



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

Authorizing Official:

Official Mailing Address:

TRI-COUNTY BROADCASTING, INC.  
BOX 366  
SAUK RAPIDS MN 56379

Son Nguyen  
Supervisory Engineer  
Audio Division  
Media Bureau

Facility Id: 26980

Call Sign: WBHR

License File Number: BMML-20121005AGV

Grant Date: October 14, 2014

This license expires 3:00 a.m.  
local time, April 01, 2021.

This license covers Permit No.: BZ-20110517AFI

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.	8:00 AM	5:00 PM	Jul.	4:45 AM	8:00 PM
Feb.	7:15 AM	5:45 PM	Aug.	5:15 AM	7:30 PM
Mar.	6:30 AM	6:15 PM	Sep.	6:00 AM	6:30 PM
Apr.	5:30 AM	7:00 PM	Oct.	6:30 AM	5:30 PM
May	4:45 AM	7:45 PM	Nov.	7:15 AM	4:45 PM
Jun.	4:30 AM	8:00 PM	Dec.	7:45 AM	4:30 PM

Callsign: WBHR

License No.: BMML-20121005AGV

Name of Licensee: TRI-COUNTY BROADCASTING, INC.

Station Location: SAUK RAPIDS, MN

Frequency (kHz): 660

Station Class: B

Antenna Coordinates:

Day

Latitude: N 45 Deg 36 Min 18 Sec

Longitude: W 94 Deg 08 Min 21 Sec

Night

Latitude: N 45 Deg 36 Min 18 Sec

Longitude: W 94 Deg 08 Min 21 Sec

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

Nominal Power (kW): Day: 10.0 Night: 0.50

Antenna Input Power (kW): Day: 10.5 Night: 0.54

Antenna Mode: Day: DA Night: DA

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

Current (amperes): Day: 14.51 Night: 3.29

Resistance (ohms): Day: 50 Night: 50

Antenna Registration Number(s):

Day:

Tower No.	ASRN	Overall Height (m)
1	1024200	
2	1024202	

Night:

Tower No.	ASRN	Overall Height (m)
1	1024199	
2	1024201	
3	1024202	

DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM

Theoretical RMS (mV/m/km): Day: 948.37 Night: 202.92

Standard RMS (mV/m/km): Day: 995.8 Night: 213.33

Augmented RMS (mV/m/km):

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	70.0
2	0.7800	90.000	90.0000	195.000	0	70.0

\* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Theoretical Parameters:

Night 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	70.0
2	0.6800	-49.000	132.0000	276.000	0	70.0
3	0.1000	-30.000	119.6000	228.000	0	70.0

\* Tower Reference Switch

0 = Spacing and orientation from reference tower

1 = Spacing and orientation from previous tower

Day Directional Operation:

Twr. Phase No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1		
2	-88.4	0.752
4	0	1

Night Directional Operation:

Twr. Phase No.	Phase (Deg.)	Antenna Monitor Sample Current Ratio
1	0	1
2		
3	-47.1	0.679
4	-19.4	0.122

Antenna Monitor: POTOMAC INSTRUMENTS AM-19(204)

Sampling System Approved Under Section 73.68 of the Rules.

Special operating conditions or restrictions:

- 1 The licensee shall perform the measurements described in Section 73.155 at least once within each 24-month period.
  
- 2 The ground system consists of 120 equally-spaced buried bare copper wire radials around each tower 113.4 meters long (90°) except for those which intersect, with 4" copper straps terminating the radial intersections and interconnecting the towers.

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