

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

EXPERIMENTAL

(Nature of Service)

WI2XYW

(Call Sign)

XT FX MO

(Class of Station)

0090-EX-TC-2018

(File Number)

NAME T-Mobile US, 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(h) of the Commission's Rules

Station Locations

- (1) San Francisco (SAN FRANCISCO), CA - NL 37-46-50; WL 122-24-28; MOBILE: , within 2 km, centered around NL 37-46-50; WL 122-24-28
- (2) San Francisco (SAN FRANCISCO), CA - NL 37-46-51; WL 122-24-14; MOBILE: , within 2 km, centered around NL 37-46-51; WL 122-24-14
- (3) San Francisco (SAN FRANCISCO), CA - NL 37-46-47; WL 122-24-13; MOBILE: , within 2 km, centered around NL 37-46-47; WL 122-24-13
- (4) San Francisco (SAN FRANCISCO), CA - NL 37-46-50; WL 122-24-28; MOBILE: , within 2 km, centered around NL 37-46-50; WL 122-24-28
- (5) San Francisco (SAN FRANCISCO), CA - NL 37-46-50; WL 122-24-28; MOBILE: , within 2 km, centered around NL 37-46-50; WL 122-24-28
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- (7) San Francisco (SAN FRANCISCO), CA - NL 37-46-51; WL 122-24-14; MOBILE: , within 2 km, centered around NL 37-46-51; WL 122-24-14
- (8) San Francisco (SAN FRANCISCO), CA - NL 37-46-47; WL 122-24-13; MOBILE: , within 2 km, centered around NL 37-46-47; WL 122-24-13
- (9) San Francisco (SAN FRANCISCO), CA - NL 37-46-47; WL 122-24-13; MOBILE: , within 2 km, centered around NL 37-46-47; WL 122-24-13

This authorization effective March 04, 2019 and
will expire 3:00 A.M. EST August 01, 2019

FEDERAL
COMMUNICATIONS
COMMISSION



Frequency Information

San Francisco (SAN FRANCISCO), CA - NL 37-46-50; WL 122-24-28; MOBILE: , within 2 km, centered around NL 37-46-50;

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27.5-28.35 GHz	FX	800MW7W	400 W (ERP)	
27.5-28.35 GHz	MO	800MW7W	80 W (ERP)	
37-38.6 GHz	FX	1G20W7W	400 W (ERP)	
37-38.6 GHz	MO	1G20W7W	80 W (ERP)	
38.6-40 GHz	FX	1G20W7W	400 W (ERP)	
38.6-40 GHz	MO	1G20W7W	80 W (ERP)	

San Francisco (SAN FRANCISCO), CA - NL 37-46-51; WL 122-24-14; MOBILE: , within 2 km, centered around NL 37-46-51;

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27.5-28.35 GHz	MO	800MW7W	80 W (ERP)	
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San Francisco (SAN FRANCISCO), CA - NL 37-46-47; WL 122-24-13; MOBILE: , within 2 km, centered around NL 37-46-47;

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27-28.35 GHz	MO	800MW7W	80 W (ERP)	
27.5-28.35 GHz	FX	800MW7W	400 W (ERP)	
37-38.6 GHz	FX	1G20W7W	400 W (ERP)	
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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.
- (3) All customers participating in the experiment shall be informed that this operation is for experimental purposes only and can be cancelled at any time.
- (4) T-Mobile coordinate with the Fixed Microwave Service licensees in accordance with 47 CFR, Part 101.103(d) prior to commencing experimental operations.
- (5) Experimental station 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 main beam gain within 10 degrees of any point on the geostationary orbital arc while transmitting signals in the 27.5-28.35 GHz and 37-40 GHz bands.
- (7) Licensee shall ensure that the transmitting fixed station antenna(s) main beam gain tip down when possible and avoid pointing above the horizon to protect satellite stations.
- (8) No automatic renewal for operations in the 27.5-28.35 GHz and 37-40 GHz bands.
- (9) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (10) Operations are on a non-interference basis (NIB) and shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing.
- (11) Prior to operation, the applicant must coordinate with stations authorized to operate in these frequency bands that are located within a within a 25 mile radius of the transmitter.