

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

EXPERIMENTAL

(Nature of Service)

XD FX MO

(Class of Station)

WK2XUB

(Call Sign)

0029-EX-CM-2021

(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) Pendleton, OR - NL 45-41-21; WL 118-50-32
- (2) MOBILE: Pendleton, OR. Airborne up to 15,000 Feet, within 50 km, centered around NL 45-41-21; WL 118-50-32

Frequency Information

Pendleton, OR - NL 45-41-21; WL 118-50-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1370-1390 MHz	FX	230KF1D	5 W (Output Power)	
2377 MHz	FX	5M00D1D 10M0D1D 20M0D1D	7.8 kW (ERP)	
2395-2483 MHz	FX	5M00D1D 10M0D1D	7.8 kW (ERP)	

This authorization effective April 08, 2021 and
will expire 3:00 A.M. EST January 31, 2022

**FEDERAL
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Frequency Information

Pendleton, OR - NL 45-41-21; WL 118-50-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2395-2483 MHz	FX	20M0D1D	7.8 kW (ERP)	
5030.1625 MHz	FX	230KF1D	13200 W (ERP)	
5035.2475 MHz	FX	230KF1D	13200 W (ERP)	
5038.9045 MHz	FX	230KF1D	13200 W (ERP)	

MOBILE: Pendleton, OR. Airborne up to 15,000 Feet, within 50 km, centered around NL 45-41-21; WL 118-50-32

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1090 MHz	MO	8M24M1D	250 W (ERP)	
1370-1390 MHz	MO	230KF1D	1 W (ERP)	
2360-2390 MHz	MO	18M5F9W 9M58G1D 4M79G1D 2M40G1D	2 W (ERP)	
2377 MHz	MO	5M00D1D 10M0D1D	25 W (ERP)	

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2377 MHz	MO	20M0D1D	25 W (ERP)	
2395-2483 MHz	MO	5M00D1D 10M0D1D 20M0D1D	25 W (ERP)	
5030.1625 MHz	MO	230KF1D	2 W (ERP)	
5035.2475 MHz	MO	230KF1D	2 W (ERP)	
5038.9045 MHz	MO	230KF1D	2 W (ERP)	
15550 MHz	MO	300MF0N	30 W (ERP)	

Special Conditions:

- (1) 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.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (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) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (5) The station identification requirements of Section 5.115 of the Commission's Rules are waived.

Special Conditions:

- (6) 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.
- (7) 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.
- (8) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (9) Operation for 1090 MHz:
 - (a) AIRBORNE TEST OF SCAN EAGLE UAS ONLY WITH UAVIONIX TRANSPONDER (PN 240-000217-001,FCC ID 2AFFTP200S),
 - (b) FOR MODE 3A,C, AND S,
 - (c) SET MODE A CODE TO 1200 OR AS DIRECTED BY ATC,
 - (d) PRW IS 250W ERP AND PRR IS 1000K,
 - (e) TEST IAW 2018-WSA-1623 REV 3,
 - (f) FLIGHT ALTITUDE MUST CONFORM TO THE COA DEFINITION,
 - (g) MUST COORDINATE WITH ATC,
 - (h) CALL FOR STOP BUZZER AT INSITU OPP CENTER 509-493-4691.