

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

EXPERIMENTAL

(Nature of Service)

XR      FX MO

(Class of Station)

WI2XLS

(Call Sign)

0125-EX-CM-2018

(File Number)

NAME Blue Canyon Technologies

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 i) of the Commission's Rules

Station Locations

- (1) MOBILE: Nongeostationary, SP
- (2) Boulder, CO - NL 40-01-24; WL 105-13-35
- (3) Boulder (BOULDER), CO - NL 40-02-00; WL 105-13-44

Frequency Information

MOBILE: Nongeostationary, SP

| Frequency           | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------------|---------------|---------------------|------------------|---------------------------|
| 449.975-450.025 MHz | MO            | 40K0G1D             | 2 W (ERP)        | 0.001 %                   |

Boulder, CO - NL 40-01-24; WL 105-13-35

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 450 MHz   | FX            | 50K0G1D             | 2200 W (ERP)     | 0.001 %                   |

This authorization effective October 03, 2018 and  
will expire 3:00 A.M. EST August 01, 2020

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

Boulder (BOULDER), CO - NL 40-02-00; WL 105-13-44

| Frequency | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|-----------|---------------|---------------------|------------------|---------------------------|
| 450 MHz   | FX            | 50K0G1D             | 2200 W (ERP)     | 0.001 %                   |

## Special Conditions:

- (1) In lieu of frequency tolerance, 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) Following launch of the satellite, the licensee must notify the FCC through electronic submission to the license file, of the status of the satellite (transmissions commenced, etc.), not later than 7 days after commencement or expected commencement of transmissions, and of termination of transmissions, not later than three months after such termination.
- (4) Upon receipt of a conjunction warning from the JSpOC or other source, the licensee must review the warning and take all possible steps to assess and, if necessary, to mitigate collision risk, including, but not limited to: contacting the operator of any active spacecraft involved in such warning; sharing ephemeris data and other appropriate operational information with any such operator; modifying spacecraft attitude and/or operations.
- (5) This authorization is only for inter-satellite communication with GlobalStar satellite networks.
- (6) POINT-OF-COMMUNICATION: RAVAN CUBESAT.
- (7) The designated point-of-contact to terminate the system if interference occurs is John Carvo 720-458-0703.
- (8) NASA requests to change the frequency band 449.975-450.025 MHz with the emission designator 40K00G1D to the single frequency 450 MHz with the emission designator 50K00G1D at the ground station.