

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

EXPERIMENTAL

(Nature of Service)

WP9XAT

(Call Sign)

XT MO

(Class of Station)

1448-EX-ST-2019

(File Number)

NAME GE Aviation

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 national asset measures the near field radar cross section (RCS) of operating jet engines and exhaust systems.

Station Locations

- (1) MOBILE: Lincoln Heights, OH, within 2 km, centered around NL 39-14-52; WL 84-26-52

Frequency Information

MOBILE: Lincoln Heights, OH, within 2 km, centered around NL 39-14-52; WL 84-26-52

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6.5-19 GHz	MO		13.5 W (ERP)	0.25 %

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) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) Stop Buzzer: Craig Baucke 513 243 4830 (office), 513 165 3856 (cell)

This authorization effective September 15, 2019 and
will expire 3:00 A.M. EST March 15, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (4) Prior coordination with the FAA is required for the frequencies 6.50-19.00 GHz requested in this application
- (5) GE Aviation must notch out the 10.6-10.7 GHz, 14.47-14.50 GHz, and 15.35-15.40 GHz bands in order to avoid causing interference to the Radio Astronomy bands. It may be possible to coordinate operations by contacting the National Science Foundation Electromagnetic Spectrum Management Unit at esm@nsf.gov.
- (6) GE Aviation must notch out 15.7-16.2 GHz to protect Air Traffic operations.
- (7) Operations shall be limited to short duration scans consistent with the operations of the original STA (0741-EX-ST-2011).
- (8) GE Aviation shall prior coordinate with the local Society of Broadcast Engineers frequency coordinator and the Fixed Microwave Service licensees in accordance with 47 C.F.R, Part 101.103(d).
- (9) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.