

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

EXPERIMENTAL

(Nature of Service)

WJ2XNF

(Call Sign)

XD MO

(Class of Station)

0022-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.

Operation: In accordance with Sec. 5.3(j) of the Commission's Rules

Station Locations

- (1) MOBILE: 160 km radius of Hagerstown, MD, within 160 km, centered around NL 39-38-33; WL 77-43-44
- (2) MOBILE: 160 km radius of Williamsport, PA, within 160 km, centered around NL 41-14-40; WL 77-01-07
- (3) MOBILE: 160 km radius of Harrisburg, PA, within 160 km, centered around NL 40-16-18; WL 76-53-11

Frequency Information

MOBILE: 160 km radius of Hagerstown, MD, within 160 km, centered around NL 39-38-33; WL 77-43-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
29.71 MHz	MO	16K0F3E 11K0F3E	1.2 W (ERP)	
29.73 MHz	MO	11K0F3E 16K0F3E	1.2 W (ERP)	
29.75 MHz	MO	11K0F3E	1.2 W (ERP)	

This authorization effective April 26, 2019 and
will expire 3:00 A.M. EST June 01, 2020

**FEDERAL
COMMUNICATIONS
COMMISSION**



Frequency Information

MOBILE: 160 km radius of Hagerstown, MD, within 160 km, centered around NL 39-38-33; WL 77-43-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
29.75 MHz	MO	16K0F3E	1.2 W (ERP)	
29.77 MHz	MO	11K0F3E 16K0F3E	1.2 W (ERP)	
29.79 MHz	MO	11K0F3E 16K0F3E	1.2 W (ERP)	
43.32 MHz	MO	11K0F3E 16K0F3E	1.2 W (ERP)	
44.6 MHz	MO	11K0F3E 16K0F3E	1.2 W (ERP)	
48.56 MHz	MO	11K0F3E 16K0F3E	1.2 W (ERP)	
48.8 MHz	MO	11K0F3E 16K0F3E	1.2 W (ERP)	
49.48 MHz	MO	11K0F3E 16K0F3E	1.2 W (ERP)	
151.595 MHz	MO	11K0F3E	5 W (ERP)	

Frequency Information

MOBILE: 160 km radius of Hagerstown, MD, within 160 km, centered around NL 39-38-33; WL 77-43-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
151.595 MHz	MO	7K60F1W 4K00F1E	5 W (ERP)	
151.9175 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	
152.4275 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	
152.8775 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	
153.0125 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	
153.4025 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	
157.65 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	

Frequency Information

MOBILE: 160 km radius of Hagerstown, MD, within 160 km, centered around NL 39-38-33; WL 77-43-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
159.975 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	
173.225 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	
453 MHz	MO	11K0F3E 7K60F1W 4K00F1E	4 W (ERP)	
456.3 MHz	MO	11K0F3E 7K60F1W 4K00F1E	4 W (ERP)	
456.5 MHz	MO	11K0F3E 7K60F1W 4K00F1E	4 W (ERP)	
456.775 MHz	MO	11K0F3E 7K60F1W 4K00F1E	4 W (ERP)	
456.95 MHz	MO	11K0F3E 7K60F1W	4 W (ERP)	

Frequency Information

MOBILE: 160 km radius of Hagerstown, MD, within 160 km, centered around NL 39-38-33; WL 77-43-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
456.95 MHz	MO	4K00F1E	4 W (ERP)	
457.225 MHz	MO	11K0F3E 7K60F1W 4K00F1E	4 W (ERP)	
464.9875 MHz	MO	11K0F3E 7K60F1W 4K00F1E	4 W (ERP)	
467.25 MHz	MO	11K0F3E 7K60F1W 4K00F1E	4 W (ERP)	
467.45 MHz	MO	11K0F3E 7K60F1W 4K00F1E	4 W (ERP)	
467.9125 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	
809.8125 MHz	MO	7K60F1W	2.5 W (ERP)	

Frequency Information

MOBILE: 160 km radius of Hagerstown, MD, within 160 km, centered around NL 39-38-33; WL 77-43-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
810.3375 MHz	MO	7K60F1W	2.5 W (ERP)	
810.9355 MHz	MO	7K60F1W	2.5 W (ERP)	
854.8125 MHz	MO	7K60F1W	2.5 W (ERP)	
855.3375 MHz	MO	7K60F1W	2.5 W (ERP)	
855.9375 MHz	MO	7K60F1W	2.5 W (ERP)	
896.3875 MHz	MO	7K60F1W	2.5 W (ERP)	
896.425 MHz	MO	7K60F1W	2.5 W (ERP)	
896.8875 MHz	MO	7K60F1W	2.5 W (ERP)	
896.9375 MHz	MO	7K60F1W	2.5 W (ERP)	
935.3875 MHz	MO	7K60F1W	2.5 W (ERP)	

