

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

EXPERIMENTAL

(Nature of Service)

XT FX

(Class of Station)

WO9XJB

(Call Sign)

0036-EX-TC-2019

(File Number)

NAME L3 Technologies CS-W

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) Salt Lake City (SALT LAKE), UT - NL 40-47-14; WL 111-57-07
- (2) Vernon (WILBARGER), TX - NL 34-09-20; WL 99-15-49
- (3) Salt Lake City (SALT LAKE), UT - NL 40-47-14; WL 111-57-07

Frequency Information

Salt Lake City (SALT LAKE), UT - NL 40-47-14; WL 111-57-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
28.6-29.1 GHz	FX	26M4G1D	2390165 W (ERP)	0.00015 %

Vernon (WILBARGER), TX - NL 34-09-20; WL 99-15-49

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
28.6-29.1 GHz	FX	13M2G1D	8934288 W (ERP)	0.00015 %

This authorization effective April 29, 2019 and
will expire 3:00 A.M. EST December 02, 2019

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

Salt Lake City (SALT LAKE), UT - NL 40-47-14; WL 111-57-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
28.6-29.1 GHz	FX	13M2G1D	1049924 W (ERP)	0.00015 %

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) Further requests for extension of the authority granted herein must be filed on Form 442, "Application for New or Modified Radio Station Authorization under Part 5 of FCC Rules - Experimental Radio Service." Future STA requests to extend this authorization will not be considered.
- (4) The stop buzzer contact for this project is Greg Hansen
Phone: 801-594-3024
Email: gregory.l.hansen@l3t.com
- (5) Licensee is authorized to operate a 45" L3T Triton Modem antenna located in Salt Lake City, UT and a 7.3 meter ViaSat gateway antenna located in Vernon, TX to conduct on-the ground tests using the 28.6-29.1 GHz frequency band. The operations are subject to the following conditions:
 - a) POINT OF COMMUNICATION: O3b Limited's NGSO (non-geostationary orbit space stations) satellites.
 - b) The earth stations on-the-ground authorized herein must be in compliance with the terms of coordination agreements with O3b Limited operators of non-geostationary orbit Fixed Satellite Service space stations operating in the 28.6-29.1 GHz frequency band.
In the event another NGSO system commences operations in the U.S. market in the 28.6-29.1 GHz frequency bands, earth stations operating pursuant to this authorization must cease operation unless and until such operation has been coordinated with the new NGSO system operator or O3b Limited demonstrates that such operation will not cause harmful interference to the new NGSO system.
 - c) Communications between authorized station(s) and the O3b NGSO space stations must comply with all existing and future coordination agreements reached between the United Kingdom and other Administrations, including all coordination agreements reached between the United Kingdom and the United States. In the absence of a coordination agreement, such communications must comply with applicable provisions of ITU Radio Regulations.

Special Conditions:

- (6) Licensee is authorized to operate a 45" L3T Triton Modem antenna and a 1.1 meter ViaSat antenna located in located in Salt Lake City, UT to conduct on-the-ground tests using the 28.6-29.1 GHz frequency band. The operations are subject to the following conditions:
- a) POINT OF COMMUNICATION: Telesat's NGSO (non-geostationary orbit space stations) satellites.
 - b) The earth stations on-the-ground authorized herein must be in compliance with the terms of coordination agreements with Telesat operators of non-geostationary orbit Fixed Satellite Service space stations operating in the 28.6-29.1 GHz frequency band. In the event another NGSO system commences operations in the U.S. market in the 28.6-29.1 GHz frequency bands, earth stations operating pursuant to this authorization must cease operation unless and until such operation has been coordinated with the new NGSO system operator or Telesat demonstrates that such operation will not cause harmful interference to the new NGSO system.
 - c) Communications between authorized station(s) and the Telesat NGSO space stations must comply with all existing and future coordination agreements reached between the Canada and other Administrations, including all coordination agreements reached between the Canada and the United States. In the absence of a coordination agreement, such communications must comply with applicable provisions of ITU Radio Regulations.
- (7) The authorized stations must be in compliance with environmental requirement set forth in Section 1.1307 of the Commission's Rules.