Federal Communications Commission Washington, D.C. 20554	Approved by OMB 3060-0404 (April 2001)	FOR FCC USE ONLY	
FCC 350	· · · · · · ·		
APPLICATION FOR AN FM TRANSLATOR O STATION LICENSE		FOR COMMISSION USE ONLY FILE NO. BLFT - 20170901AAD	
Read INSTRUCTIONS Before Filling Out F SECTION I - General Information	orm		
1. Legal Name of the Applicant			
MINNESOTA PUBLIC RADIO			
Mailing Address 480 CEDAR STREET			
City ST. PAUL	MN	untry (if foreign address)	ZIP Code 55101 -
Telephone Number (include area code) 6512901500		dress (if available) G@MPR.ORG	
FCC Registration Number: Call Sign 0002642510 K231BI	Facility Ide 84601	entifier	
Contact Representative (if other than Applicant) MELODIE VIRTUE	Firm or Co	mpany Name SCHUBERT BARER	
Mailing Address 1000 POTOMAC STREET NW, SUITE 200	OARVET	SCHOOLKI DAKEK	
City State or Country (if fore	ign address) ZIP Code		
WASHINGTON DC	20007 -		
Telephone Number (include area code) 2022982527		dress (if available) @GSBLAW.COM	
3. If this application has been submitted without a fee, indicate r Governmental Entity Noncommercial Educational Lic			:
V N/A (Fee Required) 4. Facility Information:			
a. C FM Booster			
	State: MN		
5. Purpose of Application			
© Cover construction permit (list original construction perm	nit file number starts v	with the prefix BPFT, or BPFT	B): BPFT-20170808AAP
O Modify an authorized license (list license file number	starts with the prefix BL	FT, BMLFT, BLFTB, or BML	FTB):
C Amend a pending application			
If an amendment, submit as an Exhibit a listing by Sect application that are being revised.	tion and Question Number	er of the portions of the pendin	g [Exhibit 1]
If an amendment, submit as an Exhibit a listing by Sect	n, an explanatory exhib		
Certification. Applicant certifies that it has answered each capplication instructions and worksheets. Applicant further ce certification below, this certification constitutes its representation standards and criteria set forth in the application instructions	rtifies that where it has ration that the application	nade an affirmative	€ Yes C No

۷.	conditions. Licensee/Permittee certifies that all terms, conditions, and construction permit have been fully met.	obligations set forth in the underlying	• Yes • No
	construction permit have been fully met.		See Explanation in [Exhibit 2]
3.	Changed Circumstances. Licensee/Permittee certifies that, apart from circumstance has arisen since the grant of the underlying construction		• Yes C No
	representation contained in the construction permit application to be in		See Explanation in [Exhibit 3]
4.	Programming. The applicant is the licensee of the primary station or that been obtained from the licensee of the primary station whose programming.	• •	⊙ Yes C No
			See Explanation in [Exhibit 4]
5.	Station ready for operation. The applicant certifies that the station is ready for regular operation.	now in satisfactory operating condition and	⊙ Yes C No
			See Explanation in [Exhibit 5]
6.	Station identification. The applicant certifies that it will comply with C.F.R. Sections 73.1201 and 74.1283.	applicable station identification rules. See 47	• Yes C No
			See Explanation in [Exhibit 6]
7.	Character Issues. Applicant certifies that neither applicant nor any painterest in or connection with:	rty to the application has or has had any	• Yes C No
	a. any broadcast application in any proceeding where character issues adversely against the applicant or party to the application; or b. any pending broadcast application in which character issues have be		See Explanation in [Exhibit 7]
8.	Adverse Findings. Applicant certifies that, with respect to the applica adverse finding has been made, nor has an adverse final action been ta		• Yes • No
	civil or criminal proceeding brought under the provisions of any law remedia-related antitrust or unfair competition; fraudulent statements to		See Explanation in [Exhibit 8]
9.	Anti-Drug Abuse Act Certification. Applicant certifies that neither a subject to denial of federal benefits pursuant to Section 5301 of the Art Section 862.		• Yes C No
	ertify that the statements in this application are true, complete, and corr		
pa	knowledge that all certifications and attached Exhibits are considered m rticular frequency as against the regulatory power of the United States be d request an authorization in accordance with this application. (See Sect	because of the previous use of the same, whether	by license or otherwise,
111 -	rped or Printed Name of Person Signing	Typed or Printed Title of Person Signing	
115	ICK KEREAKOS gnature	SENIOR VICE PRESIDENT Date	
		9/1/2017	

SECTION III - PREPARER'S CERTIFICATION

I certify that I have prepared Section III (Engineering data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name	Relationship to Applicant (e.g., Consulting Engineer)
VINCENT FUHS	ENGINEER

Signature		Date 8/31/2017		
Mailing Address 480 CEDAR STREET				
City State or Coun SAINT PAUL MN		ry (if foreign address)		ip Code 5101 -
Telephone Number (include area code) 6512901500	E-Mail Address (if available) VFUHS@MPR.ORG			

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).

