Wiley, Rein & Fielding

DUPLICATE

1776 K Street, N.W. Washington, D.C. 20006 (202) 719-7000

Writer's Direct Dial

Fax: (202) 71: -7049 www.wrf.com

March 16, 2000

(202) 719-7351

By Hand

Magalie Roman Salas, Secretary Federal Communications Commission 445 Twelfth Street, S.W. 12th Street Lobby, TW-A325 Washington, D.C. 20054 RECEIVED

MAR 1 6 2000

PROCRAL OCCUMANICATIONS COMMISSIONS
OFFICE OF THE SECRETARY

Re:

Minnesota Public Radio

Application for New Noncommercial Educational FM Translator

Minneapolis, Minnesota

Dear Ms. Salas:

Transmitted herewith, in triplicate, on behalf of Minnesota Public Radio, is an application on FCC Form 349 for a construction permit for a new, noncommercial educational FM translator on Channel 220 at Minnesota, Minnesota. This application does not require a filing fee.

Please contact the undersigned should you have any questions regarding this application

Respectfully submitted,

E. Joseph Knoll III

cc:

James Crutchfield (by hand) Mitzi T Gramling

Federal Communications	Commission
Washington, D. C. 20564	

Approved by OMB 3060-0405 Expires 09/30/98

FOR

FCC 349 APPLICATION FOR AUTHORITY TO CONSTRUCT

OR MAKE CHANGES IN AN FM TRANSLATOR OR FM BOOSTER STATION

FCC USE ONLY			<u></u>	
EOD C	OMMOSIONING	7.0403	 	
FILE NO	OMMISSION US	E ONLY		

Section I - GENERAL INFORMATION

COSTON TO GENERAL HAPORMATION		
APPLICANT NAME (Last, First, Middle Initial)		
Minnesota Public Radio		
MAILING ADDRESS (Line 1) (Maximum 35 characters) 45 East Seventh Street		
MAILING ADDRESS (Line 2) (Maximum 35 characters)		
СПУ	T	
Saint Paul	STATE OR COUNTRY (if foreign address) ZI MN 551	P CODE
TELEPHONE NUMBER (include area code) 651-290-1500	CALL LETTERS OR OTHER FCC IDENTIFIER (IF APPLICA	
2. A. Is a fee submitted with this application?	Ye	es X No
B. If No, indicate reason for fee exemption (see 47 C.F.R. Sec	ction 1.1 1 1 2).	* Z
Governmental Entity Noncommercial e	ducational licensee Other (Please explain):	
C. If Yes, provide the following information:	and the second supposition of	
Enter in Column (A) the correct Fee Type Code for the con-	ice voll are applying for Eas Time O	
Media Services Fee Filing Guide." Column (B) lists the Fee obtained from multiplying the value of the Fee Type Code in (Multiple applicable for this application. Enter in Colu	und in the "Mass mn (C) the result
obtained from multiplying the value of the Fee Type Code in (Column (A) by the number listed in Column (B).	
(A) (B)	(C)	
FEE TYPE FEE MULTIPLE CODE (if required)	FEE DUE FOR FEE TYPE CODE IN FOR FC	C USE ONLY
	COLUMN (A)	C USE ONLY
	\$	
		
This application is for: (check one box):		
FM Translator	Booster	
A. Channel No. B. Comi	munity of license:	
City		State
Minneapo	olis	MN

;ī.

C. Chec	k one of the following boxes:		
	NEW station See Ex #E1, Engineering St MODIFICATION of Constru (Check this box only if a lice	atement ction Permit (CP) cense for this particular CP has not been granted)	
	File No. of Constru	ction Permit:	
	MAJOR CHANGE in licens	ed facilities; cal <u>l</u>	
	MINOR CHANGE In license	d facilities; call sign:	
	AMENDMENT of pending a		
	Application Refere	nce No	<u>-</u>
For ame	ndments to a previously filed a	opilcation, submit complete Form 349.	
D. NATU	IRE OF PROPOSED MODIFICAT	TON, CHANGE OR AMENDMENT	
	Change Frequency	Relocate Station	
	Change Antenna System	Change Equipment	
	Change Power	Other (specify in an Exhibit)	Exhibit No. N/A
4. (a) i	To the applicant's knowledge, is lication?	this application mutually exclusive with a renewal	Yes No
app (b)	To the applicant's knowledge, is lication?	this application mutually exclusive with another	Yes X No
1f :	the answer to question 4(a) or 4	(b) is Yes, state the following information:	
	Call Letters or File No.	Community of License	
		City	State
	(a)		
	(b)		

. Section II - ENGINEERING DATA AND ANTENNA AND SITE INFORMATION

	Output	Frequency			Proposed (Community(ies) 1	To Be Served	- <u></u> -	
(a)	Channel No.		City					State	
	220	91.9 MHz	<u>. </u>	inneapoli	5			MN	
	Primary Station (station to be rebro	adcast)			• • • • • • • • • • • • • • • • • • •		<u> </u>	
	Call Sign	City				State	Output	Frequenc	
(b)	Ksjn	Minneapo	lis			MN	Channel No. 258	99.5 M	•
	Intermediate tues							1 22.2 W	IPIZ
	Call Sign	rslator station - if s	station is	to operate via a	nother trans				
(c)	N/A					State			
M1	sed transmitting and tr	of location:		State MN	Geograph	Hennepin nical coordinates	of transmitting ante	nna to neares	
	nwood Water 16 Kenwood P				second (si	ee Instructions)			
	nneapolis, M					North Latitude		t Longitude	
					44 0	58 ' 03	93 0	18 ' 2:	3
ach as a of th	an Exhibit a map e proposed transm	or maps (such as itting antenna loca	the Geo! tion, sho	ogical Survey t wing thereon th	opographic o	quadrangle map) data:	of the Exhib	it No.	
	n kilometers sed transmitting an	tenna location acc	urately pi	lotted.					
ase his	cants proposing chapposed and existing F.R. Section 74.123	transmitting ante	ult in chai nna sites	nge of coverage and the propos	e, include in the second exist	this Exhibit the lo	ocation ntours.		
	·								

3. Transmitter:	Make TTC	Type No.		Output Power P . 00359 kilowatts
4. Transmission Line:	Andrew	LDF4-50A	Length 20 meters	Rated efficiency E for length given(decimal fraction)

•	ransmitting antenna			Direction: (Multiple (Submit M patterns 8	Antennas Ianufactu) rer's	□ Noi	n-directional	
Маг	nufacturer Scala		Model CLF	 М		Description	on 1/	ross Pol	Yagi
	rall structure height		Elevation of Site 3	<u> </u>				r Gain G ^{4/}	
abo	ve ground ^{2/}	33.5 meters	<u></u>	278	meters	H 4.		V 4.0)
	ctive radiated power (E P × E × G)	$\frac{.013}{013}$ kilov	vatts (H) vatts (V)	Height of anten above ground le above mean sea	evel	ion center		9 m 287 m	neters (H) neters (V) neters (H) neters (V)
1/ Gi	ive basic type using gener , two stacked 5 element \	al descriptive terms : Yagis, etc.	such as half-wave dipo	ole, "bow-tie" with s	creen, cor	ner reflector	, 10 elemer	nt Yagi, 4 elem	ent in-phase
2/ Sh	ow height to topmost por	tion of structure in n	reters, including high	est fon mounted ant	enns and b	marcan Ifaa			
	ow the ground elevation :								
-	e the multiplier in lobe of							horizon.	
	Attach as an Exhibit structure(s), giving higround, including light significant features for horizontal separation	eight of center of ghting beacon (if or BOTH RECEIV!	radiation above g any) and height a ING AND TRANSA	round, overall he above mean sea MITTING ANTENI	eight of s level in	tructure al	bove	Exhibit No. E3	
7.	Will the proposed ant	tenna supporting st	ructure be shared v	with an AM radio	station?			Yes 🛚	No
	If Yes, list the call sign	n(s) and class of su	ch station(s).						
8.	Is a directional anteni	na proposed?	•				2	Yes [] No
	If Yes, attach as an Ex including plot(s) and Data, paragraph (A).	chibit a statement was tabulations of the	vith all data specific relative field. Sec	ed in 47 C.F.R. Se Instructions for	ctions 73. Section	.316(c)(1)-(c II - Enginee	c)(3), ering	Exhibit No. E4	
9.	Are there any terrain served which would in	n features between nterfere with line-o	n the proposed tra of-sight transmission	nsmitting site an to any part of th	d the cor e principa	mmunity to	o be [ity?	Yes [X No
	If the answer is Yes, a	ttach as an Exhibit	a description of th	e extent of the are	a affecte	d.		Exhibit No. N/A	

