

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

EXPERIMENTAL
(Nature of Service)

XR FX
(Class of Station)

WM2XUV
(Call Sign)

0571-EX-CR-2026
(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(e, f, j) of the Commission's Rules

Station Locations

- (1) San Antonio (BEXAR), TX - NL 29-26-42; WL 98-36-19
- (2) Eldorado (SCHLEICHER), TX - NL 30-55-46; WL 100-32-30
- (3) Sanderson (TERRELL), TX - NL 30-11-14; WL 102-34-04
- (4) Fort Stockton (PECOS), TX - NL 30-18-30; WL 102-42-55
- (5) Fort Stockton (PECOS), TX - NL 30-26-32; WL 102-38-15

Frequency Information

San Antonio (BEXAR), TX - NL 29-26-42; WL 98-36-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10.3 kHz	FX	2H00N0N	15 uW (ERP)	0.005 %
13 kHz	FX	2H00N0N	35 uW (ERP)	0.005 %
16.8 kHz	FX	2H00N0N	90 uW (ERP)	0.005 %

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

FEDERAL
COMMUNICATIONS
COMMISSION



Frequency Information

San Antonio (BEXAR), TX - NL 29-26-42; WL 98-36-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
21.9 kHz	FX	2H00N0N	250 uW (ERP)	0.005 %
28.4 kHz	FX	2H00N0N	725 uW (ERP)	0.005 %
36.8 kHz	FX	2H00N0N	2 mW (ERP)	0.005 %
47.8 kHz	FX	2H00N0N	6 mW (ERP)	0.005 %
62.1 kHz	FX	2H00N0N	20 mW (ERP)	0.005 %
80.6 kHz	FX	2H00N0N	50 mW (ERP)	0.005 %
111 kHz	FX	2H00N0N	140 mW (ERP)	0.005 %
135.7 kHz	FX	2H00N0N	370 mW (ERP)	0.005 %
176.2 kHz	FX	2H00N0N	1.5 W (ERP)	0.005 %
296.8 kHz	FX	2H00N0N	9 W (ERP)	0.005 %

Frequency Information

San Antonio (BEXAR), TX - NL 29-26-42; WL 98-36-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
440 kHz	FX	2H00N0N	41 W (ERP)	0.005 %
475.8 kHz	FX	2H00N0N	56 W (ERP)	0.005 %
493.7 kHz	FX	2H00N0N	70 W (ERP)	0.005 %

Eldorado (SCHLEICHER), TX - NL 30-55-46; WL 100-32-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10.3 kHz	FX	2H00N0N	15 uW (ERP)	0.005 %
13 kHz	FX	2H00N0N	35 uW (ERP)	0.005 %
16.8 kHz	FX	2H00N0N	90 uW (ERP)	0.005 %
21.9 kHz	FX	2H00N0N	250 uW (ERP)	0.005 %
28.4 kHz	FX	2H00N0N	725 uW (ERP)	0.005 %
36.8 kHz	FX	2H00N0N	2 mW (ERP)	0.005 %

Frequency Information

Eldorado (SCHLEICHER), TX - NL 30-55-46; WL 100-32-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
47.8 kHz	FX	2H00N0N	6 mW (ERP)	0.005 %
62.1 kHz	FX	2H00N0N	20 mW (ERP)	0.005 %
80.6 kHz	FX	2H00N0N	50 mW (ERP)	0.005 %
111 kHz	FX	2H00N0N	140 mW (ERP)	0.005 %
135.7 kHz	FX	2H00N0N	370 mW (ERP)	0.005 %
176.2 kHz	FX	2H00N0N	1.5 W (ERP)	0.005 %
296.8 kHz	FX	N0N	9 W (ERP)	0.005 %
457.9 kHz	FX	2H00N0N	48 W (ERP)	0.005 %
475.8 kHz	FX	2H00N0N	56 W (ERP)	0.005 %
493.7 kHz	FX	2H00N0N	70 W (ERP)	0.005 %

