

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

EXPERIMENTAL
(Nature of Service)

WD2XUP
(Call Sign)

XD FX
(Class of Station)

0286-EX-PL-2005
(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(i) 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 (+/-)
6721.5-6722.5 MHz	FX	N0N	100 mW (ERP)	
6724-6725 MHz	FX	N0N	100 mW (ERP)	
10700-10743.6 MHz	FX	N0N	350 kW (ERP)	
10780.4-10823.6 MHz	FX	N0N	350 kW (ERP)	

This authorization effective March 09, 2006 and
will expire 3:00 A.M. EST March 01, 2008

**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 (+/-)
10860.4-10903.6 MHz	FX	N0N	350 kW (ERP)	
10948.4-10991.6 MHz	FX	N0N	350 kW (ERP)	
11028.4-11071.6 MHz	FX	N0N	350 kW (ERP)	
11108.4-11151.6 MHz	FX	N0N	350 kW (ERP)	
11200.4-11243.6 MHz	FX	N0N	350 kW (ERP)	
11280.4-11323.6 MHz	FX	N0N	350 kW (ERP)	
11360.4-11403.6 MHz	FX	N0N	350 kW (ERP)	
11447.5-11448.5 MHz	FX	300KG2D	6.63 W (ERP)	
11448.5-11449.5 MHz	FX	300KG2D	6.63 W (ERP)	
11698.4-11741.6 MHz	FX	N0N	242 kW (ERP)	

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11698.9-11742.1 MHz	FX	N0N	230 kW (ERP)	
11701-11702 MHz	FX	N0N	35 W (ERP)	
11714.8-11801.2 MHz	FX	N0N	242 kW (ERP)	
11738.4-11781.6 MHz	FX	N0N N0N N0N	242 kW (ERP)	
11740.4-11783.6 MHz	FX	N0N	230 kW (ERP)	
11778.4-11821.6 MHz	FX	N0N	242 kW (ERP)	
11781.9-11825.1 MHz	FX	N0N	230 kW (ERP)	
11794.8-11881.2 MHz	FX	N0N	242 kW (ERP)	
11818.4-11861.6 MHz	FX	N0N	242 kW (ERP)	
11823.4-11866.6 MHz	FX	N0N	230 kW (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
11864.9-11908.1 MHz	FX	N0N	230 kW (ERP)	
11874.8-11961.2 MHz	FX	N0N	242 kW (ERP)	
11898.4-11941.6 MHz	FX	N0N	242 kW (ERP)	
11906.4-11949.6 MHz	FX	N0N	230 kW (ERP)	
11938.4-11981.6 MHz	FX	N0N	242 kW (ERP)	
11947.9-11991.1 MHz	FX	N0N	230 kW (ERP)	
11954.8-12041.2 MHz	FX	N0N	242 kW (ERP)	
11978.4-12021.6 MHz	FX	N0N	242 kW (ERP)	
11989.4-12032.6 MHz	FX	N0N	230 kW (ERP)	
12018.4-12061.6 MHz	FX	N0N	242 kW (ERP)	

