

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

EXPERIMENTAL

(Nature of Service)

XD      FX

(Class of Station)

WE2XSE

(Call Sign)

0124-EX-RR-2010

(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) 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 (+/-) |
|----------------|---------------|---------------------|------------------|---------------------------|
| 13.75-14.8 GHz | FX            | N0N<br>400KF2D      | 0.03 W (ERP)     |                           |
| 17.3-21.2 GHz  | FX            | N0N                 | 0.03 W (ERP)     |                           |
| 17.3-21.2 GHz  | FX            | N0N                 | 350 kW (ERP)     |                           |
| 17.3-21.2 GHz  | FX            | 400KG2D<br>400KF2D  | 0.03 W (ERP)     |                           |

This authorization effective August 01, 2010 and  
will expire 3:00 A.M. EST August 01, 2013

**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 (+/-) |
|-----------------|---------------|---------------------|------------------|---------------------------|
| 24.75-25.25 GHz | FX            | N0N<br>400KF2D      | 0.03 W (ERP)     |                           |
| 27-31 GHz       | FX            | N0N<br>400KF2D      | 0.03 W (ERP)     |                           |

## Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) 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.
- (4) Operation subject to prior coordination with affected existing and future Fixed Microwave Service licensees in accordance with 47 CFR, Part 101.103(d).