

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

EXPERIMENTAL
(Nature of Service)

XD FX
(Class of Station)

WM2XVF
(Call Sign)

0505-EX-CR-2026
(File Number)

NAME Skybeam, 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(j) of the Commission's Rules

Station Locations

- (1) Manitou Springs (EL PASO), CO - NL 38-53-28; WL 104-54-42
- (2) Calahan (EL PASO), CO - NL 38-55-00; WL 104-25-36
- (3) Pueblo (PUEBLO), CO - NL 38-24-00; WL 104-43-51
- (4) Pueblo (PUEBLO), CO - NL 38-20-44; WL 104-46-57
- (5) Wigwam (EL PASO), CO - NL 38-34-19; WL 104-42-57
- (6) Wigwam (EL PASO), CO - NL 38-29-26; WL 104-42-35
- (7) Wigwam (EL PASO), CO - NL 38-23-27; WL 104-37-35

Frequency Information

Manitou Springs (EL PASO), CO - NL 38-53-28; WL 104-54-42

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6240-6400 MHz	FX	80M0D7D	2426.61 mW (ERP)	

This authorization effective August 01, 2026 and
will expire 3:00 A.M. ET August 01, 2028

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Calahan (EL PASO), CO - NL 38-55-00; WL 104-25-36

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6160-6400 MHz	FX	80M0D7D	2426.61 mW (ERP)	

Pueblo (PUEBLO), CO - NL 38-24-00; WL 104-43-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5960-6420 MHz	FX	80M0D7D	2426.61 mW (ERP)	

Pueblo (PUEBLO), CO - NL 38-20-44; WL 104-46-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6000-6380 MHz	FX	80M0D7D	2426.61 mW (ERP)	

Wigwam (EL PASO), CO - NL 38-34-19; WL 104-42-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6180-6420 MHz	FX	80M0D7D	2426.61 mW (ERP)	

Frequency Information

Wigwam (EL PASO), CO - NL 38-29-26; WL 104-42-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
6180-6420 MHz	FX	80M0D7D	2426.61 mW (ERP)	

Wigwam (EL PASO), CO - NL 38-23-27; WL 104-37-35

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5930-6090 MHz	FX	80M0D7D	2426.61 mW (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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (3) Licensee is required to coordinate operations with existing microwave users in the area to avoid interference.
- (4) Operation must not exceed the conducted power/input power/ output power and maximum EIRP limits of the Unlicensed Use of the 6 GHz Band, 35 FCC Rcd 3852, 3853 (2020), including footnote 34.
- (5) The operation is limited to outdoor testing. There are 7 locations and 28 distinct sectors radios (AP), using different frequencies and 420 CPE units averages only 15 units per sector for trial tests - See Below.

Special Conditions:

- (6) Licensee is authorized to conduct outdoor tests on (28) fixed Mimosa A5c access point (AP) antennas and (420) Mimosa C5x customer premise equipment (CPE) operating in the 5930-6090 MHz, 5960-6420 MHz, 6000-6380 MHz, 6240-6400 MHz, 6160-6400 MHz, and 6180-6420 MHz portion of 5.925-6.425 GHz (U-NII-5) frequency band. The field deployment and testing of Mimosa Network's 6 GHz radio technology on seven towers at rural sites in Colorado is subject to the following:

Location (6)

Wigwam, EL PASO, CO- NL 38-29-26; WL 104-42-35 / NL 38-29-25.72; WL 104-42-34.75

Frequency	Station Class	Emission Designator	Authorized Power
6180-6420 MHz	FX	80M0D7D	2426.61mW (ERP)

Location (5)

Wigwam, EL PASO, CO- NL 38-34-19; WL 104-42-57 / NL 38-34-18.77; WL 104-42-57.12

Frequency	Station Class	Emission Designator	Authorized Power
6180-6420 MHz	FX	80M0D7D	2426.61mW (ERP)

Location (4)

Pueblo, PUEBLO, CO- NL 38-20-44; WL 104-46-57 / NL 38-20-44.49; WL 104-46-57.07

Frequency	Station Class	Emission Designator	Authorized Power
6000-6380 MHz	FX	80M0D7D	2426.61mW (ERP)

Location (1)

