

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

EXPERIMENTAL

(Nature of Service)

WQ9XJY

(Call Sign)

XT FX MO

(Class of Station)

0060-EX-ST-2021

(File Number)

NAME General Atomics Aeronautical Systems, 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:

Use fo fixed and mobile emitters that will be used on an unmanned aerial system (UAS) to participate in the PACFLT-ONR UxS Integrated Battle Problem exercise.

Station Locations

- (1) Gray Butte (LOS ANGELES), CA - NL 34-34-12; WL 117-40-48; MOBILE: max altitude 25,000 ft. MSL, within 45 km
- (2) MOBILE: Gray Butte, CA: max altitude 25,000 ft. MSL, within 45 km, centered around NL 34-34-12; WL 117-40-48
- (3) MOBILE: Gray Butte, CA: max altitude 25,000 ft. MSL, within 310 km, centered around NL 34-34-12; WL 117-40-48

Frequency Information

Gray Butte (LOS ANGELES), CA - NL 34-34-12; WL 117-40-48; MOBILE: max altitude 25,000 ft. MSL, within 45 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
137.125 MHz	FX	224KF1D	933 mW (ERP)	0.1 %
137.5 MHz	FX	224KF1D	933 mW (ERP)	0.1 %

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

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Gray Butte (LOS ANGELES), CA - NL 34-34-12; WL 117-40-48; MOBILE: max altitude 25,000 ft. MSL, within 45 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
137.875 MHz	FX	224KF1D	933 mW (ERP)	0.1 %
144.25 MHz	FX	224KF1D	933 mW (ERP)	0.1 %
144.625 MHz	FX	224KF1D	933 mW (ERP)	0.1 %
145 MHz	FX	224KF1D	933 mW (ERP)	0.1 %
145.375 MHz	FX	224KF1D	933 mW (ERP)	0.1 %
145.75 MHz	FX	224KF1D	933 mW (ERP)	0.1 %
146.125 MHz	FX	224KF1D	933 mW (ERP)	0.1 %
146.5 MHz	FX	224KF1D	933 mW (ERP)	0.1 %
146.875 MHz	FX	224KF1D	933 mW (ERP)	0.1 %
147.25 MHz	FX	224KF1D	933 mW (ERP)	0.1 %

Frequency Information

Gray Butte (LOS ANGELES), CA - NL 34-34-12; WL 117-40-48; MOBILE: max altitude 25,000 ft. MSL, within 45 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
151 MHz	FX	224KF1D	933 mW (ERP)	0.1 %
151.75 MHz	FX	224KF1D	933 mW (ERP)	0.1 %
152.125 MHz	FX	224KF1D	933 mW (ERP)	0.1 %
152.5 MHz	FX	224KF1D	933 mW (ERP)	0.1 %
152.875 MHz	FX	224KF1D	933 mW (ERP)	0.1 %
153.25 MHz	FX	224KF1D	933 mW (ERP)	0.1 %
153.625 MHz	FX	224KF1D	933 mW (ERP)	0.1 %
156.625 MHz	FX	224KF1D	933 mW (ERP)	0.1 %
157.375 MHz	FX	224KF1D	933 mW (ERP)	0.1 %
158.125 MHz	FX	224KF1D	933 mW (ERP)	0.1 %

Frequency Information

Gray Butte (LOS ANGELES), CA - NL 34-34-12; WL 117-40-48; MOBILE: max altitude 25,000 ft. MSL, within 45 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
158.5 MHz	FX	224KF1D	933 mW (ERP)	0.1 %
159.625 MHz	FX	224KF1D	933 mW (ERP)	0.1 %
160 MHz	FX	224KF1D	933 mW (ERP)	0.1 %
160.375 MHz	FX	224KF1D	933 mW (ERP)	0.1 %
160.75 MHz	FX	224KF1D	933 mW (ERP)	0.1 %
161.125 MHz	FX	224KF1D	933 mW (ERP)	0.1 %
291.25-291.55 MHz	MO	300KA1D	69.5 W (ERP)	0.001 %

MOBILE: Gray Butte, CA: max altitude 25,000 ft. MSL, within 45 km, centered around NL 34-34-12; WL 117-40-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9600 MHz	MO	18M4Q1N 206MQ3N 2M10P0N 2M70Q0N 3M00P0N 560KP0N	121.374 MW (ERP)	

Frequency Information

MOBILE: Gray Butte, CA: max altitude 25,000 ft. MSL, within 45 km, centered around NL 34-34-12; WL 117-40-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9600 MHz	MO	80M0Q3N 8M00P0N	121.374 MW (ERP)	

MOBILE: Gray Butte, CA: max altitude 25,000 ft. MSL, within 310 km, centered around NL 34-34-12; WL 117-40-48

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9380-9440 MHz	MO	60M0P0N	2.5 kW (ERP)	0.003 %

Special Conditions:

- (1) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at https://www.sbe.org/sections/freq_local.php to find the appropriate coordinator.
- (2) General Atomics Aeronautical Systems, Inc. may not operate in the 960 - 1215 MHz band due to interference to ongoing federal operations.
- (3) General Atomics Aeronautical Systems, Inc. may not operate within the R2508 complex.
- (4) Notification shall be provided to the NASA GSFC Spectrum Office at NASA-DL-GSFC-SPECTRUM-MANAGEMENT@MAIL.NASA.GOV, at least 3 days in advance of operations using the 9405-9415 MHz band.
- (5) Prior to commencing any operations in the frequencies below, the applicant must obtain consent from the following within 226 miles of the contours of the testing area:

Paging Service licensees in 152 MHz
Paging Service licensees in 158 MHz
Mobile Service licensees in 152 MHz/158 MHz