

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

EXPERIMENTAL

(Nature of Service)

WJ2XJV

(Call Sign)

XC MO

(Class of Station)

0242-EX-CM-2019

(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(c) of the Commission's Rules

Station Locations

- (1) MOBILE: The Flying Circus, Bealton, VA, airborne 1000' AGL, within 30 km, centered around NL 38-32-58; WL 77-42-55
- (2) MOBILE: Salisbury/Ocean City Regional Airport 1000' AGL, within 5 km, centered around NL 38-20-24; WL 75-30-34
- (3) MOBILE: Chase Field Industrial Airport 1000' AGL, within 5 km, centered around NL 28-21-44; WL 97-39-42

Frequency Information

MOBILE: The Flying Circus, Bealton, VA, airborne 1000' AGL, within 30 km, centered around NL 38-32-58; WL 77-42-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2300 MHz	MO	20M0G1D	16 W (ERP)	0.0005 %
2390-2410 MHz	MO	5M00G1D 10M0G1D	16 W (ERP)	0.0005 %
2400 MHz	MO	20M0G1D	16 W (ERP)	0.0005 %

This authorization effective October 23, 2019 and
will expire 3:00 A.M. EST May 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: The Flying Circus, Bealton, VA, airborne 1000' AGL, within 30 km, centered around NL 38-32-58; WL 77-42-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2490 MHz	MO	20M0G1D	16 W (ERP)	0.0005 %

MOBILE: Salisbury/Ocean City Regional Airport 1000' AGL, within 5 km, centered around NL 38-20-24; WL 75-30-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2300 MHz	MO	20M0G1D	4 W (Output Power)	0.0005 %
2390-2410 MHz	MO	5M00G1D 10M0G1D	4 W (Output Power)	0.0005 %
2400 MHz	MO	20M0G1D	16 W (ERP)	0.0005 %
2490 MHz	MO	20M0G1D	4 W (Output Power)	0.0005 %

MOBILE: Chase Field Industrial Airport 1000' AGL, within 5 km, centered around NL 28-21-44; WL 97-39-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2300 MHz	MO	20M0G1D	4 W (Output Power)	0.0005 %
2390-2410 MHz	MO	5M00G1D 10M0G1D	4 W (Output Power)	0.0005 %

Frequency Information

MOBILE: Chase Field Industrial Airport 1000' AGL, within 5 km, centered around NL 28-21-44; WL 97-39-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2400 MHz	MO	20M0G1D	16 W (ERP)	0.0005 %
2490 MHz	MO	20M0G1D	4 W (Output Power)	0.0005 %

Special Conditions:

- (1) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) 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.
- (4) The occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (5) 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.
- (6) Notification must be provided to the NASA Wallops Flight Facility (WFF) Spectrum Manager, Felipe Arroyo 757.824.1623 or felipe.arroyo-1@nasa.gov, at least 7 days prior to operations to allow de-confliction of sounding rocket telemetry operations.
- (7) The authorized station must be in compliance with environmental requirement set forth in Section 1.1307 of the Commission's Rules.
- (8) Operations are on a non-interference basis (NIB) and shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing.
- (9) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by Office of Naval Research contract no. N00014-12-C-0671. 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.
- (10) Stop buzzer Mike Morgan at phone 540-903-2199.