

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

EXPERIMENTAL
(Nature of Service)

XT FX MO
(Class of Station)

WC2XLR
(Call Sign)

0180-EX-ML-2015
(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) Grand Forks (GRAND FORKS), ND - NL 47-56-19; WL 97-24-30; MOBILE: Airborne: Max altitude 29,000 ft MSL, within 325 km
- (2) Yuma, AZ - NL 32-51-36; WL 114-23-48; MOBILE: , within 200 km
- (3) Palmdale (LOS ANGELES), CA - NL 34-33-49; WL 117-40-46; MOBILE: , within 325 km

Frequency Information

Grand Forks (GRAND FORKS), ND - NL 47-56-19; WL 97-24-30; MOBILE: Airborne: Max altitude 29,000 ft MSL, within 325 k

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
32.5 MHz	FX	18K2F3E	1 W (ERP)	0.005 %
32.5 MHz	MO	18K2F3E	1 W (ERP)	0.005 %
34.5 MHz	FX	18K2F3E	1 W (ERP)	0.005 %

This authorization effective January 14, 2016 and will expire 3:00 A.M. EST February 01, 2016

FEDERAL
COMMUNICATIONS
COMMISSION



Frequency Information

Grand Forks (GRAND FORKS), ND - NL 47-56-19; WL 97-24-30; MOBILE: Airborne: Max altitude 29,000 ft MSL, within 325 k

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
34.5 MHz	MO	18K2F3E	1 W (ERP)	0.005 %
36.5 MHz	FX	18K2F3E	1 W (ERP)	0.005 %
36.5 MHz	MO	18K2F3E	1 W (ERP)	0.005 %
41 MHz	FX	18K2F3E	500 mW (ERP)	0.005 %
41 MHz	MO	18K2F3E	500 mW (ERP)	0.005 %
74.7 MHz	MO	18K2F3E	1 W (ERP)	0.005 %
74.7 MHz	FX	18K2F3E	1 W (ERP)	0.005 %
123.225 MHz	FX	6K00A3E	7 W (ERP)	0.005 %
123.325 MHz	FX	6K00A3E	7 W (ERP)	0.005 %
123.475 MHz	FX	6K00A3E	7 W (ERP)	0.005 %

Frequency Information

Grand Forks (GRAND FORKS), ND - NL 47-56-19; WL 97-24-30; MOBILE: Airborne: Max altitude 29,000 ft MSL, within 325 k

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
123.55 MHz	FX	6K00A3E	7 W (ERP)	0.005 %
14569 MHz	MO	17M0F9W	384 W (ERP)	0.001 %
14730 MHz	MO	17M0F9W	384 W (ERP)	0.001 %
15340 MHz	FX	560KF1D	38 kW (ERP)	0.001 %
15345 MHz	FX	560KF1D	38 kW (ERP)	0.001 %

Yuma, AZ - NL 32-51-36; WL 114-23-48; MOBILE: , within 200 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
32.5 MHz	FX	18K2F3E	1 W (ERP)	0.005 %
32.5 MHz	MO	18K2F3E	1 W (ERP)	0.005 %
34.5 MHz	FX	18K2F3E	1 W (ERP)	0.005 %
34.5 MHz	MO	18K2F3E	1 W (ERP)	0.005 %

Frequency Information

Yuma, AZ - NL 32-51-36; WL 114-23-48; MOBILE: , within 200 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
36.5 MHz	FX	18K2F3E	1 W (ERP)	0.005 %
36.5 MHz	MO	18K2F3E	1 W (ERP)	0.005 %
41 MHz	FX	18K2F3E	500 mW (ERP)	0.005 %
41 MHz	MO	18K2F3E	500 mW (ERP)	0.005 %
74.7 MHz	FX	18K2F3E	1 W (ERP)	0.005 %
74.7 MHz	MO	18K2F3E	1 W (ERP)	0.005 %
123.45 MHz	FX	6K00A3E	7 W (ERP)	0.005 %
5260 MHz	FX	20M0F9W	501 W (ERP)	0.005 %
5260 MHz	MO	20M0F9W	501 W (ERP)	0.005 %
5280 MHz	MO	20M0F9W	126 kW (ERP)	0.005 %

