

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

EXPERIMENTAL

(Nature of Service)

WL9XUM

(Call Sign)

XT MO

(Class of Station)

0517-EX-ST-2018

(File Number)

NAME Fortem Technologies, Inc.

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 test prototype ultra-small SWaP-C radar devices for commercial applications designed to detect and avoid airborne vehicles.

Station Locations

- (1) MOBILE: Mercer Island, WA, within 10 km, centered around NL 47-33-20; WL 122-12-43
- (2) MOBILE: King County, WA, within 20 km, centered around NL 47-29-00; WL 121-51-09
- (3) MOBILE: North Bend, WA, within 35 km, centered around NL 47-04-10; WL 120-29-53
- (4) MOBILE: Arlington, WA, within 50 km, centered around NL 48-09-46; WL 122-09-20

Frequency Information

MOBILE: Mercer Island, WA, within 10 km, centered around NL 47-33-20; WL 122-12-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15.4-15.7 GHz	MO	300MF0N	30 W (ERP)	0.000094 %

This authorization effective May 21, 2018 and
will expire 3:00 A.M. EST September 21, 2018

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: King County, WA, within 20 km, centered around NL 47-29-00; WL 121-51-09

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15.4-15.7 GHz	MO	300MF0N	30 W (ERP)	0.000094 %

MOBILE: North Bend, WA, within 35 km, centered around NL 47-04-10; WL 120-29-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15.4-15.7 GHz	MO	300MF0N	30 W (ERP)	0.000094 %

MOBILE: Arlington, WA, within 50 km, centered around NL 48-09-46; WL 122-09-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15.4-15.7 GHz	MO	300MF0N	30 W (ERP)	0.000094 %

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) The applicant shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (4) The authorized station must be in compliance with environmental requirement set forth in Section 1.1307 of the Commission's Rules.
- (5) The stop buzzer contact for this project is Ernie Morales, Phone: 801-671-2664
- (6) No automatic renewal for operations in the 15.4-15.7 GHz band. All renewal requests will need to be reevaluated to ensure new satellite networks are protected.
- (7) 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.