

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WP9XSS

(Call Sign)

2222-EX-ST-2019

(File Number)

NAME The Johns Hopkins University Applied Physics Laboratory (JHU/APL)

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:

To characterize the radars in a ground-based configuration. The radar was originally designed as an collision avoidance radar for UASs

Station Locations

(1) Laurel (HOWARD), MD - NL 39-09-55; WL 76-53-53

Frequency Information

Laurel (HOWARD), MD - NL 39-09-55; WL 76-53-53

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24.4675-24.5125 GHz	FX	45M0F0N	428 W (ERP)	0.01 %
24.5275-24.5725 GHz	FX	45M0F0N	428 W (ERP)	0.01 %
24.5875-24.6325 GHz	FX	45M0F0N	428 W (ERP)	0.01 %

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

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (2) 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.
- (3) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (4) Further requests for extension of the authority granted herein must be filed on Form 442, "Application for New or Modified Radio Station Authorization under Part 5 of FCC Rules - Experimental Radio Service." Future STA requests to extend this authorization will not be considered.
- (5) The proponent must be aware that the frequency band 24.45-24.65 GHz is primary allocated for radionavigation purposes, with radiolocation operations such as perimeter defense, drone interdiction and counter-UAS being secondary. Any expansion of this grant to include radionavigation operations (such as a data feed to FAA for separation of aircraft or air traffic control) must be reviewed by the FAA.