Dr. Deepak R. Mishra, 210 Field Street, Athens, GA 30602

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

EXPERIMENTAL	WK2XHB
(Nature of Service)	(Call Sign)
XT FX MO	0311-EX-CN-2019
(Class of Station)	(File Number)

NAME University of Georgia

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) Athens (OCONEE), GA - NL 33-56-55; WL 83-22-31
(2) MOBILE: 400 km altitude, LEO, 51.6 degree Inclination
(3) MOBILE: 400 km altitude, LEO, 51.6 degree Inclination

Frequency Information

Athens (OCONEE), GA - NL 33-56-55; WL 83-22-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
430-438 MHz	FX	4K80F1D	912 W (ERP)	

MOBILE: 400 km altitude, LEO, 51.6 degree Inclination

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
430-440 MHz	MO	4K80F1D	1.78 W (ERP)	

This authorization effective August 20, 2019 and will expire 3:00 A.M. EST September 01, 2022

FEDERAL COMMUNICATIONS COMMISSION

Frequency Information

MOBILE: 400 km altitude, LEO, 51.6 degree Inclination

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2.4-2.45 GHz	MO	2M70G1D	5.62 W (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) 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) For the uplink and downlink 437.350 MHz, with emission designator 4K80F1DB, EIRP 3 dBW maximum, under the condition that downlink signals will not be encrypted.

(6) For downlink 2401.500 MHz, with emission designator 2M70G1DB, Eirp 7.5 dBW maximum, under the condition that downlink signals will not be encrypted.

(7) POINT OF COMMUNICATION: SPOC CUBESAT