

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

EXPERIMENTAL

(Nature of Service)

WN9XOT

(Call Sign)

XT FX

(Class of Station)

1673-EX-ST-2018

(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) San Antonio (BEXAR), TX - NL 29-32-48; WL 98-40-14

Frequency Information

San Antonio (BEXAR), TX - NL 29-32-48; WL 98-40-14

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

Special Conditions:

- (1) 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.
- (2) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at http://freq.sbe.org/pdf_files/coordinators.pdf to find the appropriate coordinator.

This authorization effective November 01, 2018 and
will expire 3:00 A.M. EST March 30, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (3) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (4) Applied Research Associates, Inc. must notch out (+/- 118 Hz); 301.0000 kHz, 304.0000 kHz, 318.0000 kHz.
- (5) Applied Research Associates, Inc. must notch out (+/- 1.4 kHz); 2174.5000 kHz, 2182.0000 kHz, 2183.4000 kHz, 2187.5000 kHz, 2639.4000 kHz, 2262.4000 kHz, 2668.4000 kHz, 2671.4000 kHz, 2684.4000 kHz, 2700.4000 kHz, 2739.4000 kHz, 2831.4000 kHz, 3023.0000 kHz, 3024.4000 kHz, 3054.4000 kHz, 3057.4000 kHz, 3120.4000 kHz, 3123.4000 kHz, 4125.0000 kHz, 4126.4000 kHz, 4177.5000 kHz, 4207.5000 kHz, 4209.5000 kHz, 4210.0000 kHz, 4731.4000 kHz, 4734.4000 kHz, 5321.4000 kHz, 5423.4000 kHz, 5680.0000 kHz, 5681.4000 kHz, 5694.4000 kHz, 5697.4000 kHz, 6215.0000 kHz, 6216.4000 kHz, 6268 kHz, 6312.0000 kHz, 6314.0000 kHz, 6502.4000 kHz, 6517.4000 kHz, 6710.4000 kHz, 6743.4000 kHz, 8291.0000 kHz, 8292.4000 kHz, 8376.5000 kHz, 8414.5000 kHz, 8416.5000 kHz, 8765.4000 kHz, 8981.4000 kHz, 8984.4000 kHz, 9035.4000 kHz, 9038.4000 kHz, 11197.4000 kHz, 11200 kHz, 11203.4000 kHz, 12291.4000 kHz, 12520.0000 kHz, 12577.0000 kHz, 12579.0000 kHz, 13219.4000 kHz, 13222.4000 kHz, 15083.4000 kHz, 15086.4000 kHz, 15089.4000 kHz, 16420.0000 kHz, 16421.4000 kHz, 16684.5000 kHz, 16685.5000 kHz, 16687.5000 kHz, 16692.5000 kHz, 16695.0000 kHz, 16804.5000 kHz, 16806.5000 kHz, 17989.4000 kHz, 17992.4000 kHz, 19680.5000 kHz, 22376.0000 kHz.
- (6) Applied Research Associates, Inc. must notch out (+/- 3 kHz); 243.0000 MHz.
- (7) Applied Research Associates, Inc. must notch out (+/- 5.5 kHz); 143.4750 MHz, 149.2000 MHz, 166.4625 MHz, 171.3375 MHz, 171.3500 MHz.
- (8) Applied Research Associates, Inc. must notch out (+/- 6 kHz); 1610 kHz.
- (9) Applied Research Associates, Inc. must notch out (+/- 8 kHz); 41.1500 MHz, 156.0500 MHz, 156.2500 MHz, 156.2750 MHz, 156.3000 MHz, 156.525 MHz, 156.5500 MHz, 156.6000 MHz, 156.6500 MHz, 156.6750 MHz, 156.7000 MHz, 156.7250 MHz, 156.8000 MHz, 157.0000 MHz, 157.0500 MHz, 157.0750 MHz, 157.1000 MHz, 157.1500 MHz, 157.1750 MHz.
- (10) Applied Research Associates, Inc. must notch out (+/- 10 kHz); 161.9750 MHz, 162.0250 MHz.
- (11) Applied Research Associates, Inc. must notch out (+/- 12.5 kHz); 162.9625 MHz, 164.1250 MHz, 164.3625 MHz, 165.7250 MHz, 166.3125 MHz, 166.3750 MHz, 166.5625 MHz, 166.6625 MHz, 167.4500 MHz, 167.5500 MHz, 168.0250 MHz, 168.6250 MHz, 168.6625 MHz, 168.6750 MHz, 168.7750 MHz, 169.1750 MHz, 169.6250 MHz, 169.9000 MHz, 169.9500 MHz, 170.0000 MHz, 170.0750 MHz, 170.7500 MHz, 171.7875 MHz, 172.3250 MHz, 172.5125 MHz, 172.5875 MHz, 237.9000 MHz, 326.1500 MHz, 345.0000 MHz, 379.0500 MHz, 406.0250 MHz, 406.0500 MHz, 408.5125 MHz, 410.3000 MHz, 413.0375 MHz, 413.6000 MHz, 417.5125 MHz.
- (12) Applied Research Associates, Inc. must notch out (+/- 16 kHz); 153.7400 MHz, 153.8450 MHz, 154.7700 MHz, 154.8375 MHz, 156.0075 MHz, 156.2325 MHz, 159.0150 MHz.
- (13) Applied Research Associates, Inc. must notch out the 73 - 74.6 MHz and the 608 - 614 MHz bands IAW Footnote US246.
- (14) Applied Research Associates, Inc. must notch out the 121.950 - 122.700 MHz and the 449.750 - 450.250 MHz bands to prevent harmful interference to Federal operations.

Special Conditions:

- (15) Applied Research Associates, Inc. is not authorized to operate station in the 137-138 MHz, 148-150.05 MHz, 156.0125-163 MHz, 400.15-403 MHz, and 449.75-450.25 MHz frequency bands.