

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

EXPERIMENTAL

(Nature of Service)

WK2XQE

(Call Sign)

XT FX MO

(Class of Station)

0648-EX-CR-2020

(File Number)

NAME Humatics Corporation

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) New York, NY - NL 40-38-31; WL 73-56-54; MOBILE: Brooklyn, NY, within 6.75 km, centered around NL 40-38-31; WL 73-56-54

Frequency Information

New York, NY - NL 40-38-31; WL 73-56-54; MOBILE: Brooklyn, NY, within 6.75 km, centered around NL 40-38-31; WL 73-56-54

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4 GHz	FX	2G00M7W	1.58 mW (ERP)	0.0002 %
4 GHz	FX	2G00M7W	50 uW (ERP)	0.0002 %
4 GHz	MO	2G00M7W	6.3 mW (ERP)	0.0002 %

Special Conditions:

- (1) All customers participating in the experiment shall be informed that this operation is for experimental purposes only and can be cancelled at any time.
- (2) The occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

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

**FEDERAL
COMMUNICATIONS
COMMISSION**



Special Conditions:

- (3) 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.
- (4) Humatics Corporation should be aware that the requested location falls within the Exclusion Zone defined in the NTIA Fast Track Report (NTIA Technical Report TR-15-517: 3.5 GHz Exclusion Zone Analyses and Methodology). NTIA's concurrence is based upon Humatics Corporation's understanding that their operations are susceptible to interference from federal operations and they agree to accept any interference should it occur as well as operating on a Non-Interference Basis to any federal systems in the requested area.
- (5) Stop Buzzer Contact: James Kinsey at (781) 315-4817, jkinsey@humatics.com
- (6) Licensee shall maintain operation separation from the grandfathered earth stations as defined in Part 90, Sub-part Z, or coordinate an agreement with the grandfathered earth station licensees prior to operation in 3650-3700 MHz band.
- (7) Licensee shall consult the ULS database to ensure that the operation will not cause harmful interference to any existing registered stations in the 3650-3700 MHz band, and notify the registered users in the proposed geographic areas prior to operation in this band.
- (8) Licensee shall coordinate with the affected Fixed Microwave Service licensees prior to operation in 3700-4200 MHz band
- (9) Prior to operation, experimental licensee, must notify licensees of FSS earth stations operating the 3650-4200 MHz within 20-kilometer radius of the locations from which experimental operations will occur. Experimental licensee must also provide such notification to the National Spectrum Managers Association frequency coordinators by email. (see http://wireless.fcc.gov/services/index.htm?job=licensing_1&id=microwave). The notice must include the name and contact information of the stop buzzer personnel that will be available to cease operations in the event of reported interference. The notification should include the testing parameters (specific location(s), antenna gain(s), antenna pattern, antenna height(s), antenna orientation, eirp density) and day and times of each test. Consult the IBFS database to identify licensed earth station in the band 3650-4200 MHz band.
- (10) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (11) No automatic renewal for operations in the 3650-4200 MHz band of this authorization.