

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WH2XUG

(Call Sign)

0295-EX-CR-2017

(File Number)

NAME Orbital Sciences Corporation

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) Chandler (MARICOPA), AZ - NL 33-15-23; WL 111-53-11

Frequency Information

Chandler (MARICOPA), AZ - NL 33-15-23; WL 111-53-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1575.42 MHz	FX	20M0X1D	0.323593 pW (ERP)	1.2 %

This authorization effective May 01, 2017 and
will expire 3:00 A.M. EST May 01, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (1) Operation of a GPS re-radiating signal device must meet the following conditions:
 1. Authorization is for indoor use only
 2. The device is to be used as an Experimental RNSS Test Equipment for the purpose of testing RNSS equipment/systems
 3. The area of potential interference to GPS reception (e.g., military or contractor facility) has to be under the control of the user.
 4. The maximum equivalent isotropically radiated power (EIRP) must be such that the calculated emissions are no greater than -140 dBm/24 MHz as received by an isotropic antenna at a distance of 100 feet (30 meters) from the building where the test is being conducted
 5. GPS users in the area of potential interference to GPS reception must be notified that GPS information may be impacted for periods of time.
 6. A "Stop Buzzer" point of contact for the authorized device must be identified and available at all times during GPS re-radiation operation of the device under any condition.

- (2) STOP BUZZER IS DANIEL GRINNELL 480-814-6673