

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

EXPERIMENTAL

(Nature of Service)

WP9XQQ

(Call Sign)

XT MO

(Class of Station)

1706-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:

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

Station Locations

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

Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2000-2310 MHz	MO	310MG0N	1 W (ERP)	0.01 %
2320-2345 MHz	MO	25M0G0N	1 W (ERP)	0.01 %
2360-2650 MHz	MO	290MG0N	1 W (ERP)	0.01 %

This authorization effective January 08, 2021 and
will expire 3:00 A.M. EST February 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2.9-4.99 GHz	MO	2G00G0N	1 W (ERP)	0.01 %
5.61-8 GHz	MO	2G00G0N	1 W (ERP)	0.01 %

Special Conditions:

- (1) Operation is subject to prior coordination with affected Educational Broadband Service/Broadband Radio Service (EBS/BRS) licensees.
- (2) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (3) Operation in the 1695-1780 MHz, 1915-1920 MHz, 1995-2020 MHz or 2110-2200 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.
- (4) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (5) 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.
- (6) 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.
- (7) Prior to commencing any operations in the 2000-2010 MHz and 2180-2190 MHz frequency bands, experimental licensee must notify licensee of GAMMA ACQUISITION L.L.C. (Call sign E060430, POC/Satellite: S2633. Name: Ms. Allison Minea, Phone Number: 202-293-1216, E-Mail: alison.minea@dish.com). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.
- (8) Prior to commencing any operations in the 2010-2020 MHz and 2190-2200 MHz frequency bands, experimental licensee must notify licensee of New DBSD Satellite Services G.P., Debtor-in-Possession. (Call sign E070272, POC/Satellite: S2651. Name: Mr. Stephen M. DeWees, Phone Number: 703-964-1417, E-Mail: stephen.dewees@ico.com). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.

Special Conditions:

- (9) Operations in the 2320-2345 MHz band must be in compliance with the agreement reached between licensee and Sirius XM Radio/Pandora
- (10) Prior to commencing any operations in the 2483.5 – 2500 MHz frequency band, experimental licensee must notify licensee of GUSA Licensee LLC. (Call sign E970381, S2115. Name: Mr. L. Barbee Ponder IV, Phone Number: 985-335-1503 E-Mail: Barbee.Ponder@Globalstar.com). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.
- (11) Prior to commencing any operations at the 3700-4200 MHz frequency band, experimental licensee must notify licensee of Intelsat License LLC (Ms. Susan H Crandall, Phone Number: 703-559-7848, E-Mail: susan.crandall@intelsat.com) and SES Americom, Inc. (Ms. Petra A Vorwig, Phone Number: 202-478-7143, E-Mail: petra.vorwig@ses.com). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, EIRP, EIRP density) and day and times of each test.
- (12) With respect to operations in 3700-4200 MHz band, Licensee 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>
- (13) The stop buzzer POC is Jennifer Laverentz at (785) 864-7722.
- (14) Airborne operation is not permitted in 2305-2310 MHz and 3550-3700 MHz bands.
- (15) To avoid interference in 3700-4200 MHz band, the licensee is required to prior coordinate with FSS Earth Stations licensees within 15 miles from the center coordinates.
- (16) Operation is prohibited in the following bands:
 - 2310-2320 MHz,
 - 2345-2360 MHz,
 - 2650-2900 MHz,
 - 2745-2755 MHz,
 - 2815-2825 MHz,
 - 4990-5000 MHz,
 - 5092-5113 MHz,
 - 5600-5610 MHz,