

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

EXPERIMENTAL

(Nature of Service)

XT FX MO

(Class of Station)

WL2XEU

(Call Sign)

0697-EX-CN-2020

(File Number)

NAME Virginia Tech

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(a) of the Commission's Rules

Station Locations

- (1) Blacksburg, VA - NL 37-12-09; WL 80-26-04; MOBILE: , within 35 km, centered around NL 37-12-09; WL 80-26-04
- (2) Blacksburg (MONTGOMERY), VA - NL 37-12-09; WL 80-26-04; MOBILE: Within 35 Km of 37 12' 9" N, 80 26' 4" W, within 35 km, centered around NL 37-12-09; WL 80-26-04

Frequency Information

Blacksburg, VA - NL 37-12-09; WL 80-26-04; MOBILE: , within 35 km, centered around NL 37-12-09; WL 80-26-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3700-4200 MHz	FX		1500 W (ERP)	2 %
		5M00G7D		
		10M0G7D		
		20M0G7D		
		40M0G7D		
		100MG7D		
		100KN0N		

This authorization effective August 26, 2020 and
will expire 3:00 A.M. EST September 01, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Blacksburg (MONTGOMERY), VA - NL 37-12-09; WL 80-26-04; MOBILE: Within 35 Km of 37 12' 9" N, 80 26' 4" W, within 35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3700-4200 MHz	FX	5M00G7D 10M0G7D 20M0G7D 40M0G7D 100MG7D 100KN0N	1500 W (ERP)	2 %

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) With respect to operations in 3700-4200 MHz band, the applicant must avoid causing interference to existing Fixed Service operators and FSS earth stations in the band. For applicant's reference, a list of registered incumbent FSS earth stations in the band can be found at the following link:
<https://docs.fcc.gov/public/attachments/DA-20-823A2.xls>
- (4) Virginia Tech shall coordinate with the affected Fixed Microwave Service licensees prior to operation in 3700-4200 MHz band in accordance with 47 C.F.R, Part 101.103(d).
- (5) Licensee shall be aware that FSS earth stations are licensed above 3700 MHz and if any interference occurs, the experimental licensee of this authorization will be subject to immediate shut down.
- (6) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.