Federal Communications Commission

AM STATION LICENSE

Licensee/Permittee
FAMILY STATIONS, INC.
301 MAPLE STREET, SUITE 2 (POB 286)
SHENANDOAH, IA, 51601

Call Sign	Facility ID
KYFR	20806

File Number	This License Modifies License No.	
0000231823	BML-20000519ADZ	
Filing Date	**Grant Date**	**Expiration Date**
12/07/2023	03/26/2024	02/01/2029
Description Text		
MOM proof.		

Community of License	Frequency (KHz)	Station Class	Service Type
City: Shenandoah **State:** IA	920	B	Main
Facility Type			
Noncommercial Educational			
Hours of Operation			
Daytime Nighttime			
Station Antenna Modes/Antenna Types			
Daytime: Directional Nighttime: Directional			

Average Hours of Sunrise and Sunset
Local Standard Time (Non-Advanced)

Month	Sunrise	Sunset
January	7:45	17:15
February	7:15	18:00
March	6:30	18:30
April	5:45	19:00
May	5:00	19:30
June	4:45	20:00
July	5:00	19:45
August	5:30	19:15
September	6:00	18:30
October	6:30	17:45
November	7:00	17:00
December	7:45	17:00

Transmitter

Type Accepted. See Sections 73.1660, 73.1665, and 73.1670 of the Commission's Rules

Antenna Mode: Daytime

Antenna Type: Directional

Antenna Coordinates (NAD 83)

Latitude
40° 37' 22.0" N

Longitude
95° 14' 42.9" W

Nominal Power (kW)
5.000

Antenna Input Power (kW)
5.400

Current (Amperes)
10.400

Resistance (Ohms)
50

Antenna Structure Registration Number(s)

Tower No.	ASRN	Overall Height *(m)*
1	1017941	83.1
2	1017942	83.1
3	1017943	83.1

Description of Daytime Directional Antenna System

Theoretical RMS *(mV/m/km)*	Standard RMS *(mV/m/km)*	Augmented RMS *(mV/m/km)*	Q Factor
656.76	690		

Theoretical Parameters

Tower No.	Field Ratio	Phasing *(deg.)*	Spacing *(deg.)*	Orientation *(deg.)*	Tower Ref. Switch*	Height *(deg.)*
1	1	0	0	0	0	90.0
2	0.765	-72.9	175	257	0	90.0
3	0.275	-143.6	350	257	0	90.0

** Tower Reference Switch*

0 = Spacing and orientation from reference tower
1 = Spacing and orientation from previous tower

Top-Loaded/Sectionalized Tower Parameters: (See 47 CFR 73.160)

Tower No.	Tower Type	A	B	C	D
1	Neither				
2	Neither				
3	Neither				

Monitoring Points

Radial *(Deg. T)*	**Distance From Transmitter** *(km)*	**Maximum Field Strength** *(mV/m)*

Operating Parameters

Tower	Antenna monitor current sample or voltage sample ratio	Antenna monitor phase indication (degree)
1	1.000	0
2	0.793	-69.2
3	0.281	-137.2

Antenna Mode: Nighttime

Antenna Type: Directional

Antenna Coordinates (NAD 83)

Latitude
40° 37' 22.0" N

Longitude
95° 14' 42.9" W

Nominal Power (kW)
2.500

Antenna Input Power (kW)
2.700

Current (Amperes)
7.350

Resistance (Ohms)
50

Antenna Structure Registration Number(s)

Tower No.	ASRN	Overall Height *(m)*
1	1017941	83.1
2	1017942	83.1
3	1017943	83.1
4	1017944	83.1

Description of Nighttime Directional Antenna System

Theoretical RMS *(mV/m/km)*	Standard RMS *(mV/m/km)*	Augmented RMS *(mV/m/km)*	Q Factor
451.47	474.33		

Theoretical Parameters

Tower No.	Field Ratio	Phasing *(deg.)*	Spacing *(deg.)*	Orientation *(deg.)*	Tower Ref. Switch*	Height *(deg.)*
1	1	0	0	0	0	90.0
2	0.8662	-77.8	175	257	0	90.0
3	0.6694	-152.01	350	257	0	90.0
4	0.3232	-227.6	525	257	0	90.0

** Tower Reference Switch*

0 = Spacing and orientation from reference tower
1 = Spacing and orientation from previous tower

Top-Loaded/Sectionalized Tower Parameters: (See 47 CFR 73.160)

Tower No.	Tower Type	A	B	C	D
1	Neither				
2	Neither				
3	Neither				
4	Neither				

Monitoring Points

Radial *(Deg. T)*	Distance From Transmitter *(km)*	Maximum Field Strength *(mV/m)*

Operating Parameters

Tower	Antenna monitor current sample or voltage sample ratio	Antenna monitor phase indication (degree)
1	1.000	0
2	0.898	-74.3
3	0.694	-148.6
4	0.305	132.2

Special operating conditions or restrictions

The permittee /licensee in coordination with other users of the site must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.

- Ground System consists of 120 radials 82.3m in length about the base of each tower. Intersecting radials are terminated at copper strap.

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 set forth in this license, the licensee is hereby authorized to use and operate the radio transmitting apparatus herein described.

This license is issued on the licensee's representation that the statements contained in licensee's application are true and that the undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term of this license, render such broadcasting service as will serve the public interest, convenience, or necessity to the full extent of the privileges herein conferred.

This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequency designated in the license beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This license is subject to the right of use or control by the Government of the United States conferred by Section 606 of the Communications Act of 1934.