

Federal Communications Commission Washington, D.C. 20554 <p style="text-align: center;">FCC 303-S</p>	Approved by OMB 3060-0110 (October 2003) FOR FCC USE ONLY
APPLICATION FOR RENEWAL OF BROADCAST STATION LICENSE Read INSTRUCTIONS Before Filling Out Form	FOR COMMISSION USE ONLY FILE NO. BRED - 20040520AJB

Section I - General Information- TO BE COMPLETED BY ALL APPLICANTS

1.	Legal Name of the Applicant MINNESOTA PUBLIC RADIO Mailing Address 45 EAST SEVENTH STREET <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">City ST. PAUL</td> <td style="width:20%;">State or Country (if foreign address) MN</td> <td style="width:30%;">ZIP Code 55101 -</td> </tr> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Telephone Number (include area code) 6512901259</td> <td>E-Mail Address (if available) MGRAMLING@MPR.ORG</td> </tr> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>FCC Registration Number: 0002642510</td> <td>Call Sign WGGL-FM</td> <td>Facility Identifier 42913</td> </tr> </table>	City ST. PAUL	State or Country (if foreign address) MN	ZIP Code 55101 -	Telephone Number (include area code) 6512901259	E-Mail Address (if available) MGRAMLING@MPR.ORG	FCC Registration Number: 0002642510	Call Sign WGGL-FM	Facility Identifier 42913
City ST. PAUL	State or Country (if foreign address) MN	ZIP Code 55101 -							
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FCC Registration Number: 0002642510	Call Sign WGGL-FM	Facility Identifier 42913							
2.	Contact Representative (if other than Applicant) TODD M STANSBURY, ESQ. Mailing Address 1776 K STREET NW SUITE 500 <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;">City WASHINGTON</td> <td style="width:35%;">State or Country (if foreign address) DC</td> <td style="width:35%;">Zip Code 20006 -</td> </tr> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Telephone Number (include area code) 2027194948</td> <td>E-Mail Address (if available) TSTANSBU@WRF.COM</td> </tr> </table>	City WASHINGTON	State or Country (if foreign address) DC	Zip Code 20006 -	Telephone Number (include area code) 2027194948	E-Mail Address (if available) TSTANSBU@WRF.COM			
City WASHINGTON	State or Country (if foreign address) DC	Zip Code 20006 -							
Telephone Number (include area code) 2027194948	E-Mail Address (if available) TSTANSBU@WRF.COM								
3.	If this application has been submitted without a fee, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114): <input type="radio"/> Governmental Entity <input checked="" type="radio"/> Noncommercial Educational Licensee <input type="radio"/> Other								
4.	Purpose of Application <input checked="" type="radio"/> Renewal of license <input type="radio"/> Amendment to pending renewal application If an amendment, submit as an exhibit a listing by Section and Item Number the portions of the pending application that are being revised. [Exhibit 1]								
5.	Facility Information: <input type="radio"/> Commercial <input checked="" type="radio"/> Noncommercial Educational								
6.	Service and Community of License a. <input type="radio"/> AM <input checked="" type="radio"/> FM <input type="radio"/> TV <input type="radio"/> FM Translator <input type="radio"/> LPFM <input type="radio"/> TV Translator <input type="radio"/> Low Power TV <input type="radio"/> Class A TV <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">Community of License /Area to be Served</td> </tr> <tr> <td>City: HOUGHTON</td> <td>State : MI</td> </tr> </table> b. Does this application include one or more FM translator station(s), or TV translator station(s), LPTV station(s), in addition to the station listed in Section I question 1? <input checked="" type="radio"/> Yes <input type="radio"/> No	Community of License /Area to be Served		City: HOUGHTON	State : MI				
Community of License /Area to be Served									
City: HOUGHTON	State : MI								

	(The callsign(s) of any associated FM translators, TV translators or LPTVs will be requested in Section V).
7.	Other Authorizations. List call signs, facility identifiers and location(s) of any FM booster or TV booster station(s) for which renewal of license is also requested. [Exhibit 2]

