

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

EXPERIMENTAL

(Nature of Service)

WN9XXN

(Call Sign)

XT FX MO

(Class of Station)

0038-EX-TC-2019

(File Number)

NAME L3 Communications/Integrated Systems

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.

Station Locations

- (1) Waco (MCLENNAN), TX - NL 31-38-16; WL 97-04-27; MOBILE: Flight Path between 250 and 290 degrees of Waco, within 200 km, centered around NL 31-38-16; WL 97-04-27
- (2) Sioux City (WOODBURY), IA - NL 42-24-10; WL 96-23-07; MOBILE: 100 km radius of Sioux Gateway Airport, within 100 km, centered around NL 42-24-10; WL 96-23-07
- (3) MOBILE: W602 range 400 km SE Corpus Christi TX, within 160 km, centered around NL 26-21-42; WL 93-26-05
- (4) Omaha (DOUGLAS), NE - NL 41-18-10; WL 95-53-38; MOBILE: 100 km radius of Eppley Airfield, within 100 km, centered around NL 41-18-10; WL 95-53-38
- (5) Colorado Springs (EL PASO), CO - NL 38-48-06; WL 104-42-10; MOBILE: 100 km radius of Colorado Springs Airport, within 100 km, centered around NL 38-48-06; WL 104-42-10
- (6) Albuquerque (BERNALILLO), NM - NL 35-02-36; WL 106-36-46; MOBILE: Flt path btw 225 and 90 deg of Sunport, within 100 km, centered around NL 35-02-36; WL 106-36-46

Frequency Information

Waco (MCLENNAN), TX - NL 31-38-16; WL 97-04-27; MOBILE: Flight Path between 250 and 290 degrees of Waco, within 200

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.7154 MHz	FX	2K80J3E	243.9 W (ERP)	

This authorization effective May 08, 2019 and
will expire 3:00 A.M. EST October 04, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Waco (MCLENNAN), TX - NL 31-38-16; WL 97-04-27; MOBILE: Flight Path between 250 and 290 degrees of Waco, within 20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.7154 MHz	MO	2K80J3E	243.9 W (ERP)	
9 MHz	FX	2K80J3E	243.9 W (ERP)	
9 MHz	MO	2K80J3E	243.9 W (ERP)	
9.0054 MHz	FX	2K80J3E	243.9 W (ERP)	
9.0054 MHz	MO	2K80J3E	243.9 W (ERP)	
10.005 MHz	FX	2K80J3E	243.9 W (ERP)	
10.005 MHz	MO	2K80J3E	243.9 W (ERP)	
14.76 MHz	FX	2K80J3E	243.9 W (ERP)	
14.76 MHz	MO	2K80J3E	243.9 W (ERP)	
21 MHz	MO	2K80J3E	243.9 W (ERP)	

Frequency Information

Waco (MCLENNAN), TX - NL 31-38-16; WL 97-04-27; MOBILE: Flight Path between 250 and 290 degrees of Waco, within 20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
21 MHz	FX	2K80J3E	243.9 W (ERP)	
234.95 MHz	MO	7K00A3E 16K0F1D	609.7 W (ERP)	
234.95 MHz	FX	7K00A3E 16K0F1D	1.719 kW (ERP)	
275 MHz	FX	7K00A3E	430 W (ERP)	
275 MHz	MO	7K00A3E	215 W (ERP)	
290 MHz	FX	7K00A3E	430 W (ERP)	
290 MHz	MO	7K00A3E	215 W (ERP)	
302 MHz	FX	7K00A3E	430 W (ERP)	
302 MHz	MO	7K00A3E	215 W (ERP)	
312 MHz	FX	7K00A3E	430 W (ERP)	

Frequency Information

Waco (MCLENNAN), TX - NL 31-38-16; WL 97-04-27; MOBILE: Flight Path between 250 and 290 degrees of Waco, within 20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
312 MHz	MO	7K00A3E	215 W (ERP)	
319.6 MHz	MO	7K00A3E 16K0F1D	861 W (ERP)	
319.6 MHz	FX	7K00A3E 16K0F1D	1.719 W (ERP)	
325 MHz	FX	7K00A3E	430 W (ERP)	
325 MHz	MO	7K00A3E	215 W (ERP)	
350 MHz	FX	7K00A3E 240KF9X	1214 W (ERP)	
350 MHz	MO	7K00A3E 240KF9X	431 W (ERP)	
360 MHz	FX	7K00A3E	430 W (ERP)	
360 MHz	MO	7K00A3E	215 W (ERP)	

