

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

EXPERIMENTAL

(Nature of Service)

XT FX MO

(Class of Station)

WA8XAQ

(Call Sign)

1101-EX-ST-2026

(File Number)

NAME Hermeus Corporation

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:

Hermeus will be testing the full-scope functionality of its Supersonic prototype aircraft platform for the hypersonic aircraft development program, in flight, including all associated RF systems.

Station Locations

- (1) Point Mugu (VENTURA), CA - NL 34-07-27; WL 119-06-45
- (2) MOBILE: 70Kft MSL over sea on PMSR sea range, within 200 km, centered around NL 33-28-13; WL 120-21-04
- (3) MOBILE: 70Kft MSL over sea on PMSR Sea Range, within 200 km, centered around NL 33-28-13; WL 120-21-04
- (4) Point Mugu (VENTURA), CA - NL 34-07-27; WL 119-06-45
- (5) MOBILE: 70Kft MSL over sea on PMSR Sea Range, within 200 km, centered around NL 33-28-13; WL 120-21-04
- (6) Pt Mugu (VENTURA), CA - NL 34-07-27; WL 119-06-45
- (7) Pt Mugu (VENTURA), CA - NL 34-07-27; WL 119-06-45
- (8) MOBILE: 70Kft MSL over sea on PMSR Sea Range, within 200 km, centered around NL 33-28-13; WL 120-21-04

This authorization effective October 01, 2026 and
will expire 3:00 A.M. EST April 02, 2027

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Point Mugu (VENTURA), CA - NL 34-07-27; WL 119-06-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1441-1448 MHz	FX	7M00G1D	38.46 W (ERP)	0.002 %
1449.6-1456.6 MHz	FX	7M00G1D	38.46 W (ERP)	0.002 %
1488-1495 MHz	FX	7M00G1D	38.46 W (ERP)	0.002 %
1502-1509 MHz	FX	7M00G1D	38.46 W (ERP)	0.002 %
1511-1518 MHz	FX	7M00G1D	38.46 W (ERP)	0.002 %

MOBILE: 70Kft MSL over sea on PMSR sea range, within 200 km, centered around NL 33-28-13; WL 120-21-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2360.5-2370.5 MHz	MO	10M0G1D	12.16 W (ERP)	0.002 %
2365.5-2375.5 MHz	MO	10M0G1D	12.16 W (ERP)	0.002 %
2377.5-2387.5 MHz	MO	10M0G1D	12.16 W (ERP)	0.002 %

Frequency Information

MOBILE: 70Kft MSL over sea on PMSR Sea Range, within 200 km, centered around NL 33-28-13; WL 120-21-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
910-920 MHz	MO	10M0G1D	4.84 W (ERP)	0.002 %

Point Mugu (VENTURA), CA - NL 34-07-27; WL 119-06-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
910-920 MHz	FX	10M0G1D	12.16 W (ERP)	0.002 %

MOBILE: 70Kft MSL over sea on PMSR Sea Range, within 200 km, centered around NL 33-28-13; WL 120-21-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4250-4350 MHz	MO	100MF3N	609.5 mW (ERP)	0.002 %

Pt Mugu (VENTURA), CA - NL 34-07-27; WL 119-06-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
129-131 MHz	FX	6K00A3E	5 W (ERP)	0.002 %

Frequency Information

Pt Mugu (VENTURA), CA - NL 34-07-27; WL 119-06-45

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2440-2460 MHz	FX	10M0G1D	48 W (ERP)	0.002 %

MOBILE: 70Kft MSL over sea on PMSR Sea Range, within 200 km, centered around NL 33-28-13; WL 120-21-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2440-2460 MHz	MO	10M0G1D	12 W (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) This frequency assignment in one of the bands 1435-1525, 2310-2320 and 2345-2390 MHz was coordinated prior to authorization with the Western Area Frequency Coordinator (WAFC) who also coordinated it, as appropriate, with the Aerospace and Flight Test Radio Coordinating Council. Use of this frequency under the authority of this assignment is subject to such further coordination with the WAFC as necessary to ensure compatibility with existing uses.
- (3) 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.
- (4) Stop Buzzer:
Daniel Perez
Phone: 937-955-9422 Email: daniel.perez@hermeus.com
Jay Wagemann
Phone: 678-209-5091 Email: john.wagemann@hermeus.com

Special Conditions:

- (5) 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: 2400-2483.5 MHz FSS (s-E & E-s) (Call sign S3072)

Frequency Bands: 840-1400 MHz, 1160-1606 MHz (Call sign S3170)

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

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

Frequency Bands: 820-1280 MHz ((Earth-to-space) 2000-4000 MHz (S-band) (Call sign S3213)

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

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

- (6) Prior to commencing any operations in 910-920 MHz band, the applicant must obtain consent from licensees in this sub-band of Location & Monitoring Service (902-928 MHz) within 200 miles of the contours of the testing area.
- (7) Prior to commencing any operations in Aeronautical and Fixed frequencies (2360-2395 MHz), the licensee must coordinate with the Aerospace and Flight Test Radio Coordinating Council (AFTRCC).
- (8) Unwanted emissions in the 1400-1427 MHz band shall not exceed -28 dBW as per US338A.
- (9) Notification to the NASA GRC spectrum management office at rejones@nasa.gov is required at least 3 days prior to operation when transmissions overlap the following frequency ranges: 902-915.2 MHz, 916-928 MHz, or 2400-2500 MHz.
- (10) Operations in 1435-1525/2360-2390 MHz bands must be scheduled/coordinated/de-confliction in Interrange Frequency Deconfliction System (IFDS) via DoW Western Area Frequency Coordinator (WAFC) Mr. Jamie Heaton (760) 939-6832, jamie.heaton.civ@us.navy.mil. or Mr. Andrew Foltz (760) 939-6948, andrew.p.foltz.civ@us.navy.mil .
- (11) Within five (5) days prior to planned execution (or as soon as possible if within this window), Hermeus Corporation shall coordinate and schedule all operations of planned dates of active transmissions within the Integrated Frequency Deconfliction System (IFDS) through the Pt Mugu Sea Range (PMSR) Coordinator as requested by the Department of War Western Area Frequency Coordinator (DoW WAFC) office to mitigate harmful interference to Navy/Marine Corps/DoD operations. Please reference STA number: 1101-EX-ST-2026.
- a. Pt Mugu Sea Range (PMSR) Coordinator: Mohammad Abdul-Rahim, Mohammad.abdul-rahim2.civ@us.navy.mil, Commercial 805-989-1003
- b. Department of War Western Area Frequency Coordinator (DoW WAFC) office: usn.china-lake.nawcawd.mbx.DOD-WAFC@us.navy.mil, 760-939-6832
- (12) The Stop Buzzer POC information shall be provided to both DoW WAFC and PMSR. This phone shall be manned during all periods of active transmissions.