

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

EXPERIMENTAL

(Nature of Service)

WL2XSL

(Call Sign)

XT      FX MO

(Class of Station)

0267-EX-CN-2021

(File Number)

NAME Prairie Hills Wireless, LLC

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(h, j) of the Commission's Rules

Station Locations

- (1) Pleasanton (BUFFALO), NE - NL 40-58-28; WL 99-05-28
- (2) Cairo (HALL), NE - NL 41-00-11; WL 98-36-19
- (3) MOBILE: Pleasanton, NE, within 8 km, centered around NL 40-58-28; WL 99-05-28
- (4) MOBILE: Cairo, NE, within 8 km, centered around NL 41-00-11; WL 98-36-19

Frequency Information

Pleasanton (BUFFALO), NE - NL 40-58-28; WL 99-05-28

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 5925-6400 MHz | FX            | 80M0D7D             | 206.46 mW (ERP)  |                           |

Cairo (HALL), NE - NL 41-00-11; WL 98-36-19

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 5925-6400 MHz | FX            | 80M0D7D             | 206.46 mW (ERP)  |                           |

This authorization effective June 04, 2021 and  
will expire 3:00 A.M. EST June 01, 2023

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

MOBILE: Pleasanton, NE, within 8 km, centered around NL 40-58-28; WL 99-05-28

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 5925-6400 MHz | MO            | 80M0D7D             | 4 W (ERP)        |                           |

MOBILE: Cairo, NE, within 8 km, centered around NL 41-00-11; WL 98-36-19

| Frequency     | Station Class | Emission Designator | Authorized Power | Frequency Tolerance (+/-) |
|---------------|---------------|---------------------|------------------|---------------------------|
| 5925-6400 MHz | MO            | 80M0D7D             | 4 W (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) Stop Buzzer: Kent L. Urwiller at 308-293-7629, support@prairiehillswireless.com
- (4) For operation in the 5925-6425 MHz frequency band, the maximum output power from the outdoor access points must not exceed 1 watt (30 dBm) into a 6 dBi antenna for a total of 36 dBm EIRP. In addition, the maximum power spectral density shall not exceed 23 dBm in any 1 megahertz band.
- (5) For operation in the 5925-6425 MHz frequency band, the radiated power from outdoor access points must not exceed 21 dBm EIRP at angles of more than 30 degrees above the horizon to protect satellite receivers.
- (6) Prairie Hills Wireless, LLC shall coordinate with the Fixed Microwave Service licensees in accordance with 47 C.F.R, Part 101.103(d) prior to commencing experimental operations.
- (7) This authorization SUPERSEDES the previously issued authorization with the same call sign and file number to correct the UNII-5 band requested. The frequency band 5850-5925 MHz shall be notched out.