10.			coverage data (to be calculated in ac ata: (check only one box below)	cordance with 47 C.F.R. Section 73.3	13).			
			,					
		Linearry into	erpolated 30-second database (Source	:e)		
		7.5 minute t	opographic map	X Other (briefly summarize)				
				USGS 03 Sec, V-So	ft Commu	nications ROM		
Ba	(degree	bearing es True) 1/	Average Elevation of Radial in meters (3 to 16 km) AMSL	Height of Radiation Center above average elevation of radial from 3 to 16 km (meters)	Predicted contour	distance to the protected s (0.5, 0.7 or 1.0 mV/m) ^{2/} (kilometers)		
B0	oster O	Translator O	*	<u> </u>				
	45	30	*See Ex #E1, Pg #3	*		*		
_	90	60	*	*		*		
	35	90		- 				
	80	120				· ·		
7	25	150			<u> </u>	<u> </u>		
2	70	180			<u> </u>			
3	15	210			<u> </u>			
		. 240				<u> </u>		
		270						
<u> </u>		300						
<u></u>		330						
2/ Pro 81 FA Base	otected of station	contours vary of s - protected co	lepending on the class of station involved ontour 0.7 mV/m; all other classes of FM	ien necesary to show interference protecti d. Commercial Class B FM stations - prote stations - protected contour 1 mV/m, e the appropriate coverage contours of	cted contour			
11.	and ac	curately, and	with latitude and longitude marking	art or equivalent) that shows clearly is and a scale of distance in kilometer:	, legibly s:	Exhibit No. E5		
	(a) the	proposed cov	verage contour; and			•		
	author	protected co ized with fac Section 74.12	cilities in excess of those specified I	n to be rebroadcast. (If the primary s by 47 C.F.R. Section 73.211, see No	tation is te to 47			
12.	Based o	on the above y station's pre	, is the area to be served by the tra otected contour?	unstator or booster station entirely wi	ithin the	X Yes No		
13.	Is the a radio b	applicant spe roadcast stat	cifying a channel that is 53 or 54 cl ion in the area of operations?	nannels removed from the channel of	any FM	Yes X No		
	If Yes,	attach an Exh	ibit showing compliance with 47 C.	F.R. Section 73.207.		Exhibit No.		
	(Translators will be treated as Class A stations provided, however, that translators operating with less than 100 watts ERP will be treated as Class D stations and will not be subject to 1.F. frequency separation requirements. (See 47 C.F.R. Section 74.1204(g).)				ng with equency	N/A* *See Ex #E6 for Allocation Study		

Ű	Does the applicant have any interest in an application or an authoriz station that serves substantially the same area and rebroadcasts the same translator station? See 47 C.F.R. Section 74.1232(b).	ation for an FM to signal as the prop	ranslator osed FM	Yes	X	No
	If Yes, submit an Exhibit, showing the technical need for the additional tra	ınstator.		Exhibit N N/A	lo.	
15.	For non-commercial educational applicants intending to operate on reservine proposed operation be within the threshold distance of a TV Channel C.F.R. Section 74.1205(a)?	rved channels 201-2 6 station as set for	220, will th by 47	Yes	X	Na
	If Yes, submit an Exhibit showing compliance with paragraph (b), (c), 74.1205.	or (d) of 47 C.F.R.	Section	Exhibit N N/A	ło.	
	If applicant's compliance is based on 47 C.F.R. Section 74.1205(b), the a coordinated its antenna with the affected TV Channel 6 station.	pplicant certifies th	at it has	Yes		No N/
16.	Has the FAA been notified of proposed construction?			Yes	X	No
	If Yes, give date and office where notice was filed:			<u>-</u>		
17.	Environmental Statement (see 47 C.F.R. Section 1.1301 et seq.)					
	Would a Commission grant of this application come within 47 C.F.R. S may have a significant environmental impact, including exposure to work harmful nonionizing radiation levels?	ection 1.1307, suc ers or the general p	h that it ublic, to	Yes	X	No
	If Yes, submit as an Exhibit an Environmental Assessment as required by 4 No, explain briefly why not.	7 C.F.R. Section 1.	1311. If	Exhibit N	lo.	
	Existing authorized structure. Antenna 100 watts, so RF hazard statement is a	a ERP is less not required.	than	<u> </u>	<u></u> -	
18.	Unattended operation:					
	Is unattended operation proposed?			X Yes		No
	(a) If Yes, and this application is for authority to construct a new station facilities of an authorized station which proposes unattended operat applicant certifies that it will comply with the requirements of 47 C.F.R. unattended operation.	ion for the first t	ime, the	X Yes		No
	(b) In the space below state the name, address and telephone number of may be contacted in an emergency to suspend operation of the transl deemed necessary by the Commission.	of a person or pers ator should such a	ons who ction be			
Nam	e Minnesota Public Radio Network Control Center	Operator (o	n duty 2	4 hours)		
Addı	ess (street or other description)			, nours)		
	45 East Seventh St.					
City	St. Paul	State MN		No. (include a		le)

Section II - Page 5

	Has the applicant proposed to use equipment that is type a provisions of 47 C.F.R. Parts 73 and 74?	X	Yes		No			
	If No, and the equipment is to be notified or type accessingly include the date the equipment was submitted to the FC manufacturer commenced the notification process.	epted under 47 C.F.R. Section 74.1250(c), C Laboratory for approval or the date the						
I cei	TIFICATION tify that I represent the applicant in the capacity indicated mation and that it is true to the best of my knowledge and b	d below and that I have examined the forego	oing stat	temer	nt of t	echnica		
Sign		Typed or Printed Name Douglas L. Vernier						
Date	March 14, 2000	Telephone No. (include area code) 319 266-8402						
	Technical Director Registered Chief Operator X Other (spec	Professional Engineer Consulting 1	Engineer	r				



EXHIBIT #E1 ENGINEERING STATEMENT

Concerning the Application of
Minnesota Public Radio
To build a New FM Translator Station to Serve
Minneapolis, Minnesota

March, 2000

CH 220D

0.013 kW (DA)

This engineering statement supports the application of Minnesota Public Radio, St. Paul, Minnesota to build a new non-commercial educational FM fill-in translator station on channel 220 to serve an area of Minneapolis, Minnesota.