Manitou Springs, EL PASO, CO- NL 38-53-28; WL 104-54-42 / NL 38-53-27.83; WL 104-54-42.20

Frequency	Station Class	Emission Designator	Authorized Power
6240-6400 MHz	FX	80M0D7D	2426.61mW (ERP)

Special Conditions:

- (7) Licensee is authorized to conduct outdoor tests on (16) fixed Mimosa A5c access point (AP) antennas operating in the 6000-6380 MHz, 6180-6420 MHz, and 6240-6400 MHz frequency bands. The (4) fixed Mimosa A5c access point (AP) antennas will be used as outdoor standard power access point (AFC Controlled) and mounted on (4) fixed towers (four A5c on each tower) located at Wigwam, EL PASO, CO- NL 38-29-26; WL 104-42-35; Wigwam, EL PASO, CO- NL 38-34-19; WL 104-42-57; Pueblo, PUEBLO, CO- NL 38-20-44; WL 104-46-57, and Manitou Springs, EL PASO, CO- NL 38-53-28; WL 104-54-42. The Maximum output power of fixed Mimosa A5c antenna (with antenna gain of 18 dBi) must not exceed 63mW/0.063W/18dBm/-12dBW. The Maximum EIRP must not exceed 2.43W ERP/4 watts/36 dBm/6dBW. In addition, the maximum power spectral density shall not exceed 23 dBm (200mW) in any 1-megahertz band:

Antenna Gain	output power	Maximum EIRP
18dBi	63mW/0.063W/18dBm/-12dBW	2.43W ERP/4 watts/36 dBm/6dBW

- (8) Licensee is authorized to conduct outdoor tests on (240) fixed Mimosa C5x customer premise equipment (CPE) (remote units) operating in the 6000-6380 MHz, 6180-6420 MHz, and 6240-6400 MHz frequency bands. The fixed Mimosa C5x antenna will be used as fixed client device and installed on fixed structure located at customer location; within 3 miles radius, center around coordinates- NL 38-29-26; WL 104-42-35; NL 38-34-19; WL 104-42-57; NL 38-20-44; WL 104-46-57, and NL 38-53-28; WL 104-54-42 of the 4 fixed tower locations (a total of 240 C5x antennas for the four locations (60 C5x per site)). The Maximum output power of fixed Mimosa C5x antenna (with antenna gain of 25 dBi) must not exceed 12.6mW/0.0126W/11dBm/-19dBW. The Maximum EIRP must not exceed 2.43W ERP/4 watts/36 dBm/6dBW. In addition, the maximum power spectral density shall not exceed 23 dBm (200mW) in any 1-megahertz band:

Antenna Gain	output power	Maximum EIRP
25dBi	12.6mW/0.0126W/11dBm/-19dBW	2.43W ERP/4 watts/36 dBm/6dBW

Location (7)

Wigwam, EL PASO, CO- NL 38-23-27; WL 104-37-35 / NL 38-23-26.63; WL 104-37-35.47

Frequency	Station Class	Emission Designator	Authorized
Power			
5930-6090 MHz	FX	80M0D7D	
2426.61mW (ERP)			

Location (3)

Pueblo, PUEBLO, CO- NL 38-24-00; WL 104-43-51 / 38-24-0.14; WL 104-43-51.43

Frequency	Station Class	Emission Designator	Authorized
Power			
5960-6420 MHz	FX	80M0D7D	
2426.61mW (ERP)			

Special Conditions:

- (9) Licensee is authorized to conduct outdoor tests on (6) fixed Mimosa A5c access point (AP) antennas operating in the 5930-6090 MHz, and 5960-6420 MHz frequency bands. The fixed Mimosa A5c access point (AP) antennas will be used as outdoor standard power access point (AFC Controlled) and mounted on 2 fixed towers (three A5c on each tower) located at Wigwam, EL PASO, CO- NL 38-23-27; WL 104-37-35; and Pueblo, PUEBLO, CO- NL 38-24-00; WL 104-43-51. The Maximum output power of fixed Mimosa A5c antenna (with antenna gain of 18 dBi) must not exceed 63mW/0.063W/18dBm/-12dBW. The Maximum EIRP must not exceed 2.43W ERP/4 watts/36 dBm/6dBW. In addition, the maximum power spectral density shall not exceed 23 dBm (200mW) in any 1-megahertz band:

