

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

EXPERIMENTAL

(Nature of Service)

XT MO

(Class of Station)

WT9XBJ

(Call Sign)

1229-EX-ST-2026

(File Number)

NAME Space Exploration Technologies Corp.

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 testing requested is designed to characterize performance of radar measurements at various speeds and altitudes.

Station Locations

- (1) MOBILE: Airborne max alt 15,800 ft AGL, Hawthorne, CA, within 160 km, centered around NL 33-55-15; WL 118-19-41
- (2) MOBILE: Airborne max alt 15,800 ft AGL, Starbase, TX, within 6 km, centered around NL 25-58-21; WL 97-12-04
- (3) MOBILE: Airborne max alt 16,500 ft AGL Harper Dry Lake CA, within 65 km, centered around NL 34-58-37; WL 117-27-36

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
35.5-36 GHz	MO	500MP0N 500MQ1N	15850 W (ERP)	0.001 %

This authorization effective July 31, 2026 and
will expire 3:00 A.M. EST January 01, 2027

**FEDERAL
COMMUNICATIONS
COMMISSION**



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Special Conditions:

- (1) The occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) Future STA requests to extend this authorization will not be considered. The requests for extension of the authority granted herein must be filed on Form 442, "Application for New or Modified Radio Station Authorization under Part 5 of FCC Rules - Experimental Radio Service."
- (3) SpaceX should be aware that other stations may be licensed on and nearby these frequencies and if any interference occurs, they will be subject to immediate shut down.
- (4) SpaceX must ensure that transmit physical pointing vectors and electrically-steered beams are pointed at or below the local horizontal plane to ensure that operations do not cause harmful interference to:
 - a. Passive remote sensors operating in 36-37 GHz on the NASA Global Precipitation Measurement (GPM) mission; and
 - b. Active remote sensors operating in 35.5-36 GHz on the NASA Global Precipitation Measurement (GPM) or Surface Water and Ocean Topography (SWOT) missions.
- (5) Experimental station(s) shall use the minimum power level necessary to execute testing to minimize potential interference to licensed users.
- (6) Any future requests for space-based radar operations in the 35.5-36 GHz band will be subject to the power flux-density limits that are provided in Footnote 5.549A.

Special Conditions:

- (7) For transmissions in the area centered around Hawthorne, CA, further coordination with and explicit concurrence by the NASA GSFC Spectrum Management Office at NASA-DL-GSFC-Spectrum-Management@mail.nasa.gov is required prior to SpaceX operations to allow for deconfliction with NASA airborne radar use of the same frequency range in the same geographic area.
- (8) Stop Buzzer POC: Simon Scott
Phone: (510) 501-2116