

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

EXPERIMENTAL

(Nature of Service)

XD FX MO

(Class of Station)

WK2XVB

(Call Sign)

0069-EX-CN-2020

(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(j) of the Commission's Rules

Station Locations

- (1) Fajardo, PR - NL 18-14-45; WL 65-38-15
- (2) MOBILE: Fajardo, PR. 200 km radius; max alt 75,500 ft AGL (See Ex. B), within 200 km, centered around NL 18-14-45; WL 65-38-15
- (3) MOBILE: Fajardo, PR. Shipborne antenna; 200 km radius (see Ex. B), within 200 km, centered around NL 18-14-45; WL 65-38-14

Frequency Information

Fajardo, PR - NL 18-14-45; WL 65-38-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
81000-86000 MHz	FX	750MD1D	76.769 kW (ERP)	0.00001 %

MOBILE: Fajardo, PR. 200 km radius; max alt 75,500 ft AGL (See Ex. B), within 200 km, centered around NL 18-14-45; WL 65-38-15

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
71000-76000 MHz	MO	750MD1D	76.769 kW (ERP)	0.00001 %

This authorization effective March 26, 2020 and
will expire 3:00 A.M. EST April 01, 2022

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: Fajardo, PR. Shipborne antenna; 200 km radius (see Ex. B), within 200 km, centered around NL 18-14-45; WL 65-38-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
81000-86000 MHz	MO	750MD1D	76.769 kW (ERP)	0.00001 %

Special Conditions:

- (1) 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.
- (2) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (3) All transmitting and/or receiving equipment used in the study shall be owned by the licensee.
- (4) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (5) 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.
- (6) The stop buzzer POC is Ben Wojtowicz at (847) 767-0554; loonfcc@google.com
- (7) Prior to operation, licensee must successfully coordinate with all of the existing registered links in 71-76 GHz and 81-86 GHz bands in each proposed location .