

# Federal Communications Commission

## AM STATION LICENSE

**Licensee/Permittee**

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

<b>Call Sign</b>	<b>Facility ID</b>
KYFR	20806

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

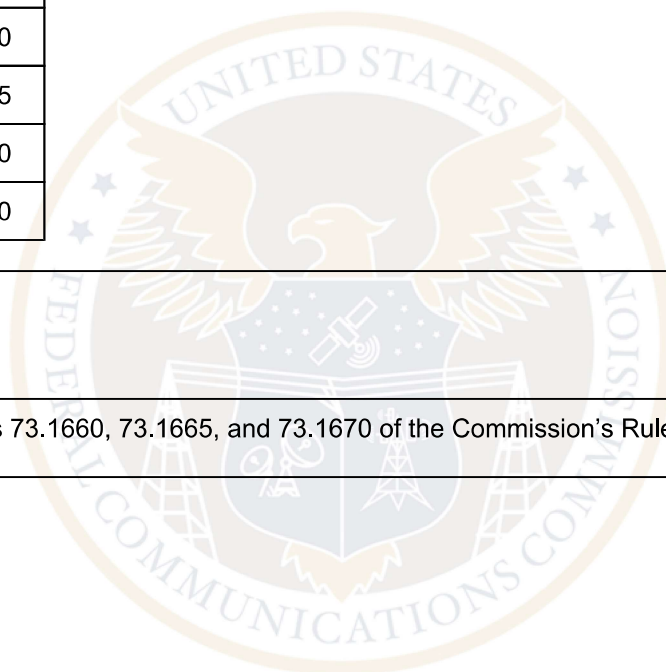
<b>Community of License</b> City: Shenandoah State: IA	<b>Frequency (KHz)</b> 920	<b>Station Class</b> B	<b>Service Type</b> Main
<b>Facility Type</b> Noncommercial Educational			
<b>Hours of Operation</b> Daytime Nighttime			
<b>Station Antenna Modes/Antenna Types</b> Daytime: Directional Nighttime: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

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

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

<b>Antenna Coordinates (NAD 83)</b>  <b>Latitude</b> 40° 37' 22.0" N  <b>Longitude</b> 95° 14' 42.9" W	<b>Nominal Power (kW)</b> 5.000  <b>Antenna Input Power (kW)</b> 5.400  <b>Current (Amperes)</b> 10.400  <b>Resistance (Ohms)</b> 50
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## 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**

<b>Radial</b> ( <i>Deg. T</i> )	<b>Distance From Transmitter</b> ( <i>km</i> )	<b>Maximum Field Strength</b> ( <i>mV/m</i> )
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**Operating Parameters**

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



# Antenna Mode: Nighttime

Antenna Type: Directional

<b>Antenna Coordinates (NAD 83)</b>  <b>Latitude</b> 40° 37' 22.0" N  <b>Longitude</b> 95° 14' 42.9" W	<b>Nominal Power (kW)</b> 2.500  <b>Antenna Input Power (kW)</b> 2.700  <b>Current (Amperes)</b> 7.350  <b>Resistance (Ohms)</b> 50
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**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)**

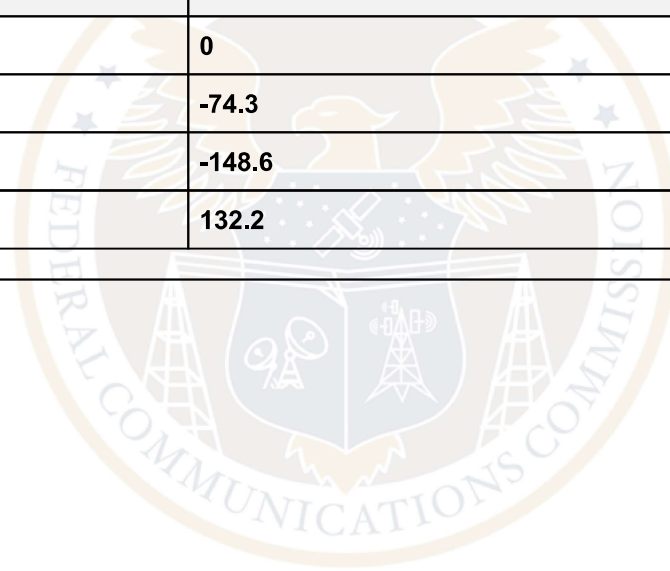
Tower No.	Tower Type	A	B	C	D
1	Neither				
2	Neither				
3	Neither				
4	Neither				

**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.

