

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

EXPERIMENTAL

(Nature of Service)

WA8XGN

(Call Sign)

XT MO

(Class of Station)

1402-EX-ST-2026

(File Number)

NAME Quadsat

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:

Measure antenna tracking performance, communication link quality, and overall system performance under controlled conditions.

Station Locations

- (1) MOBILE: Northwood test site, Santa Paula, California, within 1 km, centered around NL 34-18-54; WL 119-06-17

Frequency Information

MOBILE: Northwood test site, Santa Paula, California, within 1 km, centered around NL 34-18-54; WL 119-06-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
18-19 GHz	MO	50M0G7W	60.9 mW (ERP)	0.002 %

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) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at <http://sbe.org/resources/frequency-coordination/> to find the appropriate coordinator.

This authorization effective September 10, 2026 and
will expire 3:00 A.M. ET March 11, 2027

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (3) Licensee is authorized to conduct field test of a Quadsat QS17-31UL/DL drone-mounted Ka-band radio-frequency test payload that emulates a Medium Earth Orbit (MEO)/ Low Earth Orbit (LEO) satellite in motion. The unmanned aircraft (Quadsat QS17-31UL/DL drone) is authorized to transmit controlled test signals (60.9mW (ERP)) in the 18.0–19.0 GHz band to a 2.4-meter parabolic dish antenna in Ka-band ("Prism-Ka") (authorized in Northwood Space Corp. File Number: 1407-EX-ST-2026) at its Ventura, California site (Call Sign E260035).
- (4) Licensee must coordinate with the Fixed Microwave Service licensees in the proposed venue prior to performing the experiments.
- (5) Further 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." Future STA requests to extend this authorization will not be considered.
- (6) Transmission center frequencies must be selected to ensure that the total equivalent isotropic radiated power (EIRP) above the local horizontal plane in the 18.6-18.8 GHz band does not exceed -42.5 dBW.
- (7) Stop Buzzer Point of Contact: Tobias Lundby, tl@quadsat.com, +45 40 14 73 71