Frequency Information

Waco (MCLENNAN), TX - NL 31-38-16; WL 97-04-27; MOBILE: Flight Path between 250 and 290 degrees of Waco, within 20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
399.975 MHz	FX	7K00A3E	430 W (ERP)	
399.975 MHz	MO	7K00A3E	215 W (ERP)	
14.5 GHz	MO	199MG1D	6.068 kW (ERP)	
14.615 GHz	FX	199MG1D	6.068 kW (ERP)	
15.25 GHz	MO	199MG1D	6.068 kW (ERP)	
15.25 GHz	FX	199MG1D	6.068 kW (ERP)	
30-31 GHz	MO	58M5G1D	6.068 kW (ERP)	

Sioux City (WOODBURY), IA - NL 42-24-10; WL 96-23-07; MOBILE: 100 km radius of Sioux Gateway Airport, within 100 km,

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.7154 MHz	FX	2K80J3E	243.9 W (ERP)	
5.7154 MHz	MO	2K80J3E	243.9 W (ERP)	

Frequency Information

Sioux City (WOODBURY), IA - NL 42-24-10; WL 96-23-07; MOBILE: 100 km radius of Sioux Gateway Airport, within 100 km,

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9 MHz	FX	2K80J3E	243.9 W (ERP)	
9 MHz	MO	2K80J3E	243.9 W (ERP)	
9.0054 MHz	FX	2K80J3E	243.9 W (ERP)	
9.0054 MHz	MO	2K80J3E	243.9 W (ERP)	
10.005 MHz	FX	2K80J3E	243.9 W (ERP)	
10.005 MHz	MO	2K80J3E	243.9 W (ERP)	
14.76 MHz	FX	2K80J3E	243.9 W (ERP)	
14.76 MHz	MO	2K80J3E	243.9 W (ERP)	
21 MHz	MO	2K80J3E	243.9 W (ERP)	
21 MHz	FX	2K80J3E	243.9 W (ERP)	

Frequency Information

Sioux City (WOODBURY), IA - NL 42-24-10; WL 96-23-07; MOBILE: 100 km radius of Sioux Gateway Airport, within 100 km,

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
225 MHz	FX	7K00A3E	430 W (ERP)	
225 MHz	MO	7K00A3E	215 W (ERP)	
234.95 MHz	MO	7K00A3E 16K0F1D	609.7 W (ERP)	
234.95 MHz	FX	7K00A3E 16K0F1D	1.719 kW (ERP)	
275 MHz	FX	7K00A3E	430 W (ERP)	
275 MHz	MO	7K00A3E	215 W (ERP)	
290 MHz	FX	7K00A3E	430 W (ERP)	
290 MHz	MO	7K00A3E	215 W (ERP)	
302 MHz	FX	7K00A3E	430 W (ERP)	
302 MHz	MO	7K00A3E	215 W (ERP)	

Frequency Information

Sioux City (WOODBURY), IA - NL 42-24-10; WL 96-23-07; MOBILE: 100 km radius of Sioux Gateway Airport, within 100 km,

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
312 MHz	FX	7K00A3E	430 W (ERP)	
312 MHz	MO	7K00A3E	215 W (ERP)	
319.6 MHz	MO	7K00A3E 16K0F1D	861 W (ERP)	
319.6 MHz	FX	7K00A3E 16K0F1D	1.719 W (ERP)	
325 MHz	FX	7K00A3E	430 W (ERP)	
325 MHz	MO	7K00A3E	215 W (ERP)	
350 MHz	FX	7K00A3E 240KF9X	1214 W (ERP)	
350 MHz	MO	7K00A3E 240KF9X	431 W (ERP)	
360 MHz	FX	7K00A3E	430 W (ERP)	

