

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

EXPERIMENTAL

(Nature of Service)

WR9XNE

(Call Sign)

XT MO

(Class of Station)

0008-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 Southern AZ area. The ground stations will be land

**Station Locations**

- (1) MOBILE: MOEB Quartzite, AZ, within 200 km, centered around NL 33-39-46; WL 114-14-51
- (2) MOBILE: MOEA Sells, AZ max. alt. of 70,000-ft., within 200 km, centered around NL 31-55-54; WL 111-53-42
- (3) MOBILE: MOEB Sells, AZ, within 200 km, centered around NL 31-55-54; WL 111-53-42
- (4) MOBILE: MOEA Portal, AZ max. alt. 70,000 ft, within 200 km, centered around NL 31-53-56; WL 109-03-44
- (5) MOBILE: MOEB Portal, AZ, within 200 km, centered around NL 31-53-56; WL 109-03-44
- (6) MOBILE: MOEA Quartzite, AZ max alt 70,000 ft., within 200 km, centered around NL 33-39-46; WL 114-14-51

This authorization effective February 01, 2021 and  
will expire 3:00 A.M. EST April 02, 2021

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

MOBILE: MOEB Quartzite, AZ, within 200 km, centered around NL 33-39-46; WL 114-14-51

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

MOBILE: MOEA Sells, AZ max. alt. of 70,000-ft., within 200 km, centered around NL 31-55-54; WL 111-53-42

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 2370-2390 MHz | MO            | 20M0D7W             | 25 W (ERP)       | 0.002 %                   |

MOBILE: MOEB Sells, AZ, within 200 km, centered around NL 31-55-54; WL 111-53-42

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

MOBILE: MOEA Portal, AZ max. alt. 70,000 ft, within 200 km, centered around NL 31-53-56; WL 109-03-44

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
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| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 2370-2390 MHz | MO            | 20M0D7W             | 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, Ft. Huachuca, AZ, 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, Ft. Huachuca, 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) Non-interference basis to other current authorized users within radio line-of-sight. May require pre-operations scheduling with DoD Arizona AFC.
- (4) Stop Buzzer POC: Martin Harms  
Phone: 6053217162