

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

EXPERIMENTAL

(Nature of Service)

WP9XXY

(Call Sign)

XT MO

(Class of Station)

0079-EX-ST-2020

(File Number)

NAME Aurora Flight Sciences

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:

The objective of this request is to obtain a license authorizing experimental use of the Fortem R30 radar in flight tests evaluating its use as an AV-mounted detect-and-avoid (DAA) sensor.

Station Locations

- (1) MOBILE: Air Ops 7500ft AGL KHWY FLYING WEST, within 150 km, centered around NL 38-35-13; WL 77-42-38

Frequency Information

MOBILE: Air Ops 7500ft AGL KHWY FLYING WEST, within 150 km, centered around NL 38-35-13; WL 77-42-38

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15.4-15.7 GHz	MO	150MQXN	316 W (ERP)	

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.

This authorization effective January 27, 2020 and
will expire 3:00 A.M. EST July 28, 2020

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COMMUNICATIONS
COMMISSION**



Special Conditions:

- (3) Aurora Flight Sciences must prevent emissions from extending below 15.4 GHz into the 15.35 - 15.4 GHz frequency band.
- (4) Aurora Flight Sciences must coordinate with and receive written confirmation from the NRQZ that the proposed dates, location, and frequencies of testing are acceptable.

Paulette Woody
nrqz@gb.nrao.edu
phone: (304) 456-2107

- (5) Aurora Flight Sciences must coordinate with EAFC at robert.n.goddard@navy.mil, or (301) 342-1194. To mitigate harmful interference to Navy/Marine Corps/DoD operations.