Under this proposal, the on-air audio signal from primary station KSJN, Channel 258, Minneapolis, will be delivered to a Television Technology, Inc. XL10FM translator unit. This translator unit generates an output power of 0.00359 kW on 91.9 MHz. The 50-ohm Andrew LDF4-50A, 1/2" Heliax, foam copper, coaxial transmission line, has an efficiency for its 20.0 meter length of 90.6 percent. Therefore, the proposed Scala CL-FM cross pol yagi antenna has at its input 0.00325 kilowatts of power. The antenna has a power gain of 4.0 resulting in an effective radiated power of 0.013 kW.

Exhibit #E2, is a full-scale site map section (Minneapolis South Quadrangle) showing the proposed translator station's antenna site location. Page #2 of this exhibit is a photo reduction, showing the map's corner edge markings.

Exhibit #E3, is a vertical sketch of the existing 33.5 meter water tower and the proposed transmit antenna at 9.0 meters above ground.

Exhibit #E4 is a composite pattern plot with tabulation in five degree increments of the proposed directional antenna pattern oriented at 160 degrees True North. Maximum ERP is 0.013 kW.

Exhibit #E5 is a Digital Line Graph map (U.S.G.S.) of the translator station's proposed one mV/m F(50-50) contour and the one mV/m (60 dBu) protected signal contour of the primary station KSJN at Minneapolis, MN.

Phone: (319) 266-8402 E-mail: dvernier@v-soft.com Fax: (319) 266-9212

A total of 12 evenly spaced radials were used to determine the antenna height above average terrain. The U.S.G.S. 03 arc second database was employed to determine the elevations along the radials that were averaged using the required four-point interpolation method. The resulting averaged radial antenna heights were employed using the Commission's own TVFMINT algorithm to project the distances to signal contours. A tabular listing of the distance to the one mV/m contour can be found on page #3 of this exhibit.

Exhibit #E6, is an allocation narrative and computer study. The allocation maps in this exhibit plot the interfering and protected signal contours at one-degree increments along relevant arcs of 120 degrees. The NGDC 03-arc-second point digital terrain database was used for all calculations. The Commission's own TVFMINT computer algorithm was used to project the signal distances using the input values of antenna height, power and desired signal level. There are no pertinent I.F. relationships. The proposed facility is not within 320 kilometers of the US Border with Canada or Mexico.

The closest channel-six station, KAAL, Austin is 149.3 kilometers from the proposed FM translator. The cutoff distance for FM translators on Channel 220 is 131 kilometers, therefore no channel-six exhibit is required.

Page #4 of Exhibit #E1 is a statement of the qualifications of the preparer.

Doug Vernier

Doug Vernier Telecommunications Consultants Minnesota Public Radio, Kenwood Translator ERP = .013 kW

T1*/T	_			12.11
Chanr	nel	=	22	20

Azimuth Deg.T.	Ave. Blev. 3 to 16 km Meters AMSL	Effective Antenna Height Meters AAT	ERP (dBk)	F(50-50) Distance to 60 dBu Contour km
0	264.0	14.0	-34.778	1.61
30	277.2	.8	-35.938	1.61
60	280.6	-2.6	-33.707	1.61
90	264.9	13.1	-36.318	1.61
120	256.8	21.2	-24.408	2.48
150	250.5	27.5	-19,288	3.28
180	262.1	15.9	-20.110	3.13
210	272.7	5.3	-28.517	1.98
240	286.8	-8.8	-35.815	1.61
270	285.8	-7.8	-33.424	1.61
300	282.1	-4.1	-37.062	1.61
330	271.3	6.7	-33.659	1.61

Ave. = 271.2 M 6.8 M

Antenna Radiation Center AMSL =278 M NGDC 03 Arc Sec.

Geographic Coordinates:

N. Lat. 44 58 03

W. Lng. 93 18 23

Declaration:

I, Doug Vernier, declare that I have received training as an engineer from the University of Michigan School of Engineering. That, I have received degrees from the University in the field of Broadcast Telecommunications. That, I have been active in broadcast consulting for over 25 years;

That, I have held a Federal Communications Commission First Class Radiotelephone License continually since 1964. In 1985, this license was reissued by the Commission as a lifetime General Radiotelephone license no. PG-16-16464;

That, I am certified as a Professional Broadcast Engineer (#50258) by the Society of Broadcast Engineers, Indianapolis, Indiana. (Re-certified 11/95.)

That, my qualifications are a matter of record with the Federal Communications Commission;

That, I have been retained by Minnesota Public Radio, St. Paul, Minnesota, and as such have prepared the engineering showings appended hereto;

That, a portion of the exhibits contained herein were prepared under my supervision by Kate Michler, Associate;

That, I have prepared these engineering showings, the technical information contained in same and the facts stated within are true of my knowledge;

Nouglas L. Vernier

That, under penalty of perjury, I declare that the foregoing is correct.

 \vdash

Executed on March 14, 2000

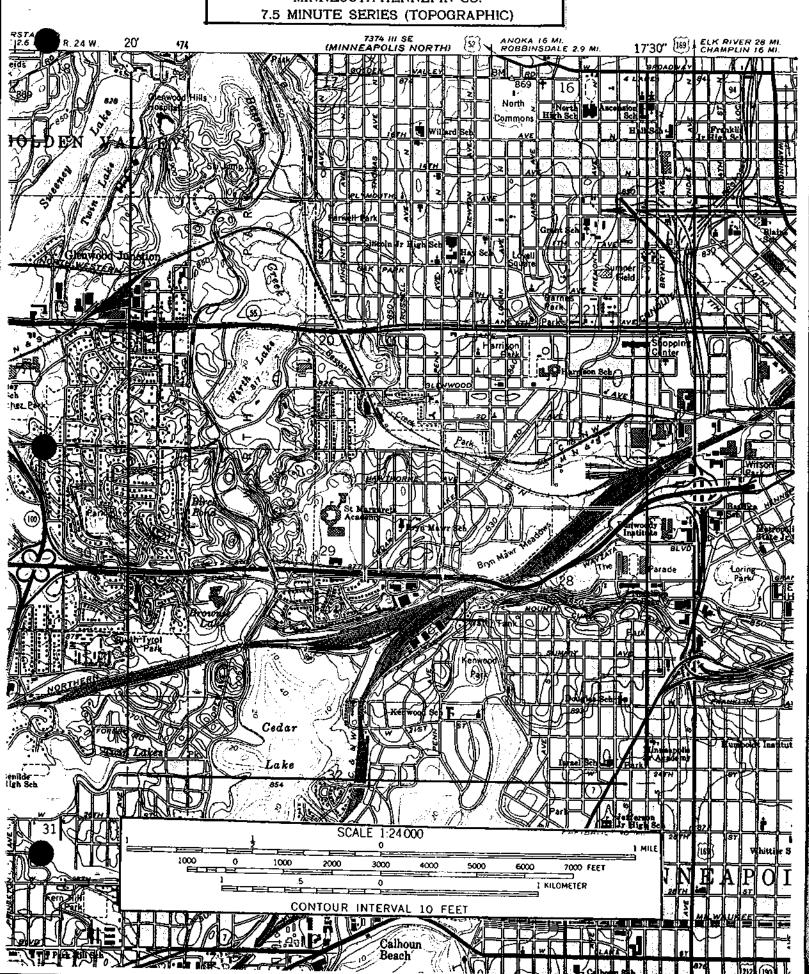
Subscribed and sworn before me this 14th day of March, 2000.