Frequency Information

Sioux City (WOODBURY), IA - NL 42-24-10; WL 96-23-07; MOBILE: 100 km radius of Sioux Gateway Airport, within 100 km,

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
360 MHz	MO	7K00A3E	215 W (ERP)	
399.975 MHz	FX	7K00A3E	430 W (ERP)	
399.975 MHz	MO	7K00A3E	215 W (ERP)	
14.5 GHz	MO	199MG1D	6.068 kW (ERP)	
14.615 GHz	FX	199MG1D	6.068 kW (ERP)	
15.25 GHz	MO	199MG1D	6.068 kW (ERP)	
15.25 GHz	FX	199MG1D	6.068 kW (ERP)	
30-31 GHz	MO	58M5G1D	6.068 kW (ERP)	

MOBILE: W602 range 400 km SE Corpus Christi TX, within 160 km, centered around NL 26-21-42; WL 93-26-05

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
17-59.99 kHz	MO	150HA1A	122 kW (ERP)	

Frequency Information

Omaha (DOUGLAS), NE - NL 41-18-10; WL 95-53-38; MOBILE: 100 km radius of Eppley Airfield, within 100 km, centered arc

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.7154 MHz	FX	2K80J3E	243.9 W (ERP)	
5.7154 MHz	MO	2K80J3E	243.9 W (ERP)	
9 MHz	FX	2K80J3E	243.9 W (ERP)	
9 MHz	MO	2K80J3E	243.9 W (ERP)	
9.0054 MHz	FX	2K80J3E	243.9 W (ERP)	
9.0054 MHz	MO	2K80J3E	243.9 W (ERP)	
10.005 MHz	FX	2K80J3E	243.9 W (ERP)	
10.005 MHz	MO	2K80J3E	243.9 W (ERP)	
14.76 MHz	FX	2K80J3E	243.9 W (ERP)	
14.76 MHz	MO	2K80J3E	243.9 W (ERP)	

Frequency Information

Omaha (DOUGLAS), NE - NL 41-18-10; WL 95-53-38; MOBILE: 100 km radius of Eppley Airfield, within 100 km, centered arc

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
21 MHz	MO	2K80J3E	243.9 W (ERP)	
21 MHz	FX	2K80J3E	243.9 W (ERP)	
225 MHz	FX	7K00A3E	430 W (ERP)	
225 MHz	MO	7K00A3E	215 W (ERP)	
234.95 MHz	MO	7K00A3E 16K0F1D	609.7 W (ERP)	
234.95 MHz	FX	7K00A3E 16K0F1D	1.719 kW (ERP)	
275 MHz	FX	7K00A3E	430 W (ERP)	
275 MHz	MO	7K00A3E	215 W (ERP)	
290 MHz	FX	7K00A3E	430 W (ERP)	
290 MHz	MO	7K00A3E	215 W (ERP)	

Frequency Information

Omaha (DOUGLAS), NE - NL 41-18-10; WL 95-53-38; MOBILE: 100 km radius of Eppley Airfield, within 100 km, centered arc

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
302 MHz	FX	7K00A3E	430 W (ERP)	
302 MHz	MO	7K00A3E	215 W (ERP)	
312 MHz	FX	7K00A3E	430 W (ERP)	
312 MHz	MO	7K00A3E	215 W (ERP)	
319.6 MHz	MO	7K00A3E 16K0F1D	861 W (ERP)	
319.6 MHz	FX	7K00A3E 16K0F1D	1.719 W (ERP)	
325 MHz	FX	7K00A3E	430 W (ERP)	
325 MHz	MO	7K00A3E	215 W (ERP)	
350 MHz	FX	7K00A3E 240KF9X	1214 W (ERP)	
350 MHz	MO	7K00A3E	431 W (ERP)	

Frequency Information

Omaha (DOUGLAS), NE - NL 41-18-10; WL 95-53-38; MOBILE: 100 km radius of Eppley Airfield, within 100 km, centered arc

