

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

EXPERIMENTAL

(Nature of Service)

WI2XEB

(Call Sign)

XT FX MO

(Class of Station)

0286-EX-CM-2017

(File Number)

NAME Starry Spectrum 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(e, f, j & k) of the Commission's Rules

Station Locations

- (1) Boston, MA - NL 42-21-01; WL 71-03-25
- (2) New York, NY - NL 40-42-46; WL 74-00-22; MOBILE: Temporary fixed end user stations in NYC area, within 40 km, centered around NL 40-42-46; WL 74-00-22
- (3) Washington, DC - NL 38-54-17; WL 77-00-59; MOBILE: Temporary fixed end user stations in DC area, within 40 km
- (4) Los Angeles, CA - NL 34-03-00; WL 118-15-00; MOBILE: Temporary fixed end user stations in LA area, within 40 km
- (5) San Francisco, CA - NL 37-47-00; WL 122-25-00; MOBILE: Temporary fixed end user stations in SF area, within 40 km
- (6) Dallas, TX - NL 32-46-33; WL 96-47-48; MOBILE: Temporary fixed end user stations in DFW area, within 40 km
- (7) Houston, TX - NL 29-45-46; WL 95-22-59; MOBILE: Temporary fixed end user stations in Houston area, within 40 km
- (8) Philadelphia, PA - NL 39-57-00; WL 75-10-00; MOBILE: Temporary fixed end user stations in area, within 40 km, centered around NL 39-57-00; WL 75-10-00
- (9) Detroit, MI - NL 42-19-53; WL 83-02-45; MOBILE: Temporary fixed end user stations in Detroit area, within 40 km
- (10) Atlanta, GA - NL 33-45-18; WL 84-23-24; MOBILE: Temporary fixed end user stations in Atlanta area, within 40 km
- (11) Miami, FL - NL 25-46-31; WL 80-12-32; MOBILE: Temporary fixed end user stations in Miami area, within 40 km
- (12) Minneapolis St Paul, MN - NL 44-59-00; WL 93-16-00; MOBILE: Temporary fixed end user stations in Minneapolis-St. Paul area, within 40 km
- (13) Seattle, WA - NL 47-36-35; WL 122-19-59; MOBILE: Temporary fixed end user stations in Seattle area, within 40 km

This authorization effective March 08, 2018 and
will expire 3:00 A.M. EST February 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Station Locations

- (14) Denver, CO - NL 39-45-43; WL 104-52-52; MOBILE: Temporary fixed end user stations in Denver area, within 40 km
- (15) Chicago, IL - NL 41-50-13; WL 87-41-05; MOBILE: Temporary fixed end user stations in Chicago area, within 40 km
- (16) Cleveland, OH - NL 41-21-04; WL 81-38-58; MOBILE: Temporary fixed end user stations in Cleveland, within 40 km, centered around NL 41-21-04; WL 81-38-58
- (17) Indianapolis, IN - NL 39-46-03; WL 86-09-29; MOBILE: Temporary fixed end user stations in Indianapolis, within 40 km, centered around NL 39-46-03; WL 86-09-29
- (18) Sioux Falls (MINNEHAHA), SD - NL 43-32-41; WL 96-43-52; MOBILE: , within 40 km, centered around NL 43-32-41; WL 96-43-52
- (19) Portland (MULTNOMAH), OR - NL 45-32-41; WL 122-40-35; MOBILE: , within 40 km, centered around NL 45-32-41; WL 122-40-35
- (20) Manchester (HILLSBOROUGH), NH - NL 42-59-44; WL 71-27-17; MOBILE: Temp fixed end user locations in Manchester area, within 40 km, centered around NL 42-59-44; WL 71-27-17
- (21) Phoenix (MARICOPA), AZ - NL 33-26-54; WL 112-04-26; MOBILE: Temp fixed end user locations in Phoenix area, within 40 km, centered around NL 33-26-54; WL 112-04-26
- (22) Memphis (SHELBY), TN - NL 35-08-58; WL 90-02-56; MOBILE: Temp fixed end user locations in Memphis area, within 40 km, centered around NL 35-08-58; WL 90-02-56

Frequency Information

Boston, MA - NL 42-21-01; WL 71-03-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37000-38600 MHz	FX	200MD7D	1 kW (ERP)	

New York, NY - NL 40-42-46; WL 74-00-22; MOBILE: Temporary fixed end user stations in NYC area, within 40 km, centered

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37000-38600 MHz	FX	200MD7D	1 kW (ERP)	

Frequency Information

Washington, DC - NL 38-54-17; WL 77-00-59; MOBILE: Temporary fixed end user stations in DC area, within 40 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37000-38600 MHz	FX	200MD7D	1 kW (ERP)	

Los Angeles, CA - NL 34-03-00; WL 118-15-00; MOBILE: Temporary fixed end user stations in LA area, within 40 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37000-38600 MHz	FX	200MD7D	1 kW (ERP)	

