

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

EXPERIMENTAL

(Nature of Service)

XD FX

(Class of Station)

WD2XIF

(Call Sign)

0166-EX-CR-2019

(File Number)

NAME Orbital Sciences Corp.

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(g) of the Commission's Rules

Station Locations

- (1) Dulles (LOUDOUN), VA - NL 39-00-56; WL 77-25-42
- (2) Dulles (LOUDOUN), VA - NL 39-00-56; WL 77-25-42

Frequency Information

Dulles (LOUDOUN), VA - NL 39-00-56; WL 77-25-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3400-4200 MHz	FX	N0N	350 kW (ERP)	
3400-4200 MHz	FX	400KF2D 400KG2D	1 W (ERP)	
5725-7075 MHz	FX	N0N 400KF2D 400KG2D	1 W (ERP)	

This authorization effective April 01, 2019 and
will expire 3:00 A.M. EST May 01, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Dulles (LOUDOUN), VA - NL 39-00-56; WL 77-25-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4500-4800 MHz	FX	NON	350 kW (ERP)	
4500-4800 MHz	FX	400KK2D	1 W (ERP)	

Special Conditions:

- (1) 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.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) All testing must be done in shielded rooms or anechoic chambers.
- (5) Orbital Sciences Corp. must maintain operation separation from the grandfathered earth stations as defined in Part 90, Subpart Z, or coordinate an agreement with the grandfathered earth station licensees prior to operation in 3650-3700 MHz band.
- (6) Orbital Sciences Corp. must consult the ULS database to ensure that the operation will not cause harmful interference to any existing registered stations in the 3650-3700 MHz band, and notify the registered users in the proposed geographic areas prior to operation in this band.
- (7) Orbital Sciences Corp. must coordinate with the Fixed Microwave Service licensees in accordance with 47 CFR, Part 101.103(d) prior to operation in 3700-4200 MHz, and 5725-7075 MHz bands
- (8) Orbital Sciences Corp. should be aware that the authorized station is not permitted to operate an emission designator (NON) associated with power 350 kW (ERP) in the 3650-4200 MHz frequency band.
- (9) Orbital Sciences Corp. must coordinate with the local SBE frequency coordinator prior to operation in 5725-7075 MHz band.
- (10) Orbital Sciences Corp. must consult the ULS database to ensure that the operation will not cause harmful interference to any existing registered stations in the 3700-4200 MHz band, and notify the registered users in the proposed geographic areas. Stop Buzzer: Jose Diaz (703) 948-8893
- (11) Orbital Sciences Corp. must ensure that the transmitting base station antenna(s) tip down when possible and avoid point towards the horizon in order to protect satellite earth stations nearby.
- (12) All of the experimental devices will be under the control of Orbital Sciences Corp.

Special Conditions:

- (13) Licensee be aware that FSS earth stations are licensed above 3700 MHz and if any interference occurs, the experimental licensee of this authorization will be subject to immediate shut down. No automatic renewal for operations in the 3700-4200 MHz band of this authorization.