

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

EXPERIMENTAL

(Nature of Service)

WQ9XYY

(Call Sign)

XT MO

(Class of Station)

0879-EX-ST-2020

(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:

These flights will be sea ice flights of the complete system in Alaska in October 2020.

Station Locations

- (1) MOBILE: sea ice survey over the sea, within 1000 km, centered around NL 70-21-52;
WL 148-18-39

Frequency Information

MOBILE: sea ice survey over the sea, within 1000 km, centered around NL 70-21-52; WL 148-18-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2-8 GHz	MO	6G00G3N	100 W (ERP)	2 %

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.

This authorization effective September 20, 2020 and
will expire 3:00 A.M. EST November 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (3) University of Kansas CReSIS must notch out 2690-2700 MHz and 4990-5000 MHz in order to protect the Radio Astronomy and Space Research services.
- (4) University of Kansas CReSIS must notch out 3700-4200 MHz within 50 km of shoreline to protect FAA operations.
- (5) The operational area shall be limited to within a 650 km radius of 75 36 05 North Longitude 145 31 26 West Longitude in order to protect federal earth stations at Fairbanks, Alaska and North Pole, Alaska.
- (6) Prior to commencing operations, University of Kansas CReSIS is required to provide the Air Force (Jimmy.nguyen@us.af.mil) with the stop buzzer POC info for operations.
- (7) Prior to commencing any operations, the applicant must obtain consent from WCS (2305-2320 MHz/2345-2360 MHz) licensee (AT&T)
- (8) Airborne operations in 3550-3700 MHz are prohibited due to an explicit airborne prohibition in the CBRS Service rules.
- (9) Prior to commencing any operations in Aeronautical and Fixed frequencies (2360-2395 MHz), the applicant must coordinate with the Aerospace and Flight Test Radio Coordinating Council (AFTRCC).
- (10) Airborne use in 2305-2310 MHz frequencies is prohibited due to an explicit airborne prohibition in the rules.
- (11) Operations are non-interference basis to Flight Test telemetry and Air Force Spectrum Dependent System.
- (12) Stop buzzer: Jennifer Laverentz at (785) 864-7722, jenlav@ku.edu
- (13) Prior to commencing any operations in the 2000-2010 MHz and 2180-2190 MHz frequency bands, the applicant must notify the earth station licensees the test dates and provide a stop buzzer in case of interference.
- (14) Prior to commencing any operations in the 2010- 2020 MHz and 2190-2200 MHz frequency bands, the applicant must notify the earth station licensees listed below of its test dates and provide a stop buzzer in case of interference.
- (15) For operations in the 2320-2345 band, applicant must obtain a written consent from earth station operators or remove this band.
- (16) Operations in the WCS bands (2305-2320 MHz and 2345-2360 MHz) must comply with the emission limits applicable to those bands. See 47 C.F.R. § 27.53(a).
- (17) Prior to commencing any operations in the 2483.5-2500 MHz frequency band, the applicant must notify the earth station licensees listed below of its test dates and provide a stop buzzer in case of interference.
- (18) Prior to commencing any operations in the 3700-4200 MHz frequency band, the applicant must notify the earth station licensees the test dates and provide a stop buzzer in case of interference.