

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE**

EXPERIMENTAL

(Nature of Service)

WK2XTN

(Call Sign)

XT FX MO

(Class of Station)

1062-EX-CN-2019

(File Number)

NAME General Atomics Aeronautical Systems, Inc.

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(c) of the Commission's Rules

Station Locations

- (1) Yuma (YUMA), AZ - NL 33-10-00; WL 114-05-00; MOBILE: UAS w/i Special Use Airspace; Max Altitude 45k MSL, within 60 km, centered around NL 33-10-00; WL 114-05-00

Frequency Information

Yuma (YUMA), AZ - NL 33-10-00; WL 114-05-00; MOBILE: UAS w/i Special Use Airspace; Max Altitude 45k MSL, within 60 kr

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5260 MHz	MO	20M0F9W	501 W (ERP)	0.005 %
5280 MHz	MO	20M0F9W	126 kW (ERP)	0.005 %
5300 MHz	MO	20M0F9W	501 W (ERP)	0.005 %
5315 MHz	MO	20M0F9W	631 W (ERP)	0.005 %

This authorization effective April 23, 2020 and
will expire 3:00 A.M. EST May 01, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5335 MHz	MO	20M0F9W	631 W (ERP)	0.005 %
5350 MHz	MO	20M0F9W	501 W (ERP)	0.005 %
5365 MHz	MO	20M0F9W	631 W (ERP)	0.005 %
5380 MHz	MO	20M0F9W	631 W (ERP)	0.005 %
5400 MHz	MO	20M0F9W	501 W (ERP)	0.005 %
5420 MHz	MO	20M0F9W	126 kW (ERP)	0.005 %
5440 MHz	MO	20M0F9W	501 W (ERP)	0.005 %
5460 MHz	MO	1M00F9W	501 W (ERP)	0.005 %
5480 MHz	MO	20M0F9W	501 W (ERP)	0.005 %
5500 MHz	MO	20M0F9W	501 W (ERP)	0.005 %

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5520 MHz	MO	20M0F9W	501 W (ERP)	0.005 %
5540 MHz	MO	20M0F9W	501 W (ERP)	0.005 %
5555 MHz	MO	20M0F9W	501 W (ERP)	0.005 %
5575 MHz	MO	20M0F9W	501 W (ERP)	0.005 %
5595 MHz	MO	20M0F9W	501 W (ERP)	0.005 %
5615 MHz	MO	20M0F9W	501 W (ERP)	0.005 %
5660 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5675 MHz	FX	1M00F9W	501 W (ERP)	0.005 %
5700 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5710 MHz	FX	1M00F9W	20 kW (ERP)	0.005 %

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5725 MHz	FX	1M00F9W	501 W (ERP)	0.005 %
5725 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5750 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5770 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5775 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5780 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5792 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5800 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5805 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5810 MHz	FX	1M00F9W	20 kW (ERP)	0.005 %

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5815 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5820 MHz	FX	1M00F9W	501 W (ERP)	0.005 %
5820 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5825 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5830 MHz	FX	1M00F9W	501 W (ERP)	0.005 %
5830 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5834 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5842 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5850 MHz	FX	20M0F9W	501 W (ERP)	0.005 %
5850 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %

Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (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) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) Coordination with the YUMA Spectrum Management Office is mandatory at least 14 calendar days prior to any intended use of this frequency on YPG or within its restricted airspace by contacting the YPG SMO at 928-328-7144. FAA conditionally concurs with the use of this spectrum for the support of legacy military UAS C2 Systems, but it shall not be used for development of new military or any civilian UAS platforms. Instead, it may be used for the transition of existing platforms to the 5030-5091 MHz range. Also, the flight operations shall be limited to restricted airspace R-2306, R-2307, R-2308, and R-2311. Since the C-band Command and Control link is operating under an experimental license which has no protection from interference, the satellite link must be active at all times to mitigate this issue..