

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

EXPERIMENTAL

(Nature of Service)

WL9XKD

(Call Sign)

XT FX MO

(Class of Station)

0828-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:

The testing will evaluate coverage, capacity, and propagation characteristics in the 3550-3700 MHz band.

Station Locations

- (1) Charlotte, NC - NL 35-13-25; WL 80-50-21; MOBILE: Charlotte, NC, within 12.87 km, centered around NL 35-13-25; WL 80-50-21

Frequency Information

Charlotte, NC - NL 35-13-25; WL 80-50-21; MOBILE: Charlotte, NC, within 12.87 km, centered around NL 35-13-25; WL 80-50-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3550-3700 MHz	FX	20M0W7W	2 W (ERP)	0.00001 %
3550-3700 MHz	FX	20M0W7W	100 W (ERP)	0.00001 %
3550-3700 MHz	FX	20M0W7W	100 W (ERP)	0.00001 %

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

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Charlotte, NC - NL 35-13-25; WL 80-50-21; MOBILE: Charlotte, NC, within 12.87 km, centered around NL 35-13-25; WL 80-50-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3550-3700 MHz	FX	20M0W9W	2 W (ERP)	0.0005 %
3550-3700 MHz	FX	80M0W9W	4 W (ERP)	0.0005 %
3550-3700 MHz	FX	80M0W9W	400 W (ERP)	0.0005 %
3550-3700 MHz	FX	20M0W7D	100 W (ERP)	0.00001 %
3550-3700 MHz	FX	20M0W7W	2 W (ERP)	0.002 %
3550-3700 MHz	FX	20M0W7W	100 W (ERP)	5.0E-6 %
3550-3700 MHz	FX	20M0G7W	100 W (ERP)	0.0005 %
3550-3700 MHz	FX	20M0W7D	2 W (ERP)	0.00001 %
3550-3700 MHz	FX	20M0W7D	100 W (ERP)	0.00001 %
3550-3700 MHz	FX	20M0W7D	2 W (ERP)	0.00001 %

Frequency Information

Charlotte, NC - NL 35-13-25; WL 80-50-21; MOBILE: Charlotte, NC, within 12.87 km, centered around NL 35-13-25; WL 80-50-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3550-3700 MHz	FX	18M5D7D	100 W (ERP)	5.0E-6 %
3550-3700 MHz	FX	60M0WXW	200 W (ERP)	5.0E-6 %
3550-3700 MHz	MO	20M0W7W	200 mW (ERP)	0.0001 %
3550-3700 MHz	MO	40M0W9W	200 mW (ERP)	0.0005 %
3550-3700 MHz	MO	40M0W9W	200 mW (ERP)	0.0005 %
3550-3700 MHz	MO	40M0W9W	200 mW (ERP)	0.0005 %
3550-3700 MHz	MO	20M0W7D	200 mW (ERP)	0.00001 %

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 of the experimental devices will be under control of CCO Fiberlink, LLC and they will be retrieved by CCO Fiberlink, LLC from the participants upon completion of the experiment.
- (4) 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.

Special Conditions:

- (5) 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 area.
- (6) Maintain operation separation from the grandfathered earth stations as defined in Part 90, Sub-part Z, or coordinate an agreement with the grandfathered earth station licensees prior to operation in 3550-3700 MHz band.
- (7) Licensee shall ensure that the operation will not cause harmful interference to any existing registered stations above 3700 MHz frequency, and notify the registered users in the proposed areas.
- (8) Ensure that the transmitting base station antenna(s) tip down when possible and avoid point towards the horizon in order to protect satellite earth stations nearby.
- (9) At least 3 business days prior to operating, CCO Fiberlink, LLC, must notify licensees of earth stations operating above 3700 MHz within 20 kilometers of the locations from which experimental operations will occur. CCO Fiberlink, 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 pattern, 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 MHz band.
- (10) Stop buzzer contact is Colleen King, CCO Fiberlink, LLC at (202) 621-1921 and email: colleen.king@charter.com.