

Verone

26980
TELECOMMUNICATIONS DIVISION

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NOV 14 2013

FCC Mail Room

2013 NOV 18 A 6:05

RECEIVED

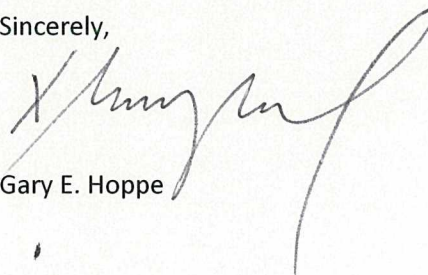
Ms. Marlene H. Dortch, Secretary
Federal Communications Commission
445 12th St. SW
Washington, DC 20554

Dear Ms. Dortch,

Enclosed is the original and two copies of an amendment to FCC form 302-AM application for station license BMML-20121005AGV for WBHR, Facility ID 26980 as requested by FCC staff.

0004200978

Sincerely,



Gary E. Hoppe

ORIGINAL

Mueller Broadcast Design

613 S. La Grange Road
La Grange, Illinois 60525
(708) 352-2166

2013 NOV 18 A 6:05

Engineering Exhibit For
Herbert M. Hoppe
WBHR (AM)
Sauk Rapids, Minnesota
October 2013

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This engineering exhibit was prepared in response to an FCC staff letter dated September 11, 2013 requesting an amendment to the pending license application BMML-20121005AGV for WBHR, Sauk Rapids, Minnesota (FCC facility ID 26980). Specifically, the letter requests that the ASRNs for towers 1 and 3 be corrected, the daytime operating parameters be amended and that the calibration information for the field intensity meter use be supplied.

The FCC form 302 section III operating parameters (question 8) has been corrected to show the correct ASRNs for towers 1 and 3, which were reversed. We apologize for this error.

In order to achieve a more equal power distribution between the two towers the phasing system was designed in 1984 with the reference being tower 4. There is no difference in the pattern between tower 2 at $1.00/0^\circ$ with tower 4 at $0.78/+90^\circ$ and tower 2 at $0.78/0^\circ$ with tower 4 at $1.00/+90^\circ$. Similarly, there is no difference in the pattern between tower 2 at $1.00/0^\circ$ with tower 4 at $0.78/+90^\circ$ and tower 2 at $0.78/-90^\circ$ with tower 4 at $1.00/0^\circ$. The model pattern parameters on page 10 of the engineering report has been amended to show tower 2 at -90° and tower 4 at 0° to correspond with the operating parameters and FCC form 302 numbers. Nothing else is affected.

The field intensity meter used to collect the readings shown on the Reference Point Readings pages (19 and 20) of the Antenna System Verification report is the WBHR Potomac Instruments FIM-21 s/n 606. It was checked against the writer's FIM-41 s/n 1655 prior to taking these measurements and was found to agree within the manufacturer's specifications. The writer's FIM-41 had been previously checked against an FIM-41 in March 2012 and that meter had been recalibrated by Potomac Instruments in February 2012. At the time the meters agreed

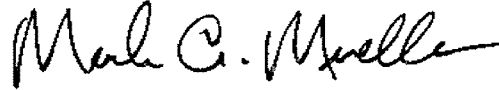
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within 0.5%. The writer's meter has since been factory calibrated in June 2013 and the WBHR meter was again checked in July 2013 and agrees with the writer's meter to within 1%.

This engineering exhibit was prepared by me and is true and correct to the best of my knowledge and belief.

October 21, 2013



Mark A. Mueller

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TOWER DRIVE INFORMATION - DAY

	Field Ratios	Field Phase	Drive Imped. (Ω)	Current	Antenna Monitor*	Power (W)
Tower 1	0.0000	0.0000	-28.35 - j794.41	0.58 \angle 5.93	(detuned)	-9.6014
Tower 2	0.7800	-90.000	37.98 - j52.26	12.37 \angle -88.43	75.2% \angle -88.4°	5815.3140
Tower 3	0.0000	0.0000	-31.58 - j793.83	0.57 \angle 14.19	(detuned)	-10.3177
Tower 4	1.0000	0.0000	15.59 - j78.46	16.46 \angle 0.00	100.0% \angle 0.0°	4226.1239
Tower 5	0.0000	0.0000	-31.06 - j1086.88	0.31 \angle 19.45	(detuned)	-3.0802
Tower 6	0.0000	0.0000	-71.11 - j1054.38	0.40 \angle 12.32	(detuned)	-11.1214
Tower 7	0.0000	0.0000	-19.74 - j764.44	0.61 \angle -15.41	(detuned)	-7.3171

Towers 1, 3, 5-7 are detuned using the appropriate series reactance.

