

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

EXPERIMENTAL  
(Nature of Service)

WE2XGR  
(Call Sign)

XD FX MO  
(Class of Station)

0054-EX-ML-2011  
(File Number)

NAME Warren H. Ziegler

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(a, i) of the Commission's Rules

Station Locations

- (1) Burlington (HARTFORD), CT - NL 41-45-29; WL 73-00-04
- (2) Andover (ESSEX), MA - NL 42-36-50; WL 71-08-02
- (3) Ellsworth (GRAFTON), NH - NL 43-52-11; WL 71-08-02
- (4) Penn Yan (YATES), NY - NL 42-40-05; WL 77-04-28
- (5) Wayland (MIDDLESEX), MA - NL 42-21-55; WL 71-20-08; MOBILE: 300 kM radius of Wayland, MA, within 300 km
- (6) Holden (WORCESTER), MA - NL 42-19-12; WL 71-49-43
- (7) Killingworth (MIDDLESEX), CT - NL 41-21-34; WL 72-36-19
- (8) East Lyme (NEW LONDON), CT - NL 41-18-14; WL 72-14-06
- (9) Enfield (HARTFORD), CT - NL 41-59-27; WL 72-30-20
- (10) Skowhegan (SOMERSET), ME - NL 44-45-37; WL 69-42-51

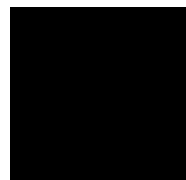
Frequency Information

Burlington (HARTFORD), CT - NL 41-45-29; WL 73-00-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-480 kHz	FX		1 kW (ERP)	
		150HA1A		
		2K80J3E		
		500HJ2B		
		2K00J2D		
		500HF1B		
		100HN1A		

This authorization effective June 14, 2011 and will expire 3:00 A.M. EST September 01, 2012

**FEDERAL  
COMMUNICATIONS  
COMMISSION**



## Frequency Information

Burlington (HARTFORD), CT - NL 41-45-29; WL 73-00-04

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-480 kHz	FX	2K00G1D 2K00J2D	1 kW (ERP)	
493-505 kHz	FX	150HA1A 2K80J3E 2K00J2D 500HJ2B 500HF1B 100HN1A 2K00G1D	1 kW (ERP)	
505-510 kHz	FX	150HA1A 2K80J3E 2K00J2D 62H0F1B 300HF1B 2K00G1D	1 kW (ERP)	
510-515 kHz	FX	150HA1A 2K80J3E 62H0F1B 300HF1B 2K00G1D	1 kW (ERP)	

Andover (ESSEX), MA - NL 42-36-50; WL 71-08-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
505-510 kHz	FX	150HA1A	200 W (ERP)	

Frequency Information

Andover (ESSEX), MA - NL 42-36-50; WL 71-08-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
505-510 kHz	FX	2K80J3E 2K00J2D 62H0F1B 300HF1B 2K00G1D	200 W (ERP)	
510-515 kHz	FX	150HA1A 2K00J2D 2K80J3E 62H0F1B 300HF1B 150HA1A 2K00J2D 2K80J3E 62H0F1B 300HF1B 2K00G1D	200 W (ERP)	

Ellsworth (GRAFTON), NH - NL 43-52-11; WL 71-08-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
505-510 kHz	FX	150HA1A 2K00J2D 2K80J3E 62H0F1B 300HF1B 2K00G1D	200 W (ERP)	
510-515 kHz	FX	150HA1A	200 W (ERP)	

## Frequency Information

Ellsworth (GRAFTON), NH - NL 43-52-11; WL 71-08-02

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
510-515 kHz	FX	2K00J2D 2K80J3E 62H0F1B 300HF1B	200 W (ERP)	

Penn Yan (YATES), NY - NL 42-40-05; WL 77-04-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-480 kHz	FX	150HA1A 2K80J3E 500HJ2B 2K00J2D 500HF1B 100HN1A 2K00G1D	1 kW (ERP)	
493-505 kHz	FX	150HA1A 2K80J3E 500HJ2B 2K00J2D 500HF1B 100HN1A 2K00G1D	1 kW (ERP)	
505-510 kHz	FX	150HA1A 2K80J3E 62H0F1B 2K00J2D 300HF1B	1 kW (ERP)	

## Frequency Information

Penn Yan (YATES), NY - NL 42-40-05; WL 77-04-28

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
505-510 kHz	FX	2K00G1D	1 kW (ERP)	
510-515 kHz	FX	150HA1A 2K80J3E 62H0F1B 300HF1B 2K00G1D 2K00J2D	1 kW (ERP)	

Wayland (MIDDLESEX), MA - NL 42-21-55; WL 71-20-08; MOBILE: 300 km radius of Wayland,MA, within 300 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-480 kHz	FX	150HA1A 2K80J3E 500HJ2B 2K00J2D 500HF1B 100HN1A 2K00G1D	1 kW (ERP)	
460-480 kHz	MO	150HA1A 2K80J3E 500HJ2B 2K00J2D 500HF1A 100HN1A 2K00G1D	1 kW (ERP)	

