

United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
RADIO STATION CONSTRUCTION PERMIT
AND LICENSE

EXPERIMENTAL

(Nature of Service)

XD FX

(Class of Station)

WJ2XRQ

(Call Sign)

0593-EX-CN-2018

(File Number)

NAME Cambridge Broadband Networks Ltd (CBNL)

Subject to the provisions of the Communications Act of 1934, subsequent acts, and treaties, and all regulations heretofore or hereafter made by this Commission, and further subject to the conditions and requirements set forth in this license, the licensee hereof is hereby authorized to use and operate the radio transmitting facilities hereinafter described for radio communications in accordance with the program of experimentation described by the licensee in its application for license.

Operation: In accordance with Sec. 5.3(j) of the Commission's Rules

Station Locations

- (1) Englewood, CO - NL 39-32-43; WL 104-51-20
- (2) Englewood (DENVER), CO - NL 39-32-49; WL 104-51-18
- (3) Englewood (DENVER), CO - NL 39-32-47; WL 104-51-17
- (4) Loveland (DENVER), CO - NL 40-25-52; WL 104-59-03
- (5) Loveland (DENVER), CO - NL 40-25-54; WL 104-59-03
- (6) Loveland (DENVER), CO - NL 40-25-54; WL 104-59-04

Frequency Information

Englewood, CO - NL 39-32-43; WL 104-51-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
12550-12685 MHz	FX	25M0G1W 25M0D1W	15.3 mW (ERP)	0.0015 %

This authorization effective October 02, 2018 and
will expire 3:00 A.M. EST December 01, 2018

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Englewood (DENVER), CO - NL 39-32-49; WL 104-51-18

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
12215-12350 MHz	FX	25M0G1W 25M0D1W	31 mW (ERP)	0.0015 %

Englewood (DENVER), CO - NL 39-32-47; WL 104-51-17

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
12215-12350 MHz	FX	25M0G1W 25M0D1W	31 mW (ERP)	0.0015 %

Loveland (DENVER), CO - NL 40-25-52; WL 104-59-03

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Special Conditions:

- (1) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (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) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) Operations must comply with the coordination agreements reached between Licensee and DIRECTV Enterprises, LLC ("DIRECTV") and EchoStar Broadcasting Holding Corporation.
- (5) The operating power must not exceed 14 dBm/25 MHz EIRP (AP) and 17 dBm/25 MHz (RT)
- (6) The stop buzzer contact for this project is Andrew Crisp, Phone: 0044(0)1223703000 Email: acrisp@cbnl.com.