

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

EXPERIMENTAL

(Nature of Service)

WO9XHG

(Call Sign)

XT FX MO

(Class of Station)

2141-EX-ST-2019

(File Number)

NAME Piper Networks, Inc.

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 purpose of the operation is to test ultra-wideband technology used for proximity data transmission in certain transportation applications.

Station Locations

- (1) New York City, NY - NL 40-44-38; WL 73-56-31; MOBILE: , within 4.22 km, centered around NL 40-44-38; WL 73-56-31
- (2) New York City, NY - NL 40-41-59; WL 73-48-30; MOBILE: , within 2.98 km, centered around NL 40-41-59; WL 73-48-30

Frequency Information

New York City, NY - NL 40-44-38; WL 73-56-31; MOBILE: , within 4.22 km, centered around NL 40-44-38; WL 73-56-31

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3.2-3.7 GHz	FX	500MD1D	41.3 mW (ERP)	
6.2-6.74 GHz	FX	500MD1D	41.3 mW (ERP)	

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

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

New York City, NY - NL 40-41-59; WL 73-48-30; MOBILE: , within 2.98 km, centered around NL 40-41-59; WL 73-48-30

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3.2-3.7 GHz	FX	500MD1D	41.3 mW (ERP)	
6.2-6.74 GHz	FX	500MD1D	41.3 mW (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.
- (3) All customers participating in the experiment shall be informed that this operation is for experimental purposes only and can be cancelled at any time.
- (4) The stop buzzer contact for this project is Robert Hanczor
Phone: (619) 248-2002, Email: Robert@pipernetworks.com
- (5) The authorized station must be in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules.
- (6) The authorized station must be in compliance with environmental requirement set forth in Section 1.1307 of the Commission's Rules.
- (7) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (8) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (9) Operations are on a non-interference basis (NIB) and shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing.
- (10) Licensee shall maintain operation separation from the grandfathered earth stations as defined in Part 90, Subpart Z, or coordinate an agreement with the grandfathered earth station licensees prior to operation in 3650-3700 MHz band.
- (11) Licensee shall consult the ULS database to ensure that the operation will not cause harmful interference to any existing registered stations in the 3650-3700 MHz band, and notify the registered users in the proposed geographic areas prior to operation in this band.
- (12) Licensee shall coordinate with the local SBE frequency coordinator and the Fixed Microwave Service licensees prior to operation in 6.2-6.74 GHz band.

Special Conditions:

- (13) Piper Networks, Inc. should be aware that the requested location falls within the Exclusion Zone defined in the NTIA Fast Track Report (NTIA Technical Report TR-15-517: 3.5 GHz Exclusion Zone Analyses and Methodology). NTIA's concurrence is based upon Piper Networks, Inc.'s understanding that their operations are susceptible to interference from federal operations and they agree to accept any interference should it occur as well as operating on a Non-Interference Basis to any federal systems in the requested area.

- (14) 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.