## Frequency Information

Wayland (MIDDLESEX), MA - NL 42-21-55; WL 71-20-08; MOBILE: 300 kM radius of Wayland,MA, within 300 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
493-505 kHz	FX	150HA1A 2K80J3E 500HJ2B	1 kW (ERP)	
493-505 kHz	MO	150HA1A 2K80J3E 2K00J2D 500HF1B 100HN1A 2K00G1D	1 kW (ERP)	
505-510 kHz	FX	150HA1A 2K00K2D 2K80J3E 62H0J2B 16H0F1B 100HN1A 2K00G1D	1 kW (ERP)	
505-510 kHz	MO	150HA1A 2K80J3E 2K00J2D 62H0F1B 2K00G1D	1 kW (ERP)	
510-515 kHz	FX	150HA1A 2K80J3E 2K00J2D 62H0F1B 300HF1B	1 kW (ERP)	

## Frequency Information

Wayland (MIDDLESEX), MA - NL 42-21-55; WL 71-20-08; MOBILE: 300 km radius of Wayland,MA, within 300 km

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
510-515 kHz	FX	2K00G1D	1 kW (ERP)	
510-515 kHz	MO	150HA1A 2K80J3E 62H0F1B 200HF1B 2K00G1D	1 kW (ERP)	

Holden (WORCESTER), MA - NL 42-19-12; WL 71-49-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-480 kHz	FX	150HA1A 2K80J3E 500HJ2B 2K00J2D 500HF1B 100HN1A 2K00G1D	1 kW (ERP)	
493-505 kHz	FX	150HA1A 2K80J3E 500HJ2B 2K00J2D 500HF1B 100HN1A 2K00G1D	1 kW (ERP)	
505-510 kHz	FX	150HA1A	1 kW (ERP)	

## Frequency Information

Holden (WORCESTER), MA - NL 42-19-12; WL 71-49-43

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
505-510 kHz	FX	2K80J3E 2K00J2D 62H0F1B 300HF1B 2K00G1D	1 kW (ERP)	
510-515 kHz	FX	150HA1A 2K00J2D 2K80J3E 300HF1B 2K00G1D	1 kW (ERP)	

Killingworth (MIDDLESEX), CT - NL 41-21-34; WL 72-36-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-480 kHz	FX	150HA1A 2K80J3E 500HJ2B 2K00J2D 500HF1B 100HN1A 2K00G1D	1 kW (ERP)	
493-510 kHz	FX	150HA1A 2K80J3E 500HJ2B 2K00J2D 500HF1B 100HN1A	1 kW (ERP)	

Frequency Information

Killingworth (MIDDLESEX), CT - NL 41-21-34; WL 72-36-19

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
493-510 kHz	FX	2H00G1D	1 kW (ERP)	
505-515 kHz	FX	150HA1A 2K80J3E 500HJ2B 2K00J2D 500HF1B 100HN1A 2K00G1D	1 kW (ERP)	
510-515 kHz	FX	150HA1A 2K80J3E 500HJ2B 2K00J2D 500HF1B 100HN1A 2K00G1D	1 kW (ERP)	

East Lyme (NEW LONDON), CT - NL 41-18-14; WL 72-14-06

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-480 kHz	FX	150HA1A 2K80J3E 500HJ2B 2K00J2D 500HF1B 100HN1A 2K00G1D	1 kW (ERP)	

Frequency Information

East Lyme (NEW LONDON), CT - NL 41-18-14; WL 72-14-06

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-480 kHz	FX	150HA1A	1 kW (ERP)	
493-510 kHz	FX	150HA1A 2K80J3E 2K00J2D 500HJ2B 500HF1B 100HN1A 2K00G1D	1 kW (ERP)	
510-515 kHz	FX	150HA1A 2K80J3E 500HJ2B 2K00J2D 500HF1B 100HN1A 2K00G1D	1 kW (ERP)	

Enfield (HARTFORD), CT - NL 41-59-27; WL 72-30-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-480 kHz	FX	150HA1A 2K80J3E 500HJ2B 2K00J2D 500HF1B 100HN1A 2K00G1D	1 kW (ERP)	

## Frequency Information

Enfield (HARTFORD), CT - NL 41-59-27; WL 72-30-20

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
493-510 kHz	FX	150HA1A 2K80J3E 100HN1A 2K00J2D 500HF1B 2K00G1D	1 kW (ERP)	
510-515 kHz	FX	150HA1A 2K80J3E 2K00J2B 2K00J2D 500HF1B 100HN1A 2K00G1D	1 kW (ERP)	

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
460-480 kHz	FX	150HA1A 2K80J3E 500HJ2B 2K00J2D 500HF1B 100HN1A 2K00G1D	1 kW (ERP)	
493-510 kHz	FX	150HA1A 2K80J3E 500HJ2B	1 kW (ERP)	

## Frequency Information

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

Frequency	Station Class	Emission Designator	Authorized Power	Frequency Tolerance (+/-)
493-510 kHz	FX	2K00J2D 500HF1B 100HN1A 2K00G1D	1 kW (ERP)	
510-515 kHz	FX	150HA1A 2K80J3E 500HJ2B 2K00J2D 500HF1B 100HN1A 2K00G1D	1 kW (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) Assignment in frequency band 505-515 kHz was coordinated prior to authorization with the FAA New England Coordinator, Burlington, MA. Use of frequencies under the authority of this assignment is subject to such further coordination with the FAA New England Coordinator, Burlington, MA, as necessary to ensure compatibility with existing uses.
- (4) Assignment in frequency band 505-515 kHz was coordinated prior to authorization with the FAA Eastern Coordinator, New York, NY. Use of frequencies under the authority of this assignment is subject to such further coordination with the FAA Eastern Coordinator, New York, NY, as necessary to ensure compatibility with existing uses.