

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

EXPERIMENTAL

(Nature of Service)

WG2XIU

(Call Sign)

XC FX MO

(Class of Station)

0175-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(c) of the Commission's Rules

Station Locations

- (1) Boardman (MORROW), OR - NL 45-44-52; WL 119-48-11
- (2) MOBILE: 5,000 foot flight level around lat/long, within 20 km, centered around NL 45-44-52; WL 119-48-11

Frequency Information

Boardman (MORROW), OR - NL 45-44-52; WL 119-48-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1375.5 MHz	FX	11M0D1D	766 W (ERP)	
2390-2489 MHz	MO	22M0D1D	3049 W (ERP)	
4411-4789 MHz	FX	22M0D1D	2475 W (ERP)	

This authorization effective July 01, 2020 and
will expire 3:00 A.M. EST July 01, 2022

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Frequency Information

MOBILE: 5,000 foot flight level around lat/long, within 20 km, centered around NL 45-44-52; WL 119-48-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1375.5 MHz	MO	11M0D1D	2 W (ERP)	
2390-2489 MHz	MO	22M0D1D	2 W (ERP)	
4411-4789 MHz	MO	22M0D1D	2 W (ERP)	

Special Conditions:

- (1) One or more frequency assignments were coordinated prior to authorization with FAA Headquarters, 800 Independence Avenue, S.W., Washington, DC 20591; Telephone: 202-267-8699.
- (2) This frequency assignment in one of the bands 1435-1525, 2310-2320 and 2345-2390 MHz was coordinated prior to its authorization with AFMO CONUS, Ft. Sam Houston, TX, who also coordinated it, as appropriate, with the Aerospace and Flight Test Radio Coordinating Council. Use of this frequency under the authority of this assignment is subject to such further coordination with AFMO CONUS, Ft. Sam Houston, TX, as necessary to ensure compatibility with existing uses.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) 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.
- (5) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (6) 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.
- (7) All operations subject to coordination with the Fixed Microwave Service licensees in accordance with 47 CFR, Part 101.103(d) prior to operation in 2390-2489 MHz.
- (8) Stop buzzer for this operation is Insitu Operations Center at (509) 637-4691.
- (9) Transmission may not exceed AGL 5000 ft.
- (10) Operations on 1370-1381 MHz will be in accordance with the following restriction: Pulse Repetition Rate = 001 pps

Special Conditions:

- (11) 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 N00019-12-D-0011. 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.