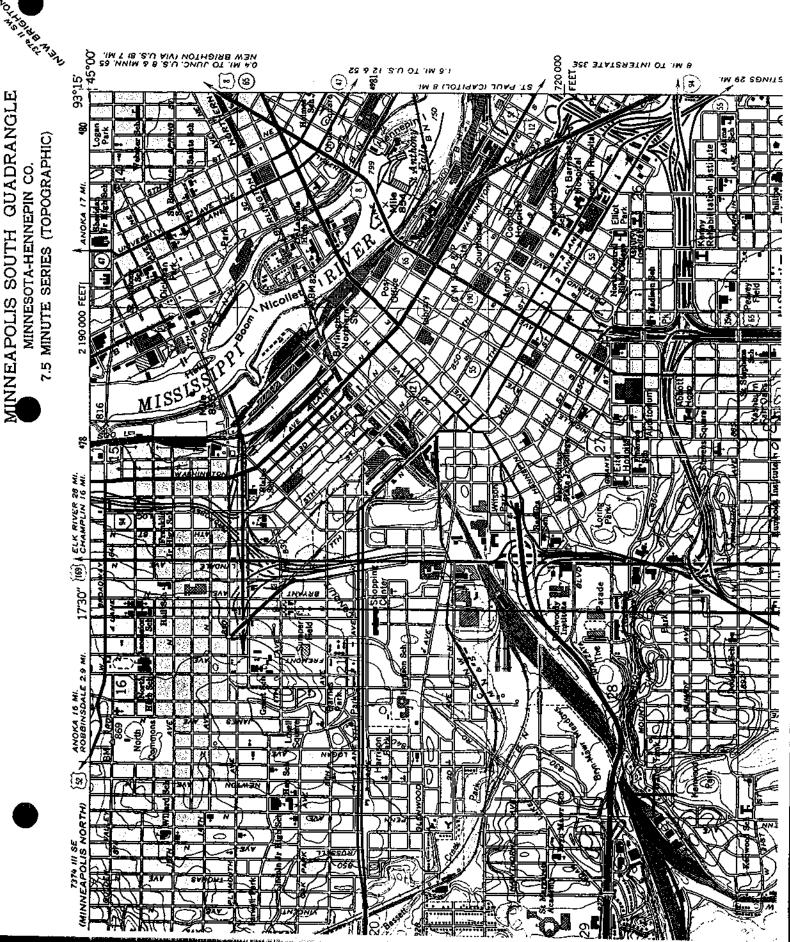
Notary Public in and for the State of Iowa

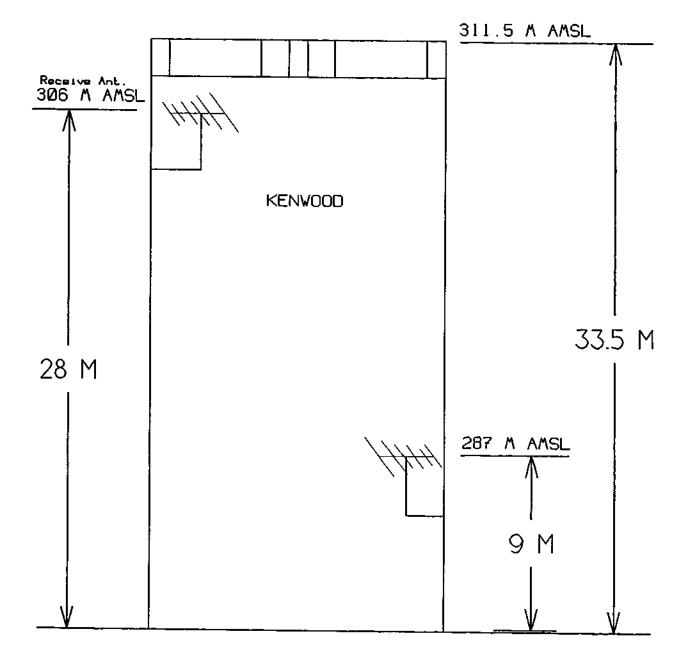
My Commission Expires August 10, 2001

MINNEAPOLIS SOUTH QUADRANGLE MINNESOTA-HENNEPIN CO.

Ex #E2, Site Map







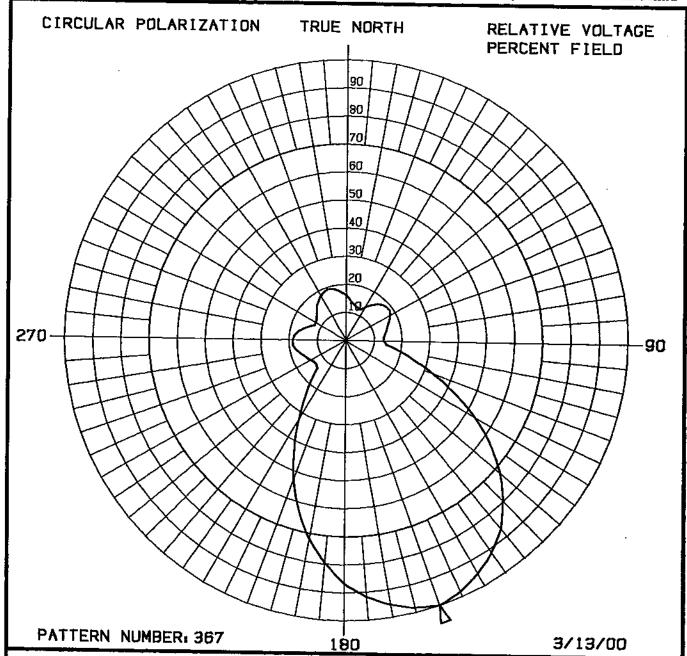
ELEVATION = 278 M

Minnesota Public Radio

MINNEAPOLIS. MINNESOTA

CH 220 - .013 kW ERP

Doug Vernier (Not to Scale)



Minnesota Public Radio Scala CLFM Oriented 160 degrees True

Doug Vernier Telecommunications Consultants 1600 Picturesque Drive Cedar Falls, IA 50613

Pattern #367

Minnesota Public Radio Scala CLFM Oriented 160 degrees True

Doug Vernier Telecommunications Consultants 1600 Picturesque Drive Cedar Falls, IA 50613

