

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

EXPERIMENTAL

(Nature of Service)

WS9XQD

(Call Sign)

XT MO

(Class of Station)

0992-EX-ST-2021

(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 2021. The flight operation will be 1500-4500 ft AGL.

Station Locations

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

Frequency Information

MOBILE: Deadhorse, Ak 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 (+/-)
2-2.2 GHz	MO	200MG3N	100 W (ERP)	
2.3-2.69 GHz	MO	390MG3N	100 W (ERP)	
2.7-3.7 GHz	MO	1G00G3N	100 W (ERP)	

This authorization effective October 01, 2021 and
will expire 3:00 A.M. EST April 01, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Deadhorse, Ak 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 (+/-)
4.2-4.99 GHz	MO	790MG3N	100 W (ERP)	
5-5.85 GHz	MO	850MG3N	100 W (ERP)	
5.925-8 GHz	MO	2G07G3N	100 W (ERP)	

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) 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.
- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) 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.
- (5) Airborne operations in 3550-3700 MHz are prohibited due to an explicit airborne prohibition in the CBRS Service rules.
- (6) Prior to commencing any operations in Aeronautical and Fixed frequencies (2360-2395 MHz), Licensee must coordinate with the Aerospace and Flight Test Radio Coordinating Council (AFTRCC).
- (7) Airborne use in 2305-2310 MHz frequencies is prohibited due to an explicit airborne prohibition in the rules.
- (8) Operations are non-interference basis to Flight Test telemetry and Air Force Spectrum Dependent System.
- (9) Stop buzzer: Jennifer Laverentz at (785) 864-7722, jenlav@ku.edu
- (10) Secure consents from the Advanced Wireless Service licensees in the proposed area prior to accessing to the frequency range from 2000 MHz to 2200 MHz.
- (11) Obtain consents from the Educational Broadband Service and Broadband Radio Service licensees in the corresponding proposed area prior to accessing to the frequency range from 2496 MHz to 2690 MHz.

Special Conditions:

- (12) Coordinate with Fixed Microwave Service licensees in the corresponding proposed venue in accordance with 47 C.F.R, Part 101.103(d) prior to commencing experimental operations.
- (13) Licensee must coordinate its operations in the 3550-3600 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.
- (14) With respect to operations in the 3700-3800 MHz band, Licensee must aware that avoid causing interference to the existing Fixed Service operators and 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>
- (15) Prior to commencing any operations in 2305-2320 MHz/2345-2360 MHz, Licensee must obtain consent from the WCS licensee (AT&T).
- (16) The 2200-2300 MHz, 2690-2700 MHz, 4990-5000 MHz and 5850-5925 MHz bands shall be excluded from operations.
- (17) Further requests for extension of the authority granted herein must be filed on Form 442, "Application for New or Modified Radio Station Authorization under Part 5 of FCC Rules - Experimental Radio Service." Future STA requests to extend this authorization will not be considered.
- (18) 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.
- (19) Prior to commencing any operations in the 2010-2020 MHz and 2190-2200 MHz frequency bands, experimental licensee must notify licensee of DBSD Services Limited. (Call sign E070272, POC/Satellite: S2651. 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.
- (20) 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.
- (21) 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).
- (22) Operations in the 2320-2345 MHz band must be compliance with the agreement reached between licensee and Sirius XM Radio/Pandora