Frequency Information

Yuma, AZ - NL 32-51-36; WL 114-23-48; MOBILE: , within 200 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5280 MHz	FX	20M0F9W	126 kW (ERP)	0.005 %
5300 MHz	MO	20M0F9W	501 W (ERP)	0.005 %
5300 MHz	FX	20M0F9W	501 W (ERP)	0.005 %
5315 MHz	MO	20M0F9W	631 W (ERP)	0.005 %
5315 MHz	FX	20M0F9W	631 W (ERP)	0.005 %
5335 MHz	MO	20M0F9W	631 W (ERP)	0.005 %
5335 MHz	FX	20M0F9W	631 W (ERP)	0.005 %
5350 MHz	MO	20M0F9W	501 W (ERP)	0.005 %
5350 MHz	FX	20M0F9W	501 W (ERP)	0.005 %
5365 MHz	MO	20M0F9W	631 W (ERP)	0.005 %

Frequency Information

Yuma, AZ - NL 32-51-36; WL 114-23-48; MOBILE: , within 200 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5365 MHz	FX	20M0F9W	631 W (ERP)	0.005 %
5380 MHz	MO	20M0F9W	631 W (ERP)	0.005 %
5380 MHz	FX	20M0F9W	631 W (ERP)	0.005 %
5400 MHz	MO	20M0F9W	501 W (ERP)	0.005 %
5400 MHz	FX	20M0F9W	501 W (ERP)	0.005 %
5420 MHz	MO	20M0F9W	126 kW (ERP)	0.005 %
5420 MHz	FX	20M0F9W	126 kW (ERP)	0.005 %
5430 MHz	MO	1M00F9W	126 kW (ERP)	0.005 %
5430 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5440 MHz	MO	20M0F9W	501 W (ERP)	0.005 %

Frequency Information

Yuma, AZ - NL 32-51-36; WL 114-23-48; MOBILE: , within 200 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5440 MHz	FX	20M0F9W	501 W (ERP)	0.005 %
5460 MHz	MO	1M00F9W	501 W (ERP)	0.005 %
5460 MHz	FX	1M00F9W	501 W (ERP)	0.005 %
5480 MHz	MO	20M0F9W	501 W (ERP)	0.005 %
5500 MHz	MO	20M0F9W	501 W (ERP)	0.005 %
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 %

Frequency Information

Yuma, AZ - NL 32-51-36; WL 114-23-48; MOBILE: , within 200 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5615 MHz	MO	20M0F9W	501 W (ERP)	0.005 %
5650 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5650 MHz	MO	1M00F9W	126 kW (ERP)	0.005 %
5660 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5660 MHz	MO	1M00F9W	126 kW (ERP)	0.005 %
5675 MHz	MO	1M00F9W	501 W (ERP)	0.005 %
5675 MHz	FX	1M00F9W	501 W (ERP)	0.005 %
5700 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5700 MHz	MO	1M00F9W	126 kW (ERP)	0.005 %
5710 MHz	FX	1M00F9W	20 kW (ERP)	0.005 %

Frequency Information

Yuma, AZ - NL 32-51-36; WL 114-23-48; MOBILE: , within 200 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5710 MHz	MO	1M00F9W	20 kW (ERP)	0.005 %
5725 MHz	FX	1M00F9W	501 W (ERP)	0.005 %
5725 MHz	MO	1M00F9W	501 W (ERP)	0.005 %
5750 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5750 MHz	MO	1M00F9W	126 kW (ERP)	0.005 %
5762 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5766 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5770 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5775 MHz	FX	1M00F9W	501 W (ERP)	0.005 %
5775 MHz	MO	1M00F9W	501 W (ERP)	0.005 %

Frequency Information

Yuma, AZ - NL 32-51-36; WL 114-23-48; MOBILE: , within 200 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5780 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5784 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5788 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5792 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5796 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5800 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5800 MHz	MO	1M00F9W	126 kW (ERP)	0.005 %
5805 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5810 MHz	FX	1M00F9W	20 kW (ERP)	0.005 %
5810 MHz	MO	1M00F9W	20 kW (ERP)	0.005 %

Frequency Information

Yuma, AZ - NL 32-51-36; WL 114-23-48; MOBILE: , within 200 km

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	MO	1M00F9W	501 W (ERP)	0.005 %
5825 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5830 MHz	FX	1M00F9W	501 W (ERP)	0.005 %
5830 MHz	MO	1M00F9W	501 W (ERP)	0.005 %
5834 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5838 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5842 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5846 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %

