

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

EXPERIMENTAL
(Nature of Service)

XC FX
(Class of Station)

WO2XOA
(Call Sign)

0045-EX-CM-2026
(File Number)

NAME Vertex Aerospace LLC

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(b) of the Commission's Rules

Station Locations

(1) Indianapolis (MARION), IN - NL 39-47-29; WL 86-03-34

Frequency Information

Indianapolis (MARION), IN - NL 39-47-29; WL 86-03-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1350-1390 MHz	FX	22M6D7W 11M3D3W 5M65D7W	324 W (ERP)	0.001 %
1428.5 MHz	FX	3M00D7W	324 W (ERP)	0.001 %
2200-2305 MHz	FX	22M6D7W 11M3D3W 5M65D7W	324 W (ERP)	0.001 %

This authorization effective July 16, 2026 and
will expire 3:00 A.M. ET March 01, 2027

FEDERAL
COMMUNICATIONS
COMMISSION



Frequency Information

Indianapolis (MARION), IN - NL 39-47-29; WL 86-03-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2400-2500 MHz	FX	22M6D7W 11M3D7W 5M65D7W	324 W (ERP)	0.001 %

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) 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.
- (3) The applicant must successful coordinate with the Broadband Radio Service licensees in proposed areas prior to operation in the frequency range from 2496 MHz to 2500 MHz.
- (4) The applicant must coordinate with the Fixed Microwave Service licensees and local Society of Broadcast Engineers frequency coordinator in the proposed areas prior to accessing to the frequencies from 2450 MHz to 2500 MHz.
- (5) Prior to commencing any operations in the 2483.5-2500 MHz frequency band, experimental licensee must notify licensee of GUSA Licensee LLC. (Call sign E970381, S2115. Name: Mr. L. Barbee Ponder IV Phone Number: 985-335-1503 E-Mail: Barbee.Ponder@Globalstar.com). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.
- (6) The applicant must notch the following frequency bands:
 - a. 1400-1427 MHz
 - b. 2227 MHz (+/- 2.5 MHz)
- (7) The antenna orientation during testing operations shall be maintained at or below zero degree elevation.
- (8) The Stop Buzzer: Elijah Harris (317) 364-3886.
- (9) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by US DoD contract. 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 numerated above.

Special Conditions:

- (10) All transmissions in the band 2200-2290 MHz shall comply with national and international power flux-density limits, except in cases where expected exceedances are pre-coordinated and agreed-upon.
- (11) Vertex Aerospace LLC should be aware that the band 2200-2290 MHz is allocated for federal operations and is an extremely congested band. Operation is non Interference Basis (NIB) to the authorized Federal users within radio line of sight due to high level ERP; and long term or operational use of the requested frequency bands may not be possible.
- (12) Prior to commencing any operations in Aeronautical and Fixed frequencies (2360-2395 MHz), the applicant must coordinate with the Aerospace and Flight Test Radio Coordinating Council (AFTRCC).
- (13) Upon notificaton from the FCC, operation on this assignment is subject to immediate cessation, if it causes harmful interference to NASA operations.
- (14) The unwanted emissions power into the 1400-1427 MHz band, as measured at the antenna port, shall not exceed -60 dBW in accordance with Footnote NG338A.
- (15) Airborne operations are prohibited in any portion of the band 2290-2300 MHz.
- (16) The transmit antenna's boresight shall not be pointed within +/- 15 degrees of the geostationary arc from 41°W to 174°W.
- (17) Prior to submitting the renewal for this assignment, please ensure pre-coordinate with the FAA.