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
350 MHz	MO	240KF9X	431 W (ERP)	
360 MHz	FX	7K00A3E	430 W (ERP)	
360 MHz	MO	7K00A3E	215 W (ERP)	
399.975 MHz	FX	7K00A3E	430 W (ERP)	
399.975 MHz	MO	7K00A3E	215 W (ERP)	
14.5 GHz	MO	199MG1D	6.068 kW (ERP)	
14.615 GHz	FX	199MG1D	6.068 kW (ERP)	
15.25 GHz	MO	199MG1D	6.068 kW (ERP)	
15.25 GHz	FX	199MG1D	6.068 kW (ERP)	
30-31 GHz	MO	58M5G1D	6.068 kW (ERP)	

Frequency Information

Colorado Springs (EL PASO), CO - NL 38-48-06; WL 104-42-10; MOBILE: 100 km radius of Colorado Springs Airport, within 1

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.7154 MHz	FX	2K80J3E	243.9 W (ERP)	
5.7154 MHz	MO	2K80J3E	243.9 W (ERP)	
9 MHz	FX	2K80J3E	243.9 W (ERP)	
9 MHz	MO	2K80J3E	243.9 W (ERP)	
9.0054 MHz	FX	2K80J3E	243.9 W (ERP)	
9.0054 MHz	MO	2K80J3E	243.9 W (ERP)	
10.005 MHz	FX	2K80J3E	243.9 W (ERP)	
10.005 MHz	MO	2K80J3E	243.9 W (ERP)	
14.76 MHz	FX	2K80J3E	243.9 W (ERP)	
14.76 MHz	MO	2K80J3E	243.9 W (ERP)	

Frequency Information

Colorado Springs (EL PASO), CO - NL 38-48-06; WL 104-42-10; MOBILE: 100 km radius of Colorado Springs Airport, within 1

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
21 MHz	MO	2K80J3E	243.9 W (ERP)	
21 MHz	FX	2K80J3E	243.9 W (ERP)	
225 MHz	FX	7K00A3E	430 W (ERP)	
225 MHz	MO	7K00A3E	215 W (ERP)	
234.95 MHz	MO	7K00A3E 16K0F1D	609.7 W (ERP)	
234.95 MHz	FX	7K00A3E 16K0F1D	1.719 kW (ERP)	
275 MHz	FX	7K00A3E	430 W (ERP)	
275 MHz	MO	7K00A3E	215 W (ERP)	
290 MHz	FX	7K00A3E	430 W (ERP)	
290 MHz	MO	7K00A3E	215 W (ERP)	

Frequency Information

Colorado Springs (EL PASO), CO - NL 38-48-06; WL 104-42-10; MOBILE: 100 km radius of Colorado Springs Airport, within 1

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
302 MHz	FX	7K00A3E	430 W (ERP)	
302 MHz	MO	7K00A3E	215 W (ERP)	
312 MHz	FX	7K00A3E	430 W (ERP)	
312 MHz	MO	7K00A3E	215 W (ERP)	
319.6 MHz	MO	7K00A3E 16K0F1D	861 W (ERP)	
319.6 MHz	FX	7K00A3E 16K0F1D	1.719 W (ERP)	
325 MHz	FX	7K00A3E	430 W (ERP)	
325 MHz	MO	7K00A3E	215 W (ERP)	
350 MHz	FX	7K00A3E 240KF9X	1214 W (ERP)	
350 MHz	MO	7K00A3E	431 W (ERP)	

Frequency Information

Colorado Springs (EL PASO), CO - NL 38-48-06; WL 104-42-10; MOBILE: 100 km radius of Colorado Springs Airport, within 1

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
350 MHz	MO	240KF9X	431 W (ERP)	
360 MHz	FX	7K00A3E	430 W (ERP)	
360 MHz	MO	7K00A3E	215 W (ERP)	
399.975 MHz	FX	7K00A3E	430 W (ERP)	
399.975 MHz	MO	7K00A3E	215 W (ERP)	
14.5 GHz	MO	199MG1D	6.068 kW (ERP)	
14.615 GHz	FX	199MG1D	6.068 kW (ERP)	
15.25 GHz	MO	199MG1D	6.068 kW (ERP)	
15.25 GHz	FX	199MG1D	6.068 kW (ERP)	
30-31 GHz	MO	58M5G1D	6.068 kW (ERP)	

