

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

EXPERIMENTAL

(Nature of Service)

WM2XAK

(Call Sign)

XT FX MO

(Class of Station)

0522-EX-CN-2021

(File Number)

NAME University of California at Berkeley

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: CURIE-A LEO Astra deploy
- (2) MOBILE: CURIE-B LEO Astra deploy
- (3) MOBILE: CURIE-A LEO Astra deploy
- (4) MOBILE: CURIE-B LEO Astra deploy
- (5) MOBILE: CURIE-A SDR LEO Astra deploy
- (6) MOBILE: CURIE-B SDR LEO Astra deploy
- (7) Berkeley (ALAMEDA), CA - NL 37-52-50; WL 122-14-37
- (8) Greenville (NEW CASTLE), DE - NL 39-47-04; WL 75-37-58
- (9) Berkeley (ALAMEDA), CA - NL 37-52-50; WL 122-14-37
- (10) Greenville (NEW CASTLE), DE - NL 39-47-04; WL 75-37-58

Frequency Information

MOBILE: CURIE-A LEO Astra deploy

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
916 MHz	MO	200KF1D	5.6 W (ERP)	0.002 %

This authorization effective September 27, 2021 and
will expire 3:00 A.M. EST October 01, 2023

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: CURIE-B LEO Astra deploy

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
916 MHz	MO	200KF1D	5.6 W (ERP)	0.002 %

MOBILE: CURIE-A LEO Astra deploy

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2395 MHz	MO	1M62F1D	2.71 W (ERP)	0.002 %

MOBILE: CURIE-B LEO Astra deploy

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2397 MHz	MO	1M62F1D	2.71 W (ERP)	0.002 %

MOBILE: CURIE-A SDR LEO Astra deploy

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2397 MHz	MO	1M00F1D	2.71 W (ERP)	0.002 %

Frequency Information

MOBILE: CURIE-B SDR LEO Astra deploy

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2397 MHz	MO	1M00F1D	2.71 W (ERP)	0.002 %

Berkeley (ALAMEDA), CA - NL 37-52-50; WL 122-14-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
916 MHz	FX	200KF1D	779 W (ERP)	0.002 %

Greenville (NEW CASTLE), DE - NL 39-47-04; WL 75-37-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
916 MHz	FX	200KF1D	779 W (ERP)	0.002 %

Berkeley (ALAMEDA), CA - NL 37-52-50; WL 122-14-37

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2397 MHz	FX	200KF1D	6375 W (ERP)	0.002 %

Frequency Information

Greenville (NEW CASTLE), DE - NL 39-47-04; WL 75-37-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2397 MHz	FX	200KF1D	6375 W (ERP)	0.002 %

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) 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.
- (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) Prior to commencing any operations in the frequencies below, the experimental licensee must obtain consent from the following within 316 miles of the contours of the testing area:
 - a. Location & Monitoring Service licensees (902-928 MHz)
- (5) Point of Communication: CURIE A and CURIE B
- (6) Stop Buzzer POC: David Sundkvist
Phone: 510-621-7075
email: sundkvist@ssl.berkeley.edu