

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

EXPERIMENTAL

(Nature of Service)

WR9XRL

(Call Sign)

XT MO

(Class of Station)

0214-EX-ST-2021

(File Number)

NAME Univ 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 ultimate purpose of operation is to conduct airborne radar measurements of snow cover on sea ice.

Station Locations

- (1) MOBILE: Over the water at Hillsdale Lake, within 1 km, centered around NL 38-40-21;
WL 94-54-42

Frequency Information

MOBILE: Over the water at Hillsdale Lake, within 1 km, centered around NL 38-40-21; WL 94-54-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3-4.99 GHz	MO	1G99G0N	4.3 W (ERP)	
5-5.092 GHz	MO	92M0G0N	4.3 W (ERP)	
5.113-5.6 GHz	MO	487MG0N	4.3 W (ERP)	

This authorization effective March 03, 2021 and
will expire 3:00 A.M. EST September 03, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Over the water at Hillsdale Lake, within 1 km, centered around NL 38-40-21; WL 94-54-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6.61-8 GHz	MO	1G39G0N	4.3 W (ERP)	

Special Conditions:

- (1) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at <http://sbe.org/wp-content/uploads/freqcoor.pdf> to find the appropriate coordinator.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) 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.
- (4) One or more frequency assignments were coordinated prior to authorization with FAA Headquarters, 800 Independence Avenue, S.W., Washington, DC 20591; Telephone: 202-267-8699.
- (5) Operation is subject to coordination with the Fixed Microwave Service licensees in accordance with 47 C.F.R, Part 101.103(d) prior to operation in the proposed frequency bands.
- (6) With respect to operations in 3700-4200 MHz band, Univ of Kansas CReSIS should be made aware that they must avoid causing interference to existing FSS earth stations in the band. For applicant's reference, a list of registered incumbent FSS earth stations in the band can be found at the following link: <https://docs.fcc.gov/public/attachments/DA-20-823A2.xls>
- (7) Univ of Kansas CReSIS must coordinate its operations in the 3550-3700 MHz band with one or more authorized Spectrum Access System (SAS) administrators to obtain channel assignments and avoid causing harmful interference to authorized users of the band, including General Authorized Access (GAA) users.
- (8) Airborne operations in 3550-3700 MHz band is prohibited.
- (9) The stop buzzer POC is Jennifer Laverentz at (785) 864-7722.
- (10) NTIA's concurrence is based upon the expectation that the authorized emission bandwidth shall be so located only within the 3 - 8 GHz band and no emissions will extend beyond the upper or lower limits of the requested band in this application.
- (11) Operation is not permitted in the following bands:
 - a. 4990-5000 MHz band
 - b. 5092-5113 MHz band
 - c. 5600-5610 MHz band