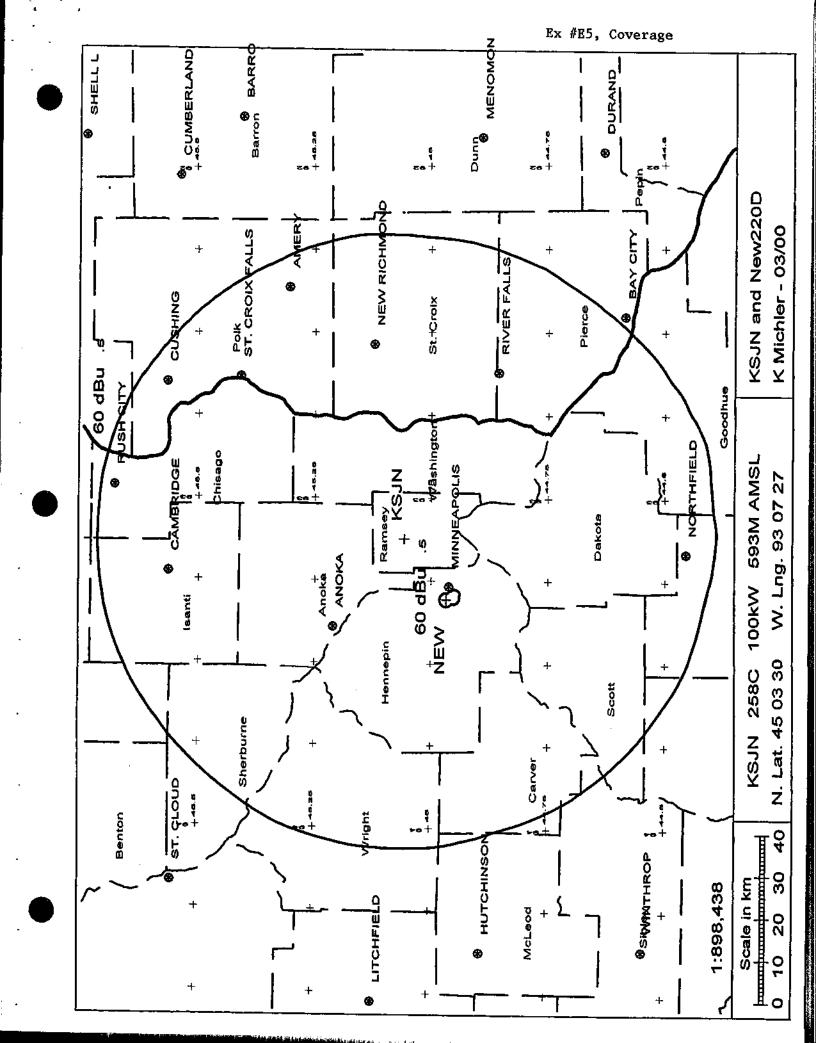
Azimuth	Relative Voltage	đвк	ERP
0	0.160	-34.8	0.33w
5	0.145	-35.6	0.27w
10	0.135	-36.3	0.24w
15	0.127	-36.8	0.21w
20	0.123	-37.1	0.20w
25	0.123	-37.1	0.20w
30	0.140	-35.9	0.25w
35	0.155	-35.1	0.31w
40	0.171	-34.2	0.38w
45	0.183	-33.6	0.44w
50	0.187	-33.4	0.45w
55	0.189	-33.3	0.46w
60	0.181	-33.7	0.43w
65	0.170	-34.3	0.38w
70	0.157	-34.9	0.32w
75	0.150	-35.3	0.29w
80	0.142	-35.8	0.26w
85	0.135	-36.3	0.24w
90	0.134	-36.3	0.23w
95	0.142	-35.8	0.26w
100	0.190	-33.3	0.47w
105	0.247	-31.0	0.79w
110	0.329	-28.5	1.41w
115	0.423	-26.3	2.33w
120	0.528	-24.4	3.62w
125	0.628	-22.9	5.13w
130	0.718	-21.7	6.70w
135	0.796	-20.8	8.24w
140	0.866	-20.1	9.75w
145	0.915	-19.6	10.9w
150	0.952	-19.3	11.8w
155	0.982	-19.0	12.5w
160	1.000	-18.9	13.0w
165	0.982	-19.0	12.5w
170	0.952	-19.3	11.8w
175	0.915	-19.6	10.9w

Pattern #367

Minnesota Public Radio Scala CLFM Oriented 160 degrees True

Doug Vernier Telecommunications Consultants 1600 Picturesque Drive Cedar Falls, IA 50613

Azimuth	Relative Voltage	dbk	ERP
180	0.866	-20.1	9.75w
185	0.796	-20.8	8.24w
190	0.718	-21.7	6.70w
195	0.628	-22.9	5.13w
200	0.528	-24.4	3.62w
205	0.423	-26.3	2.33w
210	0.329	-28.5	1.41w
215	0.247	-31.0	0.79w
220	0.190	-33.3	0.47w
225	0.142	-35.8	0.26w
230	0.134	-36.3	0.23w
235	0.135	-36.3	0.24w
240	0.142	-35.8	0.26w
245	0.150	-35.3	0.29w
250	0.157	-34.9	0.32w
255	0.170	-34.3	0.38w
260	0.181	-33.7	0.43w
265	0.189	-33.3	0.46w
270	0.187	-33.4	0.45w
275	0.183	-33.6	0.44w
280	0.171	-34.2	0.38w
285	0.155	-35.1	0.31w
290	0.140	-35.9	0.25w
295	0.123	-37.1	0.20w
300	0.123	-37.1	0.20w
305	0.127	-36.8	0.21w
310	0.135	-36.3	0.24w
315	0.145	-35.6	0.27w
320	0.160	-34.8	0.33w
325	0.170	-34.3	0.38w
330	0.182	-33.7	0.43w
335	0.188	-33.4	0.46w
340	0.193	-33.1	0.48w
345	0.188	-33.4	0.46w
350	0.182	-33.7	0.43w
355	0.170	-34.3	0.38w



Ex #E6, Allocation Study

Allocation narrative:

Minnesota Public Radio

The channel study on page #2 of this exhibit shows that the proposed application meets all contour overlap requirements of section 74.1204 with one exception. The proposed channel will cause a 3rd adjacent overlap with station KQRS, Golden Valley. However, when using the FCC signal prediction method the signal strength of KQRS is evaluated at the proposed translator site to be 91 dBu. Using the U/D ratio for 3rd adjacent relationships the interfering signal would have to be 91 + 40 dBu or 131 dBu before interference is caused.

On July 9, 1999, Ralph Hornberger, Engineering Director of Minnesota Public Radio, carried out a site survey at the proposed water tower site. Actual distances to the nearest buildings were carefully measured.

Using the proposed directional pattern the radiated powers in the direction of the nearest buildings were calculated and applied to determine the actual distance to the 131 dBu interfering signal contour:

- a.) Distance to the nearest building to the west/south west 21.3 meters
 DA power .00045 kW, Distance to 131 dBu = 1.33 meters
- b.) Distance to nearest building to the east = 12.19 meters DA power = .0013 kW, Distance to 131 dBu = 2.25 meters
- c.) Distance to buildings north and south (none in immediate vicinity)

Consequently, the 131 dBu interfering signal is very small and will not reach the ground. Therefore, this proposal qualifies under section 74.1204 (d) where no population is within the 3rd adjacent interference area.

Page 3 of this exhibit is a description of the methods used in preparing this study. Pages 4-11 include allocation maps and tabular FMOVER presentations showing the contour relationship with co-channel stations K220EG, including its recent change application, Bloomington, co-channel application at Medina and first adjacent station WMCN, St. Paul, Minnesota. No outgoing contour overlap appears with relationship to these stations.

DISPLAY DATES

Doug Vernier Telecommunications Consultants 1600 Picturesque Dr. Cedar Falls IA 50613

Kenwood Translator

Memorou Transfacor
Minnesota Public Radio

CH# 220D - 91.9 MHz, Pwr= 0.013 kw, HAAT=15.8 M, COR= 287 M

Average Protected F(50-50)= 3.36 km

Ave. F(50-10) 40 dBu= 10.8 54 dBu= 4.8 80 dBu= 2.5 100 dBu= .3 58 03 N 18 23 W DATA 03-11-00 SEARCH 03-14-00 PWr(kW) COR(M) PRO(km) *IN* *OUT* HAAT(M) INT(km) LICENSEE (Overlap in km) AZI. DIST LAT. CITY STATE FILE # LNG. <--70.4 2.86 250.4 BMLH19990929ABQ 44 58 34 93 16 20 223C *KQRS-F Ç 36.500 519 -7.87 -54.56 Golden Valley MN -93 16 20 235 6.8 Kqrs, Inc. Pro. Dist. = 3.96 km, Int Dist. = 0.04 km > Reference HAAT at 70.4°= 4.7 M, Pwr= 0.00032 kW, *KQRS~F LIC CN 45 03 30 93 07 27 54.7 100.000 593 2.51 -56.16 Golden Valley MN 234.7 BLH19910814KB 93 07 27 317 10.4 Kgrs, Inc. > Reference HAAT at 54.7°= 8.1 M, Pwr= 0.00044 kw, Pro. Dist. = 4.66 km, Int Dist. = 0.05 km *K220EG 175.8 17.77 355.8 BPFT20000216AAR 44 48 29 93 17 23 С 0.216 270 -8.30 0.63 **Bloomington MN 355.8 BPFT20000216AAR 93 17 23 10 22.9 North-central Christian Br

