

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

EXPERIMENTAL

(Nature of Service)

WG2XNJ

(Call Sign)

XT FX MO

(Class of Station)

0157-EX-CM-2019

(File Number)

NAME General Atomics Aeronautical Systems

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(j) of the Commission's Rules

Station Locations

- (1) MOBILE: Palmdale, CA, within 40 km, centered around NL 34-34-00; WL 117-41-00
- (2) MOBILE: Borrego Springs, CA, within 60 km, centered around NL 33-11-13; WL 116-04-19
- (3) MOBILE: Ocean near Oceanside, CA, within 10 km, centered around NL 33-06-00; WL 117-31-00
- (4) MOBILE: Walker Field, within 20 km, centered around NL 39-07-40; WL 108-32-12
- (5) MOBILE: Corpus Christi, Texas, within 80 km, centered around NL 27-40-13; WL 97-17-23
- (6) MOBILE: San Diego County, within 40 km, centered around NL 32-54-14; WL 116-58-34
- (7) MOBILE: Huachuca City, within 80 km, centered around NL 31-39-36; WL 110-19-42
- (8) MOBILE: Pacific Ocean West of San Diego, within 90 km, centered around NL 32-36-00; WL 118-12-00
- (9) MOBILE: Grand Forks, ND, within 325 km, centered around NL 47-56-19; WL 97-24-30
- (10) MOBILE: San Angelo, TX, within 180 km, centered around NL 31-20-09; WL 100-25-22
- (11) MOBILE: Pacific Ocean W-532S, within 100 km, centered around NL 34-07-00; WL 121-39-00
- (12) COASTAL WATERS, PC; MOBILE: Pacific ocean W 289S, within 110 km, centered around NL 33-23-00; WL 120-08-00
- (13) MOBILE: Port Orford, Oregon, within 150 km, centered around NL 42-44-43; WL 124-29-51
- (14) MOBILE: Medford, OR, within 150 km, centered around NL 42-19-34; WL 122-52-31
- (15) MOBILE: Lincoln City, Oregon, within 150 km, centered around NL 44-57-29; WL 124-01-05
- (16) MOBILE: Norman, Oklahoma, within 150 km, centered around NL 35-13-10; WL 97-26-20

This authorization effective September 13, 2019 and
will expire 3:00 A.M. EST May 01, 2023

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Palmdale, CA, within 40 km, centered around NL 34-34-00; WL 117-41-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.75-8.85 GHz	MO	XXX	404 kW (ERP)	0.0005 %

MOBILE: Borrego Springs, CA, within 60 km, centered around NL 33-11-13; WL 116-04-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.75-8.85 GHz	MO	XXX	404 kW (ERP)	0.0005 %

MOBILE: Ocean near Oceanside, CA, within 10 km, centered around NL 33-06-00; WL 117-31-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.75-8.85 GHz	MO	XXX	404 kW (ERP)	0.0005 %

MOBILE: Walker Field, within 20 km, centered around NL 39-07-40; WL 108-32-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.75-8.85 GHz	MO	XXX	404 kW (ERP)	0.0005 %

Frequency Information

MOBILE: Corpus Christi, Texas, within 80 km, centered around NL 27-40-13; WL 97-17-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.75-8.85 GHz	MO	XXX	404 kW (ERP)	0.0005 %

MOBILE: San Diego County, within 40 km, centered around NL 32-54-14; WL 116-58-34

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.75-8.85 GHz	MO	XXX	404 kW (ERP)	0.0005 %

MOBILE: Huachuca City, within 80 km, centered around NL 31-39-36; WL 110-19-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.75-8.85 GHz	MO	XXX	604 kW (ERP)	0.0005 %

MOBILE: Pacific Ocean West of San Diego, within 90 km, centered around NL 32-36-00; WL 118-12-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.75-8.85 GHz	MO	XXX	404 kW (ERP)	0.0005 %

Frequency Information

MOBILE: Grand Forks, ND, within 325 km, centered around NL 47-56-19; WL 97-24-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.75-8.85 GHz	MO	XXX	404 kW (ERP)	0.0005 %

MOBILE: San Angelo, TX, within 180 km, centered around NL 31-20-09; WL 100-25-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.75-8.85 GHz	MO	XXX	404 kW (ERP)	0.0005 %

MOBILE: Pacific Ocean W-532S, within 100 km, centered around NL 34-07-00; WL 121-39-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.75-8.85 GHz	MO	XXX	404 kW (ERP)	0.0005 %

COASTAL WATERS, PC; MOBILE: Pacific ocean W 289S, within 110 km, centered around NL 33-23-00; WL 120-08-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.75-8.85 GHz	MO	XXX	404 kW (ERP)	0.0005 %

Frequency Information

MOBILE: Port Orford, Oregon, within 150 km, centered around NL 42-44-43; WL 124-29-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.75-8.85 GHz	MO	XXX	404 kW (ERP)	0.0005 %

MOBILE: Medford, OR, within 150 km, centered around NL 42-19-34; WL 122-52-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.75-8.85 GHz	MO	XXX	404 kW (ERP)	0.0005 %

MOBILE: Lincoln City, Oregon, within 150 km, centered around NL 44-57-29; WL 124-01-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.75-8.85 GHz	MO	XXX	404 kW (ERP)	0.0005 %

MOBILE: Norman, Oklahoma, within 150 km, centered around NL 35-13-10; WL 97-26-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.75-8.85 GHz	MO	XXX	404 kW (ERP)	0.0005 %

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.

Special Conditions:

- (3) General Atomics Aeronautical Systems must coordinate with the Western Area Frequency Coordinator (WAFC), Mr. J. Richardson, (760) 939-6948/6832 prior to the start of the data collection.
- (4) The occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (5) In view of the fact that the band 13.25-13.4 GHz is allocated to doppler navigation aids, Federal and non-Federal airborne doppler radars in the aeronautical radionavigation service are permitted in the band 8750-8850 MHz only on the condition that they must accept any interference that may be experienced from stations in the radiolocation service in the band 8500-10000 MHz.