

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

EXPERIMENTAL

(Nature of Service)

WL9XBK

(Call Sign)

XT MO

(Class of Station)

1696-EX-ST-2017

(File Number)

NAME Space Explorations Technologies

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:**

The radiating in the radar altimetry band is to verify expected performance dynamic performance of a radar altimeter.

**Station Locations**

- (1) MOBILE: Vandenberg AFB, CA: Max altitude 10,000 feet, within 8 km, centered around NL 34-37-59; WL 120-36-55
- (2) MOBILE: Hawthorne, CA: Max altitude 10,000 feet, within 8 km, centered around NL 33-55-22; WL 118-20-07
- (3) MOBILE: Torrance, CA: Max altitude 10,000 feet, within 8 km, centered around NL 33-48-12; WL 118-20-23

**Frequency Information**

MOBILE: Vandenberg AFB, CA: Max altitude 10,000 feet, within 8 km, centered around NL 34-37-59; WL 120-36-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4.24 GHz	MO	40M0F3N	3.5 W (ERP)	5.0E-6 %
4.3 GHz	MO	40M0F3N	3.5 W (ERP)	5.0E-6 %

This authorization effective December 19, 2017 and will expire 3:00 A.M. EST May 19, 2018

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

MOBILE: Vandenberg AFB, CA: Max altitude 10,000 feet, within 8 km, centered around NL 34-37-59; WL 120-36-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4.36 GHz	MO	40M0F3N	3.5 W (ERP)	5.0E-6 %

MOBILE: Hawthorne, CA: Max altitude 10,000 feet, within 8 km, centered around NL 33-55-22; WL 118-20-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4.24 GHz	MO	40M0F3N	3.5 W (ERP)	5.0E-6 %
4.3 GHz	MO	40M0F3N	3.5 W (ERP)	5.0E-6 %
4.36 GHz	MO	40M0F3N	3.5 W (ERP)	5.0E-6 %

MOBILE: Torrance, CA: Max altitude 10,000 feet, within 8 km, centered around NL 33-48-12; WL 118-20-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4.24 GHz	MO	40M0F3N	3.5 W (ERP)	5.0E-6 %
4.3 GHz	MO	40M0F3N	3.5 W (ERP)	5.0E-6 %
4.36 GHz	MO	40M0F3N	3.5 W (ERP)	5.0E-6 %

**Special Conditions:**

- (1) Space Explorations Technologies must coordinate with the Western Area Frequency Coordinator (WAFC), Mr. J. Heaton at (760) 939-6948 (Jamie.heaton@navy.mil) prior to the Vandenberg AFB, CA and Hawthorne, CA operation to mitigate harmful interference to Navy assignments. Space Explorations Technologies must also comply with restrictions levied by WAFC.
- (2) Space Explorations Technologies must coordinate with the Frequency Control and Analysis Center (FCAC), Peter Hedges. Peter.hedges@us.af.mil, 805-606-3953, Vandenberg, CA.