

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

EXPERIMENTAL

(Nature of Service)

WK2XOK

(Call Sign)

XC MO

(Class of Station)

0187-EX-CM-2020

(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) MOBILE: Flight level 20,000 ft, Grey Butte, CA, within 240 km, centered around NL 33-30-00; WL 116-30-00
- (2) MOBILE: Flight level 20,000 ft, Yampai, AZ, within 190 km, centered around NL 35-30-00; WL 113-00-00

Frequency Information

MOBILE: Flight level 20,000 ft, Grey Butte, CA, within 240 km, centered around NL 33-30-00; WL 116-30-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8.75-8.85 GHz	MO	31M8Q1N	404 kW (ERP)	0.005 %

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

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This authorization effective February 12, 2021 and
will expire 3:00 A.M. EST February 01, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (1) The occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (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) During transmission, aircraft shall not exceed the altitude of 20,000 feet MSL.
- (4) Stop Buzzer: Russ Herrell at 858-924-7974, russell.herrell@ga-asi.com
- (5) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by NASA, Contract Number 80AFRC19M0005. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (6) 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.