San Francisco, CA - NL 37-47-00; WL 122-25-00; MOBILE: Temporary fixed end user stations in SF area, within 40 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37000-38600 MHz	FX	200MD7D	1 kW (ERP)	

Dallas, TX - NL 32-46-33; WL 96-47-48; MOBILE: Temporary fixed end user stations in DFW area, within 40 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37000-38600 MHz	FX	200MD7D	1 kW (ERP)	

Frequency Information

Houston, TX - NL 29-45-46; WL 95-22-59; MOBILE: Temporary fixed end user stations in Houston area, within 40 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37000-38600 MHz	FX	200MD7D	1 kW (ERP)	

Philadelphia, PA - NL 39-57-00; WL 75-10-00; MOBILE: Temporary fixed end user stations in area, within 40 km, centered arc

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37000-38600 MHz	FX	200MD7D	1 kW (ERP)	

Detroit, MI - NL 42-19-53; WL 83-02-45; MOBILE: Temporary fixed end user stations in Detroit area, within 40 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37000-38600 MHz	FX	200MD7D	1 kW (ERP)	

Atlanta, GA - NL 33-45-18; WL 84-23-24; MOBILE: Temporary fixed end user stations in Atlanta area, within 40 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37000-38600 MHz	FX	200MD7D	1 kW (ERP)	

Frequency Information

Miami, FL - NL 25-46-31; WL 80-12-32; MOBILE: Temporary fixed end user stations in Miami area, within 40 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37000-38600 MHz	FX	200MD7D	1 kW (ERP)	

Minneapolis St Paul, MN - NL 44-59-00; WL 93-16-00; MOBILE: Temporary fixed end user stations in Minneapolis-St. Paul area, within 40 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37000-38600 MHz	FX	200MD7D	1 kW (ERP)	

Seattle, WA - NL 47-36-35; WL 122-19-59; MOBILE: Temporary fixed end user stations in Seattle area, within 40 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37000-38600 MHz	FX	200MD7D	1 kW (ERP)	

Denver, CO - NL 39-45-43; WL 104-52-52; MOBILE: Temporary fixed end user stations in Denver area, within 40 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37000-38600 MHz	FX	200MD7D	1 kW (ERP)	

Frequency Information

Chicago, IL - NL 41-50-13; WL 87-41-05; MOBILE: Temporary fixed end user stations in Chicago area, within 40 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37000-38600 MHz	FX	200MD7D	1 kW (ERP)	

Cleveland, OH - NL 41-21-04; WL 81-38-58; MOBILE: Temporary fixed end user stations in Cleveland, within 40 km, centered

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37000-38600 MHz	FX	200MD7D	1 kW (ERP)	

Indianapolis, IN - NL 39-46-03; WL 86-09-29; MOBILE: Temporary fixed end user stations in Indianapolis, within 40 km, cente

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37000-38600 MHz	FX	200MD7D	1 kW (ERP)	

Sioux Falls (MINNEHAHA), SD - NL 43-32-41; WL 96-43-52; MOBILE: , within 40 km, centered around NL 43-32-41; WL 96-4

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37000-38600 MHz	FX	200MD7D	1 kW (ERP)	

Frequency Information

Portland (MULTNOMAH), OR - NL 45-32-41; WL 122-40-35; MOBILE: , within 40 km, centered around NL 45-32-41; WL 122-

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37000-38600 MHz	FX	200MD7D	1 kW (ERP)	

Manchester (HILLSBOROUGH), NH - NL 42-59-44; WL 71-27-17; MOBILE: Temp fixed end user locations in Manchester are

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37000-38600 MHz	FX	200MD7D	1 kW (ERP)	

Phoenix (MARICOPA), AZ - NL 33-26-54; WL 112-04-26; MOBILE: Temp fixed end user locations in Phoenix area, within 40 k

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37000-38600 MHz	FX	200MD7D	1 kW (ERP)	

Memphis (SHELBY), TN - NL 35-08-58; WL 90-02-56; MOBILE: Temp fixed end user locations in Memphis area, within 40 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
37000-38600 MHz	FX	200MD7D	1 kW (ERP)	

Special Conditions:

- (1) Licensee is required to file a PROGRESS REPORT every 12 months from the date of grant. This progress report shall be filed with Federal Communications Commission; Experimental Licensing Branch, MS 1300E1; 445 12 Street, S.W.; Washington, DC 20554.
- (2) The station identification requirements of Section 5.115 of the Commission's Rules are waived.

Special Conditions:

- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (4) All transmitting and/or receiving equipment used in the study shall be owned by the licensee.
- (5) Licensee is required to ensure that trial devices are either rendered inoperable or retrieved by them from trial participants at the conclusion of the trial. Licensee is required to notify trial participants in advance that operation of the trial device is subject to this condition.
- (6) The market trials authorized under this license are limited to a maximum of 540 temporary base stations and 7200 temporary fixed end user devices operating at any given time.
- (7) Prior to operation, licensee must coordinate with licensed Part 25 stations authorized to operate in these frequency bands that are located within a within a 40 km radius of the transmitter.