

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

EXPERIMENTAL
(Nature of Service)

XD FX
(Class of Station)

WJ2XWL
(Call Sign)

0866-EX-CN-2018
(File Number)

NAME Midcontinent Communications

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) BISMARK (BURLEIGH), ND - NL 46-48-18; WL 100-48-04
- (2) MITCHELL (DAVISON), SD - NL 43-41-49; WL 98-00-46
- (3) BRECKINRIDGE (WILKIN), MN - NL 46-16-19; WL 96-33-51

Frequency Information

BISMARK (BURLEIGH), ND - NL 46-48-18; WL 100-48-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3700-4200 MHz	FX	20M0W7D	19.5 W (ERP)	7.75E-6 %

MITCHELL (DAVISON), SD - NL 43-41-49; WL 98-00-46

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
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This authorization effective November 21, 2018 and will expire 3:00 A.M. EST December 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

BRECKINRIDGE (WILKIN), MN - NL 46-16-19; WL 96-33-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3700-4200 MHz	FX	20M0W7D	19.5 W (ERP)	7.75E-6 %

Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (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) The licensee must coordinate with the Fixed Microwave Service licensees in accordance with 47 CFR.Part 101.103(d) prior to operation in 27.5-29.5 GHz band.
- (5) Prior to operating, Midcontinent communications must notify licensees of FSS earth stations operating the 3700 - 4200 MHz within 25 kilometers' radius of the locations from which experimental operations will occur. Furthermore, Midcontinent communications, must notify 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, antenna patterns, eirp density) and day and times of each test. Consult the IBFS database to identify licensed earth station in the band 3700-4200 MHz band.
- (6) Licensee shall ensure that the transmitting main beam gain antenna boresight of the fixed station tilt downward (below the horizon).
- (7) Licensee shall avoid pointing the transmit main beam antenna gain boresight above the horizon to protect satellite operations.
- (8) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.