

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

EXPERIMENTAL
(Nature of Service)

XT FX
(Class of Station)

WM2XHW
(Call Sign)

0856-EX-CR-2025
(File Number)

NAME FalconION, Inc.

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(h) of the Commission's Rules

Station Locations

- (1) Lockport (WILL), IL - NL 41-37-42; WL 88-00-44
- (2) Lockport (WILL), IL - NL 41-37-42; WL 88-00-44
- (3) Orland Park (COOK), IL - NL 41-35-29; WL 87-52-27
- (4) Orland Park (COOK), IL - NL 41-35-29; WL 87-52-27
- (5) East Graham (PIERCE), WA - NL 47-01-44; WL 122-17-58
- (6) Mt. Cleary (GRAYS HARBOR), WA - NL 46-58-30; WL 123-08-21
- (7) Manhattan (WILL), IL - NL 41-20-02; WL 87-57-29
- (8) Branchville (SUSSEX), NJ - NL 41-11-32; WL 74-45-12
- (9) Elburn (KANE), IL - NL 41-51-16; WL 88-29-50

Frequency Information

Lockport (WILL), IL - NL 41-37-42; WL 88-00-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7.14-8.4 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
9.04-9.39 MHz	FX	5K00G1D	16000 W (ERP)	0.00005 %

This authorization effective January 01, 2026 and
will expire 3:00 A.M. EST January 01, 2028

FEDERAL
COMMUNICATIONS
COMMISSION



Frequency Information

Lockport (WILL), IL - NL 41-37-42; WL 88-00-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.04-9.39 MHz	FX	10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
10.15-11.175 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
12.15-13.5 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
14-14.99 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
15.81-17.4 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
18.2-18.5 MHz	FX	5K00G1D 10K0G1D 20K0G1D	16000 W (ERP)	0.00005 %

Frequency Information

Lockport (WILL), IL - NL 41-37-42; WL 88-00-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
18.2-18.5 MHz	FX	40K0G1D	16000 W (ERP)	0.00005 %

Lockport (WILL), IL - NL 41-37-42; WL 88-00-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7.14-8.4 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %

9.04-9.39 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
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10.15-11.175 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
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12.15-13.5 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
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14-14.99 MHz	FX	5K00G1D	16000 W (ERP)	0.00005 %
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Frequency Information

Lockport (WILL), IL - NL 41-37-42; WL 88-00-44

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.99 MHz	FX	10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
15.81-17.4 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
18.2-18.5 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 mW (ERP)	0.00005 %

Orland Park (COOK), IL - NL 41-35-29; WL 87-52-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7.14-8.4 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
9.04-9.39 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %

Frequency Information

Orland Park (COOK), IL - NL 41-35-29; WL 87-52-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10.15-11.175 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
12.15-13.5 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
14-14.99 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
15.81-17.4 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
18.2-18.5 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %

Frequency Information

Orland Park (COOK), IL - NL 41-35-29; WL 87-52-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7.14-8.4 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
9.04-9.39 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
10.15-11.175 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
12.15-13.5 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
14-14.99 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
15.81-17.4 MHz	FX	5K00G1D 10K0G1D 20K0G1D	16000 W (ERP)	0.00005 %

Frequency Information

Orland Park (COOK), IL - NL 41-35-29; WL 87-52-27

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15.81-17.4 MHz	FX	40K0G1D	16000 W (ERP)	0.00005 %
18.2-18.5 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %

East Graham (PIERCE), WA - NL 47-01-44; WL 122-17-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7.14-8.4 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
9.04-9.39 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
10.15-11.175 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
12.15-13.5 MHz	FX	5K00G1D	16000 W (ERP)	0.00005 %

Frequency Information

East Graham (PIERCE), WA - NL 47-01-44; WL 122-17-58

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
12.15-13.5 MHz	FX	10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
14-14.99 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
15.81-17.4 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
18.2-18.5 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %

Mt. Cleary (GRAYS HARBOR), WA - NL 46-58-30; WL 123-08-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7.14-8.4 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %

Frequency Information

Mt. Cleary (GRAYS HARBOR), WA - NL 46-58-30; WL 123-08-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
9.04-9.39 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
10.15-11.175 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
12.15-13.5 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
14-14.99 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
15.81-17.4 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
18.2-18.5 MHz	FX	5K00G1D 10K0G1D 20K0G1D	16000 W (ERP)	0.00005 %

Frequency Information

Mt. Cleary (GRAYS HARBOR), WA - NL 46-58-30; WL 123-08-21

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
18.2-18.5 MHz	FX	40K0G1D	16000 W (ERP)	0.00005 %

Manhattan (WILL), IL - NL 41-20-02; WL 87-57-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7.14-8.4 MHz	FX	10K0G1D 20K0G1D 5K00G1D 40K0G1D	16000 W (ERP)	0.00005 %

9.04-9.4 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
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10.15-11.175 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
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12.15-13.5 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
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14-14.99 MHz	FX	5K00G1D	16000 W (ERP)	0.00005 %
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Frequency Information

Manhattan (WILL), IL - NL 41-20-02; WL 87-57-29

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
14-14.99 MHz	FX	10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
15.8-17.4 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
18-18.5 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %

Branchville (SUSSEX), NJ - NL 41-11-32; WL 74-45-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7.14-8.4 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
9.04-9.39 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %

Frequency Information

Branchville (SUSSEX), NJ - NL 41-11-32; WL 74-45-12

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
10.15-11.175 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
12.15-13.5 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
14-14.99 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
15.81-17.4 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
18.2-18.5 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %

Frequency Information

Elburn (KANE), IL - NL 41-51-16; WL 88-29-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
7.14-8.4 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
9.04-9.39 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
10.15-11.175 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
12.15-13.5 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
14-14.99 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %
15.81-17.4 MHz	FX	5K00G1D 10K0G1D 20K0G1D	16000 W (ERP)	0.00005 %

Frequency Information

Elburn (KANE), IL - NL 41-51-16; WL 88-29-50

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
15.81-17.4 MHz	FX	40K0G1D	16000 W (ERP)	0.00005 %
18.2-18.5 MHz	FX	5K00G1D 10K0G1D 20K0G1D 40K0G1D	16000 W (ERP)	0.00005 %

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.
- (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) Prior to equipment authorization or a determination of compliance, the device must be accompanied by a conspicuous notice worded as follows: "This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained."
- (4) All transmitting and/or receiving equipment used in the study shall be owned by the licensee.
- (5) The designated point of contact to terminate the systems if interference occurs is Jim Panozzo (312) 590-9894.
- (6) Upon notification from the FCC, operation on this assignment is subject to immediate cessation, if it causes harmful interference to International Broadcast Stations, FAA and Coast Guard operations.
- (7) Operation is not permitted using the following frequency bands:
7.2-7.45 MHz
9.4 MHz
15.8 MHz
- (8) Non-approved equipment must be retrieved and labeled.
- (9) This operation under the experimental license will not be renewed, extended, or subject to modification.
- (10) The applicant shall comply with all applicable laws, regulations, and licensing procedures of the ITU, foreign administrations, and the United States, and shall be responsible for any penalties arising from interference.

Special Conditions:

- (11) Operation is subject to prior coordination with Comcast Corporation to avoid interference. Licensee shall not cause interference to the operations of Comcast Corporation and shall cease transmission(s) immediately upon notice of such interference and notify the FCC in writing.
- (12) This license expires on either the start date of a license issued for these operations by the Wireless Telecommunications Bureau (WTB) or the expiration date of this license, whichever is earlier.