

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

EXPERIMENTAL

(Nature of Service)

XT      FX

(Class of Station)

WA9XWC

(Call Sign)

1407-EX-ST-2026

(File Number)

NAME Northwood Space 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:**

Using a drone-mounted experimental payload that emulates satellite motion

**Station Locations**

(1) Santa Paula (LOS ANGELES), CA - NL 34-18-54; WL 119-06-17

**Frequency Information**

Santa Paula (LOS ANGELES), CA - NL 34-18-54; WL 119-06-17

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 28 GHz    | FX            | 50M0G7W             | 100 MW (ERP)     | 0.0005 %                  |

**Special Conditions:**

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

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

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



**Special Conditions:**

- (2) Licensee is authorized to conduct field test of a 2.4-meter Northwood Space Corp NW24-Ka parabolic dish antenna in Ka-band ("Prism-Ka") at its Ventura, California site (Call Sign E260035). The 2.4-meter Ka-band ground station is authorized to transmit controlled test signals (100MW (ERP)) at the center 28 GHz frequency band to 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 (authorized to Quadsat File Number: 1402-EX-ST-2026).
- (3) Prior to commencing operations in the authorized frequency band(s), the experimental licensee must notify the potentially affected licensees below. The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should also include the testing parameters (e.g., specific location(s), frequency bands, antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.

Frequency Bands: 27.5-28.35 GHz (E-s) (Call sign S2951)  
Licensee: SES Americom, Inc. Phone Number: 202-280-8657  
ATTN: Mr. Daniel C.H. Mah, E-Mail: daniel.mah@ses.com

Frequency Bands: 27.5-29.1 GHz (E-s) (Call sign S3015)  
Licensee: Intelsat License LLC Phone Number: 703-559-7799  
ATTN: Mr. W. Ray Rutngamlug, E-Mail: ray.rutngamlugin@intelsat.com

Frequency Bands: 27.5-30 GHz (E-s) (Call sign S2935)  
Licensee: O3b Limited Phone Number: 202-813-4026  
ATTN: Ms Suzanne Malloy E-Mail: suzanne.malloy@o3bnetworks.com

Frequency Bands: 27.5-29.1 GHz (Call sign S2963)  
Licensee: WorldVu Satellites Limited Phone Number: 571-466-8664  
ATTN: Ms Kimberly Baum E-Mail: kbaum@oneweb.net

Frequency Bands: 27.5-29.1 GHz (E-s) (Call sign S2976)  
Licensee: Telesat LEO Inc. Phone Number: (613) 748-8700  
ATTN: Ms Elisabeth Neasmith E-Mail: enasmith@telesat.com

Frequency Bands: 27.5-30.0 GHz (E-s) (Call sign S2983/S3018, S2992/S3069)  
Licensee: Space Exploration Holdings, LLC, Phone Number: 202-649-2700  
ATTN: Mr David Goldman, E-Mail: david.goldman@spacex.com

Frequency Bands: 27.5-29.1 GHz (E-s) (Call sign S2986)  
Licensee: Theia Holdings A, Inc. Phone Number: 470-346-6843  
ATTN: Michael Fuqua E-Mail: mfuqua@brileyfin.com

Frequency Bands: 27.5-30 GHz (E-s) (Call sign S3051/S3105)  
Licensee: Kuiper Systems LLC Phone Number: 843-364-1933  
ATTN: Mariah Dodson Shuman E-Mail: kuiper-regulatory-contact@amazon.com

- (4) Licensee must coordinate with the Upper Microwave Flexible Use Service licensees in the signal source area prior to conducting the field tests.
- (5) Licensee must coordinate with the Fixed Microwave Service licensees in the proposed venue prior to commencing the experimental operations.
- (6) Stop Buzzer Point of Contact: Shaurya Luthra, 310-961-9329

**Special Conditions:**

- (7) 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.