

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

EXPERIMENTAL

(Nature of Service)

XC FX MO

(Class of Station)

WJ2XMQ

(Call Sign)

0013-EX-CM-2020

(File Number)

NAME L3 Advanced Systems & Technologies

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(c) of the Commission's Rules

Station Locations

- (1) Plano (COLLIN), TX - NL 33-04-03; WL 96-40-57
- (2) MOBILE: Plano, TX, within 100 km, centered around NL 33-04-03; WL 96-40-57
- (3) MOBILE: 10 mile radius around Brainerd Airport, within 16 km, centered around NL 46-23-21; WL 94-08-23

Frequency Information

Plano (COLLIN), TX - NL 33-04-03; WL 96-40-57

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1600-2320 MHz	FX	826KF1D 150MP1N 100MQ1N	3 W (ERP)	
2345-2400 MHz	FX	55M0Q1N 55M0P1N 826KF1D	3 W (ERP)	

This authorization effective May 08, 2020 and
will expire 3:00 A.M. EST January 25, 2022

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MOBILE: 10 mile radius around Brainerd Airport, within 16 km, centered around NL 46-23-21; WL 94-08-23

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1610-2320 MHz	MO	826KF1D 150MP1N 100MQ1N	3 W (ERP)	
2345-2400 MHz	MO	55M0Q1N 55M0P1N 826KF1D	3 W (ERP)	

Special Conditions:

- (1) This frequency assignment in one of the bands 1435-1525, 2310-2320 and 2345-2390 MHz was coordinated prior to its authorization with AFMO CONUS, Ft. Sam Houston, TX, who also coordinated it, as appropriate, with the Aerospace and Flight Test Radio Coordinating Council. Use of this frequency under the authority of this assignment is subject to such further coordination with AFMO CONUS, Ft. Sam Houston, TX, as necessary to ensure compatibility with existing uses.
- (2) Operation in the 1695-1780 MHz, 1915-1920 MHz, 1995-2020 MHz or 2110-2200 MHz band requires consent of local Advanced Wireless Service (AWS) licensee(s) to avoid interference.

Special Conditions:

- (3) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (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) Operation is subject to prior coordination with the local Society of Broadcast Engineers, Inc. (SBE) frequency coordinator. Consult the list at https://www.sbe.org/sections/freq_local.php to find the appropriate coordinator.
- (7) This authorization is issued for the express purpose of conducting experimental operations described in the related application and required by the U.S. Government; contract number FA8651-17-C20. The use of this radio station in any other manner or for any other purpose will constitute a violation of the privileges herein authorized. Except as subsequently authorized by the Commission, this radio station shall not be operated after the expiration date of the contract designated in the related application and enumerated above.
- (8) Prior to commencing any operations, the experimental licensee must obtain consent from the following within 50 miles of the contours of the testing area:
 - o 1670-1675 MHz Band licensee (Crown Castle International,) and the lessee (Ligado Networks)
 - o Broadband PCS licensees (1850-1910 MHz/1930-1990 MHz) WCS (2305-2320 MHz/2345-2360 MHz) licensee (AT&T)
- (9) Operations of the authorized station using the 1610-1620 MHz frequency band must be in compliance with the coordination agreement between the Licensee and GUSA Licensee LLC (Globalstar).
- (10) Operations of the authorized station using the 1626.5-1660.5 MHz frequency band must be in compliance with the coordination agreement between the Licensee and Ligado Networks Subsidiary LLC and Lightwave.
- (11) Licensee must maintain a point of contact available 24 hours per day, seven days per week, with the authority and ability to terminate operations authorized herein, for discussing interference concerns with other licensees, and must submit a letter to be included in its license file with the name and telephone number of the point of contact prior to commencing operation.
- (12) Operation is not permitted in 1600-1610 MHz band for Brainerd, MN.