

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

EXPERIMENTAL

(Nature of Service)

XT MO

(Class of Station)

WA8XAR

(Call Sign)

1205-EX-ST-2026

(File Number)

NAME Aloft Sensing, Inc.

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:

To test Aloft Sensing, Inc. X-band radar sensors from the stratosphere for research and demonstration purposes.

Station Locations

- (1) MOBILE: 50-65kft MSL above Fort Irwin, CA, within 200 km, centered around NL 35-54-35; WL 116-58-17

Frequency Information

MOBILE: 50-65kft MSL above Fort Irwin, CA, within 200 km, centered around NL 35-54-35; WL 116-58-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9201-9999 MHz	MO	798MQ3N	31000 W (ERP)	0.1 %

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) Licensee must protect the 9300 - 9500 MHz IAW US475

This authorization effective July 15, 2026 and
will expire 3:00 A.M. EST July 31, 2026

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (3) Five (5) days prior to planned execution, Aloft Sensing, Inc. coordinate and schedule all operations of planned dates of active transmissions the Department of Defense Western Area Frequency Coordinator (DoD WAFC) office, (760) 939-6832 to mitigate harmful interference to federal operations. Please reference STA number: 1205-EX-ST-2026.
- a. The STOP BUZZER POC information shall be provided to DoD WAFC. This phone shall be manned during all periods of active transmissions.
 - b. Target-Specific Sector Blanking shall be implemented to minimize RF interference at the following locations:
 - i. Naval Air Weapons Station China Lake: Center Grid Coordinate 35°41'08"N, 117°41'31"W; Blanking Radius: 10 Nautical Miles (NM).
 - ii. China Lake Complex North Range: Center Grid Coordinate 36°01'30"N, 117°43'15"W; Blanking Radius: 20 Nautical Miles (NM).
 - iii. Edwards Air Force Base (Air Force Test Center Hub): Center Grid Coordinate 34°54'20"N, 117°53'01"W; Blanking Radius: 15 Nautical Miles (NM).
- (4) Coordination is required with the NASA JPL Spectrum Manager (DENNIS.K.LEE@JPL.NASA.GOV, 818.354.0068) at least 3 days in advance of operations when operating transmissions line-of-sight of (332121N, 1165150W) while overlapping any portion of: 9315-9375 MHz, OR operating transmission line-of-sight of (342254N, 1174058W) while overlapping any portion of : 9372.5-9377.5 MHz, 9350-9400 MHz, 9402.5-9417.5 MHz. Transmissions directed at receivers under these assignments at their locations are expected to be HIA.
- (5) Coordination is required with the NASA GSFC Spectrum Management Office at NASA-DL-GSFC-SPECTRUM-MANAGEMENT@MAIL.NASA.GOV at least 3 days in advance of operations when overlapping any portion of 9405-9415 MHz, 9596-9604 or 9616-9624 MHz.
- (6) The following conditions are required to protect ASDE radars at Las Vegas, NV, Santa Ana, CA, San Diego, CA, and Phoenix, AZ:
- a. When within 350 NM (648 km) of [(36 04' 48" N) (115 09' 08" W)], blank transmissions $\pm 15^\circ$, measured from transmitter to [(36 04' 48" N) (115 09' 08" W)], reference, true north
 - b. When within 350 NM (648 km) of [(33 40' 32" N) (117 52' 06" W)], blank transmissions $\pm 15^\circ$, measured from transmitter to [(33 40' 32" N) (117 52' 06" W)], reference, true north
 - c. When within 350 NM (648 km) of [(32 44' 01" N) (117 11' 23" W)], blank transmissions $\pm 15^\circ$, measured from transmitter to [(32 44' 01" N) (117 11' 23" W)], reference, true north
 - d. When within 350 NM (648 km) of [(33 26' 03" N) (112 00' 42" W)], blank transmissions $\pm 15^\circ$, measured from transmitter to [(33 26' 03" N) (112 00' 42" W)], reference, true north