

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

EXPERIMENTAL

(Nature of Service)

WK2XPK

(Call Sign)

XT FX MO

(Class of Station)

0076-EX-CN-2019

(File Number)

NAME University of South Florida

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) Tampa (HILLSBOROUGH), FL - NL 27-57-22; WL 82-26-16
- (2) MOBILE: See Mobile Antenna Appendix

Frequency Information

Tampa (HILLSBOROUGH), FL - NL 27-57-22; WL 82-26-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2417 MHz	FX		1607 W (ERP)	0.001 %
		140KD1D		
		70K4D1D		
		35K2D1D		
		140KA1D		
		70K4A1D		
		35K2A1D		
		17K6D1D		
		8K80D1D		
		140KG1D		
		280KG1D		
		70K4G1D		
		35K2G1D		
		17K6G1D		
		563KA1D		

This authorization effective February 04, 2020 and
will expire 3:00 A.M. EST February 01, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Tampa (HILLSBOROUGH), FL - NL 27-57-22; WL 82-26-16

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2417 MHz	FX	280KA1D	1607 W (ERP)	0.001 %

MOBILE: See Mobile Antenna Appendix

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2417 MHz	MO	140KD1D 70K4D1D 35K2D1D 17K6D1D 8K80D1D 140KG1D 280KG1D 70K4G1D 35K2G1D 17K6G1D 563KA1D 280KA1D 140KA1D 70K4A1D 35K2A1D	2 W (ERP)	0.001 %

2449.2815 MHz	MO	35K2A1D 70K4A1D 140KA1D 35K2D1D 70K4D1D 140KD1D 280KA1D 563KA1D 17K6G1D 35K2G1D	2 W (ERP)	0.001 %
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Frequency Information

MOBILE: See Mobile Antenna Appendix

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2449.2815 MHz	MO	70K4G1D 280KG1D 140KG1D 8K80D1D 17K6D1D	2 W (ERP)	0.001 %

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) 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.
- (4) 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.
- (5) ARCE-1 CubeSat Stop Buzzer Designation
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- (6) Point of Communication: CubeSat ARCE-1A, ARCE-1B, ARCE-1C