

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

EXPERIMENTAL

(Nature of Service)

WR9XLQ

(Call Sign)

XT FX MO

(Class of Station)

1919-EX-ST-2020

(File Number)

NAME American Aerospace Technologies Inc

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:

As part of the SIO program AATI is required to perform a flight demonstration with detect and avoid (DAA) equipment and a command non-payload communication (CNPC) command and

Station Locations

- (1) Buttonwillow (KERN), CA - NL 35-21-12; WL 119-28-47
- (2) MOBILE: Buttonwillow Airport, airborne max alt 5,000ft MSL Buttonwillow, CA, within 85 km, centered around NL 35-21-12; WL 119-28-47
- (3) MOBILE: Buttonwillow Airport, airborne max alt 5,000ft MSL Buttonwillow, CA, within 85 km, centered around NL 35-21-12; WL 119-28-47
- (4) MOBILE: Buttonwillow Airport, airborne max alt 5,000ft MSL Buttonwillow, CA, within 85 km, centered around NL 35-21-12; WL 119-28-47

Frequency Information

Buttonwillow (KERN), CA - NL 35-21-12; WL 119-28-47

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5035.205 MHz	FX	120KP1D	7676.37 W (ERP)	

This authorization effective February 01, 2021 and
will expire 3:00 A.M. EST August 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Buttonwillow (KERN), CA - NL 35-21-12; WL 119-28-47

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5039.505 MHz	FX	120KP1D	7676.37 W (ERP)	

MOBILE: Buttonwillow Airport, airborne max alt 5,000ft MSL Buttonwillow, CA, within 85 km, centered around NL 35-21-12; WL 119-28-47

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5035.205 MHz	MO	120KP1D	19.28 W (ERP)	
5039.505 MHz	MO	120KP1D	19.28 W (ERP)	

MOBILE: Buttonwillow Airport, airborne max alt 5,000ft MSL Buttonwillow, CA, within 85 km, centered around NL 35-21-12; WL 119-28-47

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24467.5-24512.5 MHz	MO	45M0F3N	4 W (ERP)	
24527.5-24572.5 MHz	MO	45M0F3N	4 W (ERP)	
24587.5-24632.5 MHz	MO	45M0F3N	4 W (ERP)	

Frequency Information

MOBILE: Buttonwillow Airport, airborne max alt 5,000ft MSL Buttonwillow, CA, within 85 km, centered around NL 35-21-12;
WL 119-28-47

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	MO	8M00G1D 25M3G1D	19.28 W (ERP)	0.005 %

Special Conditions:

- (1) The authorized experimental stations operating in the 1626.5-1660.5 MHz frequency band at 19.28W (ERP) (EIRP of 15 dBW) must not exceed the power levels including EIRP and EIRP density operated by the legally authorized Mobile Earth Stations (MESS) unless the satellite operator(s) operated the satellite(s) listed in the point of communications of MESS' license(s) agrees to transmissions at a higher power.
- (2) Operations in the 1544-1545/1645.5-1646.5 MHz frequency bands ARE LIMITED to distress and safety communications, in accordance with International Footnotes 5.356 and 5.375 of the ITU Radio Regulations.
- (3) Stop buzzer: Marty McGregor
Phone: 267-549-6377
Email: marty@americanaerospace.com

Special Conditions:

- (4) Prior to commencing any operations in the 1626.5-1660.5 MHz frequency band, experimental licensee must notify licensees of Mobile Earth Stations (MESs). 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:

MESs Call Sign: E100192
MESs Call Sign: E030055
Licensee: ORBCOMM LICENSE CORP.
Phone Number: 585-461-3018
E-Mail: sonnenfeldt.walter@orbcomm.com
Attention: Mr. Walter H. Sonnenfeldt

MESs Call Sign: E090029
Licensee: COMTECH MOBILE DATACOM CORP.
Phone Number: 240-686-3300
Fax Number: 240-686-3301
E-Mail: John.Fossaceca@comtechmobile.com
Attention: John Fossaceca

MESs Call Sign: E980203
Licensee: OuterLink Corporation
Phone Number: 877-688-3770
E-Mail: sdurante@outerlink.com
Attention: Paul F. Newcomb

MESs Call Sign: E050249
MESs Call Sign: E000180
Licensee: Inmarsat Solutions (US) Inc.
Name: Stratos Communications, Inc.
Phone Number: 301-968-1951
E-Mail: Regan.Rishel@stratosglobal.com
Attention: Ms Regan Rishel

MESs Call Sign: E090032
Licensees: ISAT US Inc.
Tel: 202-572-0686
Contact: M. Ethan Lucarelli
Email: Ethan.Lucarelli@inmarsat.com

MESs Call Sign: E980179
MESs Call Sign: E930367
Licensee: Ligado Networks Subsidiary LLC
Name: LightSquared Subsidiary LLC,
Phone Number: 703-390-2001
E-Mail: jeff.carlisle@lightsquared.com
Attention: Mr Jeffrey J Carlisle

MESs Call Sign: E130033

Special Licensees: ViaSat, Inc.

Phone Number: 760-476-2583

E-Mail: daryl.hunter@viasat.com

Attention: Mr Daryl T Hunter

MESs Call Sign: E980159

Licensees: Satcom Systems, Incorporated

Phone Number: 818-775-9740

E-Mail: william.k.coulter@bakernet.com

Attention: Mr Tom D Soumas Jr

MESs Call Sign: E020074

Licensees: Honeywell International Inc.

Phone Number: 602-436-4624

E-Mail: carl.shore@honeywell.com

Attention: Mr. Carl Shore

- (5) American Aerospace Technologies, Inc. must coordinate with WAFC (jamie.heaton@navy.mil or andrew.foltz@navy.mil) prior to operations.