Section II - Legal - TO BE COMPLETED BY ALL APPLICANTS

1.	Certification. Licensee certifies that it has answered each question in this application based on its review of the application instructions and worksheets. Licensee further certifies that where it has made an affirmative certification below, this certification constitutes its representation that the application satisfies each of the pertinent standards and criteria set forth in the application, instructions and worksheets.	<input checked="" type="radio"/> Yes <input type="radio"/> No
2.	Character Issues. Licensee certifies that the neither the licensee nor any party to the application has or has had any interest in, or connection with:	
a.	any broadcast application in any proceeding where character issues were left unresolved or were resolved adversely against the applicant or party to the application; or	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 3]
b.	any pending broadcast application in which character issues have been raised.	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 4]
3.	Adverse Findings. Licensee certifies that, with respect to the licensee and each party to the application, no adverse finding has been made, nor has an adverse final action been taken by any court or administrative body in a civil or criminal proceeding brought under the provisions of any laws related to the following: any felony; mass media-related antitrust or unfair competition; fraudulent statements to another governmental unit; or discrimination.	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 5]
4.	FCC Violations during the Preceding License Term. Licensee certifies that, with respect to the station(s) for which renewal is requested, there have been no violations by the licensee of the Communications Act of 1934, as amended, or the rules or regulations of the Commission during the preceding license term. If No, the licensee must submit an explanatory exhibit providing complete descriptions of all violations.	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 6]
5.	Alien Ownership and Control. Licensee certifies that it complies with the provisions of Section 310 of the Communications Act of 1934, as amended, relating to interests of aliens and foreign governments.	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 7]
6.	Anti-Drug Abuse Act Certification. Licensee certifies that neither licensee nor any party to the application is subject to denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862.	<input checked="" type="radio"/> Yes <input type="radio"/> No

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. I acknowledge that all certifications and attached Exhibits are considered material representations. I hereby waive any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and request an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

Typed or Printed Name of Person Signing THOMAS J KIGIN	Typed or Printed Title of Person Signing EXECUTIVE VICE PRESIDENT
Signature	Date 5/20/2004

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 PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

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

The FCC is authorized under the Communications Act of 1934, as amended, to collect the personal information we request in this report. We will use the information you provide to determine if the benefit requested is consistent with the public interest. If we believe there may be a violation or potential violation of a FCC statute, regulation, rule or order, your request may be referred to the Federal, state or local agency responsible for investigating, prosecuting, enforcing or implementing the statute, rule, regulation or order. In certain cases, the information in your request may be disclosed to the Department of Justice or a court or adjudicative body when (a) the FCC; or (b) any employee of the FCC; or (c) the United States Government, is a party to a proceeding before the body or has an interest in the proceeding. In addition, all information provided in this form will be available for public inspection. If you owe a past due debt to the federal government, any information you provide may also be disclosed to the Department of Treasury Financial Management Service, other federal agencies and/or your employer to offset your salary, IRS tax refund or other payments to collect that debt. The FCC may also provide this information to these agencies through the matching of computer records when authorized. If you do not provide the information requested on this report, the report 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 authority. We have estimated that each response to this collection of information will average 3 hours. Our estimate includes the time to read the instructions, look through existing records, gather and maintain required data, and actually complete and review the form or response. If you have any comments on this estimate, or on how we can improve the collection and reduce the burden it causes you, please write the Federal Communications Commission, AMD-PERM, Paperwork Reduction Project (3060-0110), Washington, D. C. 20554. We will also accept your comments via the Internet if you send them to Leslie.Smith@fcc.gov. Remember - you are not required to respond to a collection of information sponsored by the Federal government, and the government may not conduct or sponsor this collection, unless it displays a currently valid OMB control number or if we fail to provide you with this notice. This collection has been assigned an OMB control number of 3060-0110.

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 1995, P.L. 104-13, OCTOBER 1, 1995, 44 U.S.C. 3507.

Section III - TO BE COMPLETED BY AM and FM LICENSEES ONLY

1.	Biennial Ownership Report: Licensee certifies that the station's Biennial Ownership Report (FCC Form 323 or 323-E) has been filed with the Commission as required by 47 C.F.R. Section 73.3615.	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 8]
2.	EEO Program: Licensee certifies that: a. The station's Broadcast EEO Program Report (FCC Form 396) has been filed with the Commission, as required by 47 C.F.R. Section 73.2080(f)(1). Specify FCC Form 396 File Number : B396 - 20040520AIA b. The station has posted its most recent Broadcast EEO Public File Report on the station's website, as required by 47 C.F.R. Section 73.2080(c)(6).	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 9] <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A See Explanation in [Exhibit 10]
3.	Local Public File. Licensee certifies that the documentation, required by 47 C.F.R. Section 73.3526 or 73.3527, as applicable, has been placed in the station's public inspection file at the appropriate times.	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 11]
4.	Discontinued Operations. Licensee certifies that during the preceding license term, the station has not been silent for any consecutive 12-month period.	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 12]
5.	Silent Station Licensee certifies that the station is currently on the air broadcasting programming intended to be received by the public.	<input checked="" type="radio"/> Yes <input type="radio"/> No
6.	Environmental Effects. Licensee certifies that the specified facility complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled	<input checked="" type="radio"/> Yes <input type="radio"/> No

and uncontrolled environments. Unless the licensee can determine compliance through the use of the RF worksheets in the Instructions to this Form, **an Exhibit is required.**

See Explanation in [Exhibit 13]

By checking "Yes" above, the licensee also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower, or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.

