

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

EXPERIMENTAL

(Nature of Service)

WN9XVS

(Call Sign)

XT MO

(Class of Station)

2142-EX-ST-2018

(File Number)

NAME Remote Sensing center/University of Alabama

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:

We plan to operate an airborne microwave radar for measuring snow thickness in the alpine region. The radar data will be used to validate and improve the national water model. The radar

Station Locations

- (1) MOBILE: Grand Mesa area and Senator Beck Basin area, within 100 km, centered around NL 38-33-50; WL 107-24-29

Frequency Information

MOBILE: Grand Mesa area and Senator Beck Basin area, within 100 km, centered around NL 38-33-50; WL 107-24-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2-18 GHz	MO		2 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) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

This authorization effective March 18, 2019 and
will expire 3:00 A.M. EST April 09, 2019

**FEDERAL
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COMMISSION**



Special Conditions:

- (3) Remote Sensing Center/University of Alabama must notch out the following spot frequencies:
- a. (+/- 2 MHz) 7.165 GHz, 7.225 GHz, 7.333 GHz, 7.395 GHz, 7.495 GHz, 7.585 GHz, 7.644 GHz, 7.675 GHz, 7.825 GHz,
 - b. (+/- 3.75 MHz) 7.440 GHz, 7.565 GHz,
 - c. (+/- 4 MHz) 7.735 GHz, 7.555 GHz,
 - d. (+/- 5 MHz) 2.730 GHz, 2.790 GHz,
 - e. (+/- 8.5 MHz) 4.490 GHz, 4.790 GHz,
 - f. (+/- 10 MHz) 7.130 GHz, 7.145 GHz, 7.395 GHz, 7.415 GHz, 7.605 GHz,
 - g. (+/- 15 MHz) 7.565 GHz, 7.790 GHz, 7.830 GHz, 8.045 GHz, 8.125 GHz, 8.195 GHz, 8.280 GHz, 8.485 GHz,
- (4) Remote Sensing Center/University of Alabama must notch out the following band(s): 2.690-2.700 GHz, 2.850-2.860 GHz, 2.880-2.890 GHz, 3.947-3.966 GHz, 4.990-5.00 GHz, 10.125-10.325 GHz, 10.680-10.700 GHz, and 15.350-15.400 GHz.