

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

EXPERIMENTAL
(Nature of Service)

WL2XQY
(Call Sign)

XT FX MO
(Class of Station)

0171-EX-CN-2021
(File Number)

NAME EMS Technologies Canada Ltd

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) McLean (FAIRFAX), VA - NL 38-55-25; WL 77-13-23
- (2) MOBILE: Deer Valley, Phoenix, Arizona, within 545 km, centered around NL 33-41-24; WL 112-05-06

Frequency Information

McLean (FAIRFAX), VA - NL 38-55-25; WL 77-13-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1618.725-1626 MHz	FX	41K6G7W 41K6G7W 41K6G7W	2.67 W (ERP)	0.0021 %
1618.725-1626 MHz	FX	666KD7W	40.36 W (ERP)	0.0021 %
1618.725-1626 MHz	FX	333KD7W	20.18 W (ERP)	0.0021 %
1618.725-1626 MHz	FX	666KG7W	9.7 W (ERP)	0.0021 %

This authorization effective June 01, 2021 and
will expire 3:00 A.M. EST June 01, 2022

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1618.725-1626 MHz	FX	666KG7W	9.7 W (ERP)	0.0021 %
1618.725-1626 MHz	FX	41K6G7W	4.8 W (ERP)	0.0021 %
1618.725-1626 MHz	FX	41K6G7W 41K6G7W	1.9 W (ERP)	0.0021 %
1618.725-1626 MHz	FX	83K3G7W 83K3G7W	2.4 W (ERP)	0.0021 %
1618.725-1626 MHz	FX	333KG7W 333KG7W	4.8 mW (ERP)	0.0021 %

MOBILE: Deer Valley, Phoenix, Arizona, within 545 km, centered around NL 33-41-24; WL 112-05-06

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1618.725-1626 MHz	MO	41K6G7W	2.67 W (ERP)	0.0021 %
1618.725-1626 MHz	MO	333KG7W	4.8 W (ERP)	0.0021 %
1618.725-1626 MHz	MO	666KG7W	9.7 W (ERP)	0.0021 %

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1618.725-1626 MHz	MO	83K3G7W	2.4 W (ERP)	0.0021 %
1618.725-1626 MHz	MO	41K6G7W	4.8 W (ERP)	0.0021 %

Special Conditions:

- (1) The occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (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) This is for experimental purpose only and doesn't permit commercial service or market access.
- (4) POINT OF COMMUNICATION: Iridium's non-geostationary orbit space stations (NGSO) satellites (call sign S2110) operating in the 1618.725-1626 MHz band.
- (5) Licensee is authorized to conduct tests on Aspire 350 AES aeronautical station(s) in the 1618.725-1626 MHz frequency band via Iridium's NGSO satellites.