

**United States of America
FEDERAL COMMUNICATIONS COMMISSION
EXPERIMENTAL
SPECIAL TEMPORARY AUTHORIZATION**

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WO9XKS

(Call Sign)

0714-EX-ST-2019

(File Number)

NAME L3 Technologies

This Special Temporary Authorization is granted upon the express condition that it may be terminated by the Commission at any time without advance notice or hearing if in its discretion the need for such action arises. Nothing contained herein shall be construed as a finding by the Commission that the authority herein granted is or will be in the public interest beyond the express terms hereof.

This Special Temporary Authorization shall not vest in the grantee any right to operate the station nor any right in the use of the frequencies designated in the authorization beyond the term hereof, nor in any other manner than authorized herein. Neither the authorization nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This authorization is subject to the right of use of control the Government of the United States conferred by Section 706 of the Communications Act of 1934.

Special Temporary Authority is hereby granted to operate the apparatus described below:

Purpose Of Operation:

Demonstrate systems ability to geolocate transmitters on shore.

Station Locations

- (1) Point Loma (SAN DIEGO), CA - NL 32-40-13; WL 117-14-28
- (2) Silver Strand State (SAN DIEGO), CA - NL 32-37-46; WL 117-10-25
- (3) Imperial Beach (SAN DIEGO), CA - NL 32-34-46; WL 117-08-14
- (4) San Diego (SAN DIEGO), CA - NL 32-41-36; WL 117-15-11

Frequency Information

Point Loma (SAN DIEGO), CA - NL 32-40-13; WL 117-14-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4.75-4.85 MHz	FX	2K80J3E	61 W (ERP)	
6.2-6.525 MHz	FX	2K80J3E	61 W (ERP)	

This authorization effective May 21, 2019 and
will expire 3:00 A.M. EST June 15, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Point Loma (SAN DIEGO), CA - NL 32-40-13; WL 117-14-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7.81-8.815 MHz	FX	2K80J3E	61 W (ERP)	
12.1-13.2 MHz	FX	2K80J3E	61 W (ERP)	
13.87-14 MHz	FX	2K80J3E	61 W (ERP)	
16.36-17.41 MHz	FX	2K80J3E	61 W (ERP)	
18.78-18.9 MHz	FX	2K80J3E	61 W (ERP)	
156.475 MHz	FX	16K0F3E	1.2 W (ERP)	
452.9875 MHz	FX	16K0F3E	2.4 W (ERP)	
457.98755 MHz	FX	16K0F3E	2.4 W (ERP)	
462.4875 MHz	FX	16K0F3E	2.4 W (ERP)	
462.55 MHz	FX	16K0F3E	2.4 W (ERP)	

Frequency Information

Point Loma (SAN DIEGO), CA - NL 32-40-13; WL 117-14-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
462.5625 MHz	FX	16K0F3E	2.4 W (ERP)	
462.5875 MHz	FX	16K0F3E	2.4 W (ERP)	
462.6 MHz	FX	16K0F3E	2.4 W (ERP)	
462.6125 MHz	FX	16K0F3E	2.4 W (ERP)	
462.625 MHz	FX	16K0F3E	2.4 W (ERP)	
462.6375 MHz	FX	16K0F3E	2.4 W (ERP)	
462.65 MHz	FX	16K0F3E	2.4 W (ERP)	
462.6625 MHz	FX	16K0F3E	2.4 W (ERP)	
462.675 MHz	FX	16K0F3E	2.4 W (ERP)	
462.6875 MHz	FX	16K0F3E	2.4 W (ERP)	

Frequency Information

Point Loma (SAN DIEGO), CA - NL 32-40-13; WL 117-14-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
462.7 MHz	FX	16K0F3E	2.4 W (ERP)	
462.7125 MHz	FX	16K0F3E	0.6 W (ERP)	
462.725 MHz	FX	16K0F3E	2.4 W (ERP)	
467.4875 MHz	FX	16K0F3E	2.4 W (ERP)	
467.5625 MHz	FX	16K0F3E	0.6 W (ERP)	
467.5875 MHz	FX	16K0F3E	0.6 W (ERP)	
467.6215 MHz	FX	16K0F3E	0.6 W (ERP)	
467.6375 MHz	FX	16K0F3E	0.6 W (ERP)	
467.6625 MHz	FX	16K0F3E	0.6 W (ERP)	
467.6875 MHz	FX	16K0F3E	0.6 W (ERP)	