Frequency Information

MOBILE: 160 km radius of Hagerstown, MD, within 160 km, centered around NL 39-38-33; WL 77-43-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
935.425 MHz	MO	7K60F1W	2.5 W (ERP)	
935.8875 MHz	MO	7K60F1W	2.5 W (ERP)	
935.9375 MHz	MO	7K60F1W	2.5 W (ERP)	

MOBILE: 160 km radius of Williamsport, PA, within 160 km, centered around NL 41-14-40; WL 77-01-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
29.71 MHz	MO	16K0F3E 11K0F3E	1.2 W (ERP)	
29.73 MHz	MO	11K0F3E 16K0F3E	1.2 W (ERP)	
29.75 MHz	MO	11K0F3E 16K0F3E	1.2 W (ERP)	
29.77 MHz	MO	11K0F3E 16K0F3E	1.2 W (ERP)	
29.79 MHz	MO	11K0F3E	1.2 W (ERP)	

Frequency Information

MOBILE: 160 km radius of Williamsport, PA, within 160 km, centered around NL 41-14-40; WL 77-01-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
29.79 MHz	MO	16K0F3E	1.2 W (ERP)	
43.32 MHz	MO	11K0F3E 16K0F3E	1.2 W (ERP)	
44.6 MHz	MO	11K0F3E 16K0F3E	1.2 W (ERP)	
48.56 MHz	MO	11K0F3E 16K0F3E	1.2 W (ERP)	
48.8 MHz	MO	11K0F3E 16K0F3E	1.2 W (ERP)	
49.48 MHz	MO	11K0F3E 16K0F3E	1.2 W (ERP)	
151.595 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	
151.9175 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	

Frequency Information

MOBILE: 160 km radius of Williamsport, PA, within 160 km, centered around NL 41-14-40; WL 77-01-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
152.4275 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	
153.0125 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	
153.3875 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	
157.65 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	
159.975 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	
173.225 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	
173.375 MHz	MO	11K0F3E 7K60F1W	5 W (ERP)	

Frequency Information

MOBILE: 160 km radius of Williamsport, PA, within 160 km, centered around NL 41-14-40; WL 77-01-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
173.375 MHz	MO	4K00F1E	5 W (ERP)	
452.275 MHz	MO	11K0F3E 7K60F1W 4K00F1E	4 W (ERP)	
456.3 MHz	MO	11K0F3E 7K60F1W 4K00F1E	4 W (ERP)	
456.5 MHz	MO	11K0F3E 7K60F1W 4K00F1E	4 W (ERP)	
456.775 MHz	MO	11K0F3E 7K60F1W 4K00F1E	4 W (ERP)	
456.95 MHz	MO	11K0F3E 7K60F1W 4K00F1E	4 W (ERP)	
457.225 MHz	MO	11K0F3E 7K60F1W 4K00F1E	4 W (ERP)	

Frequency Information

MOBILE: 160 km radius of Williamsport, PA, within 160 km, centered around NL 41-14-40; WL 77-01-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
464.9875 MHz	MO	11K0F3E 7K60F1W 4K00F1E	4 W (ERP)	
467.25 MHz	MO	11K0F3E 7K60F1W 4K00F1E	4 W (ERP)	
467.45 MHz	MO	11K0F3E 7K60F1W 4K00F1E	4 W (ERP)	
467.9125 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	
809.8125 MHz	MO	7K60F1W	2.5 W (ERP)	
810.3375 MHz	MO	7K60F1W	2.5 W (ERP)	
810.9355 MHz	MO	7K60F1W	2.5 W (ERP)	
854.8125 MHz	MO	7K60F1W	2.5 W (ERP)	

Frequency Information

MOBILE: 160 km radius of Williamsport, PA, within 160 km, centered around NL 41-14-40; WL 77-01-07

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
855.3375 MHz	MO	7K60F1W	2.5 W (ERP)	
855.9375 MHz	MO	7K60F1W	2.5 W (ERP)	
896.3875 MHz	MO	7K60F1W	2.5 W (ERP)	
896.425 MHz	MO	7K60F1W	2.5 W (ERP)	
896.8875 MHz	MO	7K60F1W	2.5 W (ERP)	
896.9375 MHz	MO	7K60F1W	2.5 W (ERP)	
935.3875 MHz	MO	7K60F1W	2.5 W (ERP)	
935.425 MHz	MO	7K60F1W	2.5 W (ERP)	
935.8875 MHz	MO	7K60F1W	2.5 W (ERP)	
935.9375 MHz	MO	7K60F1W	2.5 W (ERP)	

