and future Broadband Radio Service/Educational Broadband Service (BRS/EBS) licensee(s) to avoid interference.
- (8) Licensee must notch 411.9625 MHz +/- 25 kHz, 413.825 MHz +/- 12.5 kHz, 413.875 MHz +/- 12.5 kHz, 414.0125 MHz +/- 12.5 kHz, 414.325 MHz +/- 12.5 kHz, 414.5375 MHz +/- 1.25 kHz, 460.6875 MHz +/- 1.25 kHz, 460.7625 MHz +/- 1.25 kHz, 460.8125 MHz +/- 1.25 kHz, 460.8625 MHz +/- 1.25 kHz, 465.6625 MHz +/- 1.25 kHz, 465.6875 MHz +/- 1.25 kHz, 465.7375 MHz +/- 1.25 kHz and 465.8375 MHz +/- 1.25 kHz.