

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

EXPERIMENTAL

(Nature of Service)

WM2XDZ

(Call Sign)

XT MO

(Class of Station)

0823-EX-CN-2021

(File Number)

NAME NCSU

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: NCSU Centennial Campus Raleigh NC, within 0.5 km, centered around NL 35-46-29; WL 78-39-24

Frequency Information

MOBILE: NCSU Centennial Campus Raleigh NC, within 0.5 km, centered around NL 35-46-29; WL 78-39-24

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27-29 GHz	MO	2G00A0N	16 W (ERP)	
38-40 GHz	MO	2G00A0N	32 W (ERP)	
119-121 GHz	MO	2G00A0N	8 W (ERP)	
143-145 GHz	MO	2G00A0N	8 W (ERP)	

This authorization effective October 29, 2021 and
will expire 3:00 A.M. EST November 01, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (1) 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.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) Experimental licensee must secure consents from the Upper Microwave Flexible Use Service licensees in the proposed area prior to accessing to the frequency range from 27 GHz to 29 GHz and from 38 GHz to 40 GHz.
- (4) Experimental licensee must coordinate with the Fixed Microwave Service licensees in the proposed venue in accordance with 47 C.F.R, Part 101.103(d) prior to operation in 27-29 GHz band.