



**United States of America**  
**FEDERAL COMMUNICATIONS COMMISSION**  
**AM BROADCAST STATION LICENSE**

Authorizing Official:

Official Mailing Address:

AMERICAN EDUCATION FOUNDATION, INC.  
 ONE BROADCAST CENTER  
 PLANO IL 60545

  
 Son Nguyen  
 Supervisory Engineer  
 Audio Division  
 Media Bureau

Facility Id: 33878

Call Sign: WOAM

License File Number: BML-20220609AAD

Grant Date: June 15, 2022

This license expires 3:00 a.m.  
 local time, December 01, 2028.

This modifies license no.: BZ-20151224AAP to change the operating status from non-commercial to commercial.

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.

Hours of Operation: Unlimited

Average hours of sunrise and sunset:  
 Local Standard Time (Non-Advanced)

Jan.	7:15 AM	5:00 PM	Jul.	4:45 AM	7:30 PM
Feb.	7:00 AM	5:30 PM	Aug.	5:00 AM	7:00 PM
Mar.	6:15 AM	6:00 PM	Sep.	5:45 AM	6:15 PM
Apr.	5:15 AM	6:30 PM	Oct.	6:15 AM	5:15 PM
May	4:45 AM	7:15 PM	Nov.	6:45 AM	4:45 PM
Jun.	4:30 AM	7:30 PM	Dec.	7:15 AM	4:30 PM

Name of Licensee: AMERICAN EDUCATION FOUNDATION, INC.

Station Location: PEORIA, IL

Frequency (kHz): 1350

Station Class: B

Antenna Coordinates:

Day

Latitude: N 40 Deg 35 Min 41 Sec

Longitude: W 89 Deg 35 Min 40 Sec

Night

Latitude: N 40 Deg 35 Min 41 Sec

Longitude: W 89 Deg 35 Min 40 Sec

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

Nominal Power (kW): Day: 1.0 Night: 1.0

Antenna Input Power (kW): Day: 1.08 Night: 1.08

Antenna Mode: Day: DA Night: DA

(DA=Directional Antenna, ND=Non-directional Antenna; CH=Critical Hours)

Current (amperes): Day: 4.65 Night: 4.65

Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1278699	
2	1278700	
3	1278748	

Night:

Tower No.	ASRN	Overall Height (m)
1	1278749	
2	1278699	
3	1278700	
4	1278748	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 321.87 Night: 331.52

Standard RMS (mV/m/km):

Augmented RMS (mV/m/km): Day: 339.58 Night: 349.44

Q Factor: Day: Night:

Theoretical Parameters:

Day Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	1.0000	0.000	0.0000	0.000	0	123.5
2	0.8400	216.600	90.0000	5.500	0	123.5
3	0.3200	49.000	180.0000	5.500	0	123.5

\* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
1	5.5	36.0	609.94
2	135.0	10.6	133.58
3	145.5	10.4	128.75
4	150.8	10.4	133.58
5	225.5	10.0	126.54
6	229.0	10.0	127.14
7	347.5	36.0	577.75

Theoretical Parameters:

Night Directional Antenna:

Tower No.	Field Ratio	Phasing (Deg.)	Spacing (Deg.)	Orientation (Deg.)	Tower Ref Switch *	Height (Deg.)
1	1.2000	123.000	0.0000	0.000	0	123.5
2	2.0000	-47.500	90.0000	5.500	0	123.5
3	2.0000	-189.500	90.0000	5.500	1	123.5
4	1.2000	0.000	90.0000	5.500	1	123.5

\* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Augmentation Parameters:

Aug No.	Central Azimuth (Deg. T)	Span (Deg.)	Radiation at Central Azimuth (mV/m @ 1 km)
1	70.5	13.6	34.76
2	70.5	10.0	48.28
3	77.3	13.4	48.28
4	84.0	13.4	48.28
5	105.0	10.0	157.75
6	135.0	10.0	347.30
7	145.5	10.4	325.92
8	150.8	10.4	296.70
9	156.0	10.0	266.54
10	218.8	13.4	284.85
11	229.0	10.0	335.44
12	262.0	10.0	183.34
13	280.0	10.0	48.28
14	287.0	14.0	48.28
15	294.0	13.0	45.06
16	300.5	13.0	33.31
17	300.5	10.0	48.28

Day Directional Operation:

Twr. Phase No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	-168	0.34
2	0	1
3	144	1.1

Night Directional Operation:

Twr. Phase No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	45	0.54
2	-144	0.9
3	0	1
4	173	0.68

Antenna Monitor: POTOMAC INSTRUMENTS AM-19

Sampling System Approved Under Section 73.68 of the Rules.

Monitoring Points:

Day Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
84	2.16	120.8
182.5	1.61	133
229	3.86	20

Night Operation:

Radial (Deg. T)	Distance From Transmitter (kM)	Maximum Field Strength (mV/m)
84	2.16	24
156	1.77	130
182.5	1.61	90
287	2.66	19.7

Special operating conditions or restrictions:

- 1 Nighttime antenna system consists of towers #1(N), #2(NC), #3(SC), and #4(S), and daytime antenna system consists of tower ##2(NC), #3(SC), and #4(S), referenced in that order.
- 2 Ground system consists of 120 equally spaced, buried, copper radials varying 76.2 to 77.7 meters in length, except where intersecting radials are shortened and bonded to a transverse copper strap midway between adjacent towers, plus a copper ground screen 14.6 meters square, about the base of each tower.
- 3 The licensee 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.
- 4 American Educational Foundation, Inc. requests waiver of 47. C.F.R. Section 73.1125 to operate the proposed facility as "satellite" of co-owned noncommercial educational FM station WMNK(FM), Minooka, Illinois, (Facility ID No.: 177028). Based upon the specific representations contained therein, the waiver request IS GRANTED. Applicant shall abide by each representation proffered in the waiver request.

Special operating conditions or restrictions:

5 MONITOR POINT DESCRIPTIONS

84° - Proceed from transmitter building to county road, turn right on county road and proceed north to intersection with State Route 98, then right on State route 98 for 2.6 km to county road on right, then right on county road for approximately 0.96 km to gate on right side of road. Point just south of the gate, 2.16 km from center of array, max 120.8 mV/m day; 24.0 mV/m night.

156° - Proceed from transmitter building to county road, then right on the county road north for 1.2 km to State Route 98, then right on State Route 98 for 2.6 km to county road on right, then right onto county road for approximately 3.22 km to intersection with Sheridan Road, then right onto Sheridan Road for approximately for approximately 1.7 km to gate on right side of road. Point located 15 feet east of this gate, 1.77 km from center of array, max 130 mV/m night.

182.5° - Proceed from transmitter building to county road, then right on the county road north for 1.2 km to State Route 98, then right on State Route 98 for 2.6 km to county road on right, then right onto county road for approximately 3.22 km to intersection with Sheridan Road, then right onto Sheridan Road for approximately 2.4 km to point on edge of field on right side of road. Point located 1.61 km from center of array, max 133.0 mV/m daytime; 90 mV/m night;.

229° - From intersection of Sheridan Road and 16th Street, proceed left onto 16th Street for 1.12 km to State Street, and point is located 50 feet to the left on State Street, 3.86 km from center of array, max 20.0 mV/m day.

287° - Proceed from transmitter building to county road, then right on county road to State Route 98, then left onto State route 98 for 2.33 km to Black- topped Lane on left, then left onto Black-topped Lane for 0.27 km to small white stake on right of road. Point located 2.66 km from center of array. max 19.7 mV/m night.

\*\*\* END OF AUTHORIZATION \*\*\*