TOWER DRIVE INFORMATION - NIGHT

	Field Ratios	Field Phase	Drive Imped. (Ω)	Current	Antenna Monitor*	Power (W)
Tower 1	1.0000	0.0000	18.92 - j77.55	3.52 \angle 0.00	100.0% \angle 0.0°	234.3421
Tower 2	0.0000	0.0000	-54.31 - j811.06	0.14 \angle 52.10	(detuned)	-1.0965
Tower 3	0.6800	-49.0000	42.78 - j78.18	2.39 \angle -47.11	67.9% \angle -47.1°	244.8501
Tower 4	0.1000	-30.0000	121.12 - j227.63	0.43 \angle -19.41	12.2% \angle -19.4°	22.8265
Tower 5	0.0000	0.0000	-97.62 - j1142.47	0.06 \angle 54.75	(detuned)	-0.3552
Tower 6	0.0000	0.0000	-45.99 - j1074.89	0.09 \angle 38.33	(detuned)	-0.3605
Tower 7	0.0000	0.0000	-13.86 - j775.57	0.12 \angle 27.28	(detuned)	-0.2066

Towers 2, 5-7 are detuned using the appropriate series reactance.

*** = These are the pattern parameters used to tune the array and are on the Form 302.**

FOR
FCC
USE
ONLY

FCC 302-AM
APPLICATION FOR AM
BROADCAST STATION LICENSE

(Please read instructions before filling out form.)

FOR COMMISSION USE ONLY
FILE NO.

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NOV 14 2013

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SECTION I - APPLICANT FEE INFORMATION			
1. PAYOR NAME (Last, First, Middle Initial) Tri-County Broadcasting Inc.			
MAILING ADDRESS (Line 1) (Maximum 35 characters) 1010 Second Street North			
MAILING ADDRESS (Line 2) (Maximum 35 characters)			
CITY Sauk Rapids	STATE OR COUNTRY (if foreign address) MN	ZIP CODE 56379	
TELEPHONE NUMBER (include area code) (320) 252-6200	CALL LETTERS WBHR	OTHER FCC IDENTIFIER (If applicable) Facility ID 26980	
2. A. Is a fee submitted with this application?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
B. If No, indicate reason for fee exemption (see 47 C.F.R. Section			
<input type="checkbox"/> Governmental Entity		<input type="checkbox"/> Noncommercial educational licensee	
		<input checked="" type="checkbox"/> Other (Please explain):	
C. If Yes, provide the following information:		Amendment to pending application	
Enter in Column (A) the correct Fee Type Code for the service you are applying for. Fee Type Codes may be found in the "Mass Media Services Fee Filing Guide." Column (B) lists the Fee Multiple applicable for this application. Enter fee amount due in Column (C).			
(A)	(B)	(C)	
FEE TYPE CODE	FEE MULTIPLE	FEE DUE FOR FEE TYPE CODE IN COLUMN (A)	FOR FCC USE ONLY
	0 0 0 1	\$	
To be used only when you are requesting concurrent actions which result in a requirement to list more than one Fee Type Code.			
(A)	(B)	(C)	
	0 0 0 1	\$	FOR FCC USE ONLY
ADD ALL AMOUNTS SHOWN IN COLUMN C, AND ENTER THE TOTAL HERE. THIS AMOUNT SHOULD EQUAL YOUR ENCLOSED REMITTANCE.		TOTAL AMOUNT REMITTED WITH THIS APPLICATION	FOR FCC USE ONLY
		\$	

SECTION II - APPLICANT INFORMATION		
1. NAME OF APPLICANT Tri-County Broadcasting Inc.		
MAILING ADDRESS 1010 Second Street North		
CITY Sauk Rapids	STATE MN	ZIP CODE 56379

2. This application is for:

- Commercial
 Noncommercial
 AM Directional
 AM Non-Directional

This license application includes a "method of moments" directional antenna proof.

