

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

WG9XGU

(Call Sign)

XT MO

(Class of Station)

0019-EX-ST-2013

(File Number)

NAME Orbital Sciences Corporation

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

Launch Vehicle testing

Station Locations

- (1) MOBILE: From launch pad OB at Wallops Flight Facility in Virginia through trajectory of launch mission into Low Earth Orbit - 500 Km altitude, 52 degrees inclination, centered around NL 37-49-52; WL 75-29-29
- (2) MOBILE: From launch pad OB at Wallops Flight Facility in Virginia through trajectory of launch mission into Low Earth Orbit - 500 Km altitude, 52 degrees inclination, centered around NL 37-49-52; WL 75-29-29

Frequency Information

MOBILE: From launch pad OB at Wallops Flight Facility in Virginia through trajectory of launch mission into Low Earth Orbit - 500 Km altitude, 52 degrees inclination, centered around NL 37-49-52; WL 75-29-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2239.76-2243.24 MHz	MO	3M48F1D	4.6 W (ERP)	0.002 %
2286.76-2290.24 MHz	MO	3M48F1D	2.6 W (ERP)	0.002 %

This authorization effective June 15, 2013 and
will expire 3:00 A.M. EST December 16, 2013

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: From launch pad OB at Wallops Flight Facility in Virginia through trajectory of launch mission into Low Earth Orbit - 500 Km altitude, 52 degrees inclination, centered around NL 37-49-52; WL 75-29-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5758-5772 MHz	MO	14M0P0N	400 W (ERP)	2 %

Special Conditions:

- (1) All OSC operations, granted on an experimental basis, shall be on an unprotected, non-interference basis to authorized federal stations.
- (2) All operations shall be limited to telemetry, tracking, and control (TT&C). This STA is limited to the single Minotaur launch scheduled, as of 25 March 2013, for no earlier than 15 June 2013, for launching the ORS-3 spacecraft to low earth orbit. This STA will expire as soon as the launch has been completed. Any future launches will need to submit applications to the FCC to be re-coordinated with NTIA.
- (3) OSC shall be aware that future non-federal launches will be considered on a case-by-case basis, especially for requests in the band 2200-2290 MHz, and OSC shall have no expectations that future launches will be approved.
- (4) Prior to transmitting at Wallops Flight Facility, OSC shall coordinate and schedule their operations through NASA WFF Spectrum Manager, Felipe Arroyo, felipe.arroyo-1@nasa.gov, 757-824-1623 and NOAA Philip.L.Whaley@noaa.gov (757-824-7331, extension 331).
- (5) As soon as possible, but no later than seven days prior to the planned demonstration mission launch, OSC is required to provide Mr. Jimmy Nguyen (jimmy.nguyen@pentagon.af.mil, (301-225-3729), Air Force Spectrum Management Office (AFSMO) with the planned launch date/time/window/duration. In the event of last minute changes, 48 hour notice is requested.
- (6) The STOP BUZZER POC information, for both pre-launch checkout/testing and for launch operations, is:
Name: Chennault Slaughter
Phone Number: 757-824-2829
This phone shall be manned by the staff communications coordinator 24/7.
- (7) All transmissions in the band 2200-2290 MHz will comply with national and international power flux-density (PFD) limits.
- (8) All transmission in the band 2200-2290 MHz will only be on when a receiving station is in view and scheduled to receive the transmission.
- (9) OSC shall keep a log of all transmissions in the band 2200-2290 MHz that will be provided to NTIA after the mission. This log should include at least date, time, frequency, eirp density, and pointing direction of the transmitting antenna. The log should be provided to the following people at NTIA: skotler@ntia.doc.gov and edavison@ntia.doc.gov.