

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

EXPERIMENTAL
(Nature of Service)

XR FX
(Class of Station)

KG2XAJ
(Call Sign)

0004-EX-ML-2010
(File Number)

NAME Southwest Research Institute

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(g) of the Commission's Rules

Station Locations

- (1) San Antonio (BEXAR), TX - NL 29-26-48; WL 98-36-29
- (2) Yancey, TX - NL 29-04-07; WL 99-11-09

Frequency Information

San Antonio (BEXAR), TX - NL 29-26-48; WL 98-36-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10 kHz	FX	NON	2000 W (ERP)	0.005 %
14 kHz	FX	NON	2000 W (ERP)	0.005 %
16 kHz	FX	NON	2000 W (ERP)	0.005 %
20.5 kHz	FX	NON	2000 W (ERP)	0.005 %

This authorization effective February 16, 2010 and
will expire 3:00 A.M. EST February 16, 2012

FEDERAL
COMMUNICATIONS
COMMISSION



Frequency Information

San Antonio (BEXAR), TX - NL 29-26-48; WL 98-36-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
25 kHz	FX	N0N	2000 W (ERP)	0.005 %
32 kHz	FX	N0N	2000 W (ERP)	0.005 %
40 kHz	FX	N0N	2000 W (ERP)	0.005 %
50 kHz	FX	N0N	2000 W (ERP)	0.005 %
64 kHz	FX	N0N	2000 W (ERP)	0.005 %
80 kHz	FX	N0N	2000 W (ERP)	0.005 %
111 kHz	FX	N0N	2000 W (ERP)	0.005 %
130 kHz	FX	N0N	2000 W (ERP)	0.005 %
160 kHz	FX	N0N	2000 W (ERP)	0.005 %
640 kHz	FX	N0N	2000 W (ERP)	0.005 %

Frequency Information

San Antonio (BEXAR), TX - NL 29-26-48; WL 98-36-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
810 kHz	FX	N0N	2000 W (ERP)	0.005 %
1000 kHz	FX	N0N	2000 W (ERP)	0.005 %
1300 kHz	FX	N0N	2000 W (ERP)	0.005 %
1995 kHz	FX	N0N	2000 W (ERP)	0.005 %
2600 kHz	FX	N0N	2000 W (ERP)	0.005 %
3200 kHz	FX	N0N	2000 W (ERP)	0.005 %
4060 kHz	FX	N0N	2000 W (ERP)	0.005 %
5100 kHz	FX	N0N	2000 W (ERP)	0.005 %
8100 kHz	FX	N0N	2000 W (ERP)	0.005 %
10100 kHz	FX	N0N	2000 W (ERP)	0.005 %

Frequency Information

San Antonio (BEXAR), TX - NL 29-26-48; WL 98-36-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13560 kHz	FX	N0N	2000 W (ERP)	0.005 %
16000 kHz	FX	N0N	2000 W (ERP)	0.005 %
20020 kHz	FX	N0N	2000 W (ERP)	0.005 %
27120 kHz	FX	N0N	2000 W (ERP)	0.005 %
33.3 MHz	FX	N0N	2000 W (ERP)	0.005 %
40.68 MHz	FX	N0N	2000 W (ERP)	0.005 %
54 MHz	FX	N0N	2000 W (ERP)	0.005 %
65 MHz	FX	N0N	2000 W (ERP)	0.005 %
81 MHz	FX	N0N	2000 W (ERP)	0.005 %
160 MHz	FX	N0N	2000 W (ERP)	0.005 %

Frequency Information

San Antonio (BEXAR), TX - NL 29-26-48; WL 98-36-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
209 MHz	FX	N0N	15800 W (ERP)	0.005 %
523 MHz	FX	N0N	15800 W (ERP)	0.005 %
661 MHz	FX	N0N	15800 W (ERP)	0.005 %
830 MHz	FX	N0N	15800 W (ERP)	0.005 %
915 MHz	FX	N0N	15800 W (ERP)	0.005 %
1850 MHz	FX	N0N	6320 W (ERP)	0.005 %
2100 MHz	FX	N0N	6320 W (ERP)	0.005 %
2450 MHz	FX	N0N	6320 W (ERP)	0.005 %
3290 MHz	FX	N0N	6320 W (ERP)	0.005 %
5800 MHz	FX	N0N	6320 W (ERP)	0.005 %

Frequency Information

San Antonio (BEXAR), TX - NL 29-26-48; WL 98-36-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6600 MHz	FX	N0N	6320 W (ERP)	0.005 %
8500 MHz	FX	N0N	6320 W (ERP)	0.005 %
10495 MHz	FX	N0N	6320 W (ERP)	0.005 %
13220 MHz	FX	N0N	6320 W (ERP)	0.005 %
18000 MHz	FX	N0N	6320 W (ERP)	0.005 %

Yancey, TX - NL 29-04-07; WL 99-11-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
523 MHz	FX	N0N	15800 W (ERP)	0.005 %
661 MHz	FX	N0N	15800 W (ERP)	0.005 %
830 MHz	FX	N0N	15800 W (ERP)	0.005 %
915 MHz	FX	N0N	15800 W (ERP)	0.005 %

Frequency Information

Yancey, TX - NL 29-04-07; WL 99-11-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1850 MHz	FX	N0N	6320 W (ERP)	0.005 %
2100 MHz	FX	N0N	6320 W (ERP)	0.005 %
2450 MHz	FX	N0N	6320 W (ERP)	0.005 %
3290 MHz	FX	N0N	6320 W (ERP)	0.005 %
5800 MHz	FX	N0N	6320 W (ERP)	0.005 %

Special Conditions:

- (1) 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.
- (2) Consent of the local licensee(s) is required prior to any operations on 65, 81, 209, 523, 661, 830, 915, and 1860 MHz to avoid interference.