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12030.9-12074.1 MHz	FX	N0N	230 kW (ERP)	
12038.4-12081.6 MHz	FX	N0N	440 kW (ERP)	
12058.4-12101.6 MHz	FX	N0N	440 kW (ERP)	
12072.4-12115.6 MHz	FX	N0N	230 kW (ERP)	
12078.4-12121.6 MHz	FX	N0N	440 kW (ERP)	
12098.4-12141.6 MHz	FX	N0N	440 kW (ERP)	
12113.9-12157.1 MHz	FX	N0N	230 kW (ERP)	
12118.4-12161.6 MHz	FX	N0N	242 kW (ERP)	
12138.4-12181.6 MHz	FX	N0N	242 kW (ERP)	
12155.4-12198.6 MHz	FX	N0N	230 kW (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
12158.4-12201.6 MHz	FX	N0N	242 kW (ERP)	
12195.5-12196.5 MHz	FX	300KG2D	6.63 W (ERP)	
12197.5-12198.5 MHz	FX	N0N 300KG2D	10 W (ERP)	
12198.125-12199.125 MHz	FX	300KG2D	6.63 W (ERP)	
12242.75-12243.75 MHz	FX	300KG2D	5.46 W (ERP)	
12244.75-12245.75 MHz	FX	300KG2D	5.46 W (ERP)	
12249.5-12314.3 MHz	FX	N0N	276 kW (ERP)	
12312.1-12376.9 MHz	FX	N0N	276 kW (ERP)	
12374.7-12439.5 MHz	FX	N0N	276 kW (ERP)	
12437.3-12502.1 MHz	FX	N0N	276 kW (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
12499.9-12564.7 MHz	FX	N0N	276 kW (ERP)	
12562.5-12627.3 MHz	FX	N0N	276 kW (ERP)	
12625.1-12689.9 MHz	FX	N0N	276 kW (ERP)	
12687.7-12752.5 MHz	FX	N0N	276 kW (ERP)	
12749-12750 MHz	FX	N0N	11.5 W (ERP)	
12750.4-12793.6 MHz	FX	N0N	30 mW (ERP)	
12830.4-12873.6 MHz	FX	N0N	30 mW (ERP)	
12910.4-12953.6 MHz	FX	N0N	30 mW (ERP)	
13000.4-13043.6 MHz	FX	N0N	30 mW (ERP)	
13080.4-13123.6 MHz	FX	N0N	30 mW (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13160.4-13203.6 MHz	FX	N0N	30 mW (ERP)	
13246-13247 MHz	FX	1M00F2D	30 mW (ERP)	
13752.4-13795.6 MHz	FX	N0N	30 mW (ERP)	
13832.4-13875.6 MHz	FX	N0N	30 mW (ERP)	
13912.4-13955.6 MHz	FX	N0N	30 mW (ERP)	
13986-13987 MHz	FX	1M00F2D	30 mW (ERP)	
13990-13991 MHz	FX	1M00F2D	30 mW (ERP)	
13994-13995 MHz	FX	1M00F2D	30 mW (ERP)	
13995-13996 MHz	FX	1M00F2D	30 mW (ERP)	
13997.5-14062.3 MHz	FX	N0N	30 mW (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
13998.4-14041.6 MHz	FX	N0N	30 mW (ERP)	
14000-14001 MHz	FX	1M00F2D	30 mW (ERP)	
14014.8-14101.2 MHz	FX	N0N	30 mW (ERP)	
14038.4-14081.6 MHz	FX	N0N	30 mW (ERP)	
14060.1-14124.9 MHz	FX	N0N	30 mW (ERP)	
14078.4-14121.6 MHz	FX	N0N	30 mW (ERP)	
14094.8-14181.2 MHz	FX	N0N	30 mW (ERP)	
14122.7-14187.5 MHz	FX	N0N	30 mW (ERP)	
14158.4-14201.6 MHz	FX	N0N	30 mW (ERP)	
14174.8-14261.2 MHz	FX	N0N	30 mW (ERP)	

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14185.3-14250.1 MHz	FX	N0N	30 mW (ERP)	
14198.4-14241.6 MHz	FX	N0N	30 mW (ERP)	
14238.4-14281.6 MHz	FX	N0N	30 mW (ERP)	
14247.9-14312.7 MHz	FX	N0N	30 mW (ERP)	
14254.8-14341.2 MHz	FX	N0N	30 mW (ERP)	
14278.4-14321.6 MHz	FX	N0N	30 mW (ERP)	
14310.5-14375.3 MHz	FX	N0N	30 mW (ERP)	
14318.4-14361.6 MHz	FX	N0N	30 mW (ERP)	
14338.4-14381.6 MHz	FX	N0N	30 mW (ERP)	
14358.4-14401.6 MHz	FX	N0N	30 mW (ERP)	

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14373.1-14437.9 MHz	FX	N0N	30 mW (ERP)	
14378.4-14421.6 MHz	FX	N0N	30 mW (ERP)	
14398.4-14441.6 MHz	FX	N0N	30 mW (ERP)	
14418.4-14461.6 MHz	FX	N0N	30 mW (ERP)	
14422-14458 MHz	FX	N0N	30 mW (ERP)	
14438.4-14481.6 MHz	FX	N0N	30 mW (ERP)	
14458.4-14500 MHz	FX	N0N	30 mW (ERP)	
14499-14500 MHz	FX	1M00F2D	30 mW (ERP)	
17298.9-17342.1 MHz	FX	N0N	30 mW (ERP)	
17340.4-17383.6 MHz	FX	N0N	30 mW (ERP)	

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
17381.9-17425.1 MHz	FX	N0N	30 mW (ERP)	
17423.4-17466.6 MHz	FX	N0N	30 mW (ERP)	
17464.9-17508.1 MHz	FX	N0N	30 mW (ERP)	
17506.4-17549.6 MHz	FX	N0N	30 mW (ERP)	
17547.9-17591.1 MHz	FX	N0N	30 mW (ERP)	
17589.4-17632.6 MHz	FX	N0N	30 mW (ERP)	
17630.9-17674.1 MHz	FX	N0N	30 mW (ERP)	
17672.4-17715.6 MHz	FX	N0N	30 mW (ERP)	
17713.9-17757.1 MHz	FX	N0N	30 mW (ERP)	
17755.4-17798.6 MHz	FX	N0N	30 mW (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (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 Society of Broadcast Engineers, Inc. (SBE); ATTN: Executive Director; 9247 North Meridian Street, Suite 305; Indianapolis, IN 46260; telephone, (866) 632-4222; FAX, (317) 846-9120; e-mail, executivedir@sbe.org; information, www.sbe.org.
- (4) Operation is subject to prior coordination with existing and future fixed microwave service licensees in accordance with 47 CFR, Part 101.103(d).