Se	ction III - Engineering		
	ECHNICAL SPECIFICATIONS		
	sure that the specifications below are accurate. Contradicting data found elsewhere in this application wi	ll be disregarded. A	All items must be
	mpleted. The response "on file" is not acceptable.		
TI	CCH BOX		
1.	Channel: 231		
2.	Effective Radiated Power: 0.25 kW(H)	0.25 kW(V)	
3.	Transmitter Power Output: 0.946 kW		
	NOTE: In addition to the information called for in this section, an explanatory exhibit providing each question for which a "No" response is provided.	full particulars m	ust be submitted for
	CERTIFICATION		
	All applicants must complete this section.		
4.	Constructed Facility. The facility was constructed as authorized in the the underlying construction per	rmit.	• Yes C No
		;	See Explanation in
			[Exhibit 9]
5.	Special Operating Conditions. The facility was constructed in compliance with all special operating of terms, and obligations described in the construction permit.	conditions,	€ Yes C No
		:	See Explanation in [Exhibit 10]
	An Exhibit may be required. Review the underlying construction permit.		[Exhibit 11]
6.	Transmitter Power Output. The operating transmitter power output produces the authorized effective power	radiated	€ Yes C No
		:	See Explanation in
			[Exhibit 12]
7.	Directional Antenna. The facility does not use a directional antenna or the antenna is mounted in according the specific instructions provided by the antenna manufacturer and is oriented in the proper direction.	ordance with	€ Yes C No
		:	See Explanation in [Exhibit 13]
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PREPARER'S CERTIFICATION ON SECTION 3 MUST BE COMPLETED AND SIGNED.

Exhibits

Attachment 3	A	ttac	chm	ient	3
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Attachment 10

Exhibit 11

Description: SPECIAL OPERATING CONDITION #3

ON AUGUST 31, 2017 EMISSION MEASUREMENTS WERE MADE ON RADIO STATION K231BI DULUTH, MN. THE MEASUREMENTS WERE MADE TO DETERMINE COMPLIANCE WITH SECTION 73.317 OF THE FCC RULES.

A CONNECTION WAS MADE TO THE SAMPLE PORT OF A LINE SECTION ON THE OUTPUT OF THE TWO-STATION COMBINER AND THE INPUT TO THE TRANSMISSION LINE FEEDING THE ANTENNA, WITH BOTH SIGNALS BROADCASTING (W215CG 90.9 MHZ AND K231BI 94.1 MHZ). THE OUTPUT OF THE PORT WAS CONNECTED THROUGH A MICROWAVE FILTER COMPANY MODEL 6367-2 DOUBLE CAVITY FILTER TO AN ANRITZU MS2034B SPECTRUM ANALYZER. THEN THE ANALYZER WAS ADJUSTED TO GIVE OCCUPIED BANDWIDTH MEASUREMENTS. EACH MEASUREMENT WAS SAMPLED FOR A MINIMUM OF 10 MINUTES ON MAX HOLD.

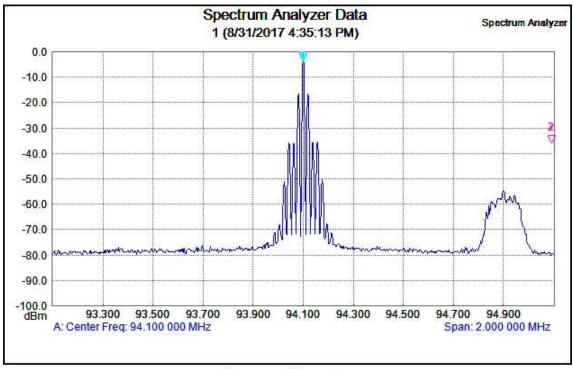
AFTER THE BANDWIDTH MEASUREMENTS WERE COMPLETED, THE ANALYZER WAS ADJUSTED TO GIVE A REFERENCE CARRIER LEVEL FOR HARMONIC AND SPURIOUS MEASUREMENTS. THE HARMONIC MEASUREMENTS WERE THEN COMPLETED. ATTACHED ARE THE .JPG FILES TRANSFERRED FROM THE SPECTRUM ANALYZER SHOWING THAT K231BI FM MEETS OR EXCEEDS ALL OF THE REQUIRED LIMITS.

Attachment 11

Description

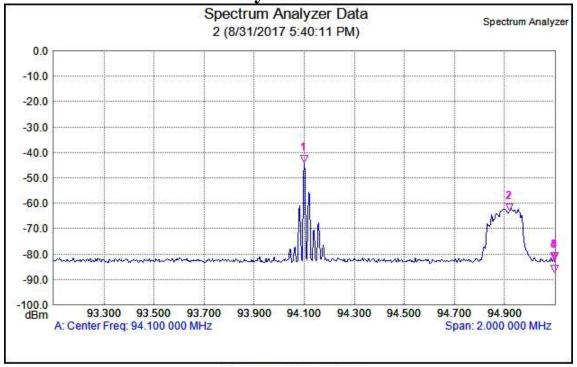
Spectrum analyser pictures showing compliance