Call letters WBHR	Community of License Sauk Rapids	Construction Permit File No. n/a	Modification of Construction Permit File No(s). n/a	Expiration Date of Last Construction Permit n/a
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3. Is the station now operating pursuant to automatic program test authority in accordance with 47 C.F.R. Section 73.1620?

Yes No

If No, explain in an Exhibit.

Exhibit No.
n/a

4. Have all the terms, conditions, and obligations set forth in the above described construction permit been fully met?

Yes No

If No, state exceptions in an Exhibit.

Exhibit No.
DNA

5. Apart from the changes already reported, has any cause or circumstance arisen since the grant of the underlying construction permit which would result in any statement or representation contained in the construction permit application to be now incorrect?

Yes No

If Yes, explain in an Exhibit.

Exhibit No.
DNA

6. Has the permittee filed its Ownership Report (FCC Form 323) or ownership certification in accordance with 47 C.F.R. Section 73.3615(b)?

Yes No

If No, explain in an Exhibit.

Does not apply

Exhibit No.
DNA

7. Has an adverse finding been made or an adverse final action been taken by any court or administrative body with respect to the applicant or parties to the application in a civil or criminal proceeding, brought under the provisions of any law relating to the following: any felony; mass media related antitrust or unfair competition; fraudulent statements to another governmental unit; or discrimination?

Yes No

If the answer is Yes, attach as an Exhibit a full disclosure of the persons and matters involved, including an identification of the court or administrative body and the proceeding (by dates and file numbers), and the disposition of the litigation. Where the requisite information has been earlier disclosed in connection with another application or as required by 47 U.S.C. Section 1.65(c), the applicant need only provide: (i) an identification of that previous submission by reference to the file number in the case of an application, the call letters of the station regarding which the application or Section 1.65 information was filed, and the date of filing; and (ii) the disposition of the previously reported matter.

Exhibit No.
DNA

8. Does the applicant, or any party to the application, have a petition on file to migrate to the expanded band (1605-1705 kHz) or a permit or license either in the existing band or expanded band that is held in combination (pursuant to the 5 year holding period allowed) with the AM facility proposed to be modified herein?

Yes No

If Yes, provide particulars as an Exhibit.

Exhibit No.
DNA

The APPLICANT hereby waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because use of the same, whether by license or otherwise, and requests and authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended).

The APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations and that all the exhibits are a material part hereof and are incorporated herein as set out in full in

CERTIFICATION

1. By checking Yes, the applicant certifies, that, in the case of an individual applicant, he or she is not subject to a denial of federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862, or, in the case of a non-individual applicant (e.g., corporation, partnership or other unincorporated association), no party to the application is subject to a denial of federal benefits that includes FCC benefits pursuant to that section. For the definition of a "party" for these purposes, see 47 C.F.R. Section 1.2002(b).

Yes No

2. I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith.

Name Herbert M. Hoppe	Signature <i>Herbert M Hoppe</i>	
Title Officer	Date 10/21/2013	Telephone Number (320) 252-6200

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION

FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT AND THE PAPERWORK REDUCTION ACT

The solicitation of personal information requested in this application is authorized by the Communications Act of 1934, as amended. The Commission will use the information provided in this form to determine whether grant of the application is in the public interest. In reaching that determination, or for law enforcement purposes, it may become necessary to refer personal information contained in this form to another government agency. In addition, all information provided in this form will be available for public inspection. If information requested on the form is not provided, the application may be returned without action having been taken upon it or its processing may be delayed while a request is made to provide the missing information. Your response is required to obtain the requested authorization.

Public reporting burden for this collection of information is estimated to average 639 hours and 53 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, can be sent to the Federal Communications Commission, Records Management Branch, Paperwork Reduction Project (3060-0627), Washington, D. C. 20554. Do NOT send completed forms to this address.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.

