

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

EXPERIMENTAL

(Nature of Service)

XT MO

(Class of Station)

WL2XYR

(Call Sign)

0545-EX-CN-2021

(File Number)

NAME Aurora Flight Sciences

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) MOBILE: KHEF, within 5 km, centered around NL 38-43-15; WL 77-30-54
- (2) MOBILE: air ops 7500ft, within 35 km, centered around NL 38-28-15; WL 77-59-40

Frequency Information

MOBILE: KHEF, within 5 km, centered around NL 38-43-15; WL 77-30-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2400 MHz	MO	5M00G1D 10M0G1D 20M0G1D	8 W (ERP)	
2490 MHz	MO	20M0G1D 5M00G1D 10M0G1D	8 W (ERP)	

This authorization effective August 02, 2021 and
will expire 3:00 A.M. EST August 01, 2023

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: air ops 7500ft, within 35 km, centered around NL 38-28-15; WL 77-59-40

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Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (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) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at <http://sbe.org/wp-content/uploads/freqcoor.pdf> to find the appropriate coordinator.
- (4) The occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (5) Operations at the 2300 MHz band (which falls within in the WCS bands (2305-2320 MHz and 2345-2360 MHz)), must comply with the emission limits applicable to those bands. See 47 C.F.R. § 27.53(a).
- (6) 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.
- (7) Airborne Operation in the 2290-2300 MHz is prohibited due to federal agency objection.

Special Conditions:

- (8) Experimental licensee must secure consents from the Broadband Radio Service licensees in each corresponding proposed area prior to accessing to the frequency range from 2496 MHz to 2500.
- (9) Experimental licensee must coordinate with the local Society of Broadcast Engineers frequency coordinator prior to operation in the frequencies from 2450 MHz to 2500 MHz.
- (10) Experimental licensee must coordinate with Fixed Microwave Service licensees in each corresponding proposed venue in accordance with 47 C.F.R, Part 101.103(d) prior to operation in the frequency range from 2450 MHz to 2500 MHz.
- (11) Stop Buzzer POC is Daniel McNeil.
Phone 714-642-7485