> Reference HAAT at 175.8°= 27.4 M, Pwr= 0.01057 kW, Pro. Dist. = 3.2 km, Int Dist. = 10.3 km 220D $^{+}$ K220EG CN 175.8 17.77 44 48 29 0.009 270 3.1 4.6 Bloomington MN 355.8 BLFT199S0403TB 93 17 23 10 9.9 North-central Cr > Reference HAAT at 175.8°= 27.4 M, Pwr= 0.01057 kw, Pro. Dist. = 3.2 km, Int Dist. = 10.3 km 270 3.1 4.68 4.4 9.9 North-central Christian Br 4.40 294.4 22.81 45 03 06 114.4 BNPFT19991104AAD 93 34 13 *NEW.A 0.041 404 Medina 28.9 Pensacola Christian Colleg MN 110 > Reference HAAT at 294.4°= 2.8 M, Pwr= 0.00023 kW, Pro. Dist. = 3.35 km, Int Dist. = 3.86 km *WMCN LTC CN 105.9 11.37 MN 285.9 BLED19791015AA 219D 44 56 22 93 10 04 0.008 306 5.45 St. Paul MN 285.9 BLED19791015AA 93 10 04 39 4.8 Macalester College > Reference HAAT at 105.9°= 27.0 M, Pwr= 0.00096 kw, Pro. Dist. = 1.8 km, int Dist. = 2.51 km 272.8 125.68 92.8 BLED19960228KB LIC CN 45 00 40 94 53 56 25,000 39.1 75.77 willmar MN 113.6 Christian Heritage Broadca 100 219C1 KLSE-F 143.0 128.45 323.0 BLED19980504KG LIC CN 44 02 28 92 20 25 638 70.8 94.000 Rochester MN 288 103.0 Minnesota Public Radio 218C2 KNGA LIC VN 218.1 104.91 44 13 20 94 07 03 8.500 471 40.3 88.15 62.04 St. Peter 38.1 BLED19920303KA MN 183 13.4 Minnesota Public Radio BC3 AVAC 309.3 45 30 02 94 14 31 94.38 25.000 39.1 78.15 52.77 St. Cloud MN 129.3 100 12.9 Minnesota Christian B/cast 218C3 KCFB.C CP 94.38 45 30 02 94 14 31 15,000 435 36.0 79.32 St. Cloud 129.3 BPED19980410MC 106 MN 11.7 Minnesota Christian 8/cast 183.5 102.61 3.5 BLH19920727KA 221C3 KRUE LIC 44 02 45 93 23 08 CN 438 36.8 25.000 41.63 61.09 Waseca MN 87 57.6 Cumulus Licensing Corporat 221C2 WMEQ-F 92.0 127.03 272.0 BMPH199905241B CP 44 54 59 91 41 55 CN 17.500 49.4 50.67 Menomonie WI 219 73.0 Cumulus Licensing Corp. 218A KCFR 45 35 54 94 09 11 LIC CN 316.9 96.58 10.6 89.91 0.80083.47 St. Cloud MN 136.9 BLED19910822KA 3.3 Minnesota Christian B/cast 06-2C KAAL LI 175.3 149.30 43 37 42 100.000 696 105.1 To Grd 8= 44.16 AUSTIN 355.3 BLCT2236 93 09 12 0.0 GRAPEVINE OF AUSTIN LICENS MN 320

REFERENCE

^{* =} ERP and HAAT on direct line to and from reference station.

HOW TO READ THE FM COMPUTER PRINT-OUT

The computer printout should be self-explanatory for the most part. The parameters of the station being checked, (reference station) are printed in the heading. The 60 dBu protected contour is predicted from the Commission's F(50-50) table, while the 40, 54, 80 and 100 dBu contours are interference contours derived from the Commission's F(50-10) table. Contour distances are in kilometers and are predicted using spline interpolation from data points identical to those published in Report No. RS 76-01 by Gary C. Kalagian. Critical contour distances are determined using the Commission's TVFMINT FORTRAN subroutine. When interference contour distances are less than 16 kilometers the F(50-50) tables are used. If signal contour distances are less than 1.6 km the free-space equation is used.

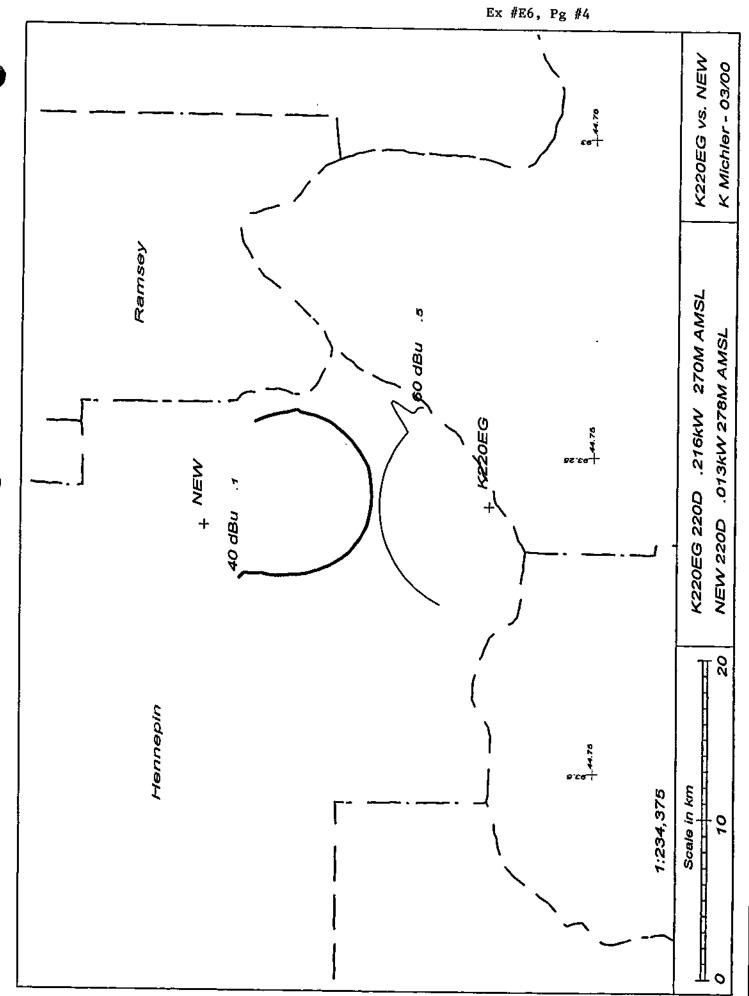
The column listed "* IN *" is the sum of the reference station's 60 dBu protected contour and the data file station's interference contour subtracted from the distance between the stations. (All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket 80-90.) Therefore, the column is a measure of incoming interference. Negative distances in this column indicate the presence of interference. Listed antenna heights are the average heights of eight standard radials as found in the Commission's records unless otherwise noted, in which case the specific antenna heights along the azimuths between the reference station and the database station are used and visa versa. The column labeled "* OUT *" shows the distance of kilometers of overlap or clearance between the reference station's interference contour and the database station's protected contour. Negative distance figures in this column indicate outgoing interference.

