

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

EXPERIMENTAL

(Nature of Service)

WK9XVB

(Call Sign)

XR MO

(Class of Station)

0027-EX-ST-2017

(File Number)

NAME Center for Remote Sensing of Ice Sheets, University of Kansas

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 this application is to request authorization from the FCC for CReSIS (Center for Remote

Station Locations

(1) MOBILE: Fairbanks, AK. Exact locations are submitted as an exhibit

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
550-950 MHz	MO	400MQ3N	10 W (ERP)	
2-18 GHz	MO	16G0Q3N	10 W (ERP)	

This authorization effective March 06, 2017 and
will expire 3:00 A.M. EST April 14, 2017

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (1) The applicant must notch out the 2700-2900 MHz band to protect Aeronautical Radio Navigation operations.
 - a. Future operations outside of these areas will require further notching of other frequency bands used by FAA.
 - b. This radio system shall not be used for functional development beyond the scope of this Ice Sheet testing.
- (2) The applicant must not utilize the following band to protect NASA operations:

2200 - 2310 MHz	Space Research
2690 - 2700 MHz	Passive Sensors
4990 - 5000 MHz	Passive Sensors
8015 - 8510 MHz	Earth Exploration Satellites
10.68 - 10.7 GHz	Space Research
15.35 - 15.4 GHz	Space Research
- (3) The applicant must notch 2-8 GHz due to HIA with airport surveillance and various DoD assignments.
- (4) Applicant must provide stop buzzer information to JFMO Alaska prior to flight operations: Robert Craig. (907)552-7183, robert.craig.12@us.af.mil.
- (5) NTIA has concerns of interference to Meteorological Satellites (POES/GOES) downlink operations at the Fairbanks Satellite Command and Data Acquisition Station where high gain antennas are communicating with the POES/GOES satellites. The antennas cover an Azimuth range of 360 degrees with an Elevation angles between 5 and 46 degrees. Eliminating the proposed flight areas north of Fairbanks could mitigate this interference.

The following frequencies must not be utilized:

M2026.000	M2036.250	M2039.500	M2067.300	M2088.878
M2207.500	M2215.000	M2215.920	M2222.500	M2237.500
M2247.500	M2252.500	M2267.500	M2268.465	M3956.500
- (6) The applicant must notch the following frequencies to protect Department of Interior operations in the area:

M2202.5	Fort Wainwright, AK
M2252.5	Easter Dome, AK
- (7) Licensee shall secure consents from the AWS, EBS, and BRS licensees prior to accessing to 2-18 GHz band
- (8) Licensee shall coordinate with the local SBE frequency coordinator and the Fixed Microwave service licensees prior to operation in 2-18 GHz and 550-950 MHz bands
- (9) Licensee shall maintain separation from the grandfathered earth stations as defined in Part 90, Sub-part Z, or coordinate and agreement with the grandfathered earth station licensees prior to accessing to 3650-3700 MHz

Special Conditions:

- (10) Licensee shall ensure that the operation will not cause harmful interference to any existing registered stations in the 3650-3700 MHz band, and notify the registered users in the proposed area.