

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

EXPERIMENTAL

(Nature of Service)

XD MO

(Class of Station)

WL2XAD

(Call Sign)

0228-EX-CN-2020

(File Number)

NAME Capella Space Corp.

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: NONGEOSTATIONARY
- (2) MOBILE: NONGEOSTATIONARY
- (3) MOBILE: NONGEOSTATIONARY
- (4) MOBILE: NONGEOSTATIONARY

Frequency Information

MOBILE: NONGEOSTATIONARY

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1626.5-1660.5 MHz	MO	200KG1D	4.3 W (ERP)	
1668-1675 MHz	MO	200KG1D	4.3 W (ERP)	

This authorization effective June 26, 2020 and
will expire 3:00 A.M. EST July 01, 2023

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: NONGEOSTATIONARY

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8212.5 MHz	MO	250MG1D	242 W (ERP)	

MOBILE: NONGEOSTATIONARY

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
8027 MHz	MO	1M40F1D	1.7 W (ERP)	

MOBILE: NONGEOSTATIONARY

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9600 MHz	MO	600MQ3N	24.26 MW (ERP)	

Special Conditions:

- (1) The licensee shall provide the Commission with all information required for the Advance Publication, Coordination and Notification of frequency assignments pursuant to the International Radio Regulations. This includes the preparation of draft materials, to be provided to the Commission prior to submission to the International Telecommunication Union. The authorized operations require notification of frequency assignments pursuant to Article 11 of the ITU Radio Regulations. Licensee shall provide the FCC, not later than 30 days after a frequency assignment is brought into use, the documents required for notification (including SpaceCap Notification MDB file) of such frequency assignments. The licensee shall also prepare materials for informing the ITU that a frequency assignments has been brought into use, or that its use has been suspended or permanently discontinued.
- (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) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

Special Conditions:

- (4) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (5) 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.
- (6) 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.
- (7) Prior to commencing any operations in the frequencies below, the applicant must obtain consent from the following within 50 miles of the contours of the testing area:
 - > 1670-1675 MHz Band licensee (Crown Castle International), and the lessee (One Dot Six Corp)
- (8) Point of Communication: Capella-2 (Sequoia)
- (9) All operations are secondary to Federal Earth Exploration Satellite (active), Space Research (active), and Radiolocation operations, and shall be subject to immediate cessation in the event that harmful interference is caused to authorized Federal users.
- (10) All operations on a strict non-interference basis to authorized federal users.
- (11) Operations employing a downlink frequency of 8212.5 MHz shall be limited to a maximum emission bandwidth of 250 MHz.
- (12) All operations shall be in accordance with the Memorandum of Understanding (MOU) between Capella and NASA/NOAA/USAF.
- (13) Operations under the authority of this assignment are subject to immediate adjustment, including cessation, if they result in harmful interference to the NASA operations.