

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

EXPERIMENTAL

(Nature of Service)

WL9XKX

(Call Sign)

XT MO

(Class of Station)

0695-EX-ST-2019

(File Number)

NAME Apium 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:

Ten mobile robotic platforms and one base station will be equipped with experimental radios and perform water temperature and depth measurements for electric power utilities.

Station Locations

- (1) MOBILE: Waterways near TVA Gallatin Fossil Plant, within 2 km, centered around NL 36-18-44; WL 86-24-25
- (2) MOBILE: Waterways near TVA Gallatin Fossil Plant, within 2 km, centered around NL 36-18-44; WL 86-24-25
- (3) MOBILE: Waterways near Rich Hollow, within 2 km, centered around NL 36-17-54; WL 84-02-00
- (4) MOBILE: Waterways near Rich Hollow, within 2 km, centered around NL 36-17-54; WL 84-02-00

Frequency Information

MOBILE: Waterways near TVA Gallatin Fossil Plant, within 2 km, centered around NL 36-18-44; WL 86-24-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2402.5-2407.5 MHz	MO	2M00G1D	770 mW (ERP)	0.02 %

This authorization effective May 20, 2019 and
will expire 3:00 A.M. EST May 25, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

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2402.5-2407.5 MHz	MO	2M00G1D	200 mW (ERP)	0.02 %

MOBILE: Waterways near Rich Hollow, within 2 km, centered around NL 36-17-54; WL 84-02-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2402.5-2407.5 MHz	MO	2M00G1D	770 mW (ERP)	0.02 %

MOBILE: Waterways near Rich Hollow, within 2 km, centered around NL 36-17-54; WL 84-02-00

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2402.5-2407.5 MHz	MO	2M00G1D	200 mW (ERP)	0.02 %

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.