

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

EXPERIMENTAL

(Nature of Service)

WA8XCW

(Call Sign)

XT FX MO

(Class of Station)

0827-EX-ST-2026

(File Number)

NAME Perennial Autonomy, LLC

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:

See description of experiment

Station Locations

- (1) Anderson Lake, CA - NL 37-12-39; WL 121-38-59
- (2) Anderson Lake, CA - NL 37-12-39; WL 121-38-59
- (3) Anderson Lake, CA - NL 37-12-39; WL 121-38-59
- (4) Anderson Lake, CA - NL 37-12-39; WL 121-38-59
- (5) Anderson Lake, CA - NL 37-12-39; WL 121-38-59
- (6) Anderson Lake, CA - NL 37-12-39; WL 121-38-59
- (7) Anderson Lake, CA - NL 37-12-39; WL 121-38-59
- (8) MOBILE: Anderson Lake, CA, within 70 km, centered around NL 37-12-39; WL 121-38-59
- (9) MOBILE: Anderson Lake, CA, within 70 km, centered around NL 37-12-39; WL 121-38-59
- (10) Anderson Lake, CA - NL 37-12-39; WL 121-38-59
- (11) MOBILE: Anderson Lake, CA, within 70 km, centered around NL 37-12-39; WL 121-38-59
- (12) MOBILE: Anderson Lake, CA, within 70 km, centered around NL 37-12-39; WL 121-38-59

This authorization effective July 13, 2026 and
will expire 3:00 A.M. EST November 26, 2026

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Anderson Lake, CA - NL 37-12-39; WL 121-38-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1710-1720 MHz	FX	8M00D1D	2 W (ERP)	0.0025 %
1850-1860 MHz	FX	8M00D1D	2 W (ERP)	0.0025 %
1930-1940 MHz	FX	8M00D1D	4 W (ERP)	0.0025 %
2110-2120 MHz	FX	8M00D1D	4 W (ERP)	0.0025 %
3720-3730 MHz	FX	8M00D1D	4 W (ERP)	0.0025 %

Anderson Lake, CA - NL 37-12-39; WL 121-38-59

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1710-1720 MHz	FX	8M00D1D	2 W (ERP)	0.0025 %
1850-1860 MHz	FX	8M00D1D	2 W (ERP)	0.0025 %
1930-1940 MHz	FX	8M00D1D	4 W (ERP)	0.0025 %
2110-2120 MHz	FX	8M00D1D	4 W (ERP)	0.0025 %

Frequency Information

Anderson Lake, CA - NL 37-12-39; WL 121-38-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3720-3730 MHz	FX	8M00D1D	4 W (ERP)	0.0025 %

Anderson Lake, CA - NL 37-12-39; WL 121-38-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1710-1720 MHz	FX	8M00D1D	2 W (ERP)	0.0025 %
1850-1860 MHz	FX	8M00D1D	2 W (ERP)	0.0025 %
1930-1940 MHz	FX	8M00D1D	4 W (ERP)	0.0025 %
2110-2120 MHz	FX	8M00D1D	4 W (ERP)	0.0025 %
3720-3730 MHz	FX	8M00D1D	4 W (ERP)	0.0025 %

Anderson Lake, CA - NL 37-12-39; WL 121-38-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1710-1720 MHz	FX	125KG1D	36.85 W (ERP)	0.0025 %

Frequency Information

Anderson Lake, CA - NL 37-12-39; WL 121-38-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1850-1860 MHz	FX	125KG1D	36.85 W (ERP)	0.0025 %
1930-1940 MHz	FX	125KG1D	36.85 W (ERP)	0.0025 %
2110-2120 MHz	FX	125KG1D	36.85 W (ERP)	0.0025 %

Anderson Lake, CA - NL 37-12-39; WL 121-38-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
480-490 MHz	FX	125KG1D	1 W (ERP)	0.0025 %
670-690 MHz	FX	125KG1D	1 W (ERP)	0.0025 %

Anderson Lake, CA - NL 37-12-39; WL 121-38-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
480-490 MHz	FX	125KG1D	39.85 W (ERP)	
670-690 MHz	FX	125KG1D	36.85 W (ERP)	

Frequency Information

Anderson Lake, CA - NL 37-12-39; WL 121-38-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3720-3740 MHz	FX	8M00D1D	4 W (ERP)	

MOBILE: Anderson Lake, CA, within 70 km, centered around NL 37-12-39; WL 121-38-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1710-1720 MHz	MO	8M00D1D	2 W (ERP)	
1850-1860 MHz	MO	8M00D1D	2 W (ERP)	
1930-1940 MHz	MO	8M00D1D	4 W (ERP)	
2110-2120 MHz	MO	8M00D1D	4 W (ERP)	
3720-3730 MHz	MO	8M00D1D	4 W (ERP)	

