

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WF2XCH

(Call Sign)

0132-EX-CR-2021

(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(j) of the Commission's Rules

Station Locations

- (1) San Antonio (BEXAR), TX - NL 29-26-38; WL 98-36-52
- (2) San Antonio (BEXAR), TX - NL 29-26-43; WL 98-36-31
- (3) San Antonio (BEXAR), TX - NL 29-26-31; WL 98-36-04
- (4) San Antonio (BEXAR), TX - NL 29-26-43; WL 98-36-31

Frequency Information

San Antonio (BEXAR), TX - NL 29-26-38; WL 98-36-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	2M46G3D	3.97 pW (ERP)	
1575.42 MHz	FX	2M46G3D	23.55 pW (ERP)	

This authorization effective May 01, 2021 and
will expire 3:00 A.M. EST May 01, 2023

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1227.6 MHz	FX	2M46G3D	3.97 pW (ERP)	
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San Antonio (BEXAR), TX - NL 29-26-31; WL 98-36-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	2M46G3D	3.97 pW (ERP)	
1575.42 MHz	FX	2M46G3D	23.55 pW (ERP)	

San Antonio (BEXAR), TX - NL 29-26-43; WL 98-36-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1227.6 MHz	FX	2M46G3D	3.97 pW (ERP)	
1575.42 MHz	FX	2M46G3D	23.55 pW (ERP)	

Special Conditions:

- (1) GPS re-radiators are limited to a maximum EIRP value that will result in power levels not to exceed a power spectral density of -140 dBm/24 MHz measured at a distance of 100 ft from the building where the test is being conducted. Any malfunction, misalignment, or tampering of the equipment or its location which results in an increased power spectral density outside the building could cause harmful radio frequency interference to GPS receivers, including those in aircraft and/or ground based facilities.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) The designated point-of-contact to terminate transmissions if interference occurs is Mr. Ryan Lamm (210) 748-5130.
- (4) GPS users in the area of potential interference to GPS reception must be notified that GPS information may be impacted for periods of time.
- (5) Southwest Research Institute, shall post signs on doors to the test area notifying that, "GPS re-radiator is in use and the GPS information you receive may be in error."
- (6) The test equipment shall only be used indoors and shall be under the control of the Southwest Research Institute.
- (7) Operation is limited to activity for the purpose of testing radionavigation satellite service (RNSS) equipment and systems.