SECTION V - OTHER - TO BE COMPLETED BY TRANSLATOR (FM OR TV) AND LOW POWER (FM OR TV) LICENSEES ONLY

1. and 2. [Station Info and Status]

Low Power Applicants: Answer Question 2a only.

1. Station Information:			
Call Sign	Facility Identifier	Area Licensed to Serve	
W224AO	42928	City:HOUGHTON	State:MI
2. Operational Status:			
a. Silent Station: Licensee certifies that the station is currently on the air.			<input checked="" type="radio"/> Yes <input type="radio"/> No
b. Rebroadcast Status: Licensee certifies that the station is currently rebroadcasting the signal of an FM, TV, or LPTV station.			<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
If Yes, identify the station being broadcast:			
Call Sign	Facility Identifier	Area Licensed to Serve	
WGGL-FM	42913	City:HOUGHTON	State:MI
c. Rebroadcast Consent: Licensee certifies that it has obtained written authority from the licensee of the primary station identified above for retransmitting primary station's programming.			<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A

Additional Translator Info [Exhibit 30]

3. For FM Translator Applicants Only:	
a. Licensee certifies that it is in compliance with 47 C.F.R. Section 74.1232(d) which prohibits the common ownership of a commercial primary station and an FM translator station whose coverage contour extends beyond the protected contour of the commercial primary station being rebroadcast. This restriction also applies to any person or entity having any interest in, or any connection with, the primary FM station.	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 31]
b. Licensee certifies that it is in compliance with 47 C.F.R. Section 74.1232(e) which prohibits an FM translator station whose coverage contour extends beyond the protected contour of the commercial primary station being rebroadcast from receiving any support (except for specified technical assistance), before, during or after construction, directly or indirectly, from the primary station or any person or entity having any interest in, or any connection with, the primary station.	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A See Explanation in [Exhibit 32]
4. For Low Power TV Applicants Only: Licensee certifies that it has filed with the Commission, the station's Broadcast	<input type="radio"/> Yes <input type="radio"/> No

<p>EEO Program Report (FCC Form 396) and has posted the most recent Public File report on the station's website, as required by 47 C.F.R. Section 73.2080(f)(1).</p>	<p><input type="radio"/> N/A</p> <p>See Explanation in [Exhibit 33]</p>
<p>5. Environmental Effects. Licensee certifies that the specified facility complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments.</p> <p>By checking "Yes" above, the licensee also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>See Explanation in [Exhibit 34]</p>

Exhibits

Attachment 1

Attachment 2

Exhibit 8

Description: WGGL RENEWAL / EXHIBIT 8

MINNESOTA PUBLIC RADIO (MPR) FILED A BIENNIAL OWNERSHIP REPORT ON A CONSOLIDATED BASIS FOR THIS STATION AND OTHERS LICENSED TO MPR ON DECEMBER 5, 2003 (FILE NO. BOA-20031205AKK). MPR WILL FILE ITS NEXT CONSOLIDATED BIENNIAL OWNERSHIP REPORT PRIOR TO DECEMBER 1, 2004.

Attachment 8

Exhibit 13

Description: WGGL RENEWAL / EXHIBIT 13

Attachment 13

Description
WGGL RF Exposure Determination

Exhibit 34

Description: WGGL RENEWAL / EXHIBIT 34

Attachment 34

Description
W224AO RF Exposure Determination

**FCC Form 303-S
License Renewal Application for WGGL-FM
Minnesota Public Radio (FRN 0002-6425-10)**

EXHIBIT 13

WGGL RF Exposure Determination

26 April 2004

WGGL uses a side mounted, 12 bay ERI antenna, with its bottom bay located 86 meters above ground level. It shares this tower with a Channel 5 TV station, WBKP, that uses a top mounted Bogner antenna. The bottom of the Bogner is located at 122 meters above ground.

