

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

EXPERIMENTAL

(Nature of Service)

WJ9XMU

(Call Sign)

XT MO

(Class of Station)

0282-EX-ST-2016

(File Number)

NAME Center for Remote Sensing of Ice Sheets

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 Sensing of Ice Sheets) at the University of Kansas to operate aircraft-mounted radar

Station Locations

(1) MOBILE: Exact locations are submitted as an exhibit

Frequency Information

MOBILE: Exact locations are submitted as an exhibit

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
150-450 MHz	MO	300MQXN	500 W (ERP)	
2-8 GHz	MO	6G00Q3N	1 W (ERP)	
12-18 GHz	MO	6G00Q3N	12 W (ERP)	

This authorization effective March 14, 2016 and
will expire 3:00 A.M. EST April 05, 2016

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (1) The following frequencies must be notched to protect Coast Guard Distress and Search and Rescue (SAR) operations in the 150-450MHz band. ITU Radio Regulations prohibit any possible interference to Distress frequencies.

SEARCH AND RESCUE

M156.8	+/-12.5 KHz	Channel 16 International Calling and Distress
M156.525	+/-12.5 KHz	Channel 70 Digital Select Calling (DSC)
M161.975	+/-12.5 KHz	AIS I
M162.025	+/-12.5 KHz	AIS II
M243.0	+/-3KHz	Aeronautical Search and Rescue
M282.8	+/-3 KHz	Search and Rescue
M406-406.1	+/-8 KHz	EPIRB/ELT/PLB

- (2) The following frequencies must be notched to protect Coast Guard Air-Ground-Air frequencies from any possible interference due to Safety of Flight issues.

M237.9	+/-12.5 KHz
M326.15	+/-12.5 KHz
M345.0	+/-12.5 KHz
M379.05	+/-12.5 KHz

- (3) The following frequencies must be notched to protect Department of the Interior operations:

M2202.5	+/- 875 KHz
M2252.5	+/- 875 KHz
M164.425	+/- 6.25 KHz
M166.8	+/- 6.25 KHz
M166.85	+/- 6.25 KHz
M166.875	+/- 6.25 KHz
M166.875	+/- 6.25 KHz
M167.175	+/- 6.25 KHz
M167.175	+/- 6.25 KHz
M168.375	+/- 6.25 KHz
M168.625	+/- 6.25 KHz
M411.775	+/- 6.25 KHz
M411.775	+/- 6.25 KHz
M411.925	+/- 6.25 KHz
M411.925	+/- 6.25 KHz

Special Conditions:

- (4) The following frequencies must be notched to protect NOAA satellite operations:

M2026	+/- 1 MHz
M2036.2	+/- 47.5 KHz
M2039.5	+/- 32 KHz
M2067.3	+/- 128 KHz
M2088.878	+/- 4KHz
M2207.5	+/- 2.7 MHz
M2215	+/- 2.28 MHz
M2215.92	+/- 419.5 KHz
M2222.5	+/- 2.7 MHz
M2237.5	+/- 2.7 MHz
M2247.5	+/- 3.02 MHz
M2252.5	+/- 2.7 MHz
M2268.465	+/- 419.5 KHz
M3956.5	+/- 4.3 MHz

- (5) The following frequencies must be notched to protect aircraft operations and flight safety:

328.6-335.4 MHz	
2700-2900 MHz	
3700-4200 MHz	
165.6625 MHz	+/- 12.5 KHz
162.275 MHz	+/- 12.5 KHz
243.0 MHz	+/- 12.5 KHz
255.4 MHz	+/- 12.5 KHz
257.8 MHz	+/- 12.5 KHz
259.1 MHz	+/- 12.5 KHz
275.8 MHz	+/- 12.5 KHz
285.4 MHz	+/- 12.5 KHz
290.250 MHz	+/- 12.5 KHz
318.2 MHz	+/- 12.5 KHz
319.1 MHz	+/- 12.5 KHz
322.3 MHz	+/- 12.5 KHz
327.1 MHz	+/- 12.5 KHz
363.2 MHz	+/- 12.5 KHz

- (6) The following frequency band must be notched to protect NASA and NOAA Earth exploration-satellite service (EESS) and meteorological-satellite missions.

M2197.5-M2300

Special Conditions:

- (7) Prior to the start of operations the proponent must coordinated with:

Joint Frequency Management Office (JFMO) Alaska
Mr. Robert Craig
Phone: (907) 552-7183
Email:robert.craig.12@us.af.mil

Center for Remote Sensing must also comply with any and all restrictions that may be levied by WAFC.

- (8) Due to the crowded RF environment in Alaska, future coordination may become difficult.