

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

EXPERIMENTAL

(Nature of Service)

WJ2XZF

(Call Sign)

XD FX MO

(Class of Station)

0002-EX-CN-2019

(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, WA - NL 45-42-24; WL 121-27-30; MOBILE: Bingen, WA. Indoor Ground Testing, within 1 km, centered around NL 45-42-24; WL 121-27-30
- (2) Boardman, OR - NL 45-44-54; WL 119-47-38
- (3) Boardman, OR - NL 45-44-54; WL 119-47-38; MOBILE: Maximum Flight Level is 4000 feet, Boardman, OR, within 20 km, centered around NL 45-44-54; WL 119-47-38

Frequency Information

Bingen, WA - NL 45-42-24; WL 121-27-30; MOBILE: Bingen, WA. Indoor Ground Testing, within 1 km, centered around NL 45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
869.2-893.8 MHz	FX	290KG9W 4M08D7W	16 W (ERP)	
871.4-891.6 MHz	FX	290KG9W 4M08D7W	70 W (ERP)	
925.2-959.8 MHz	FX	290KG9W	16 W (ERP)	

This authorization effective March 25, 2019 and
will expire 3:00 A.M. EST April 01, 2021

**FEDERAL
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925.2-959.8 MHz	FX	4M08D7W	16 W (ERP)	
927.4-957.6 MHz	FX	290KG9W 4M08D7W	70 W (ERP)	
2412-2462 MHz	FX	22M0G1D 22M0W7D	6 W (ERP)	
5275-5850 MHz	FX	22M0G1D 22M0W7D	1.25 W (ERP)	

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

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869.2-893.8 MHz	FX	290KG9W 4M08D7W	16 W (ERP)	
871.4-891.6 MHz	FX	290KG9W 4M08D7W	70 W (ERP)	
925.2-959.8 MHz	FX	290KG9W 4M08D7W	16 W (ERP)	
927.4-957.6 MHz	FX	290KG9W	70 W (ERP)	

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Special Conditions:

- (1) Operation is subject to prior coordination with affected Educational Broadband Service/Broadband Radio Service (EBS/BRS) licensees.
- (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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (5) Insitu must not operate in the 5850 - 5875 MHz band. The Dedicated Short-Range communications (DSRC) technology has a co-primary allocation in this band and is used for collision avoidance in surface transportation.
- (6) Secure consents from the Advance Wireless Service licensees prior to accessing to 1710-1785 MHz, and 2110-2170 MHz, bands.
- (7) Operation is subject to obtain consent from the following within 50 miles of the contours of the testing area:
 - Cellular licensees (824-849 MHz/869-894 MHz)
 - 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
- (8) Coordinate with the incumbent fixed microwave in the 925.2-959.8 MHz, 927.4-957.6 MHz, and 2450-2462 MHz bands in each corresponding proposed venue prior to commence operation.