

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

EXPERIMENTAL

(Nature of Service)

WM9XAR

(Call Sign)

XT FX

(Class of Station)

1650-EX-ST-2017

(File Number)

NAME CCO Fiberlink, 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:

Charter seeks to test and evaluate millimeter wave coverage and capacity performance in anticipation of 5G wireless development.

Station Locations

- (1) Grand Rapids (KENT), MI - NL 42-58-00; WL 85-39-58
- (2) Grand Rapids (KENT), MI - NL 42-55-14; WL 85-43-15
- (3) Grand Rapids (KENT), MI - NL 42-55-52; WL 85-36-08
- (4) Grand Rapids (KENT), MI - NL 42-53-57; WL 85-35-55
- (5) Grand Rapids (KENT), MI - NL 42-57-09; WL 85-39-47
- (6) Grand Rapids (KENT), MI - NL 42-56-51; WL 85-38-23
- (7) Grand Rapids (KENT), MI - NL 42-53-23; WL 85-40-25
- (8) Grand Rapids (KENT), MI - NL 42-57-05; WL 85-38-39
- (9) Grand Rapids (KENT), MI - NL 42-58-31; WL 85-44-44
- (10) Grand Rapids (KENT), MI - NL 42-59-49; WL 85-45-13
- (11) Grand Rapids (KENT), MI - NL 42-57-56; WL 85-42-05
- (12) Grand Rapids (KENT), MI - NL 42-57-15; WL 85-40-15

This authorization effective December 01, 2017 and
will expire 3:00 A.M. EST May 31, 2018

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Grand Rapids (KENT), MI - NL 42-58-00; WL 85-39-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.5-28.35 GHz	FX	800MD7D	121.6 W (ERP)	1.0E-6 %

Grand Rapids (KENT), MI - NL 42-55-14; WL 85-43-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.5-28.35 GHz	FX	800MD7D	121.6 W (ERP)	1.0E-6 %

Grand Rapids (KENT), MI - NL 42-55-52; WL 85-36-08

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.5-28.35 GHz	FX	800MD7D	121.6 W (ERP)	1.0E-6 %

Grand Rapids (KENT), MI - NL 42-53-57; WL 85-35-55

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.5-28.35 GHz	FX	800MD7D	121.6 W (ERP)	1.0E-6 %

Frequency Information

Grand Rapids (KENT), MI - NL 42-57-09; WL 85-39-47

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.5-28.35 GHz	FX	800MD7D	121.6 W (ERP)	1.0E-6 %

Grand Rapids (KENT), MI - NL 42-56-51; WL 85-38-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.5-28.35 GHz	FX	800MD7D	121.6 W (ERP)	1.0E-6 %

Grand Rapids (KENT), MI - NL 42-53-23; WL 85-40-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.5-28.35 GHz	FX	800MD7D	121.6 W (ERP)	1.0E-6 %

Grand Rapids (KENT), MI - NL 42-57-05; WL 85-38-39

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.5-28.35 GHz	FX	800MD7D	121.6 W (ERP)	1.0E-6 %

Frequency Information

Grand Rapids (KENT), MI - NL 42-58-31; WL 85-44-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.5-28.35 GHz	FX	800MD7D	121.6 W (ERP)	1.0E-6 %

Grand Rapids (KENT), MI - NL 42-59-49; WL 85-45-13

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.5-28.35 GHz	FX	800MD7D	121.6 W (ERP)	1.0E-6 %

Grand Rapids (KENT), MI - NL 42-57-56; WL 85-42-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.5-28.35 GHz	FX	800MD7D	121.6 W (ERP)	1.0E-6 %

Grand Rapids (KENT), MI - NL 42-57-15; WL 85-40-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.5-28.35 GHz	FX	800MD7D	121.6 W (ERP)	1.0E-6 %

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.

Special Conditions:

- (3) Licensee must avoid pointing the main beam gain transmitting antenna within 10 degrees of any point on the geostationary orbital arc while transmitting signals in the 27.5-28.35 GHz band.
- (4) Licensee shall ensure that the transmitting fixed station antenna(s) tip down when possible and avoid pointing above the horizon to protect satellite stations.
- (5) The authorized station must be in compliance with environmental requirement set forth in Section 1.1307 of the Commission's Rules.
- (6) 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.
- (7) Operation is subject to prior coordination with the Fixed Microwave Service licensees in accordance with 47 CFR, Part 101.103(d) to protect the microwave operations in the proposed areas.
- (8) Stop buzzer point-of-contact is Todd Herring at (303) 345-7907 and Wireless Ops Hotline: (720) 536-9205.