

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

WI9XNT

(Call Sign)

XT MO

(Class of Station)

0466-EX-ST-2015

(File Number)

NAME Virginia Tech Electrical and Computer Engineering

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

The operation is a demonstration of an experimental repeater system for public safety communications that includes a mechanism for avoiding interference.

Station Locations

- (1) MOBILE: Virginia Tech campus, Blacksburg, VA, within 5 km, centered around NL 37-13-40; WL 80-25-28
- (2) MOBILE: Virginia Tech campus, Blacksburg, VA, within 5 km, centered around NL 37-13-40; WL 80-25-28

Frequency Information

MOBILE: Virginia Tech campus, Blacksburg, VA, within 5 km, centered around NL 37-13-40; WL 80-25-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
758-768 MHz	MO	10M0W7W	100 mW (ERP)	

This authorization effective May 20, 2015 and
will expire 3:00 A.M. EST May 31, 2015

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Virginia Tech campus, Blacksburg, VA, within 5 km, centered around NL 37-13-40; WL 80-25-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
788-798 MHz	MO	10M0W7W	200 mW (ERP)	

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) Scope of license limited to applicant facility.
- (4) Project limited to testing and may not involve live-duty operations by first responders or others.
- (5) Applicant must accept interference from any other user of Band 14.
- (6) Applicant must not cause interference to FirstNet operations or those approved to operate in Band 14 per license (i.e., VASP incumbency).
- (7) Verification by applicant and FirstNet of no current potential for interference with FirstNet operations or those approved to operate in Band 14 per license (i.e., VASP incumbency).
- (8) Point-of-contact (POC) established with "kill switch" authority; applicant agrees to cease operations at request of FirstNet immediately upon receipt of request to kill switch POC.
- (9) The designated point-of-contact to terminate the systems if interference occurs is Vuk Marojevic at (540) 231-2970 or (540) 231-2971.