

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

EXPERIMENTAL

(Nature of Service)

WQ9XPS

(Call Sign)

XT MO

(Class of Station)

0031-EX-ST-2021

(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:

High-altitude MESH networking tests over White Sands, New Mexico.

Station Locations

- (1) MOBILE: White Sands, NM: airborne max altitude 60,000 ft AGL, within 200 km, centered around NL 32-52-14; WL 106-29-28

Frequency Information

MOBILE: White Sands, NM: airborne max altitude 60,000 ft AGL, within 200 km, centered around NL 32-52-14; WL 106-29-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
462.55-462.575 MHz	MO	12K5F3E	8 W (ERP)	0.002 %
462.575-462.6 MHz	MO	12K5F3E	8 W (ERP)	0.002 %
462.60255-462.61875 MHz	MO	12K5F3E	8 W (ERP)	0.002 %

This authorization effective February 15, 2021 and
will expire 3:00 A.M. EST August 15, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: White Sands, NM: airborne max altitude 60,000 ft AGL, within 200 km, centered around NL 32-52-14; WL 106-29-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2370-2390 MHz	MO	20MOD7W	25 W (ERP)	0.002 %

Special Conditions:

- (1) This frequency assignment in one of the bands 1435-1525, 2310-2320 and 2345-2390 MHz was coordinated prior to authorization with the Area Frequency Coordinator, WSMR, NM, 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 the AFC, WSMR, NM, as necessary to ensure compatibility with the existing uses.
- (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.
- (3) Sierra Nevada Corporation must notch out the following:
 - a. 2375.5 MHz (+/- 3 MHz)
 - b. 2381.5 MHz (+/- 3 MHz)
 - c. 2383.5 MHz (+/- 2.5 MHz)
- (4) At least 7 days prior to operations, Sierra Nevada Corporation must schedule all operations as a WSMR Range Mission, through their WSMR Range Sponsor. Final authority to radiate is contingent upon successful scheduling and de-confliction of both airspace and spectrum with other area operations by the WSMR ISM who reserves the right to impose additional constraint.
- (5) Prior to any operation under this STA, the applicant (Sierra Nevada Corporation) must coordinate operations with the VLBA and VLA point of contact: Dan "Mert" Mertely, <mailto:nrao-rfi@nrao.edu> phone: (575) 835-7128