Under the "AZIMUTH" column, the first row of numbers indicate the bearings from true north of the data base stations in relationship with the reference station, while the numbers in the second row indicate the reverse bearings from the database station to the reference station.

The columns labeled "INT" and "PRO" hold the distance in kilometers of the appropriate interference contour and the protected contour of a data base station.

For I.F. relationships the "IN" and "OUT" columns change their significance. The letter "R" stands for the minimum required distance in kilometers, while the letter "M" in the next column follows the available clear space separation in kilometers. Minimum separation distances when displayed are taken from Sec 73.207 of the rules as amended. Canadian and Mexican separation distances, U/D ratios and protected contour values are from the US/Mexican Working Agreement and the US/Canada Working Agreement".

The first three letters of the "TYPE" column identify the current FCC status of the stations. The fourth letter will be a "D" or "Z" (Sec. 73.215) if the facility is directional. The fifth letter will be an E, H or V depending on the type of antenna polarization. The sixth letter will be a "Y" if the antenna uses beam tilt.



Doug Vernier Telecom Consultants 03-14-2000 03 Sec. Terrain Data

K220EG BPFT20000216AAR Channel = 220D

Max ERP = 0.216 kW

RCAMSL = 270 M

N. Lat = $44 \ 48 \ 29$

 $W. \text{ Lng} = 93 \ 17 \ 23$

Protected 60 dBu

NEW

Channel = 220D

Max ERP = 0.013 kW

RCAMSL = 278 M

N. Lat = 445803

W. Lng = 931823

Interfering 40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)		HAAT (m)	Dist (km)	Actual (dBu)
(degrees) 345.0 346.0 347.0 348.0 349.0 350.0 351.0 352.0 353.0 354.0 357.0 358.0 359.0 000.0 001.0 002.0 003.0 004.0 005.0	(kW) 000.2160 000.2160 000.2160 000.2160 000.2160 000.2160 000.2160 000.2160 000.2160 000.2160 000.2160 000.2160 000.2160 000.2160 000.2160 000.2160 000.2160 000.2160 000.2160	(m)			(kW) 000.0090 000.0092 000.0094 000.0096 000.0098 000.0099 000.0100 000.0101 000.0102 000.0104 000.0105 000.0106 000.0107 000.0108 000.0110 000.0111 000.0112 000.0113 000.0116	(m) 0016.5 0016.4 0016.0 0015.9 0016.4 0017.0 0017.6 0018.2 0018.7 0018.9 0018.8 0018.5 0018.5 0016.6 0016.5	(km) 011.1 011.1 011.0 011.0 011.0 011.0 010.9 010.9 010.9 010.9 010.9 010.9 010.9 010.9 010.9	(dBu) 37.9 38.1 38.2 38.5 38.5 38.5 38.6 38.7 38.8 38.9 39.0 39.1 39.1 39.1 39.1
006.0 007.0 008.0 009.0 010.0 011.0 012.0 013.0 014.0 015.0 016.0 017.0	000.2160 000.2160 000.2160 000.2160 000.2160 000.2160 000.2160 000.2160 000.2160 000.2160 000.2160 000.2160 000.2160	0008.5 0009.5 0010.0 0010.3 0010.4 0010.3 0009.9 0009.8 0010.5 0011.1 0012.0 0012.3 0012.5 0013.1 0013.5	006.8 006.8 006.8 006.8 006.8 006.8 006.8 006.8 006.8 006.8	170.1 169.5 168.9 168.3 167.8 167.2 166.6 165.6 165.6 165.0 164.5 164.5 163.5	000.0117 000.0118 000.0119 000.0119 000.0120 000.0121 000.0122 000.0122 000.0123 000.0124 000.0124 000.0125 000.0125 000.0126 000.0127	0016.6 0016.7 0016.9 0017.2 0017.4 0017.6 0017.8 0017.8 0017.8 0017.8 0019.0 0019.0	011.1 011.1 011.2 011.2 011.3 011.3 011.4 011.5 011.5 011.5	39.1 39.1 39.1 39.0 39.0 38.9 38.9 38.7 38.6 38.5 38.4 38.3

Doug Vernier Telecom Consultants 03-14-2000 03 Sec. Terrain Data

K220EG BLFT19950403TB

Channel = 220D

Max ERP = 0.009 kW

RCAMSL = 270 M

N. Lat = $44 \ 48 \ 29$

W. Lng = $93 \ 17 \ 23$

Protected 60 dBu NEW

Channel = 220D

Max ERP = 0.013 kW

RCAMSL = 278 M

N. Lat = 445803

W. Lng = 931823

Interfering 40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
(degrees) 345.0 346.0 347.0 348.0 349.0 350.0 351.0 352.0 353.0 354.0 357.0 358.0 359.0 000.0 001.0 002.0 003.0 004.0 005.0 006.0 007.0			(km) 003.1 003.1 003.1 003.1 003.1 003.1 003.1 003.1 003.1 003.1 003.1 003.1 003.1 003.1 003.1 003.1	(degrees) 178.0 177.8 177.6 177.4 177.2 177.0 176.7 176.5 176.3 176.1 175.9 175.7 175.5 175.3 175.1 174.9 174.7 174.5 174.3 174.1 173.8 173.6 173.4 173.2	(kW) 000.0101 000.0102 000.0103 000.0103 000.0104 000.0105 000.0105 000.0105 000.0106 000.0106 000.0107 000.0107 000.0107 000.0108 000.0108 000.0109 000.0109 000.0110 000.0110	(m) 0017.7 0017.9 0018.1 0018.6 0018.7 0018.8 0018.8 0018.9 0018.9 0018.7 0018.6 0018.7 0018.6 0018.7 0018.6 0018.7 0018.6 0018.7 0018.6 0018.7	(km) 014.8 014.8 014.7	(dBu) 33.3 33.4 33.4 33.4 33.5 33.5 33.5 33.
010.0 011.0 012.0 013.0 014.0 015.0 016.0 017.0	000.0090 000.0090 000.0090 000.0090 000.0090 000.0090 000.0090 000.0090	0010.3 0009.9 0009.8 0010.5 0011.1 0012.0 0012.3 0012.5 0013.1	003.1 003.1 003.1 003.1 003.1 003.1 003.1 003.1 003.1	171.9 171.7 171.5 171.3	000.0111 000.0111 000.0112 000.0113 000.0113 000.0113 000.0114 000.0114 000.0115 000.0115	0017.4 0017.2 0017.0 0016.9 0016.8 0016.6 0016.6 0016.5 0016.5	014.8 014.8 014.8 014.9 014.9 014.9 014.9 015.0 015.0	33.7 33.7 33.7 33.7 33.7 33.7 33.7 33.6 33.6

Doug Vernier Telecom Consultants 03-14-2000 03 Sec. Terrain Data

NEW.A BNPFT19991104AAD Channel = 220D Max ERP = 0.075 kW RCAMSL = 404 M N. Lat = 45 03 06 W. Lng = 93 34 13

