

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

EXPERIMENTAL

(Nature of Service)

XT FX MO

(Class of Station)

WI2XFM

(Call Sign)

0027-EX-CM-2019

(File Number)

NAME AT&T Services, Inc.

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) Austin (TRAVIS), TX - NL 30-23-28; WL 97-45-05
- (2) Austin (TRAVIS), TX - NL 30-23-28; WL 97-45-05
- (3) MOBILE: Austin, TX, within 5 km, centered around NL 30-23-28; WL 97-45-05
- (4) Austin (TRAVIS), TX - NL 30-23-28; WL 97-45-05
- (5) MOBILE: Within 5 km of base, within 5 km, centered around NL 30-23-28; WL 97-45-05
- (6) MOBILE: Within 5 km of base, within 5 km, centered around NL 30-23-28; WL 97-45-05
- (7) Austin (TRAVIS), TX - NL 30-23-28; WL 97-45-05
- (8) MOBILE: Within 5 km of base, within 5 km, centered around NL 30-23-28; WL 97-45-05
- (9) MOBILE: Within 5 km of base, within 5 km, centered around NL 30-23-28; WL 97-45-05

Frequency Information

Austin (TRAVIS), TX - NL 30-23-28; WL 97-45-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3400-3600 MHz	FX	100MW7W 100MG7W 100MK1W	200 W (ERP)	
3400-3600 MHz	MO	100MW7W 100MG7W	0.04 W (ERP)	

This authorization effective June 19, 2019 and
will expire 3:00 A.M. EST May 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Austin (TRAVIS), TX - NL 30-23-28; WL 97-45-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
3400-3600 MHz	MO	100MK1W	0.04 W (ERP)	
3700-4200 MHz	FX	400MW7W	20 W (ERP)	
3700-4200 MHz	MO	400MW7W	20 W (ERP)	
14500-15350 MHz	FX	800MW7W	100 W (ERP)	
14500-15350 MHz	MO	800MW7W	0.63 W (ERP)	
27500-28500 MHz	FX	800MW7W	400 W (ERP)	
27500-28500 MHz	MO	800MW7W	2.5 W (ERP)	

Austin (TRAVIS), TX - NL 30-23-28; WL 97-45-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
38500 MHz	FX	3G00W7W	398.1 W (ERP)	0.001 %

Frequency Information

MOBILE: Austin, TX, within 5 km, centered around NL 30-23-28; WL 97-45-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
38500 MHz	MO	3G00W7W	2.51 W (ERP)	0.001 %

MOBILE: Within 5 km of base, within 5 km, centered around NL 30-23-28; WL 97-45-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24250-27500 MHz	MO	100MW7W	19 W (ERP)	0.001 %

MOBILE: Within 5 km of base, within 5 km, centered around NL 30-23-28; WL 97-45-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
24250-27500 MHz	MO	100MW7W	190 W (ERP)	0.001 %

Austin (TRAVIS), TX - NL 30-23-28; WL 97-45-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4400-4990 MHz	FX	100MW7W	30 kW (ERP)	0.001 %

Frequency Information

MOBILE: Within 5 km of base, within 5 km, centered around NL 30-23-28; WL 97-45-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4400-4990 MHz	MO	100MW7W	61 W (ERP)	0.001 %

MOBILE: Within 5 km of base, within 5 km, centered around NL 30-23-28; WL 97-45-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4400-4990 MHz	MO	100MW7W	200 W (ERP)	0.001 %

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) Licensee must coordinate with all earth station operating in the 3650-4200 MHz band pursuant to 47 C.F.R. §25.251
- (5) Licensee shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (6) Licensee must avoid pointing the transmitting antenna within 10 degrees of any point on the geostationary orbit arc while transmitting the signals at the 38.5 GHz band.
- (7) AT&T Services, Inc. must coordinate with the Fixed Microwave Service licensees around each test site in accordance with 47 CFR, Part 101.103(d) prior to operation in 3700-4200 MHz, 24250-27500 MHz, 27500-28500 MHz, and 37000-40000 MHz (38500 MHz) bands.
- (8) AT&T Services, Inc. is required to maintain a roll-off value of -57 dBW/200 MHz or lower in the 23.6-24 GHz band to avoid causing RFI to the microwave sounders supporting NOAA.