

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

EXPERIMENTAL

(Nature of Service)

WR9XZG

(Call Sign)

XT MO

(Class of Station)

0667-EX-ST-2021

(File Number)

**NAME** Aerostar Technical Solutions

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 the operation is to conduct high-altitude balloon testing using the mobile networked MIMI(MN-MIMO) radios in the Vista, CA area. The ground station will be a land based

**Station Locations**

- (1) MOBILE: MOEB - Vista, CA with 200 mile radius, within 321 km, centered around NL 33-11-50; WL 117-14-39
- (2) MOBILE: MOEA Vista, CA max alt of 70,000-ft msl, within 321 km, centered around NL 33-11-50; WL 117-14-39

**Frequency Information**

MOBILE: MOEB - Vista, CA with 200 mile radius, within 321 km, centered around NL 33-11-50; WL 117-14-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2370-2390 MHz	MO	20M0D7W	63 W (ERP)	0.002 %

This authorization effective May 09, 2021 and will expire 3:00 A.M. EST May 30, 2021

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

MOBILE: MOEA Vista, CA max alt of 70,000-ft msl, within 321 km, centered around NL 33-11-50; WL 117-14-39

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 Western Area Frequency Coordinator (WAFC) 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 WAFC as necessary to ensure compatibility with 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) Raven ATS is hereby notified that AFTRCC will not accept applications for this type of high-altitude testing in the future.
- (4) Raven agrees not to request an extension of testing dates.
- (5) Raven must provide a real time, on site POC for Cease Buzzer prior to launch to the AFTRCC Telemetry Coordinator.
- (6) Raven ATS further agrees to accept all risk of interference it may receive and will take all actions to avoid RFI to other authorized users within radio line of sight. Raven additionally agrees to accept all conditions of AFTRCC disclaimer that will be submitted with and when coordination is approved.
- (7) Approved on a strict non-interference basis, contingent upon IFDS scheduling and deconfliction via WAFC prior to transmit.