

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

EXPERIMENTAL

(Nature of Service)

WL9XRA

(Call Sign)

XT FX MO

(Class of Station)

1100-EX-ST-2017

(File Number)

NAME Insitu

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:

Data link Testing and Demonstration

Station Locations

- (1) Bingen (KLICKITAT), WA - NL 45-42-24; WL 121-27-30
- (2) Boardman Range, OR - NL 45-44-54; WL 119-47-38
- (3) MOBILE: Airborne operations; Max Flight Level 4000 feet, within 20 km, centered around NL 45-44-54; WL 119-47-38

Frequency Information

Bingen (KLICKITAT), WA - NL 45-42-24; WL 121-27-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
925-960 MHz	FX	35M0D1D	12.1 W (ERP)	
1710-1880 MHz	FX	75M0D1D	6.1 W (ERP)	
2300-2320 MHz	FX	11M0D1D	170 W (ERP)	

This authorization effective August 21, 2017 and
will expire 3:00 A.M. EST February 16, 2018

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Bingen (KLICKITAT), WA - NL 45-42-24; WL 121-27-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2300-2320 MHz	FX	22M0D1D	170 W (ERP)	
2345-2360 MHz	FX	11M0D1D 22M0D1D	170 W (ERP)	
2390-2480 MHz	FX	11M0D1D 22M0D1D	170 W (ERP)	

Boardman Range, OR - NL 45-44-54; WL 119-47-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2300-2320 MHz	FX	11M0D1D 22M0D1D	170 W (ERP)	
2345-2360 MHz	FX	11M0D1D 22M0D1D	170 W (ERP)	
2390-2480 MHz	FX	11M0D1D 22M0D1D	170 W (ERP)	

Frequency Information

MOBILE: Airborne operations; Max Flight Level 4000 feet, within 20 km, centered around NL 45-44-54; WL 119-47-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
925-960 MHz	MO	35M0D1D	4 W (ERP)	
1710-1880 MHz	MO	75M0D1D	7.6 W (ERP)	
2300-2320 MHz	MO	11M0D1D 22M0D1D	6.3 W (ERP)	
2345-2360 MHz	MO	11M0D1D 22M0D1D	6.3 W (ERP)	
2390-2483 MHz	MO	11M0D1D 22M0D1D	6.3 W (ERP)	

Special Conditions:

- (1) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at http://freq.sbe.org/pdf_files/coordinators.pdf to find the appropriate coordinator.
- (2) Operation in the 1695-1780 MHz, 1915-1920 MHz, 1995-2020 MHz or 2110-2200 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.
- (3) 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.
- (4) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (5) Operation in the frequency bands 925-960 MHz and 2390-2483 MHz must be prior coordinated Fixed Microwave licensees.
- (6) Operation in the frequency bands 925-960 MHz and 2390-2483 MHz must be prior coordinated with local SBE frequency coordinator.

Special Conditions:

- (7) Operation is subject to consent of the following within 50 miles of the test area:
 - * SMR licensees (896-901 MHz/935-940 MHz)
 - * All WCS licensees (2305-2320 MHz/2345-2360 MHz)
 - * All Broadband PCS licensee (1850-1910 MHz/1930-1990 MHz)
- (8) Stop buzzer point of contact for this operation is the Operations Action Center at 509-637-4691.
- (9) Operations in the bands 2305-2320 MHz and 2345-2360 MHz must comply with the emission limits applicable to those bands. See 47 C.F.R. § 27.53(a).
- (10) Further requests for extension of the authority granted herein must be filed on Form 442, "Application for New or Modified Radio Station Authorization under Part 5 of FCC Rules - Experimental Radio Service." Future STA requests to extend this authorization will not be considered.
- (11) Obtain consents from the Broadband Radio Service licensees prior to operation in 2390-2483 MHz band.
- (12) Insitu must ensure the C2 operations are confined to the restricted air space in the Boardman Range.