

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

EXPERIMENTAL

(Nature of Service)

WO9XKL

(Call Sign)

XT MO

(Class of Station)

0776-EX-ST-2019

(File Number)

NAME VAWD Applied Science and Technology

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:

To operate at a frequency between 3 to 3.5 GHz to measure several types of buildings and walls.

Station Locations

- (1) MOBILE: Maryland Fire and Rescue Institute, College Park, MD, within 0.1 km, centered around NL 38-58-59; WL 76-55-44

Frequency Information

MOBILE: Maryland Fire and Rescue Institute, College Park, MD, within 0.1 km, centered around NL 38-58-59; WL 76-55-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3300-3800 MHz	MO	250MK0N	3.84 W (ERP)	300 %

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.

This authorization effective September 16, 2019 and
will expire 3:00 A.M. EST September 21, 2019

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COMMISSION**



Special Conditions:

- (3) Operations are on a non-interference basis (NIB) and shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing.
- (4) Prior to operating, VAWD Applied Science and Technology, must notify licensees of FSS earth stations operating above 3700 MHz within 5 kilometers' radius of the locations from which experimental operations will occur. Furthermore, VAWD Applied Science and Technology, must notify the National Spectrum Managers Association frequency coordinators by email. (see http://wireless.fcc.gov/services/index.htm?job=licensing_1&id=microwave). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, antenna patterns, eirp density) and day and times of each test. Consult the IBFS database to identify licensed earth station in the band 3700-4200 MHz band.
- (5) Any renewal will be subject to review. No automatic renewal for this authorization.
- (6) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (7) VAWD Applied Science and Technology shall maintain operation separation from the grandfathered earth stations as defined in Part 90, Sub-part Z, or coordinate an agreement with the grandfathered earth station licensees prior to operation in 3650-3700 MHz band.
- (8) VAWD Applied Science and Technology shall consult the ULS database to ensure that the operation will not cause harmful interference to any existing registered stations in the 3650-3700 MHz band, and notify the registered users in the proposed geographic areas prior to operation in this band.
- (9) VAWD Applied Science and Technology shall coordinate with the Fixed Microwave Service licensees prior to operation in 3700-3800 MHz band.
- (10) VAWD Applied Science and Technology must notch out the following:
3550 - 3650 MHz band within designated exclusion zone and no Environmental Sensing Capability equipment employed