

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

EXPERIMENTAL

(Nature of Service)

XT FX MO

(Class of Station)

WM9XLZ

(Call Sign)

0470-EX-ST-2018

(File Number)

NAME Metrom Rail, 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:

Metrom Rail, LLC will demonstrate the capabilities of the AURA System while advancing the functionality of Ultra-Wideband wireless equipment.

Station Locations

- (1) MOBILE: Crystal Lake, IL. Testing around Metrom Rail headquarters, within 25 km, centered around NL 42-12-39; WL 88-17-22
- (2) Brooklyn (KINGS), NY - NL 40-40-14; WL 73-59-25; MOBILE: Metra FG Line between 4th Street and Church Avenue, within 10 km, centered around NL 40-40-14; WL 73-59-25

Frequency Information

MOBILE: Crystal Lake, IL. Testing around Metrom Rail headquarters, within 25 km, centered around NL 42-12-39; WL 88-17-22

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3.1-5.3 GHz	MO	2G00P1D	1 mW (ERP)	

This authorization effective March 26, 2018 and
will expire 3:00 A.M. EST September 27, 2018

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Brooklyn (KINGS), NY - NL 40-40-14; WL 73-59-25; MOBILE: Metra FG Line between 4th Street and Church Avenue, within 1

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3.1-5.3 GHz	FX	2G00P1D	1 mW (ERP)	
3.1-5.3 GHz	MO	2G00P1D	1 mW (ERP)	

Special Conditions:

- (1) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) 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.
- (4) Licensee must maintain separation from the grandfathered earth stations as defined in Part 90 subpart Z, or notify and obtain an agreement with the grandfathered earth station licensees prior to accessing to 3650-3700 MHz band. Consult MyIBFS database to identify all existing registered earth stations in the 3650-3700 MHz band for each proposed experimental area of operation. The coordinates of these stations are available at <http://www.fcc.gov/ib/sd/3650/grandftr.pdf>.
- (5) Ensure that the operation will not cause harmful interference to any existing registered stations in the 3650-3700 MHz, and notify the registered users in the area.
- (6) Licensee must avoid pointing the transmitting antenna within 15 degrees of any point on the geostationary orbit arc while transmitting signals in the 3700-4200 MHz, band.
- (7) Licensee must ensure that the transmitting antenna(s) main beam do not point above the horizon in order to protect satellite space stations operating in overlapping frequency bands.
- (8) With respect to proposed operation in the 4500-4800 MHz band, the proposed operation MUST take into account the applicable requirements of Appendix 30B of the ITU Radio Regulations (incorporated by reference, see §25.108) and it is compatible with other U.S. ITU filings under Appendix 30B.
- (9) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (10) The stop buzzer contact for this project is Sara Woitel, Phone: 847-719-7755
Email: sara.woitel@metrom-rail.com
- (11) Metrom Rail, LLC must ensure that the equipment meets FCC Part 15 requirements for UltraWideband use.

Special Conditions:

- (12) 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.