Antenna Gain	output power	Maximum EIRP
18dBi	63mW/0.063W/18dBm/-12dBW	2.43W ERP/4 watts/36 dBm/6dBW

- (10) Licensee is authorized to conduct outdoor tests on (90) fixed Mimosa C5x customer premise equipment (CPE) (remote units) operating in the 5930-6090 MHz, and 5960-6420 MHz frequency bands. The fixed Mimosa C5x antenna will be used as fixed client device and installed on fixed structure located at customer location; within 3 miles radius, center around coordinates- NL 38-23-27; WL 104-37-35 and NL 38-24-00; WL 104-43-51 of the two fixed tower locations (a total of 90 C5x antennas for the two locations (45 C5x per site)). The Maximum output power of fixed Mimosa C5x antenna (with antenna gain of 25 dBi) must not exceed 12.6mW/0.0126W/11dBm/-19dBW. The Maximum EIRP must not exceed 2.43W ERP/4 watts/36 dBm/6dBW. In addition, the maximum power spectral density shall not exceed 23 dBm (200mW) in any 1-megahertz band:

Antenna Gain	output power	Maximum EIRP
25dBi	12.6mW/0.0126W/11dBm/-19dBW	2.43W ERP/4 watts/36 dBm/6dBW

Location (2)

Calahan, EL PASO, CO- NL 38-55-00; WL 104-25-36 / NL 38-55-0.46; WL 104-25-36.01

Frequency	Station Class	Emission Designator	Authorized
Power			
6160-6400 MHz	FX	80M0D7D	
2426.61mW (ERP)			

- (11) Licensee is authorized to conduct outdoor tests on (6) fixed Mimosa A5c access point (AP) antennas operating in the 6160-6400 MHz frequency band. The (6) fixed Mimosa A5c access point (AP) antennas will be used as outdoor standard power access point (AFC Controlled) and mounted on 1 fixed tower located at Calahan, EL PASO, CO- NL 38-55-00; WL 104-25-36. The Maximum output power of fixed Mimosa A5c antenna (with antenna gain of 18 dBi) must not exceed 63mW/0.063W/18dBm/-12dBW. The Maximum EIRP must not exceed 2.43W ERP/4 watts/36 dBm/6dBW. In addition, the maximum power spectral density shall not exceed 23 dBm (200mW) in any 1-megahertz band:

Antenna Gain	output power	Maximum EIRP
18dBi	63mW/0.063W/18dBm/-12dBW	2.43W ERP/4 watts/36 dBm/6dBW

Special Conditions:

- (12) Licensee is authorized to conduct outdoor tests on (90) fixed Mimosa C5x customer premise equipment (CPE) (remote units) operating in the 6160-6400 MHz frequency band. The fixed Mimosa C5x antenna will be used as fixed client device and installed on fixed structure located at customer location; within 3 miles radius, center around coordinates- NL 38-55-00; WL 104-25-36 of the fixed tower location (a total of 90 C5x antennas for one location). The Maximum output power of fixed Mimosa C5x antenna (with antenna gain of 25 dBi) must not exceed 12.6mW/0.0126W/11dBm/-19dBW. The Maximum EIRP must not exceed 2.43W ERP/4 watts/36 dBm/6dBW. In addition, the maximum power spectral density shall not exceed 23 dBm (200mW) in any 1-megahertz band:

Antenna Gain output power

Maximum EIRP

25dBi 12.6mW/0.0126W/11dBm/-19dBW 2.43W ERP/4 watts/36 dBm/6dBW

- (13) For conducting outdoor tests in the 5.925-6.425 GHz (U-NII-5) frequency band, the maximum EIRP from a Standard-Power Access Point (AFC Controlled) and fixed client device must not exceed 125 mW (21 dBm) at any elevation angle of more than 30 degrees above the horizon to protect satellite receivers.
- (14) For transmitters operating within the 5.925-6.425 GHz (U-NII-5) frequency band: Any emissions outside of the 5.925-6.425 GHz (U-NII-5) must not exceed an EIRP of -27 dBm /MHz (The -27 dBm is equivalent to 0.000002 W).