MOBILE: Anderson Lake, CA, within 70 km, centered around NL 37-12-39; WL 121-38-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1710-1720 MHz	MO	8M00D1D	4 W (ERP)	

Frequency Information

MOBILE: Anderson Lake, CA, within 70 km, centered around NL 37-12-39; WL 121-38-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1850-1860 MHz	MO	8M00D1D	4 W (ERP)	
1930-1940 MHz	MO	8M00D1D	4 W (ERP)	
2110-2120 MHz	MO	8M00D1D	4 W (ERP)	
3720-3730 MHz	MO	8M00D1D	4 W (ERP)	

Anderson Lake, CA - NL 37-12-39; WL 121-38-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
902-928 MHz	FX	500KF1D	13 W (ERP)	0.001 %

MOBILE: Anderson Lake, CA, within 70 km, centered around NL 37-12-39; WL 121-38-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
902-928 MHz	MO	500KF1D	1.4 W (ERP)	0.001 %

Frequency Information

MOBILE: Anderson Lake, CA, within 70 km, centered around NL 37-12-39; WL 121-38-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5850-5895 MHz	MO	6M00F3F	1.1 W (ERP)	0.001 %

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) Licensee must notify the Advanced Wireless Service licensees in the proposed areas prior to accessing to 1710-1720 MHz and 2110-2120 MHz bands.
- (3) Stop Buzzer POC is Mike Arth, 775-204-3013, Email: marth@projecteagle.net
- (4) 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.
- (5) Prior to commencing any operations in the 1850-1860 MHz band, the licensee must obtain consent from Broadband PCS A block licensees (1850-1865 MHz/1930-1945 MHz) within 50 miles of the contours of the testing area.
- (6) Prior to commencing any operations in the 3720-3730 MHz band, the licensee must obtain consent from licensees in this sub-band of 3.70 GHz band licensees (3.70-3.98 GHz) within 50 miles of the contours of the testing area.
- (7) Coordinate with the local Society of Broadcast Engineers frequency coordinator in the proposed areas prior to operation in the 670-690 MHz and 480-490 MHz bands.
- (8) Notify the 600 Megahertz Band licensees (Service Code: WT) in each proposed area prior to accessing to the frequency range from 670 MHz to 690 MHz.

Special Conditions:

- (9) 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: 3700-4200 MHz (s-E) (Call sign S2592, S3076, S2733, S3016, S3164, S3083, S3015)

Frequency Bands: 3400-3700 MHz (s-E) (Call sign S2887, S2924)

Licensee: Intelsat License LLC Phone Number: 703—559—7799

ATTN: Mr. W. Ray Rutngamlug, E—Mail: ray.rutngamlugintelsat.com

Frequency Bands: 3700-4200 MHz (s-E) (Call sign S2674, S2472, S2703)

Licensee: Telesat Canada/Telesat Spectrum Corporation Phone Number: (613) 748-8700

ATTN: Ms Elisabeth Neasmith E—Mail: eneasmith@telesat.com

Frequency Bands: 3700-4200 MHz (s-E) (Call sign S2695, S2938, S2873)

Licensee: Satelites Mexicanos, S.A. de C.V. Phone Number: +52 55 2629 5800

ATTN: Mr. Hector Fortis, E-Mail: hector.fortis@eutelsat.com

Frequency Bands: 3700-4200 MHz (s-E) (Call sign S3099, S3097)

Licensee: SES Americom, Inc. Phone Number: 202-280-8657

ATTN: Mr. Daniel C.H. Mah, E—Mail: daniel.mah@ses.com

Frequency Bands: 310-508 MHz (UHS) 820-1280 MHz ((Earth-to-space))(Call sign S3213)

Licensee: Spire Global, Inc. Phone Number: 415-356-3400

ATTN: Ms Francisca Adeuyi E-Mail: francisca.adeuyi@spire.com

Frequency Bands: 1215-1300 MHz (Call sign S2986)

Licensee: Theia Holdings A, Inc. Phone Number: 470-346-6843

ATTN: Michael Fuqua E-Mail: mfuqua@brileyfin.com

Frequency Bands: 3700-4200 MHz (E-s) (Call sign S2990, S3059)

Licensee: Space Logistics, LLC Phone Number: 703-406-5000

ATTN: Mr. Joseph Anderson E-Mail: Joseph.Anderson@orbitalatk.com

Frequency Bands: 840-1400 MHz (Call sign S3170)

Licensee: Loft Orbital Solutions Inc. Phone Number: 410-382-5050

ATTN: Alex Greenberg E-Mail: alex@loftorbital.com

- (10) Operations for Electronic Attacks, Electronic Warfare and Countermeasures (EW and ECM) are NOT allowed.
- (11) Prior to commencing any operations in the 902-928 MHz band, the licensee must obtain consent from Location & Monitoring Service licensees (902-928 MHz) within 50 miles of the contours of the testing area.