Frequency Information

Sanderson (TERRELL), TX - NL 30-11-14; WL 102-34-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10.3 kHz	FX	2H00N0N	15 uW (ERP)	0.005 %
13 kHz	FX	2H00N0N	35 uW (ERP)	0.005 %
16.8 kHz	FX	2H00N0N	90 uW (ERP)	0.005 %
21.9 kHz	FX	2H00N0N	250 uW (ERP)	0.005 %
28.4 kHz	FX	2H00N0N	725 uW (ERP)	0.005 %
36.8 kHz	FX	2H00N0N	2 mW (ERP)	0.005 %
47.8 kHz	FX	2H00N0N	6 mW (ERP)	0.005 %
62.1 kHz	FX	2H00N0N	20 mW (ERP)	0.005 %
80.6 kHz	FX	2H00N0N	50 mW (ERP)	0.005 %
111 kHz	FX	2H00N0N	140 mW (ERP)	0.005 %

Frequency Information

Sanderson (TERRELL), TX - NL 30-11-14; WL 102-34-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
135.7 kHz	FX	2H00N0N	370 mW (ERP)	0.005 %
176.2 kHz	FX	2H00N0N	1.5 W (ERP)	0.005 %
296.8 kHz	FX	2H00N0N	9 W (ERP)	0.005 %
440 kHz	FX	2H00N0N	41 W (ERP)	0.005 %
475.8 kHz	FX	2H00N0N	56 W (ERP)	0.005 %
493.7 kHz	FX	2H00N0N	70 W (ERP)	0.005 %

Fort Stockton (PECOS), TX - NL 30-18-30; WL 102-42-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10.3 kHz	FX	2H00N0N	15 uW (ERP)	0.005 %
13 kHz	FX	2H00N0N	35 uW (ERP)	0.005 %
16.8 kHz	FX	2H00N0N	90 uW (ERP)	0.005 %

Frequency Information

Fort Stockton (PECOS), TX - NL 30-18-30; WL 102-42-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
21.9 kHz	FX	2H00N0N	250 uW (ERP)	0.005 %
28.4 kHz	FX	2H00N0N	725 uW (ERP)	0.005 %
36.8 kHz	FX	2H00N0N	2 mW (ERP)	0.005 %
47.8 kHz	FX	2H00N0N	6 mW (ERP)	0.005 %
62.1 kHz	FX	2H00N0N	20 mW (ERP)	0.005 %
80.6 kHz	FX	2H00N0N	50 mW (ERP)	0.005 %
111 kHz	FX	2H00N0N	140 mW (ERP)	0.005 %
135.7 kHz	FX	2H00N0N	370 mW (ERP)	0.005 %
176.2 kHz	FX	2H00N0N	1.5 W (ERP)	0.005 %
296.8 kHz	FX	2H00N0N	9 W (ERP)	0.005 %

Frequency Information

Fort Stockton (PECOS), TX - NL 30-18-30; WL 102-42-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
440 kHz	FX	2H00N0N	41 W (ERP)	0.005 %
475.8 kHz	FX	2H00N0N	56 W (ERP)	0.005 %
493.7 kHz	FX	2H00N0N	70 W (ERP)	0.005 %

Fort Stockton (PECOS), TX - NL 30-26-32; WL 102-38-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10.3 kHz	FX	2H00N0N	15 uW (ERP)	0.005 %
13 kHz	FX	2H00N0N	35 uW (ERP)	0.005 %
16.8 kHz	FX	2H00N0N	90 uW (ERP)	0.005 %
21.9 kHz	FX	2H00N0N	250 uW (ERP)	0.005 %
28.4 kHz	FX	2H00N0N	725 uW (ERP)	0.005 %
36.8 kHz	FX	2H00N0N	2 mW (ERP)	0.005 %

Frequency Information

Fort Stockton (PECOS), TX - NL 30-26-32; WL 102-38-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
47.8 kHz	FX	2H00N0N	6 mW (ERP)	0.005 %
62.1 kHz	FX	2H00N0N	20 mW (ERP)	0.005 %
80.6 kHz	FX	2H00N0N	50 mW (ERP)	0.005 %
111 kHz	FX	2H00N0N	140 mW (ERP)	0.005 %
135.7 kHz	FX	2H00N0N	370 mW (ERP)	0.005 %
176.2 kHz	FX	2H00N0N	1.5 W (ERP)	0.005 %
296.8 kHz	FX	2H00N0N	9 W (ERP)	0.005 %
440 kHz	FX	2H00N0N	41 W (ERP)	0.005 %
475.8 kHz	FX	2H00N0N	56 W (ERP)	0.005 %
493.7 kHz	FX	2H00N0N	70 W (ERP)	0.005 %

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) 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) Stop Buzzer Contact: Timothy C. Watson, Jr, Telephone: (210) 522-5748, Email: timothy.watson@swri.org.