

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

EXPERIMENTAL

(Nature of Service)

WJ2XYU

(Call Sign)

XD FX MO

(Class of Station)

0707-EX-CR-2020

(File Number)

NAME Insitu

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) Bingen (KCLICKITAT), WA - NL 45-42-24; WL 121-27-30
- (2) Boardman (MORROW), OR - NL 45-44-54; WL 119-47-38
- (3) MOBILE: Restricted Airspace Max Flight Level 8K feet, within 20 km, centered around NL 45-44-54; WL 119-47-38

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
942.5 MHz	FX	35M0D1D	3.9 W (ERP)	
1710-1880 MHz	FX	75M0D1D	4.85 W (ERP)	
2310 MHz	FX	11M0D1D 20M0D1D	136.5 W (ERP)	
2350 MHz	FX	11M0D1D	136.5 W (ERP)	

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

**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 (+/-)
2350 MHz	FX	20M0D1D	136.5 W (ERP)	
2395-2500 MHz	FX	11M0D1D 20M0D1D	136.5 W (ERP)	

Boardman (MORROW), OR - NL 45-44-54; WL 119-47-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2310 MHz	FX	11M0D1D 20M0D1D	136.5 W (ERP)	
2350 MHz	FX	11M0D1D 20M0D1D	136.5 W (ERP)	
2395-2500 MHz	FX	11M0D1D 20M0D1D	136.5 W (ERP)	

MOBILE: Restricted Airspace Max Flight Level 8K feet, within 20 km, centered around NL 45-44-54; WL 119-47-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
942.5 MHz	MO	35M0D1D	3.9 W (ERP)	

Frequency Information

MOBILE: Restricted Airspace Max Flight Level 8K feet, within 20 km, centered around NL 45-44-54; WL 119-47-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1710-1880 MHz	MO	75M0D1D	4.85 W (ERP)	
2310 MHz	MO	11M0D1D 20M0D1D	7.7 W (ERP)	
2350 MHz	MO	11M0D1D 20M0D1D	7.7 W (ERP)	
2395-2500 MHz	MO	11M0D1D 20M0D1D	7.7 W (ERP)	

Special Conditions:

- (1) Operation is subject to prior coordination with affected Educational Broadband Service/Broadband Radio Service (EBS/BRS) licensees.
- (2) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (3) 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.
- (4) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at https://www.sbe.org/sections/freq_local.php to find the appropriate coordinator.
- (5) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (6) 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.
- (7) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (8) Insitu must notch out the following (+/- 9.25 MHz); 1790 MHz, 1815 MHz, 1840 MHz at the Boardman, OR location.
- (9) Insitu must ensure that operations occur within either restricted airspace or a COA.

Special Conditions:

- (10) Stop buzzer for this operation is Insitu the Operations Action Center at 866-637-4691.
- (11) The authorized station herein must not be used for air traffic control communications.
- (12) Prior to commencing any operations, the licensee must obtain consent from the following within 127 miles of the contours of the testing area:
 - SMR licensees (896-901 MHz/935-940 MHz)
 - B/ILT licensees (896-901 MHz/935-940 MHz)
 - Narrowband PCS licensees (901-902/930-931/940-941 MHz)
 - Location & Monitoring Service licensees (902-928 MHz)
 - Paging Service licensees in 929 MHz and 931 MHz
 - Broadband PCS licensees (1850-1910 MHz/1930-1990 MHz)
 - WCS (2305-2320 MHz/2345-2360 MHz) licensee (AT&T)
- (13) Aeronautical mobile operations in 2305-2310 MHz is not permitted (per Table of Frequency Allocations in rule Section 2.106 which specifically precludes the use of 2305-2310 MHz for aeronautical mobile)