

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

EXPERIMENTAL

(Nature of Service)

WP9XQQ

(Call Sign)

XT MO

(Class of Station)

2042-EX-ST-2019

(File Number)

NAME University of Kansas CReSIS

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 purpose of operation is to conduct airborne radar snow depth measurements.

Station Locations

(1) MOBILE: Lake Clinton, within 1 km, centered around NL 38-55-12; WL 95-20-59

Frequency Information

MOBILE: Lake Clinton, within 1 km, centered around NL 38-55-12; WL 95-20-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6-10.68 GHz	MO	2G00G0N	1 W (ERP)	0.01 %
10.7-12.2 GHz	MO	1G50G0N	1 W (ERP)	0.01 %
12.7-15.35 GHz	MO	2G00G0N	1 W (ERP)	0.01 %

This authorization effective December 01, 2019 and
will expire 3:00 A.M. EST February 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Lake Clinton, within 1 km, centered around NL 38-55-12; WL 95-20-59

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15.4-18 GHz	MO	2G00G0N	1 W (ERP)	0.01 %

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.
- (3) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at https://www.sbe.org/sections/freq_local.php to find the appropriate coordinator.
- (4) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (5) University of Kansas CReSIS must notch out 2 - 6 GHz in order to protect NEXRAD radar operations in Topeka, KS, as well as Earth Exploration, Radio Astronomy, Space Research and Air Traffic operations.
- (6) University of Kansas CReSIS must notch out 10.68-10.7 GHz, 12.2-12.7 GHz and 15.35-15.4 GHz in order to protect Earth Exploration, Radio Astronomy and Space Research operations.