

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

EXPERIMENTAL

(Nature of Service)

WK2XEY

(Call Sign)

XT FX MO

(Class of Station)

0337-EX-CR-2021

(File Number)

NAME Fail-Safe Solutions, LLC

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) Braggs, OK - NL 35-40-15; WL 95-10-13; MOBILE: within the confines of Camp Gruber, Braggs, OK, centered around NL 35-40-15; WL 95-10-13

Frequency Information

Braggs, OK - NL 35-40-15; WL 95-10-13; MOBILE: within the confines of Camp Gruber, Braggs, OK, centered around NL 35-

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
138.05 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
138.425 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
138.65 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
139.1 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %

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

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Braggs, OK - NL 35-40-15; WL 95-10-13; MOBILE: within the confines of Camp Gruber, Braggs, OK, centered around NL 35-

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
139.35 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
139.775 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
140.05 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
140.55 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
140.85 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
141 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
170.125 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
170.55 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
171.25 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
172.375 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %

Frequency Information

Braggs, OK - NL 35-40-15; WL 95-10-13; MOBILE: within the confines of Camp Gruber, Braggs, OK, centered around NL 35-

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
172.55 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
173.55 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
453.125 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
453.7 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
454.1 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
454.325 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
454.8 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
455.05 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
455.425 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
456.65 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
458 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
458.75 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
459.775 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
466.05 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
466.75 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
467.85 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
468.125 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
468.25 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
468.55 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
469.375 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %

Frequency Information

Braggs, OK - NL 35-40-15; WL 95-10-13; MOBILE: within the confines of Camp Gruber, Braggs, OK, centered around NL 35-

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
469.75 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %
470.55 MHz	FX	12K5F9E	4.95 W (ERP)	0.0001 %

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) Fail-Safe Solutions, LLC must not exceed 12.5 KHz emission bandwidth for all frequencies requested.
- (4) The applicant must obtain consent from the following within 50 miles of the contours of the testing area:
 - Paging Service licensees in 454 MHz/459 MHz
 - General Aviation Air-Ground Service in 454 MHz/459 MHz
- (5) The applicant must coordinate with the local Society of Broadcast Engineers frequency coordinator prior to operation on the frequencies from 170.125 MHz, 453.125 MHz- 453.7 MHz, 455.05 - 455.425 MHz, and on 470.55 MHz.
- (6) Operation is NOT PERMITTED using the frequency band 170.55-172.55 MHz.
- (7) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by NAVMAR under contract N68335-10-6-0026-0014. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except a subsequently authorized by the Commission this radio station shall not be operated after the expiration date.