Frequency Information

Albuquerque (BERNALILLO), NM - NL 35-02-36; WL 106-36-46; MOBILE: Flt path btw 225 and 90 deg of Sunport, within 100

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
5.7154 MHz	FX	2K80J3E	243.9 W (ERP)	
5.7154 MHz	MO	2K80J3E	243.9 W (ERP)	
9 MHz	FX	2K80J3E	243.9 W (ERP)	
9 MHz	MO	2K80J3E	243.9 W (ERP)	
9.0054 MHz	FX	2K80J3E	243.9 W (ERP)	
9.0054 MHz	MO	2K80J3E	243.9 W (ERP)	
10.005 MHz	FX	2K80J3E	243.9 W (ERP)	
10.005 MHz	MO	2K80J3E	243.9 W (ERP)	
14.76 MHz	FX	2K80J3E	243.9 W (ERP)	
14.76 MHz	MO	2K80J3E	243.9 W (ERP)	

Frequency Information

Albuquerque (BERNALILLO), NM - NL 35-02-36; WL 106-36-46; MOBILE: Flt path btw 225 and 90 deg of Sunport, within 100

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
21 MHz	MO	2K80J3E	243.9 W (ERP)	
21 MHz	FX	2K80J3E	243.9 W (ERP)	
225 MHz	FX	7K00A3E	430 W (ERP)	
225 MHz	MO	7K00A3E	215 W (ERP)	
234.95 MHz	MO	7K00A3E 16K0F1D	609.7 W (ERP)	
234.95 MHz	FX	7K00A3E 16K0F1D	1.719 kW (ERP)	
275 MHz	FX	7K00A3E	430 W (ERP)	
275 MHz	MO	7K00A3E	215 W (ERP)	
290 MHz	FX	7K00A3E	430 W (ERP)	
290 MHz	MO	7K00A3E	215 W (ERP)	

Frequency Information

Albuquerque (BERNALILLO), NM - NL 35-02-36; WL 106-36-46; MOBILE: Flt path btw 225 and 90 deg of Sunport, within 100

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
302 MHz	FX	7K00A3E	430 W (ERP)	
302 MHz	MO	7K00A3E	215 W (ERP)	
312 MHz	FX	7K00A3E	430 W (ERP)	
312 MHz	MO	7K00A3E	215 W (ERP)	
319.6 MHz	MO	7K00A3E 16K0F1D	861 W (ERP)	
319.6 MHz	FX	7K00A3E 16K0F1D	1.719 W (ERP)	
325 MHz	FX	7K00A3E	430 W (ERP)	
325 MHz	MO	7K00A3E	215 W (ERP)	
350 MHz	FX	7K00A3E 240KF9X	1214 W (ERP)	
350 MHz	MO	7K00A3E	431 W (ERP)	

Frequency Information

Albuquerque (BERNALILLO), NM - NL 35-02-36; WL 106-36-46; MOBILE: Flt path btw 225 and 90 deg of Sunport, within 100

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
350 MHz	MO	240KF9X	431 W (ERP)	
360 MHz	FX	7K00A3E	430 W (ERP)	
360 MHz	MO	7K00A3E	215 W (ERP)	
399.975 MHz	FX	7K00A3E	430 W (ERP)	
399.975 MHz	MO	7K00A3E	215 W (ERP)	
30-31 GHz	MO	58M5G1D	6.068 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 stop buzzer contact for this project is Kara Curtis
Phone: 9034573544
Email: kara.r.curtis@L3T.com
- (4) The authorized station must be in compliance with the Federal Aviation Administration (FAA) requirements as set forth in Section 17.4 of the Commission's Rules.
- (5) The authorized station must be in compliance with environmental requirement set forth in Section 1.1307 of the Commission's Rules.
- (6) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.

Special Conditions:

- (7) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (8) Operations are on a non-interference basis (NIB) and shall not cause harmful interference to, and shall not claim protection from, interference caused to it by any other lawfully operating station and it shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing.
- (9) L3 Technologies shall remove 10.005 MHz, which is used for HF AM(R)S operations.