WGGL uses circular polarization with an ERP of 100 kW. WBKP is a horizontal only station with a Visual ERP of 100 kW, and a horizontal only Aural ERP of 10 kW.

The level of RF exposure from these stations was calculated using the formulas found in OET Bulletin 65, 1997 version, and OET Supplement A, also dated 1997. The maximum levels of exposure were taken from the OET Bulletin; these are 1000 uWatt/cm² for the occupational exposure level, and 200 uWatt/cm² for the general population exposure level.

The formula used for the FM exposure level was:

$$S = 33.4 (F^2)(ERP) / R^2$$

Where **F** is a field factor of .2;

ERP is the total of both Horizontal and Vertical ERP;

R is the distance from the bottom bay of the antenna to 2 meters above the ground. (The 2 meters accounts for the height of an average person's head.)

The formula used for the TV exposure level was:

$$S = 33.4 (F^2)(0.4ERP_V + ERP_A) / R^2$$

The results are as follows:

WGGL radiation level at 2 m above ground:	37.9 uW/cm ²
Percent of Occupational level:	3.8 %
Percent of General Population level:	18.9 %
WBKP radiation level at 2 m above ground:	115.9 uW/cm ²
Percent of Occupational level:	11.6 %
Percent of General Population level:	58.0 %
Total percentage of General Population level:	76.9 %
Total percentage of Occupational level:	15.4 %

Both total levels are well under the maximum permitted exposure levels, and therefore the tower complies with the OET exposure requirements.

Ralph E. Hornberger

Senior Design Engineer

26 April 2004

**FCC Form 303-S
License Renewal Application for WGGL-FM
Minnesota Public Radio (FRN 0002-6425-10)**

EXHIBIT 34

WGGL Translator W224A0 RF Exposure Determination

26 April 2004

W224A0 uses a pair of side mounted, 5 element, Vertically polarized Scala Yagi antennas. The antenna azimuths are separated by 30 degrees. The antennas are mounted at 30 m above ground level. The translator ERP is 20 Watts, Vertical only.

The level of RF exposure from this station was calculated using the formulas found in OET Bulletin 65, 1997 version, and OET Supplement A, also dated 1997. The maximum levels of exposure were taken from the OET Bulletin; these are 1000 uWatt/cm² for the occupational exposure level, and 200 uWatt/cm² for the general population exposure level.

The formula used for the FM exposure level was:

$$S = 33.4 (F^2)(ERP) / R^2$$

Where **F** is a field factor of 1;

ERP is the total of both Horizontal and Vertical ERP;

R is the distance from the bottom bay of the antenna to 2 meters above the ground. (The 2 meters accounts for the height of an average person's head.)

WGGL radiation level at 2 m above ground:	0.74 uW/cm ²
Percent of Occupational level:	0.37 %
Percent of General Population level:	0.074 %

Because both levels are well under the 5% level, this station's contribution to the overall level of RF from this tower is negligible, and no further calculations are necessary.

Ralph E. Hornberger

Senior Design Engineer

26 April 2004

**FCC Form 303-S
License Renewal Application for WGGL-FM
Minnesota Public Radio (FRN 0002-6425-10)**

EXHIBIT 34

WGGL Translator W224A0 RF Exposure Determination

26 April 2004

W224A0 uses a pair of side mounted, 5 element, Vertically polarized Scala Yagi antennas. The antenna azimuths are separated by 30 degrees. The antennas are mounted at 30 m above ground level. The translator ERP is 20 Watts, Vertical only.

The level of RF exposure from this station was calculated using the formulas found in OET Bulletin 65, 1997 version, and OET Supplement A, also dated 1997. The maximum levels of exposure were taken from the OET Bulletin; these are 1000 uWatt/cm² for the occupational exposure level, and 200 uWatt/cm² for the general population exposure level.

The formula used for the FM exposure level was:

$$S = 33.4 (F^2)(ERP) / R^2$$

Where **F** is a field factor of 1;

ERP is the total of both Horizontal and Vertical ERP;

R is the distance from the bottom bay of the antenna to 2 meters above the ground. (The 2 meters accounts for the height of an average person's head.)

WGGL radiation level at 2 m above ground:	0.74 uW/cm ²
Percent of Occupational level:	0.37 %
Percent of General Population level:	0.074 %

Because both levels are well under the 5% level, this station's contribution to the overall level of RF from this tower is negligible, and no further calculations are necessary.

Ralph E. Hornberger

Senior Design Engineer

26 April 2004