K231BI 94.1 MHz Spectrum Carrier Isn't Nulled (94.9 Mhz signal shown is KQDS-FM located on nearby tower)



		Stop Frequency	95.100 000 MHz
Trace Mode	Max Hold	Frequency Span	2.000 000 MHz
Preamp	OFF	Reference Level	5.299 dBm
Min Sweep Time	0.001 S	Scale	10.0 dB/div
Reference Level Offset	5.299 dB	Serial Number	1310028
Input Attenuation	30.0 dB	Base Ver.	V5.70
RBW	3.0 kHz	App Ver.	V6.95
VBW	1.0 kHz	Model	MS2034B
Detection	Peak	Options	15, 31, 411, 431, 501
Center Frequency	94.100 000 MHz	Date	8/31/2017 4:35:13 PM
Start Frequency	93.100 000 MHz	Device Name	

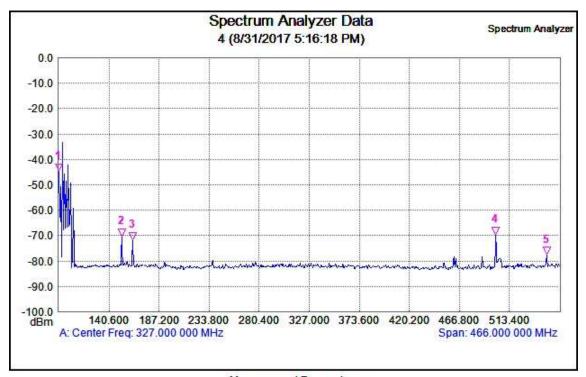
K231BI 94.1 MHz Spectrum Carrier Nulled 40db using a Microwave Filter Company Model 6367-2 Double Cavity Filter



Measurement Parameters

		Stop Frequency	95.100 000 MHz
Trace Mode	Max Hold	Frequency Span	2.000 000 MHz
Preamp	OFF	Reference Level	5.299 dBm
Min Sweep Time	0.001 S	Scale	10.0 dB/div
Reference Level Offset	5.299 dB	Serial Number	1310028
Input Attenuation	30.0 dB	Base Ver.	V5.70
RBW	3.0 kHz	App Ver.	V6.95
VBW	1.0 kHz	Model	MS2034B
Detection	Peak	Options	15, 31, 411, 431, 501
Center Frequency	94.100 000 MHz	Date	8/31/2017 5:40:11 PM
Start Frequency	93.100 000 MHz	Device Name	

K231BI 94.1 MHz Spectrum Carrier Starting at 94.0Mhz out to 560Mhz

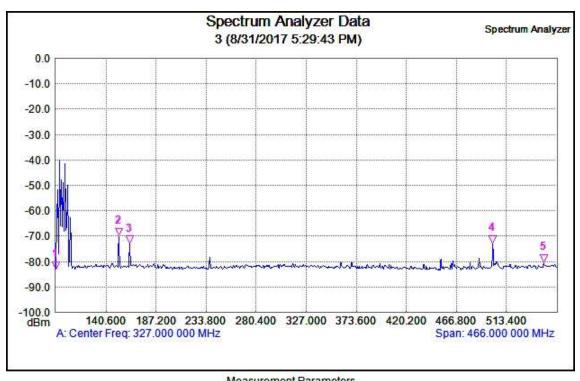


Measuremer	nt Parameters
	Ston Frague

1		Stop Frequency	560.000 000 MHz
Trace Mode	Max Hold	Frequency Span	466.000 000 MHz
Preamp	OFF	Reference Level	5.299 dBm
Min Sweep Time	0.001 S	Scale	10.0 dB/div
Reference Level Offset	5.299 dB	Serial Number	1310028
Input Attenuation	30.0 dB	Base Ver.	V5.70
RBW	3.0 kHz	App Ver.	V6.95
VBW	1.0 kHz	Model	MS2034B
Detection	Peak	Options	15, 31, 411, 431, 501
Center Frequency	327.000 000 MHz	Date	8/31/2017 5:16:18 PM
Start Frequency	94.000 000 MHz	Device Name	

K231BI 94.1 MHz Spectrum Carrier Nulled with the Transmitter tuned off

(Shows signal spikes still present)



7 7		Stop Frequency	560.000 000 MHz
Trace Mode	Max Hold	Frequency Span	466.000 000 MHz
Preamp	OFF	Reference Level	5.299 dBm
Min Sweep Time	0.001 S	Scale	10.0 dB/div
Reference Level Offset	5.299 dB	Serial Number	1310028
Input Attenuation	30.0 dB	Base Ver.	V5.70
RBW	3.0 kHz	App Ver.	V6.95
VBW	1.0 kHz	Model	MS2034B
Detection	Peak	Options	15, 31, 411, 431, 501
Center Frequency	327.000 000 MHz	Date	8/31/2017 5:29:43 PM
Start Frequency	94.000 000 MHz	Device Name	8

K231BI 94.1 MHz Harmonic Emission Report

As can be seen by the display pictures the operation of K231BI fully complies with 47 C.R.F. Sections 73.317(b), (c), and (d).