Frequency Information

Yuma, AZ - NL 32-51-36; WL 114-23-48; MOBILE: , within 200 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5850 MHz	FX	20M0F9W	501 W (ERP)	0.005 %
5850 MHz	MO	20M0F9W	501 W (ERP)	0.005 %
5850 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5850 MHz	MO	1M00F9W	126 kW (ERP)	0.005 %
14569 MHz	MO	17M0F9W	384 W (ERP)	0.001 %
14730 MHz	MO	17M0F9W	384 W (ERP)	0.001 %
15340 MHz	FX	560KF1D	38 kW (ERP)	0.001 %
15345 MHz	FX	560KF1D	38 kW (ERP)	0.001 %

Palmdale (LOS ANGELES), CA - NL 34-33-49; WL 117-40-46; MOBILE: , within 325 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
32.5 MHz	MO	18K2F3E	1 W (ERP)	0.005 %

Frequency Information

Palmdale (LOS ANGELES), CA - NL 34-33-49; WL 117-40-46; MOBILE: , within 325 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
32.5 MHz	FX	18K2F3E	1 W (ERP)	0.005 %
34.5 MHz	MO	18K2F3E	1 W (ERP)	0.005 %
34.5 MHz	FX	18K2F3E	1 W (ERP)	0.005 %
36.5 MHz	MO	18K2F3E	1 W (ERP)	0.005 %
36.5 MHz	FX	18K2F3E	1 W (ERP)	0.005 %
41 MHz	MO	18K2F3E	500 mW (ERP)	0.005 %
41 MHz	FX	18K2F3E	500 mW (ERP)	0.005 %
74.7 MHz	MO	18K2F3E	1 W (ERP)	0.005 %
74.7 MHz	FX	18K2F3E	1 W (ERP)	0.005 %
123.225 MHz	FX	6K00A3E	7 W (ERP)	0.005 %

Frequency Information

Palmdale (LOS ANGELES), CA - NL 34-33-49; WL 117-40-46; MOBILE: , within 325 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
123.325 MHz	FX	6K00A3E	7 W (ERP)	0.005 %
123.475 MHz	FX	6K00A3E	7 W (ERP)	0.005 %
123.55 MHz	FX	6K00A3E	7 W (ERP)	0.005 %
5260 MHz	MO	20M0F9W	501 W (ERP)	0.005 %
5260 MHz	FX	20M0F9W	501 W (ERP)	0.005 %
5280 MHz	MO	20M0F9W	126 kW (ERP)	0.005 %
5280 MHz	FX	20M0F9W	126 kW (ERP)	0.005 %
5300 MHz	MO	20M0F9W	501 W (ERP)	0.005 %
5300 MHz	FX	20M0F9W	501 W (ERP)	0.005 %
5315 MHz	MO	20M0F9W	631 W (ERP)	0.005 %

Frequency Information

Palmdale (LOS ANGELES), CA - NL 34-33-49; WL 117-40-46; MOBILE: , within 325 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5315 MHz	FX	20M0F9W	631 W (ERP)	0.005 %
5335 MHz	MO	20M0F9W	631 W (ERP)	0.005 %
5335 MHz	FX	20M0F9W	631 W (ERP)	0.005 %
5350 MHz	MO	20M0F9W	501 W (ERP)	0.005 %
5350 MHz	FX	20M0F9W	501 W (ERP)	0.005 %
5365 MHz	MO	20M0F9W	631 W (ERP)	0.005 %
5365 MHz	FX	20M0F9W	631 W (ERP)	0.005 %
5380 MHz	MO	20M0F9W	631 W (ERP)	0.005 %
5380 MHz	FX	20M0F9W	631 W (ERP)	0.005 %
5400 MHz	MO	20M0F9W	501 W (ERP)	0.005 %

Frequency Information

Palmdale (LOS ANGELES), CA - NL 34-33-49; WL 117-40-46; MOBILE: , within 325 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5400 MHz	FX	20M0F9W	501 W (ERP)	0.005 %
5420 MHz	MO	20M0F9W	126 kW (ERP)	0.005 %
5420 MHz	FX	20M0F9W	126 kW (ERP)	0.005 %
5430 MHz	MO	1M00F9W	126 kW (ERP)	0.005 %
5430 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5440 MHz	MO	20M0F9W	501 W (ERP)	0.005 %
5440 MHz	FX	20M0F9W	501 W (ERP)	0.005 %
5460 MHz	FX	1M00F9W	501 W (ERP)	0.005 %
5460 MHz	MO	1M00F9W	501 W (ERP)	0.005 %
5480 MHz	MO	20M0F9W	501 W (ERP)	0.005 %

Frequency Information

Palmdale (LOS ANGELES), CA - NL 34-33-49; WL 117-40-46; MOBILE: , within 325 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5500 MHz	MO	20M0F9W	501 W (ERP)	0.005 %
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 %
5650 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5650 MHz	MO	1M00F9W	126 kW (ERP)	0.005 %
5660 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %

