

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

EXPERIMENTAL

(Nature of Service)

WS9XRK

(Call Sign)

XT FX

(Class of Station)

1378-EX-ST-2021

(File Number)

NAME Insitu

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 request is based on the need to test satellite L-Band module onboard air vehicle on ground to ensure electromagnetic compatibility (EMC).

Station Locations

- (1) Bingen, WA - NL 45-42-20; WL 121-27-30
- (2) Boardman, OR - NL 45-44-54; WL 119-48-13

Frequency Information

Bingen, WA - NL 45-42-20; WL 121-27-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	FX	117KD1W	60 W (ERP)	

This authorization effective September 13, 2021 and
will expire 3:00 A.M. EST February 14, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

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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 should be aware that other stations may be licensed on these frequencies and if any interference occurs, the licensee of this authorization will be subject to immediate shut down.
- (3) Stop Buzzer: Insitu Operations Action Center at 509-637-4691

Special Conditions:

- (4) Prior to commencing any operations in the 1626.5-1660.5 MHz (E-S) frequency bands, experimental licensee must notify licensees of earth stations. 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 include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test. Please notify the following licensees:

Call Sign: E100192, E030055

Frequency bands: 1626.5 - 1645.5 MHz, 1646.5 - 1660.5 MHz

Licensee: ORBCOMM License Corp.

ATTN: Mr. Walter H. Sonnenfeldt,

Phone Number: 585-461-3018, E-Mail: sonnenfeldt.walter@orbcomm.com)

Call Sign: E090029

Frequency bands: 1631.5 - 1645.5 MHz, 1646.5 - 1660.5 MHz

Licensee: COMTECH MOBILE DATACOM CORP.

Phone Number: 240-686-3300

Fax Number: 240-686-3301

E-Mail: John.Fossaceca@comtechmobile.com

Attention: John Fossaceca

Name: Joan M. Griffin Phone Number: 202-342-8573

Company: Kelley Drye & Warren LLP

Fax Number: 202-342-8451

E-Mail: jgriffin@kelleydrye.com

Attention: Relationship: Legal Counsel

Call Sign: E980203

Frequency bands: 1638.5 – 1642 MHz

Licensee: OuterLink Corporation

Phone Number: 877-688-3770

Fax Number: 978-371-9502

E-Mail: E-Mail: sdurante@outerlink.com

Attention: Paul F. Newcomb

Name: Bruce Olcott Phone Number: 202-626-6615

Company: Squire, Sanders & Dempsey (US) LLP

E-Mail: bruce.olcott@ssd.com

Relationship: Legal Counsel

Call Sign: E000180, E010048, E010050, E050249

Frequency bands: 1626.5 - 1660.5 MHz

Licensee: Inmarsat Solutions (US) Inc. Phone Number: 202-572-0686

Fax Number: 202-248-5177

E-Mail: Ethan.Lucarelli@inmarsat.com

Attention: M. Ethan Lucarelli

Name: Phillip R. Marchesiello Phone Number: 202-383-3343

Company: Wilkinson Barker Knauer, LLP Fax Number: 202-783-5851

E-Mail: pmarchesiello@wbklaw.com

Relationship: Legal Counsel

Call Sign: E090032

Frequency bands: 1626.5 - 1660.5 MHz

Licensee: ISAT US Inc. and Inmarsat Solutions (US) Inc. Phone Number:

Speci:202-572-0686

Fax Number: 202-248-5177

E-Mail: Ethan.Lucarelli@inmarsat.com

Attention: M. Ethan Lucarelli

Name: Phillip R. Marchesiello Phone Number: 202-383-3343

Company: Wilkinson Barker Knauer, LLP Fax Number: 202-783-5851

E-Mail: pmarchesiello@wbklaw.com

Relationship: Legal Counsel

Call Sign: E980179

Frequency bands: 1626.5 - 1660.5 MHz

Licensee: Ligado Networks Subsidiary LLC

Phone Number 703-390-2004 Fax Number 703-390-2778

Contact: Ms. Valerie Green Email: Valerie@Ligado.com

Name: Gerard J. Waldron Phone Number: 202-662-5360

Company: Covington & Burling LLP Fax Number: 202-778-5360

E-Mail: gwaldron@cov.com Relationship: Legal Counsel

Call Sign: E000284, E050276

Frequency bands: 1626.5 - 1660.5 MHz

Licensee: Comsat, Inc.

Attention: Michelle Wagner Phone Number: 571-599-3632 E-Mail: MWagner

@comsat.com OR

Attention: James G. Lovelace Phone Number: 571-599-3643 E-Mail:

jLovelace.ctr@comsat.com

Call Sign: E130033

Frequency bands: 1625.5 - 1645.5 MHz and 1646.5 - 1660.5 MHz

Licensee: ViaSat, Inc.

Phone Number 760-476-2583 Fax Number 760-929-3941

Contact: Mr Daryl T Hunter Email: E-Mail: daryl.hunter@viasat.com

Call Sign: E100051

Frequency bands: 1625.5 - 1660.5 MHz

Licensee: Ligado Networks Subsidiary LLC

Phone Number 703-390-2700

Contact: Mr. William Davenport Email: E-Mail: compliance@ligado.com

Call Sign: E980159

Frequency bands: 1646.5 - 1660.5 MHz

Licensee: Satcom Systems, Incorporated Phone Number: 818-775-9740

Fax Number: 818-885-1882

Attention: Mr Tom D Soumas Jr

Name: William K. Coulter Phone Number: 202-835-6136 E-Mail: william.k.coulter

Company: Baker & McKenzie LLP Fax Number: 202-416-7138

Relationship: Legal Counsel

Call Sign: E930367

Frequency bands: 1626.5 - 1660.5 MHz

Licensee: Ligado Networks Subsidiary LLC Phone Number: 703-390-2797

Fax Number: 703-390-2778

Attention: Maqbool Aliani

Name: Elizabeth Park Phone Number: 202-637-1056 E-Mail: Elizabeth.Park@lw.com

Special Agent: Company: Latham & Watkins LLP
Relationship: Legal Counsel

Call Sign: E020074

Frequency bands: 1626.5 - 1645.5 MHz

Licensee: Honeywell International Inc.

Name: Donna Balaguer Phone Number: 202-626-7719

Company: Fish & Richardson P.C. Fax Number: 202-783-2331

E-Mail: balaguer@fr.com

Attention: Relationship: Legal Counsel

- (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.