

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

EXPERIMENTAL

(Nature of Service)

WO9XFO

(Call Sign)

XT FX

(Class of Station)

0586-EX-ST-2019

(File Number)

NAME Advanced Protection Systems LLC

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 test the low weight, low power radar sensor prototype. This radar device was designed to detect micro- and small-drones, with possible applications in counter-drone systems and

Station Locations

(1) Moundsville (MARSHALL), WV - NL 39-55-13; WL 80-44-35

Frequency Information

Moundsville (MARSHALL), WV - NL 39-55-13; WL 80-44-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10.4-10.5 GHz	FX	100MF0N	96 W (ERP)	0.00001 %

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 May 04, 2019 and
will expire 3:00 A.M. EST May 09, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (3) Advanced Protection Systems LLC must notch out the following:
 - a. The frequency band 10.4-10.5 GHz is allocated for radiolocation purposes, therefore it is not suited for Detect and Avoid (DAA) or sense and avoid purposes. The FAA recommends the proponent work with FCC for the proper frequency allocation for DAA.
 - b. Operations not to exceed 330km of coordinates provided.