Frequency Information

Palmdale (LOS ANGELES), CA - NL 34-33-49; WL 117-40-46; MOBILE: , within 325 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5660 MHz	MO	1M00F9W	126 kW (ERP)	0.005 %
5675 MHz	FX	1M00F9W	501 W (ERP)	0.005 %
5675 MHz	MO	1M00F9W	501 W (ERP)	0.005 %
5700 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5700 MHz	MO	1M00F9W	126 kW (ERP)	0.005 %
5710 MHz	FX	1M00F9W	20 kW (ERP)	0.005 %
5710 MHz	MO	1M00F9W	20 kW (ERP)	0.005 %
5725 MHz	MO	1M00F9W	501 W (ERP)	0.005 %
5725 MHz	FX	1M00F9W	501 W (ERP)	0.005 %
5750 MHz	MO	1M00F9W	126 kW (ERP)	0.005 %

Frequency Information

Palmdale (LOS ANGELES), CA - NL 34-33-49; WL 117-40-46; MOBILE: , within 325 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5750 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5762 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5766 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5770 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5775 MHz	MO	1M00F9W	501 W (ERP)	0.005 %
5775 MHz	FX	1M00F9W	501 W (ERP)	0.005 %
5780 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5784 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5788 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5792 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %

Frequency Information

Palmdale (LOS ANGELES), CA - NL 34-33-49; WL 117-40-46; MOBILE: , within 325 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5796 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5800 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5800 MHz	MO	1M00F9W	126 kW (ERP)	0.005 %
5805 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5810 MHz	FX	1M00F9W	20 kW (ERP)	0.005 %
5810 MHz	MO	1M00F9W	20 kW (ERP)	0.005 %
5815 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5820 MHz	FX	1M00F9W	501 W (ERP)	0.005 %
5820 MHz	MO	1M00F9W	501 W (ERP)	0.005 %
5825 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %

Frequency Information

Palmdale (LOS ANGELES), CA - NL 34-33-49; WL 117-40-46; MOBILE: , within 325 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5830 MHz	FX	1M00F9W	501 W (ERP)	0.005 %
5830 MHz	MO	1M00F9W	501 W (ERP)	0.005 %
5834 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5838 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5842 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5846 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %
5850 MHz	MO	20M0F9W	501 W (ERP)	0.005 %
5850 MHz	FX	20M0F9W	501 W (ERP)	0.005 %
5850 MHz	MO	1M00F9W	126 kW (ERP)	0.005 %
5850 MHz	FX	1M00F9W	126 kW (ERP)	0.005 %

Frequency Information

Palmdale (LOS ANGELES), CA - NL 34-33-49; WL 117-40-46; MOBILE: , within 325 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14569 MHz	MO	17M0F9W	384 W (ERP)	0.001 %
14730 MHz	MO	17M0F9W	384 W (ERP)	0.001 %
15340 MHz	FX	560KF1D	38 kW (ERP)	0.001 %
15345 MHz	FX	560KF1D	38 kW (ERP)	0.001 %

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) Operations on 14569 MHz and 15340 MHz are limited to a radius of 92 km (50 nm) from NL 34-37-00, WL 117-36-00 and operations on 14730 MHz and 15345 MHz are limited to a radius of 184 km (100 nm) from NL 34-37-00, WL 117-36-00.
- (4) Licensee will use the minimum power necessary to do testing and will build equipment to use much less than 38 kW ERP on 15340 MHz and 15345 MHz.
- (5) Subject to local coordination with Frequency Manager, AFFTC, Edwards AFB, California.
- (6) During transmission, aircraft shall not exceed the altitude 25,000 feet above ground level within 80km of NL 34-37-00, WL 117-36-00.
- (7) Stop buzzer POC duty officer 760-388-8250 or Steve Muir 661-233-6030 - scheduling via IFDS required prior to each use.
- (8) Subject to coordination with the Western Area Frequency Coordinator located at the Naval Air Warfare Center, Weapons Division, China Lake, CA, prior to use within a 322 kilometer radius of Pt. Mugu or in California south of Latitude 37 30' North.
- (9) Operation on this 5335 MHz at Yuma, AZ is subject to immediate cessation, if it causes harmful interference to Marine Corps assignments.
- (10) Operation on this 5400 MHz at Yuma, AZ is subject to immediate cessation, if it causes harmful interference to Navy assignments.