SECTION III - LICENSE APPLICATION ENGINEERING DATA

Name of Applicant	Tri-County Broadcasting, Inc.
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PURPOSE OF AUTHORIZATION APPLIED FOR: (check one)

- Station License
 Direct Measurement of Power

1. Facilities authorized in construction permit					
Call Sign WBHR	File No. of Construction Permit (if applicable) n/a	Frequency (kHz) 660	Hours of Operation Unlimited	Power in kilowatts	
				Night 0.5	Day 10
2. Station location					
State Minnesota			City or Town Sauk Rapids		
3. Transmitter location					
State MN	County Benton		City or Town Sauk Rapids	Street address 10th Ave. NE, 0.6 KM north of Golden Spike Rd.	
4. Main studio location					
State MN	County Benton		City or Town Sauk Rapids	Street address (or other identification) 1010 Second St., North	
5. Remote control point location (specify only if authorized directional antenna)					
State MN	County Benton		City or Town Sauk Rapids	Street address (or other identification) 1010 Second St., North	

6. Has type-approved stereo generating equipment been installed? Yes No
7. Does the sampling system meet the requirements of 47 C.F.R. Section 73.68? Yes No
- Not Applicable

Attach as an Exhibit a detailed description of the sampling system as installed.

Exhibit No. EE

8. Operating constants:						
RF common point or antenna current (in amperes) without modulation for night system 3.29			RF common point or antenna current (in amperes) without modulation for day system 14.51			
Measured antenna or common point resistance (in ohms) at operating frequency Night 50 Day 50			Measured antenna or common point reactance (in ohms) at operating frequency Night 0 Day 0			
Antenna indications for directional operation						
Towers	Antenna monitor Phase reading(s) in degrees		Antenna monitor sample current ratio(s)		Antenna base currents	
	Night	Day	Night	Day	Night	Day
1 (E) 1024201	0°	--	100%	--	(not required)	
2 (C) 1024200	--	-88.4°	--	75.2%		
3 (W) 1024199	-47.1°	-	67.9%	--		
4 (S) 1024202	-19.4°	0°	12.2%	100%		
Manufacturer and type of antenna monitor: Potomac Instruments AM-19 (204)						

SECTION III - Page 2

9. Description of antenna system ((f directional antenna is used, the information requested below should be given for each element of the array. Use separate sheets if necessary.)

Type Radiator Vertical uniform cross section triangular steel insulated towers	Overall height in meters of radiator above base insulator, or above base, if grounded. 88.4	Overall height in meters above ground (without obstruction lighting) 89.3	Overall height in meters above ground (include obstruction lighting) 90.2	If antenna is either top loaded or sectionalized, describe fully in an Exhibit. Exhibit No. n/a
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Excitation Series Shunt

Geographic coordinates to nearest second. For directional antenna give coordinates of center of array. For single vertical radiator give tower location.

North Latitude	45 °	36 '	18 "	West Longitude	94 °	08 '	21 "
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If not fully described above, attach as an Exhibit further details and dimensions including any other antenna mounted on tower and associated isolation circuits.

Exhibit No.
n/a

Also, if necessary for a complete description, attach as an Exhibit a sketch of the details and dimensions of ground system.

Exhibit No.
n/a

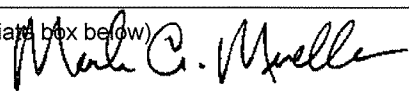
10. In what respect, if any, does the apparatus constructed differ from that described in the application for construction permit or in the permit?

Tower numbers changed so all four stations on site use same numbering system.

11. Give reasons for the change in antenna or common point resistance.

No change

I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief.

Name (Please Print or Type) Mark A. Mueller	Signature (check appropriate box below) 
Address (include ZIP Code) Mueller Broadcast Design 613 S. La Grange Rd. La Grange, IL 60525 mark@muellerbroadcastdesign.com	Date September 19, 2012 amended October 21, 2013
	Telephone No. (Include Area Code) (708) 352-2166

Technical Director

Registered Professional Engineer

Chief Operator

Technical Consultant

Other (specify)