Frequency Information

Point Loma (SAN DIEGO), CA - NL 32-40-13; WL 117-14-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
467.7125 MHz	FX	16K0F3E	0.6 W (ERP)	
4940-4990 MHz	FX	20M0W2W	3658 W (ERP)	
5350-5460 MHz	FX	20M0W2W	2440 W (ERP)	
5950-6000 MHz	FX	20M0W2W	2440 W (ERP)	

Silver Strand State (SAN DIEGO), CA - NL 32-37-46; WL 117-10-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4.75-4.85 MHz	FX	2K80J3E	61 W (ERP)	
6.2-6.525 MHz	FX	2K80J3E	61 W (ERP)	
7.81-8.815 MHz	FX	2K80J3E	61 W (ERP)	
12.1-13.2 MHz	FX	2K80J3E	61 W (ERP)	
13.87-14 MHz	FX	2K80J3E	61 W (ERP)	

Frequency Information

Silver Strand State (SAN DIEGO), CA - NL 32-37-46; WL 117-10-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
16.36-17.41 MHz	FX	2K80J3E	61 W (ERP)	
18.78-18.9 MHz	FX	2K80J3E	61 W (ERP)	
156.425 MHz	FX	16K0F3E 16K0F3E	1.2 W (ERP)	
156.475 MHz	FX	16K0F3E	1.2 W (ERP)	
452.9875 MHz	FX	16K0F3E	2.4 W (ERP)	
457.98755 MHz	FX	16K0F3E	2.4 W (ERP)	
462.4875 MHz	FX	16K0F3E	2.4 W (ERP)	
462.55 MHz	FX	16K0F3E	2.4 W (ERP)	
462.5625 MHz	FX	16K0F3E	2.4 W (ERP)	
462.5875 MHz	FX	16K0F3E	2.4 W (ERP)	

Frequency Information

Silver Strand State (SAN DIEGO), CA - NL 32-37-46; WL 117-10-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
462.6 MHz	FX	16K0F3E	2.4 W (ERP)	
462.6125 MHz	FX	16K0F3E	2.4 W (ERP)	
462.625 MHz	FX	16K0F3E	2.4 W (ERP)	
462.6375 MHz	FX	16K0F3E	2.4 W (ERP)	
462.65 MHz	FX	16K0F3E	2.4 W (ERP)	
462.6625 MHz	FX	16K0F3E	2.4 W (ERP)	
462.675 MHz	FX	16K0F3E	2.4 W (ERP)	
462.6875 MHz	FX	16K0F3E	2.4 W (ERP)	
462.7 MHz	FX	16K0F3E	2.4 W (ERP)	
462.7125 MHz	FX	16K0F3E	0.6 W (ERP)	

Frequency Information

Silver Strand State (SAN DIEGO), CA - NL 32-37-46; WL 117-10-25

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
462.725 MHz	FX	16K0F3E	2.4 W (ERP)	
467.4875 MHz	FX	16K0F3E	2.4 W (ERP)	
467.5625 MHz	FX	16K0F3E	0.6 W (ERP)	
467.5875 MHz	FX	16K0F3E	0.6 W (ERP)	
467.6215 MHz	FX	16K0F3E	0.6 W (ERP)	
467.6375 MHz	FX	16K0F3E	0.6 W (ERP)	
467.6625 MHz	FX	16K0F3E	0.6 W (ERP)	
467.6875 MHz	FX	16K0F3E	0.6 W (ERP)	
467.7125 MHz	FX	16K0F3E	0.6 W (ERP)	

