

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

EXPERIMENTAL

(Nature of Service)

WG9XWG

(Call Sign)

XT MO

(Class of Station)

0627-EX-ST-2013

(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:

This NightHawk will be used to demonstrate surveillance capabilities as part of the Thunderstorm Program.

Station Locations

- (1) MOBILE: East of Brownsville, TX, within 6.5 km, centered around NL 25-58-20; WL 97-16-57

Frequency Information

MOBILE: East of Brownsville, TX, within 6.5 km, centered around NL 25-58-20; WL 97-16-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
310-390 MHz	MO	280KF1D	1.531 mW (ERP)	0.00025 %
1755-1850 MHz	MO	18M5F9W	3.062 W (ERP)	0.002 %

This authorization effective August 06, 2013 and
will expire 3:00 A.M. EST September 06, 2013

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (1) Applied Research Associates must notch out the following frequencies and or frequency bands:
317.6 MHz +/- 10 kHz
326.15 MHz +/- 10 kHz
328.6 thru 335.4 MHz band
345.00 MHz +/- 10 kHz
379.05 MHz +/- 10 kHz
- (2) Use of the band 1710-1755 MHz is not allowed since this band has been transferred to the FCC and has been auctioned.
- (3) ARA should be aware that the band 1755-1780 MHz is under serious review and may be transferred to the FCC in the next few years. Also, equipment developed in the band 1780-1850 MHz may have to be moved to a new band in the next 10 years.