

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

EXPERIMENTAL

(Nature of Service)

WL9XMB

(Call Sign)

XT MO

(Class of Station)

0913-EX-ST-2017

(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: Testing around Metrom Rail, Crystal Lake, IL, within 25 km, centered around NL 42-12-38; WL 88-17-19
- (2) MOBILE: Proof of Concept, Boston Green Line, MBTA, within 25 km, centered around NL 42-20-21; WL 71-15-17
- (3) MOBILE: Los Angeles Demonstration, LA Metro, within 25 km, centered around NL 34-03-23; WL 118-15-21

Frequency Information

MOBILE: Testing around Metrom Rail, Crystal Lake, IL, within 25 km, centered around NL 42-12-38; WL 88-17-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3100-5300 MHz	MO	2G00P1D	1 mW (ERP)	

This authorization effective August 01, 2017 and
will expire 3:00 A.M. EST February 02, 2018

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3100-5300 MHz	MO	2G00P1D	1 mW (ERP)	

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) Emissions must adhere to masking limits per FCC Part 15 Subpart F.
- (4) Metrom Rail consult the ULS database to ensure that the proposed operation will not cause adverse effect to any existing registered stations in the 3650-3700 MHz band and notify registered users in the immediate geographic area prior to accessing to the proposed frequency bands.
- (5) Metrom Rail, LLC must maintain operation separation from the grandfathered earth stations as defined in Part 90, Sub-part Z, or coordinate and agreement with the grandfathered earth station licensees prior to accessing to 3650-3700 MHz.
- (6) Stop buzzer point of contact to cease operation is Sara Woitel at (847) 719-7755.
- (7) Prior to operating, Metrom Rail, LLC., must notify licensees of earth stations operating in adjacent band above 3700 - 4200 MHz within 20 kilometers radius of each location from which experimental operations will occur. Metrom Rail, LLC., must also provide such notification to the National Spectrum Managers Association frequency coordinators by email. (see http://wireless.fcc.gov/services/index.htm?job=licensing_1&id=microwave). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna height(s), antenna orientation, eirp density) and day and times of each test. Consult the IBFS database to identify licensed earth station above 3700 - 4200 MHz band