Frequency Information

Imperial Beach (SAN DIEGO), CA - NL 32-34-46; WL 117-08-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4.75-4.85 MHz	FX	2K80J3E	61 W (ERP)	
6.2-6.525 MHz	FX	2K80J3E	61 W (ERP)	
7.81-8.815 MHz	FX	2K80J3E	61 W (ERP)	1 %
12.1-13.2 MHz	FX	2K80J3E	61 W (ERP)	
13.87-14 MHz	FX	2K80J3E	61 W (ERP)	
16.36-17.41 MHz	FX	2K80J3E	61 W (ERP)	
18.78-18.9 MHz	FX	2K80J3E	61 W (ERP)	
156.425 MHz	FX	16K0F3E 16K0F3E	1.2 W (ERP)	
156.475 MHz	FX	16K0F3E	1.2 W (ERP)	
452.9875 MHz	FX	16K0F3E	2.4 W (ERP)	

Frequency Information

Imperial Beach (SAN DIEGO), CA - NL 32-34-46; WL 117-08-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
457.98755 MHz	FX	16K0F3E	2.4 W (ERP)	
462.4875 MHz	FX	16K0F3E	2.4 W (ERP)	
462.55 MHz	FX	16K0F3E	2.4 W (ERP)	
462.5625 MHz	FX	16K0F3E	2.4 W (ERP)	
462.5875 MHz	FX	16K0F3E	2.4 W (ERP)	
462.6 MHz	FX	16K0F3E	2.4 W (ERP)	
462.6125 MHz	FX	16K0F3E	2.4 W (ERP)	
462.625 MHz	FX	16K0F3E	2.4 W (ERP)	
462.6375 MHz	FX	16K0F3E	2.4 W (ERP)	
462.65 MHz	FX	16K0F3E	2.4 W (ERP)	

Frequency Information

Imperial Beach (SAN DIEGO), CA - NL 32-34-46; WL 117-08-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
462.6625 MHz	FX	16K0F3E	2.4 W (ERP)	
462.675 MHz	FX	16K0F3E	2.4 W (ERP)	
462.6875 MHz	FX	16K0F3E	2.4 W (ERP)	
462.7 MHz	FX	16K0F3E	2.4 W (ERP)	
462.7125 MHz	FX	16K0F3E	0.6 W (ERP)	
462.725 MHz	FX	16K0F3E	2.4 W (ERP)	
467.4875 MHz	FX	16K0F3E	2.4 W (ERP)	
467.5625 MHz	FX	16K0F3E	0.6 W (ERP)	
467.5875 MHz	FX	16K0F3E	0.6 W (ERP)	
467.6215 MHz	FX	16K0F3E	0.6 W (ERP)	

Frequency Information

Imperial Beach (SAN DIEGO), CA - NL 32-34-46; WL 117-08-14

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
467.6375 MHz	FX	16K0F3E	0.6 W (ERP)	
467.6625 MHz	FX	16K0F3E	0.6 W (ERP)	
467.6875 MHz	FX	16K0F3E	0.6 W (ERP)	
467.7125 MHz	FX	16K0F3E	0.6 W (ERP)	

San Diego (SAN DIEGO), CA - NL 32-41-36; WL 117-15-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
4940-4990 MHz	FX	20M0W2W	3658 W (ERP)	
5350-5460 MHz	FX	20M0W2W	2440 W (ERP)	
5950-6000 MHz	FX	20M0W2W	2440 W (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) Coordinate with the local Society of Broadcast Engineers frequency coordinator prior to operation on 452.9875 MHz.

Special Conditions:

- (4) Coordinate with the Fixed Microwave Service licensees prior to operation in 5950-6000 MHz band.
- (5) The stop buzzer contact for this project is Primary: Kara Curtis
Phone: 903-457-3544
Email: kara.r.curtis@L3T.com
- (6) This authorization is without prejudice to any determination that the Commission may make regarding pending or future experimental satellite earth station applications.
- (7) Experimental station shall use the minimum power level necessary to establish communications links to minimize potential interference to licensed users.
- (8) Operation is not permitted in 156.45 MHz.
- (9) The 7.81 – 8.8195 MHz band must be adjusted to be 7.81 – 8.815 MHz in order to protect Air Traffic operations.