

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

EXPERIMENTAL

(Nature of Service)

WS9XBL

(Call Sign)

XT MO

(Class of Station)

0700-EX-ST-2021

(File Number)

NAME Persistent 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:

Testing, demonstrations and proof-of-concept evaluation of data transmission system.
Please see attached narrative.

Station Locations

- (1) MOBILE: within 80.4 kilometers of specified coordinates Patuxent River, MD, within 80.4 km, centered around NL 38-17-08; WL 76-25-20
- (2) MOBILE: within 80.4 kilometers of specified coordinates Manassas, VA, within 80.4 km, centered around NL 38-43-30; WL 77-30-54

Frequency Information

MOBILE: within 80.4 kilometers of specified coordinates Patuxent River, MD, within 80.4 km, centered around NL 38-17-08; WL 76-25-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2222-2242 MHz	MO	20M0D1D	12.16 W (ERP)	0.004 %

This authorization effective May 24, 2021 and
will expire 3:00 A.M. EST May 29, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: within 80.4 kilometers of specified coordinates Manassas, VA, within 80.4 km, centered around NL 38-43-30; WL 77-30-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
2222-2242 MHz	MO	20M0D1D	12.16 W (ERP)	0.004 %

Special Conditions:

- (1) 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) All airborne use of this band are restricted to operations outside of Military Special Use airspace in/around NAS Patuxent River, MD (i.e. R-4007 and the FAA pre-defined Helo OPAREA).
- (4) Use of the 2222 - 2242 MHz band is limited and must be scheduled. Persistent Systems, LLC must direct their Government sponsor to contact the MIDLANTAFC office at least 2 weeks prior to the planned operations to obtain the necessary coordinating and scheduling requirements for the use of this band in support of their planned event. Those scheduling requirements will include the need to provide a STOP BUZZER POC name and telephone # (landline and/or cell phone) that can shut down these non-interference and unprotected operations in the event harmful interference is detected. Please reference FCC STA 0700-EX-ST-2021 when notifying the below MIDLANTAFC office.

Middle Atlantic Area Frequency Coordination Office
MIDLANTAFC
23013 CEDAR POINT RD
BLDG 2118
PATUXENT RIVER, MD 20670
scott.hoschar@navy.mil
robert.n.goddard@navy.mil
shauntrea.landrum.ctr@navy.mil
midlanta_fc_paxriver@navy.mil

- (5) All operations shall be coordinated with the Wallops Flight Facility Spectrum Manager, Felipe Arroyo at 757.824.1623 or felipe.arroyo-1@nasa.gov, at least 7 days prior to operation.