

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

XC MO

(Class of Station)

WR9XUI

(Call Sign)

1619-EX-ST-2021

(File Number)

NAME Southwest Research Institute

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

Support third-party government contract-related testing of small unmanned aerial systems (UAS) and radar signature systems.

Station Locations

- (1) MOBILE: Sanderson, TX, within 2 km, centered around NL 30-21-58; WL 102-40-49
- (2) MOBILE: Sanderson, TX, within 2 km, centered around NL 30-21-58; WL 102-40-49
- (3) MOBILE: Sanderson, TX, within 2 km, centered around NL 30-21-58; WL 102-40-49

Frequency Information

MOBILE: Sanderson, TX, within 2 km, centered around NL 30-21-58; WL 102-40-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420-449.75 MHz	MO	25K0FXN	10 W (ERP)	
450.25-460 MHz	MO	25K0FXN	10 W (ERP)	

This authorization effective October 25, 2021 and
will expire 3:00 A.M. EST November 30, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Sanderson, TX, within 2 km, centered around NL 30-21-58; WL 102-40-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
902-928 MHz	MO	300KFXN	10 W (ERP)	
2400-2485 MHz	MO	10M0WXN	10 W (ERP)	
5725-5850 MHz	MO	20M0WXN	10 W (ERP)	

MOBILE: Sanderson, TX, within 2 km, centered around NL 30-21-58; WL 102-40-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4400-4940 MHz	MO	5M64D7W 11M3D7W 22M6D7W	4 W (ERP)	

MOBILE: Sanderson, TX, within 2 km, centered around NL 30-21-58; WL 102-40-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3300-3400 MHz	MO	43M0M1N 21M5M1N 5M50M1N 4M40M1N 4M40M1N 3M70M1N 3M70M1N 17M6M1N 17M6M1N 14M7M1N	328 W (ERP)	

Frequency Information

MOBILE: Sanderson, TX, within 2 km, centered around NL 30-21-58; WL 102-40-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3300-3400 MHz	MO	14M7M1N	328 W (ERP)	
		11M0M1N		
		11M0M1N		
		8M80M1N		
		8M80M1N		
		7M30M1N		

Special Conditions:

- (1) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at <http://sbe.org/wp-content/uploads/freqcoor.pdf> to find the appropriate coordinator.
- (4) The stop buzzer contact is Dr. Cris Lewis (210) 522-3471, Email: cris.lewis@swri.org.
- (5) Prior to commencing any operations in the frequencies below, the applicant must obtain consent from the following within 50 miles of the contours of the testing area:
Mobile Service licensees in 454 MHz/459 MHz
General Aviation Air-Ground Service in 454 MHz/459 MHz
Location & Monitoring Service licensees (902-928 MHz)