

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

EXPERIMENTAL

(Nature of Service)

WJ9XZC

(Call Sign)

XT MO

(Class of Station)

0800-EX-ST-2016

(File Number)

NAME Vortant Technologies LLC

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:

Developing a system for transmitting water quality data from under the surface of the water to local land-based receivers and disseminating the data via the internet.

Station Locations

- (1) MOBILE: Weaverville, North Carolina, within 100 km, centered around NL 35-44-00; WL 82-34-25
- (2) MOBILE: Wilmington, North Carolina, within 100 km, centered around NL 34-13-35; WL 77-56-42
- (3) MOBILE: Charleston, South Carolina, within 100 km, centered around NL 32-46-11; WL 79-55-50
- (4) MOBILE: Thomas Point, Brunswick, ME, within 100 km, centered around NL 43-53-47; WL 69-53-39

Frequency Information

MOBILE: Weaverville, North Carolina, within 100 km, centered around NL 35-44-00; WL 82-34-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
110-130 kHz	MO	1K00F1D	10 W (ERP)	0.01 %

This authorization effective June 15, 2016 and
will expire 3:00 A.M. EST December 16, 2016

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Weaverville, North Carolina, within 100 km, centered around NL 35-44-00; WL 82-34-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3.155-3.399 MHz	MO	1K00F1D	10 W (ERP)	0.01 %

MOBILE: Wilmington, North Carolina, within 100 km, centered around NL 34-13-35; WL 77-56-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
110-130 kHz	MO	1K00F1D	10 W (ERP)	0.01 %
3.155-3.399 MHz	MO	1K00F1D	10 W (ERP)	0.01 %

MOBILE: Charleston, South Carolina, within 100 km, centered around NL 32-46-11; WL 79-55-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
110-130 kHz	MO	1K00F1D	10 W (ERP)	0.01 %
3.155-3.399 MHz	MO	1K00F1D	10 W (ERP)	0.01 %

MOBILE: Thomas Point, Brunswick, ME, within 100 km, centered around NL 43-53-47; WL 69-53-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
110-130 kHz	MO	1K00F1D	10 W (ERP)	0.01 %

Frequency Information

MOBILE: Thomas Point, Brunswick, ME, within 100 km, centered around NL 43-53-47; WL 69-53-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3.155-3.399 MHz	MO	1K00F1D	10 W (ERP)	0.01 %

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) Vortant Technologies LLC must notch out the following fourteen (14) frequencies to protect from possible interference:
K3156, K3204.5, K3209, K3209.5, K3216.5, K3242, K3242.4, K3254.4, K3257.4, K3258, K3329.4, K3383.4, K3389, K3392.
- (4) To protect Navy operations, the following frequencies must be notched at the listed locations:

In North Carolina

3161 kHz	3181 kHz	3226 kHz	3237 kHz	3266.5 kHz
3267 kHz	3269 kHz	3274.5 kHz	3326.5 kHz	3357 kHz

In South Carolina

3354 kHz

In Maine

3373 kHz

- (5) The frequency 3242 KHz must be notched at the Thomas Point, Maine location. Coast Guard has designated this frequency for broadcast of weather products (facsimile) to the mariners at sea.

Special Conditions:

- (6) Prior to the start of operations, Vortant Technologies must contact Coast Guard to name a Stop Buzzer point of contact for the Weaverville and Wilmington, NC and Charleston, SC. Coast Guard POC is:

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