

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

EXPERIMENTAL

(Nature of Service)

WN9XOT

(Call Sign)

XT FX

(Class of Station)

0946-EX-ST-2019

(File Number)

NAME Applied Research Associates, 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:

Perform RF field mapping experiments in an outdoor environment to characterize the uniformity and levels of the EM fields emitted from our CWI antenna system.

Station Locations

(1) White Sands M.R. (DONA ANA), NM - NL 32-20-44; WL 106-27-01

Frequency Information

White Sands M.R. (DONA ANA), NM - NL 32-20-44; WL 106-27-01

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
0.1-1000 MHz	FX	1K00N0N	632 W (ERP)	0.001 %

Special Conditions:

- (1) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (2) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at https://www.sbe.org/sections/freq_local.php to find the appropriate coordinator.

This authorization effective July 01, 2019 and
will expire 3:00 A.M. EST January 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (3) 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.
- (4) Applied Research Associates, Inc. must exclude all frequencies in Appendix B of the exhibit "License application supplement."
- (5) Applied Research Associates, Inc. must notch out the following discrete frequencies:
 - a. (+/- 12.5 kHz) 100.000 kHz, 121.500 MHz, 122.850 MHz, 122.900 MHz, 122.925 MHz, 123.100 MHz, 156.300 MHz, 156.525 MHz, 156.650 MHz, 156.800 MHz, 161.975 MHz, 162.025 MHz, 162.1625 MHz, 162.2375 MHz, 162.9625 MHz, 164.125 MHz, 164.1375 MHz, 164.250 MHz, 164.3625 MHz, 164.800 MHz, 164.825 MHz, 165.175 MHz, 166.275 MHz, 166.3125 MHz, 166.375 MHz, 166.5625 MHz, 166.6375 MHz, 166.6625 MHz, 166.825 MHz, 167.550 MHz, 167.600 MHz, 167.700 MHz, 168.025 MHz, 168.175 MHz, 168.225 MHz, 168.325 MHz, 168.6125 MHz, 168.625 MHz, 168.6625 MHz, 168.675 MHz, 168.7375 MHz, 168.750 MHz, 168.775 MHz, 169.125 MHz, 169.175 MHz, 169.625 MHz, 169.7125 MHz, 169.800 MHz, 170.000 MHz, 170.050 MHz, 170.500 MHz, 170.550 MHz, 171.750 MHz, 171.7875 MHz, 172.275 MHz, 172.450 MHz, 172.475 MHz, 172.5125 MHz, 172.5875 MHz, 172.775 MHz, 173.175 MHz, 173.775 MHz, 173.825 MHz, 282.800 MHz, 406.125 MHz, 406.475 MHz, 408.875 MHz, 415.475 MHz, 417.875 MHz.
- (6) Applied Research Associates, Inc. must notch out the following bands:
 - a. 190 - 285 kHz, 285 - 435 kHz, 510 - 535 kHz, 2.495 - 2.505 MHz, 2.850 - 3.025 MHz, 3.4 - 3.5 MHz, 4.65 - 4.7 MHz, 4.995 - 5.005 MHz, 5.45 - 5.68 MHz, 6.525 - 6.685 MHz, 9.995 - 10.005 MHz, 10.005 - 10.100 MHz, 11.275 - 11.4 MHz, 13.26 - 13.36 MHz, 14.99 - 15.01 MHz, 17.9 - 17.97 MHz, 19.99 - 20.01 MHz, 21.92 - 22.0 MHz, 24.99 - 25.01 MHz, 73 - 74.6 MHz, 74.8 - 75.2 MHz, 108 - 121.9375 MHz, 123.5875 - 128.8125 MHz, 132.0125 - 137.000 MHz, 328.6 - 335.4 MHz, 449.75 - 450.025 MHz, 608 - 614 MHz, 974 - 1000 MHz.
- (7) Applied Research Associates, Inc. must coordinate with the DOD Western Area Frequency coordinator, Mr. Jamie Heaton at (760) 939-6832 or Jamie.heaton@navy.mil prior to operations.
- (8) Applied Research Associates, Inc. must notch out the following bands:

5.9 - 6.2 MHz
7.2 - 7.3 MHz
7.3- 7.4 MHz
7.4 - 7.45 MHz
9.4 - 9.9 MHz
11.6 - 12.1 MHz
13.57 - 13.87 MHz
15.1 - 15.8 MHz
17.48 - 17.9 MHz
18.9 - 19.02 MHz
21.45 - 21.85 MHz
25.67 - 26.1 MHz
- (9) Applied Research Associates, Inc. must notch out the following bands:

137-138 MHz, 148-150.05 MHz, 156.0125-163 MHz, 400.15-403 MHz, and 449.75-450.25 MHz
- (10) Applied Research Associates, Inc. must notch out the FirstNet Band 14 frequencies.