

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

EXPERIMENTAL

(Nature of Service)

XT FX MO

(Class of Station)

WH2XTM

(Call Sign)

0261-EX-CR-2019

(File Number)

NAME 3M Company

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) of the Commission's Rules

Station Locations

- (1) Austin (TRAVIS), TX - NL 30-23-37; WL 97-50-15; MOBILE: Austin, TX, within 5 km, centered around NL 30-23-37; WL 97-50-15
- (2) Cottage Grove (WASHINGTON), MN - NL 44-47-56; WL 92-55-09; MOBILE: Cottage Grove, MN, within 5 km, centered around NL 44-47-56; WL 92-55-09
- (3) Morrisville, NC - NL 35-51-19; WL 78-49-12; MOBILE: Morrisville, NC, within 5 km, centered around NL 35-51-19; WL 78-49-12
- (4) St Paul (RAMSEY), MN - NL 44-57-09; WL 92-59-44; MOBILE: 3M Center Site, St Paul, MN, within 5 km, centered around NL 44-57-09; WL 92-59-44
- (5) Austin (TRAVIS), TX - NL 30-23-37; WL 97-50-15; MOBILE: 3M Austin Center campus, Austin, TX, within 10 km, centered around NL 30-23-37; WL 97-50-15
- (6) Morrisville (WAKE), NC - NL 35-51-19; WL 78-49-12; MOBILE: Morrisville, NC, within 5 km, centered around NL 35-51-19; WL 78-49-12
- (7) Cottage Grove (WASHINGTON), MN - NL 44-47-56; WL 92-55-09; MOBILE: Cottage Grove, MN, within 10 km, centered around NL 44-47-56; WL 92-55-09
- (8) St Paul (RAMSEY), MN - NL 44-57-09; WL 92-59-44; MOBILE: St Paul, MN, within 10 km, centered around NL 44-57-09; WL 92-52-44
- (9) St. Paul (RAMSEY), MN - NL 44-57-09; WL 92-59-44; MOBILE: St. Paul, MN, within 5 km, centered around NL 44-57-09; WL 92-59-44

This authorization effective June 01, 2019 and
will expire 3:00 A.M. EST June 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Austin (TRAVIS), TX - NL 30-23-37; WL 97-50-15; MOBILE: Austin, TX, within 5 km, centered around NL 30-23-37; WL 97-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
902.75-903.25 MHz	FX	399KK1D	30 W (ERP)	0.001 %
910.95-920.45 MHz	FX	422KK1D	30 W (ERP)	0.001 %
911.75-919.25 MHz	FX	K1D	30 W (ERP)	0.001 %
914.25-915.75 MHz	FX	758KK1D	30 W (ERP)	0.001 %

Cottage Grove (WASHINGTON), MN - NL 44-47-56; WL 92-55-09; MOBILE: Cottage Grove, MN, within 5 km, centered around

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
902.75-903.25 MHz	FX	399KK1D	30 W (ERP)	0.001 %
910.95-920.45 MHz	FX	422KK1D	30 W (ERP)	0.001 %
911.75-919.25 MHz	FX	K1D	30 W (ERP)	0.001 %
914.25-915.75 MHz	FX	758KK1D	30 W (ERP)	0.001 %

Frequency Information

Morrisville, NC - NL 35-51-19; WL 78-49-12; MOBILE: Morrisville, NC, within 5 km, centered around NL 35-51-19; WL 78-49-1

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
911.75-919.25 kHz	FX	K1D	30 W (ERP)	0.001 %
902.75-903.25 MHz	FX	399KK1D	30 W (ERP)	0.001 %
910.95-920.45 MHz	FX	422KK1D	30 W (ERP)	0.001 %
914.25-915.75 MHz	FX	758KK1D	30 W (ERP)	0.001 %

St Paul (RAMSEY), MN - NL 44-57-09; WL 92-59-44; MOBILE: 3M Center Site, St Paul, MN, within 5 km, centered around NL

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
910.95-920.45 MHz	MO	422KK1D	30 W (ERP)	0.001 %

Austin (TRAVIS), TX - NL 30-23-37; WL 97-50-15; MOBILE: 3M Austin Center campus, Austin,TX, within 10 km, centered aro

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.85-5.925 GHz	MO	16M7D1D 8M27D1D	2.45 W (ERP)	0.00018 %
5.85-5.925 GHz	FX	16M7D1D 8M27D1D	2.45 W (ERP)	0.00018 %

Frequency Information

Morrisville (WAKE), NC - NL 35-51-19; WL 78-49-12; MOBILE: Morrisville, NC, within 5 km, centered around NL 35-51-19; WL

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.85-5.925 GHz	MO	16M7D1D 8M27D1D	2.45 W (ERP)	1.8E-6 %
5.85-5.925 GHz	FX	16M7D1D 8M27D1D	2.45 W (ERP)	1.8E-6 %

Cottage Grove (WASHINGTON), MN - NL 44-47-56; WL 92-55-09; MOBILE: Cottage Grove, MN, within 10 km, centered around NL 44-47-56; WL

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.85-5.925 GHz	MO	8M27D1D 16M7D1D	2.45 W (ERP)	0.00018 %
5.85-5.925 GHz	FX	16M7D1D 8M27D1D	2.45 W (ERP)	0.00018 %

St Paul (RAMSEY), MN - NL 44-57-09; WL 92-59-44; MOBILE: St Paul, MN, within 10 km, centered around NL 44-57-09; WL

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.85-5.925 GHz	FX	16M7D1D 8M27D1D	2.45 W (ERP)	0.00018 %
5.85-5.925 GHz	MO	16M7D1D 8M27D1D	2.45 W (ERP)	0.00018 %

Frequency Information

St. Paul (RAMSEY), MN - NL 44-57-09; WL 92-59-44; MOBILE: St. Paul, MN, within 5 km, centered around NL 44-57-09; WL

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
902.75-903.25 MHz	FX	399KK1D	30 W (ERP)	0.001 %
911.75-919.25 MHz	FX	422KK1D	30 W (ERP)	0.001 %
914.25-915.75 MHz	FX	758KK1D	30 W (ERP)	0.001 %

Special Conditions:

- (1) 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.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.