

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

EXPERIMENTAL

(Nature of Service)

WN9XDN

(Call Sign)

XT MO

(Class of Station)

1201-EX-ST-2019

(File Number)

NAME Sierra Nevada Corporation

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:

Conduct high altitude MESH networking tests over South Dakota to provide a persistent surveillance system to locate and deter narcotic trafficking and homeland security threats.

Station Locations

- (1) MOBILE: Baltic, SD: Within the requested radius along the flight plan, Airborne max altitude 65,000 ft. AGL, within 400 km, centered around NL 43-42-02; WL 96-42-28

Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2380 MHz	MO	20M0D7W	8 W (ERP)	0.002 %
9510 MHz	MO	600MM3N	24280 W (ERP)	0.002 %

This authorization effective July 12, 2019 and
will expire 3:00 A.M. EST September 01, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (1) This frequency assignment in one of the bands 1435-1525, 2310-2320 and 2345-2390 MHz was coordinated prior to its authorization with AFMO CONUS, Ft. Sam Houston, TX, who also coordinated it, as appropriate, with the Aerospace and Flight Test Radio Coordinating Council. Use of this frequency under the authority of this assignment is subject to such further coordination with AFMO CONUS, Ft. Sam Houston, TX, as necessary to ensure compatibility with existing uses.
- (2) Sierra Nevada Corporation adhere to the following:
 - a. the proposed flight plan appears to directly overfly the North Liberty, IA VLBA station (NL 41-46-17.13; WL 91-34-26.88). Avoid direct illumination of the site during testing.
 - b. Notify the VLBA PoC prior to overflight. POC is: Dan "Mert" Mertely, nrao-rfi@nrao.edu, phone: (575) 835-7128
- (3) This grant supersedes previous grant to revise the application Purpose and Justification Exhibit according to applicant's request dated August 13, 2019.