

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

EXPERIMENTAL

(Nature of Service)

WH2XDZ

(Call Sign)

XC FX MO

(Class of Station)

0164-EX-CM-2019

(File Number)

NAME USU Research Foundation

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(c) of the Commission's Rules

Station Locations

- (1) Logan, UT - NL 41-46-42; WL 111-51-12; MOBILE: Logan, UT, within 40 km, centered around NL 41-46-42; WL 111-51-12
- (2) Virginia Beach, VA - NL 36-55-41; WL 76-01-09; MOBILE: Ft. Story, VA, within 20 km, centered around NL 36-55-41; WL 76-01-09
- (3) Santa Rosa (SONOMA), CA - NL 38-38-58; WL 122-48-51; MOBILE: Santa Rosa, CA, within 50 km, centered around NL 38-38-58; WL 122-48-51

Frequency Information

Logan, UT - NL 41-46-42; WL 111-51-12; MOBILE: Logan, UT, within 40 km, centered around NL 41-46-42; WL 111-51-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.4-14.83 GHz	MO		3 W (ERP)	
		800KG1D		
		1M60G1D		
		3M42G1D		
		8M00G1D		
		6M84G1D		
		21M4G1D		
		64M0G1D		
		89M5G1D		

This authorization effective July 24, 2019 and
will expire 3:00 A.M. EST June 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Logan, UT - NL 41-46-42; WL 111-51-12; MOBILE: Logan, UT, within 40 km, centered around NL 41-46-42; WL 111-51-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15.15-15.35 GHz	MO	800KG1D 1M60G1D 3M42G1D 8M00G1D 6M84G1D 21M4G1D 64M0G1D 89M5G1D	668 W (ERP)	

Virginia Beach, VA - NL 36-55-41; WL 76-01-09; MOBILE: Ft. Story, VA, within 20 km, centered around NL 36-55-41; WL 76-0

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.4-14.83 GHz	MO	800KG1D 1M60G1D 3M42G1D 8M00G1D 6M84G1D 21M4G1D 64M0G1D 89M5G1D	3 W (ERP)	
15.15-15.35 GHz	MO	800KG1D 1M60G1D 3M42G1D 8M00G1D 6M84G1D 21M4G1D 64M0G1D 89M5G1D	668 W (ERP)	

Frequency Information

Santa Rosa (SONOMA), CA - NL 38-38-58; WL 122-48-51; MOBILE: Santa Rosa, CA, within 50 km, centered around NL 38-3

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14.4-14.83 GHz	MO	800KG1D 1M60G1D 3M42G1D 8M00G1D 6M84G1D 21M4G1D 64M0G1D 89M5G1D	3 W (ERP)	
15.15-15.35 GHz	MO	800KG1D 1M60G1D 3M42G1D 8M00G1D 6M84G1D 21M4G1D 64M0G1D 89M5G1D	668 W (ERP)	

Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (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) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government; contract number N00173-12-D-2004. 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 as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (5) Operations must be prior coordinated and consented with the incumbent licensees within 14.4-14.83 GHz.
- (6) Operation must not exceed 8200 ft AGL.

Special Conditions:

- (7) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.