

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

EXPERIMENTAL
(Nature of Service)

XT FX MO
(Class of Station)

WH2XIL
(Call Sign)

0279-EX-CM-2019
(File Number)

NAME _____ Ziegler, Warren H. _____

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(d) of the Commission's Rules

Station Locations

- (1) Wayland (MIDDLESEX), MA - NL 42-21-55; WL 71-20-08; MOBILE: within 500 km of Wayland,MA, within 500 km, centered around NL 42-21-55; WL 71-20-08
- (2) Skowhegan (SOMERSET), ME - NL 44-45-37; WL 69-42-51
- (3) Lovell (OXFORD), ME - NL 44-09-03; WL 70-54-17; MOBILE: Within 250Km of Lovell, Maine, within 250 km, centered around NL 44-09-03; WL 70-54-17

Frequency Information

Wayland (MIDDLESEX), MA - NL 42-21-55; WL 71-20-08; MOBILE: within 500 km of Wayland,MA, within 500 km, centered a

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27-59 kHz	FX	150HA1A 500HG1D 500HJ2B 500HF1B 500HJ2D 500HF1D 500HF2D	5 W (ERP)	
27-59 kHz	MO	150HA1A 500HG1D	5 W (ERP)	

This authorization effective March 05, 2020 and
will expire 3:00 A.M. EST August 01, 2024

FEDERAL
COMMUNICATIONS
COMMISSION



Frequency Information

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Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27-59 kHz	MO	500HJ2B 500HF1B 500HJ2D 500HF1D 500HF2D	5 W (ERP)	
68-89 kHz	FX	150HA1A 500HG1D 500HJ2B 500HF1B 500HJ2D 500HF1D 500HF2D	10 W (ERP)	
68-89 kHz	MO	150HA1A 500HG1D 500HJ2B 500HF1B 500HJ2D 500HF1D 500HF2D	10 W (ERP)	
130-190 kHz	FX	150HA1A 500HJ2D 500HJ2B 3K00J3E 8K00A3E 500HG1D 500HF1B 500HF1D	100 W (ERP)	

Frequency Information

Wayland (MIDDLESEX), MA - NL 42-21-55; WL 71-20-08; MOBILE: within 500 km of Wayland,MA, within 500 km, centered a

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
130-190 kHz	FX	1K30J2E	100 W (ERP)	
130-190 kHz	MO	150HA1A 500HJ2D 500HJ2B 3K00J3E 8K00A3E 500HG1D 500HF1B 500HF1D 1K30J2E	100 W (ERP)	
460-488 kHz	FX	150HA1A 500HJ2B 500HJ2D 3K00J3E 10K0A3E 500HG1D 500HF1B 1K30J2E 500HF1D	1 kW (ERP)	
460-488 kHz	MO	150HA1A 500HJ2D 500HJ2B 3K00J3E 8K00A3E 500HG1D 500HF1D 500HF1B	1 kW (ERP)	

Frequency Information

Wayland (MIDDLESEX), MA - NL 42-21-55; WL 71-20-08; MOBILE: within 500 km of Wayland,MA, within 500 km, centered a

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-488 kHz	MO	1K30J2E	1 kW (ERP)	
491-517 kHz	FX	150HA1A 500HJ2D 500HJ2B 3K00J3E 8K00A3E 500HG1D 500HF1B 500HF1D 1K30J2E	1 kW (ERP)	
491-517 kHz	MO	150HA1A 500HJ2D 500HJ2B 3K00J3E 8K00A3E 500HG1D 500HF1D 500HF1B 1K30J2E	1 kW (ERP)	
1.72-1.8 MHz	MO	150HA1A 10K0G7E 10K0D7E 20K0A3A 4K00J3E 2K80J2B 3K00J2C	5 kW (ERP)	

Frequency Information

Wayland (MIDDLESEX), MA - NL 42-21-55; WL 71-20-08; MOBILE: within 500 km of Wayland,MA, within 500 km, centered a

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
1.72-1.8 MHz	FX	150HA1A 10K0G7E 10K0D7E 20K0A3E 4K00J3E 2K80J2B 3K00J2C	5 kW (ERP)	

Skowhegan (SOMERSET), ME - NL 44-45-37; WL 69-42-51

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-488 kHz	FX	150HA1A 3K00J3E 10K0A3E 1K30J2E 500HG1D 500HJ2B 500HJ2D 500HF1B	1 kW (ERP)	
491-517 kHz	FX	150HA1A 3K00J3E 10K0A3E 500HJ2B 500HJ2D 1K30J2E 500HG1D 500HF1B	1 kW (ERP)	

Frequency Information

Lovell (OXFORD), ME - NL 44-09-03; WL 70-54-17; MOBILE: Within 250Km of Lovell, Maine, within 250 km, centered around

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
27-59 kHz	FX	150HA1A 500HG1D 500HJ2B 500HF1B	5 W (ERP)	
27-59 kHz	MO	150HA1A 500HF1D	1 kW (ERP)	
68-89 kHz	FX	150HA1A 500HG1D 500HJ2B 500HF1B 500HJ2D 500HF1D	10 W (ERP)	
68-89 kHz	MO	150HA1A 500HF1D	10 W (ERP)	
130-190 kHz	FX	150HA1A 500HJ2D 500HJ2B 3K00J3E 8K00A3E 500HG1D 500HF1B 500HF1D 1K30J2E	100 W (ERP)	
130-190 kHz	MO	150HA1A	100 W (ERP)	

Frequency Information

Lovell (OXFORD), ME - NL 44-09-03; WL 70-54-17; MOBILE: Within 250Km of Lovell, Maine, within 250 km, centered around

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
130-190 kHz	MO	500HF2D	100 W (ERP)	
460-488 kHz	FX	150HA1A 500HJ2B 500HJ2D 500HG1D 500HF1B 500HF1D 3K00J3E 500HJ2B 500HF1D 8K00A3A 1K30J2E	1 kW (ERP)	
460-488 kHz	MO	150HA1A 500HF2D 3K00J3E 8K00A3E	1 kW (ERP)	
491-517 kHz	FX	150HA1A 500HJ2D 500HJ2B 10K0A3E 4K00J3E 500HG1D 500HF1D 500HF1B 1K50J2E	1 kW (ERP)	
491-517 kHz	MO	150HA1A	1 kW (ERP)	

Frequency Information

Lovell (OXFORD), ME - NL 44-09-03; WL 70-54-17; MOBILE: Within 250Km of Lovell, Maine, within 250 km, centered around

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
491-517 kHz	MO	500HF2D 2K80J2B 4K00J3E 8K00A3E	1 kW (ERP)	
1.72-1.8 MHz	FX	150HA1A 2K60G7E 10K0G7E 2K60D7E 10K0D7E 10K0A3E 4K00J3E 2K80J2B 3K00J3C	5 kW (ERP)	
1.72-1.8 MHz	MO	150HA1A 2K60G7E 10K0G7E 2K60D7E 10K0D7E 10K0A3E 4K00J3E 150HA1A 10K0G7E 10K0D7E 20K0A3E 4K00J3E	5 kW (ERP)	

Special Conditions:

- (1) In lieu of frequency tolerance, the occupied bandwidth of the emission shall not extend beyond the band limits set forth above.

Special Conditions:

- (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.