

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

EXPERIMENTAL

(Nature of Service)

XT FX MO

(Class of Station)

WI2XCS

(Call Sign)

0005-EX-AL-2018

(File Number)

NAME Loon 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(a & j) of the Commission's Rules

Station Locations

- (1) MOBILE: United States (All 50) and Puerto Rico: max altitude 75,459 ft AGL
- (2) All 50 States & Puerto Rico, US

Frequency Information

MOBILE: United States (All 50) and Puerto Rico: max altitude 75,459 ft AGL

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
71-76 GHz	MO	60M0D1D 580MD1D	7.67689 kW (ERP)	
81-86 GHz	MO	60M0D1D 580MD1D	7.67689 kW (ERP)	

This authorization effective August 20, 2018 and
will expire 3:00 A.M. EST April 01, 2021

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

All 50 States & Puerto Rico, US

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
71-76 GHz	FX	60M0D1D 580MD1D	192.8348 kW (ERP)	
81-86 GHz	FX	60M0D1D 580MD1D	192.8348 kW (ERP)	

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) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (4) The power flux density (pfd) produced at or beyond the Canadian border shall not exceed -136 dBW/m²/Hz.
- (5) The grant to Loon is on an unprotected basis and is conditioned on not causing any harmful interference to other Commission authorized operation.
- (6) Loon shall use the data from a Commission-authorized third-party database manager to determine and ensure that operation under this experimental license complies with the interference protection criteria of 47 C.F.R. § 101.105(a)(5)(i).
- (7) Operation under this license shall comply with the RF safety standards set forth in FCC rule section 101.1525 (47 CFR § 101.1525).