

**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)

0077-EX-CM-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 04, 2020 and  
will expire 3:00 A.M. EST June 10, 2020

**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 | FX            | 20K0M1D             | 1 W (ERP)        | 0.002 %                   |
| 441.75-442.25 MHz | MO            | 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) 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.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) 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.

**Special Conditions:**

- (4) 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.
- (5) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (6) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at [https://www.sbe.org/sections/freq\\_local.php](https://www.sbe.org/sections/freq_local.php) to find the appropriate coordinator.
- (7) 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.
- (8) 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).
- (9) Operation is not permitted in 2289.5-2304.5 MHz band.
- (10) Airborne operation in 2305-2310 MHz band is not permitted.
- (11) 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.
- (12) The stop buzzer point of contact is Jimmy Emerson at (916) 335-5181.