Frequency Information

MOBILE: 160 km radius of Harrisburg, PA, within 160 km, centered around NL 40-16-18; WL 76-53-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
29.71 MHz	MO	16K0F3E 11K0F3E	1.2 W (ERP)	
29.73 MHz	MO	11K0F3E 16K0F3E	1.2 W (ERP)	
29.75 MHz	MO	11K0F3E 16K0F3E	1.2 W (ERP)	
29.77 MHz	MO	11K0F3E 16K0F3E	1.2 W (ERP)	
29.79 MHz	MO	11K0F3E 16K0F3E	1.2 W (ERP)	
43.32 MHz	MO	11K0F3E 16K0F3E	1.2 W (ERP)	
44.6 MHz	MO	11K0F3E 16K0F3E	1.2 W (ERP)	
48.56 MHz	MO	11K0F3E 16K0F3E	1.2 W (ERP)	

Frequency Information

MOBILE: 160 km radius of Harrisburg, PA, within 160 km, centered around NL 40-16-18; WL 76-53-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
48.8 MHz	MO	11K0F3E 16K0F3E	1.2 W (ERP)	
49.48 MHz	MO	11K0F3E 16K0F3E	1.2 W (ERP)	
151.595 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	
151.9175 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	
152.4275 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	
152.8775 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	
153.0125 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	

Frequency Information

MOBILE: 160 km radius of Harrisburg, PA, within 160 km, centered around NL 40-16-18; WL 76-53-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
153.3875 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	
157.65 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	
159.975 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	
173.225 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	
173.375 MHz	MO	4K00F1E 7K60F1W 11K0F3E	5 W (ERP)	
452.275 MHz	MO	11K0F3E 7K60F1W 4K00F1E	4 W (ERP)	
456.3 MHz	MO	11K0F3E 7K60F1W	4 W (ERP)	

Frequency Information

MOBILE: 160 km radius of Harrisburg, PA, within 160 km, centered around NL 40-16-18; WL 76-53-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
456.3 MHz	MO	4K00F1E	4 W (ERP)	
456.5 MHz	MO	11K0F3E 7K60F1W 4K00F1E	4 W (ERP)	
456.775 MHz	MO	11K0F3E 7K60F1W 4K00F1E	4 W (ERP)	
456.95 MHz	MO	11K0F3E 7K60F1W 4K00F1E	4 W (ERP)	
457.225 MHz	MO	11K0F3E 7K60F1W 4K00F1E	4 W (ERP)	
464.9875 MHz	MO	11K0F3E 7K60F1W 4K00F1E	4 W (ERP)	
467.25 MHz	MO	11K0F3E 7K60F1W 4K00F1E	4 W (ERP)	

Frequency Information

MOBILE: 160 km radius of Harrisburg, PA, within 160 km, centered around NL 40-16-18; WL 76-53-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
467.45 MHz	MO	11K0F3E 7K60F1W 4K00F1E	4 W (ERP)	
467.9125 MHz	MO	11K0F3E 7K60F1W 4K00F1E	5 W (ERP)	
811.7875 MHz	MO	7K60F1W	2.5 W (ERP)	
813.3875 MHz	MO	7K60F1W	2.5 W (ERP)	
814.4125 MHz	MO	7K60F1W	2.5 W (ERP)	
856.7875 MHz	MO	7K60F1W	2.5 W (ERP)	
858.3875 MHz	MO	7K60F1W	2.5 W (ERP)	
859.4125 MHz	MO	7K60F1W	2.5 W (ERP)	
896.2 MHz	MO	7K60F1W	2.5 W (ERP)	

Frequency Information

MOBILE: 160 km radius of Harrisburg, PA, within 160 km, centered around NL 40-16-18; WL 76-53-11

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
898.65 MHz	MO	7K60F1W	2.5 W (ERP)	
900.3875 MHz	MO	7K60F1W	2.5 W (ERP)	
900.675 MHz	MO	7K60F1W	2.5 W (ERP)	
935.2 MHz	MO	7K60F1W	2.5 W (ERP)	
937.65 MHz	MO	7K60F1W	2.5 W (ERP)	
939.3875 MHz	MO	7K60F1W	2.5 W (ERP)	
939.675 MHz	MO	7K60F1W	2.5 W (ERP)	

Special Conditions:

- (1) The station identification requirements of Section 5.115 of the Commission's Rules are waived.
- (2) 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.
- (3) 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.
- (4) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

Special Conditions:

- (5) The licensee must obtain consent from the following within 50 miles of the contours of the testing area:

Paging Service licensees in 43 MHz

Paging Service licensees in 152 MHz

SMR licensees (809-824 MHz/854-869 MHz)

B/ILT licensees (809-824 MHz/854-869 MHz)

SMR licensees (896-901 MHz/935-940 MHz)

B/ILT licensees (896-901 MHz/935-940 MHz)