

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

EXPERIMENTAL

(Nature of Service)

WJ2XKC

(Call Sign)

XC FX MO

(Class of Station)

0317-EX-CR-2020

(File Number)

NAME Kratos Unmanned Aerial 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) McClellan, CA - NL 38-39-21; WL 121-23-31; MOBILE: Outside the building on a UAV at 8 feet, within 1 km, centered around NL 38-39-21; WL 121-23-31
- (2) McClellan (SACRAMENTO), CA - NL 38-39-21; WL 121-23-31
- (3) MOBILE: McClellan, CA, within 1 km, centered around NL 38-39-21; WL 121-23-31
- (4) MOBILE: MCCLELLAN PARK, CA. Mounted on a pole in warehouse, within 1 km, centered around NL 38-39-21; WL 121-23-31
- (5) MOBILE: MCCLELLAN PARK, CA. Mounted on air vehicle, within 1 km, centered around NL 38-39-21; WL 121-23-31
- (6) MOBILE: MCCLELLAN PARK, CA. Mounted on pole in warehouse, within 1 km, centered around NL 38-39-21; WL 121-23-31

Frequency Information

McClellan, CA - NL 38-39-21; WL 121-23-31; MOBILE: Outside the building on a UAV at 8 feet, within 1 km, centered around

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
433.75-435.25 MHz	MO	20K0M1D	1 W (ERP)	0.002 %
436.75-437.25 MHz	MO	20K0M1D	1 W (ERP)	0.002 %

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

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

McClellan, CA - NL 38-39-21; WL 121-23-31; MOBILE: Outside the building on a UAV at 8 feet, within 1 km, centered around

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
437.25-437.75 MHz	MO	20K0M1D	1 W (ERP)	0.002 %
437.75-438.25 MHz	MO	20K0M1D	1 W (ERP)	0.002 %
438.75-439.25 MHz	MO	20K0M1D	1 W (ERP)	0.002 %
439.25-439.75 MHz	MO	20K0M1D	1 W (ERP)	0.002 %
441.75-442.25 MHz	MO	20K0M1D	1 W (ERP)	0.002 %
441.75-442.25 MHz	FX	20K0M1D	1 W (ERP)	0.002 %
442.25-443 MHz	MO	20K0M1D	1 W (ERP)	0.002 %
442.75-443.25 MHz	MO	20K0M1D	1 W (ERP)	0.002 %
444.25-444.75 MHz	MO	20K0M1D	1 W (ERP)	0.002 %
444.75-445.25 MHz	MO	20K0M1D	1 W (ERP)	0.002 %

Frequency Information

McClellan, CA - NL 38-39-21; WL 121-23-31; MOBILE: Outside the building on a UAV at 8 feet, within 1 km, centered around

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
446.75-447.25 MHz	MO	20K0M1D	1 W (ERP)	0.002 %
448.25-448.75 MHz	MO	20K0M1D	1 W (ERP)	0.002 %
448.75-449.25 MHz	MO	20K0M1D	1 W (ERP)	0.002 %
449.25-449.75 MHz	MO	20K0M1D	1 W (ERP)	0.002 %
449.75-450.25 MHz	MO	20K0M1D	1 W (ERP)	0.002 %

McClellan (SACRAMENTO), CA - NL 38-39-21; WL 121-23-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
420.25-421.75 MHz	FX	75K0F2D	1 W (ERP)	0.002 %
424.25-425.75 MHz	FX	75K0F2D	1 W (ERP)	0.002 %
427.25-428.75 MHz	FX	75K0F2D	1 W (ERP)	0.002 %

Frequency Information

MOBILE: McClellan, CA, within 1 km, centered around NL 38-39-21; WL 121-23-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2292.5-2307.5 MHz	MO	15M0F1D	10 W (ERP)	0.002 %
2294.5-2309.5 MHz	MO	15M0F1D	10 W (ERP)	0.002 %

MOBILE: MCCLELLAN PARK, CA. Mounted on a pole in warehouse, within 1 km, centered around NL 38-39-21; WL 121-23-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1358.16 MHz	MO	14M6G1D	44.6 W (ERP)	0.000225 %
1384.83 MHz	MO	14M6G1D	44.6 W (ERP)	0.000225 %
1763.16 MHz	MO	14M6G1D	44.6 W (ERP)	0.000225 %
1776.5 MHz	MO	14M6G1D	25 W (ERP)	0.000225 %
1789.83 MHz	MO	14M6G1D	44.6 W (ERP)	0.000225 %
1815.16 MHz	MO	14M6G1D	44.6 W (ERP)	0.000225 %
1828.5 MHz	MO	14M6G1D	44.6 W (ERP)	0.000225 %

Frequency Information

MOBILE: MCCLELLAN PARK, CA. Mounted on a pole in warehouse, within 1 km, centered around NL 38-39-21; WL 121-23-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1841.83 MHz	MO	14M6G1D	44.6 W (ERP)	0.000225 %

MOBILE: MCCLELLAN PARK, CA. Mounted on air vehicle, within 1 km, centered around NL 38-39-21; WL 121-23-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4420 MHz	MO	266KG1D	2 W (ERP)	0.0004 %
4422 MHz	MO	266KG1D	2 W (ERP)	0.0004 %
4424 MHz	MO	266KG1D	2 W (ERP)	0.0004 %
4426 MHz	MO	266KG1D	2 W (ERP)	0.0004 %
4428 MHz	MO	266KG1D	2 W (ERP)	0.0004 %
4430 MHz	MO	266KG1D	2 W (ERP)	0.0004 %
4800 MHz	MO	266KG1D	2 W (ERP)	0.0004 %
4810 MHz	MO	266KG1D	2 W (ERP)	0.0004 %

Frequency Information

MOBILE: MCCLELLAN PARK, CA. Mounted on pole in warehouse, within 1 km, centered around NL 38-39-21; WL 121-23-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2265 MHz	MO	266KG1D	79.4 W (ERP)	0.0004 %
2267 MHz	MO	266KG1D	79.4 W (ERP)	0.0004 %
2269 MHz	MO	266KG1D	79.4 W (ERP)	0.0004 %
2271 MHz	MO	266KG1D	79.4 W (ERP)	0.0004 %
2283 MHz	MO	266KG1D	79.4 W (ERP)	0.0004 %
2285 MHz	MO	266KG1D	79.4 W (ERP)	0.0004 %
2287 MHz	MO	266KG1D	79.4 W (ERP)	0.0004 %
2289 MHz	MO	266KG1D	79.4 W (ERP)	0.0004 %

Special Conditions:

- (1) Operation in the 1695-1780 MHz, 1915-1920 MHz, 1995-2020 MHz or 2110-2200 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) One or more frequency assignments were coordinated prior to authorization with FAA Headquarters, 800 Independence Avenue, S.W., Washington, DC 20591; Telephone: 202-267-8699.

Special Conditions:

- (4) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (5) 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.
- (6) Operation is subject to prior coordination with the local Society of Broadcast Engineers frequency coordinator in the requested area prior to operation in 449.75-450.25 MHz band. Consult the list at https://www.sbe.org/sections/freq_local.php to find the appropriate coordinator.
- (7) Prior to commencing any operations in WCS frequencies (2305-2320 MHz/2345-2360 MHz), the licensee must obtain consent from the WCS licensee (AT&T).
- (8) Operation is not permitted in 2289.5-2304.5 MHz band.
- (9) Airborne operation in 2305-2310 MHz band is not permitted.
- (10) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government; contract number FA2487-19-F-5304. 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.
- (11) The stop buzzer point of contact is Jimmy Emerson at (916) 335-5181.