

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

EXPERIMENTAL

(Nature of Service)

WQ9XOR

(Call Sign)

XT MO

(Class of Station)

0877-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 a test flight to ascertain if the complete system is working prior to a full deployment in Alaska in October 2020.

Station Locations

- (1) MOBILE: Offshore of Wallops, VA, within 20 km, centered around NL 37-45-35; WL 74-53-19

Frequency Information

MOBILE: Offshore of Wallops, VA, within 20 km, centered around NL 37-45-35; WL 74-53-19

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 August 31, 2020 and
will expire 3:00 A.M. EST September 21, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (3) University of Kansas CReSIS must notch out 2200-2300 MHz, 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 2700-2710 MHz and 2825-2835 MHz in order to protect ongoing Air Traffic operations.
- (5) Notification of operations shall be provided to the NASA Langley Research Center POCs Lee Joyce (757.864.6737; lee.joyce@nasa.gov) and Stephen Horan (757-864-6986; stephen.j.horan@nasa.gov), at least 3 days prior to operations.
- (6) University of Kansas CReSIS must obtain exclusive use of the testing airspace with the airspace authorities and no later than 3-5 days prior to the planned flight test University of Kansas CReSIS must coordinate with Scott Hoschar (scott.hoschar@navy.mil), Rob Goddard (robert.n.goddard@navy.mil), Felipe Arroyo (felipe.arroyo-1@nasa.gov), and Tito Medina (titto.medina@navy.mil).
- (7) Stop Buzzer: Jennifer Laverentz at (785) 864-7722, jenlav@ku.edu
- (8) Prior to commencing any operations, the applicant must obtain consent from WCS (2305-2320 MHz/2345-2360 MHz) licensee (AT&T)
- (9) Operations in 3550-3700 MHz is prohibited due to an explicit airborne prohibition in the CBRS Service rules
- (10) 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).
- (11) Airborne use in 2305-2310 MHz frequencies is prohibited due to an explicit airborne prohibition in the rules.
- (12) 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.
- (13) Prior to commencing any operations in the 2010- 2020 MHz and 2190-2200 MHz frequency bands, the applicant must notify the earth station licensees the test dates and provide a stop buzzer in case of interference.
- (14) For operations in the 2320-2345 band, applicant must obtain a written consent from earth station operators or remove this band.
- (15) 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).
- (16) Prior to commencing any operations in the 2483.5 - 2500 MHz frequency band, the applicant must notify the earth station licensees the test dates and provide a stop buzzer in case of interference.
- (17) 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.
- (18) Operations are non-interference basis to Flight Test telemetry and Air Force Spectrum Dependent System.