

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

EXPERIMENTAL

(Nature of Service)

WQ9XFT

(Call Sign)

XT MO

(Class of Station)

1324-EX-ST-2020

(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:

Ground testing and flight testing of ADS-B, TCAS, CNPC C-band radio prototype, and Lynx synthetic aperture radar systems

Station Locations

- (1) MOBILE: Riverside County: max altitude 20,000 ft MSL, within 240 km, centered around NL 33-30-00; WL 116-30-00
- (2) MOBILE: Riverside County: max altitude 20,000 ft MSL, within 240 km, centered around NL 33-30-00; WL 116-30-00
- (3) MOBILE: Riverside County: max altitude 20,000 ft MSL, within 240 km, centered around NL 33-30-00; WL 116-30-00
- (4) MOBILE: Yampai, AZ: max altitude 20,000 ft MSL, within 190 km, centered around NL 35-30-00; WL 113-00-00
- (5) MOBILE: Yampai, AZ: max altitude 20,000 ft MSL, within 190 km, centered around NL 35-30-00; WL 113-00-00
- (6) MOBILE: Yampai, AZ: max altitude 20,000 ft MSL, within 190 km, centered around NL 35-30-00; WL 113-00-00

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

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Riverside County: max altitude 20,000 ft MSL, within 240 km, centered around NL 33-30-00; WL 116-30-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1030 MHz	MO	20K0G2D	767 W (ERP)	0.001 %

MOBILE: Riverside County: max altitude 20,000 ft MSL, within 240 km, centered around NL 33-30-00; WL 116-30-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1090 MHz	MO	13M5M1D	966 W (ERP)	0.001 %
		10M0M1D		
		18M8Q2D		
		11M9M1D		

MOBILE: Riverside County: max altitude 20,000 ft MSL, within 240 km, centered around NL 33-30-00; WL 116-30-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.4025-16.9975 GHz	MO	295MQ3N	460 kW (ERP)	0.0005 %
16.4025-17.3 GHz	MO	295MQ3N	460 kW (ERP)	0.0005 %
		636MQ3N		

MOBILE: Yampai, AZ: max altitude 20,000 ft MSL, within 190 km, centered around NL 35-30-00; WL 113-00-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
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		11M9M1D		

MOBILE: Yampai, AZ: max altitude 20,000 ft MSL, within 190 km, centered around NL 35-30-00; WL 113-00-00

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16.4025-16.9975 GHz	MO	295MQ3N	460 kW (ERP)	0.0005 %
16.4025-17.3 GHz	MO	295MQ3N	460 kW (ERP)	0.0005 %
		636MQ3N		

Special Conditions:

- (1) Operations are limited to General Atomics SkyGuardian aircraft UBC97000-1, Serial Number: YBC01 and Registration Mark: N190TC and must be in accordance with the operating limitations found in the FAA Special Airworthiness Certificate – Experimental Category for that aircraft.
- (2) Operations for 1090 MHz and 1030 MHz shall adhere to the coordination requirements per WebFCR coordinations NG T200594-T200603.