> Protected 60 dBu

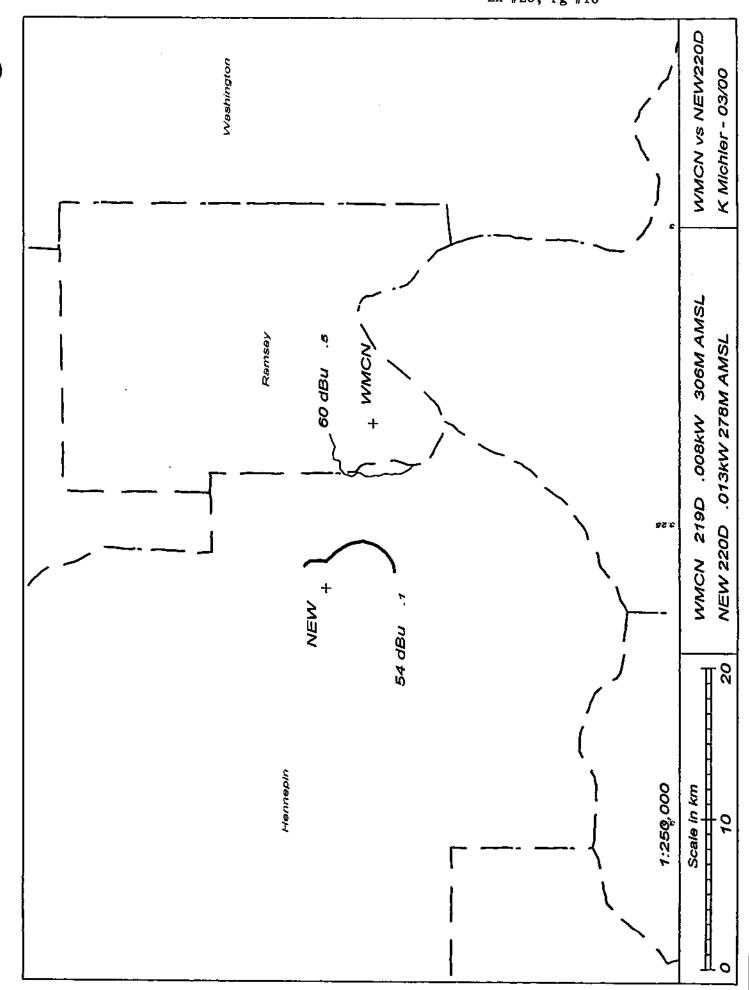
NEW

Channel = 220D Max ERP = 0.013 kW RCAMSL = 278 M N. Lat = 445803

W. Lng = 931823

Interfering 40 dBu

Azimuth (degrees)		HAAT (m)	Dist (km)	Azimuth	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
097.0 098.0	000.0612 000.0603	0109.6 0109.2	009.6 009.5	306.0 305.3	000.0002 000.0002	-0008.0 -0008.7	014.0 013.9	17.7 17.7
099.0 100.0	000.0594	0109.1	009.5	304.6	000.0002	-0008.9	013.9	17.7
101.0	000.0585 000.0572	0109.7	009.5	304.0	000.0002	-0009.3	013.8	17.7
102.0	000.0572	0109.4 0108.2	009.4	303.3	000.0002	-0009.4	013.8	17.6
103.0	000.0546	0106.2	009.3 009.2	302.5	000.0002	-0008.2	013.9	17.5
104.0	000.0534	0106.9	009.2	301.7 301.0	000.0002	-0006.6	013.9	17.4
105.0	000.0522	0106.7	009.1	300.3	000.0002	-0005.3	013.9	17.3
106.0	000.0509	0107.8	009.1	299.7	000.0002	-0004.5 -0003.7	013.9	17.3
<u>10</u> 7.0	000.0497	0109.4	009.1	299.1	000.0002	-0003.7	013.9 013.9	17.3
8.0	000.0486	0110.5	009.1	298.4	000.0002	-0003.0	013.9	17.4 17.5
109.0	000.0474	0111.2	009.0	297.7	000.0002	-0002.7	013.8	17.6
110.0	000.0462	0111.6	009.0	297.1	000.0002	-0003.3	013.9	17.7
111.0	000.0449	0111.4	008.9	296.4	000.0002	-0004.3	013.9	17.7
112.0	000.0436	0110.7	008.8	295.7	000.0002	-0005.2	014.0	17.7
113.0	000.0423	0109.8	008.7	295.1	000.0002	-0006.2	014.1	17.6
114.0	000.0411	0109.3	008.6	294.5	000.0002	-0006.7	014.2	17.6
115.0	000.0399	0109.6	008.6	293.9	000.0002	-0006.8	014.2	17.6
116.0	000.0386	0109.6	008.5	293.3	000.0002	-0006.8	014.3	17.5
117.0	000.0374	0109.6	008.5	292.7	000.0002	-0006.7	014.4	17.5
118.0	000.0363	0109.5	008.4	292.1	000.0002	-0006.5	014.5	17.5
119.0	000.0351	0109.0	008.3	291.6	000.0002	-0006.3	014.6	17.4
120.0	000.0340	0108.2	008.2	291.1	000.0002	-0006.2	014.7	17.3
121.0	000.0324	0107.4	008.1	290.6	000.0003	-0006.2	014.8	17.2
122.0 123.0	000.0309	0106.7	007.9	290.2	000.0003	-0006.3	015.0	17.1
123.0	000.0294 000.0279	0106.2	007.8	289.8	000.0003	-0006.5	015.1	17.0
125.0	000.0279	0105.3	007.7	289.4	000.0003	-0006.8	015.3	16.9
126.0	000.0255	0104.3 0103.6	007.5	289.1	000.0003	-0007.0	015.5	16.9
127.0	000.0231	0103.8	007.4 007.3	288.7	000.0003	-0007.0	015.6	16.8
128.0	000.0237	0102.8	007.3	288.4	000.0003	-0007.0	015.8	16.7
129.0	000.0211	0102.1	007.2		000.0003	-0006.9	015.9	16.6
130.0	000.0211	0100.0	007.0		000.0003	-0006.8	016.1	16.5
131.0	000.0183	0099.4	006.8		000.0003	-0006.7	016.3	16.4
			~~~·	207.5	000.0003	-0006.6	016.5	16.3



Channel = 220D

N. Lat = 445803

W. Lng = 931823

Max ERP = 0.013 kW

278 M

NEW

RCAMSL =

Doug Vernier Telecom Consultants 03-14-2000 03 Sec. Terrain Data

WMCN BLED19791015AA Channel = 219D Max ERP = 0.008 kW RCAMSL = 306 M N. Lat = 44 56 22 W. Lng = 93 10 04

Protected Interfering 60 dBu 54 dBu

Azimuth ERP HAAT Azimuth Dist ERP HAAT Dist Actual (degrees) (kW) (m) (km) (degrees) (kW) (m) (km) (dBu) 220.0 000.0080 0052.1 004.0 126.4 000.0055 0029.8 010.4 37.0 221.0 000.0080 0051.5 004.0 126.2 000.0054 0029.5 010.3 37.0 222.0 000.0080 0051.1 003.9 126.1 000.0054 0029.3 010.3 37.1 223.0 000.0080 0050.5 003.9 125.9 000.0053 0028.9 010.2 37.2 224.0 000.0080 0049.8 003.9 125.7 000.0053 0028.6 010.1 37.2 225.0 000.0080 0049.1 003.9 125.5 000.0052 0028.2 010.1 37.3 226.0 8.800 000.0080 0048.1 125,2 000.0051 0027.7 010.0 37.3 227.0 000.0080 0047.8 003.8 125.0 000.0051 0027.5 010.0 37.4 228.0 000.0080 0048.3 003.8 125.1 000.0051 0027.5 009.9 37.5 229.0 000.0080 0049.0 003.9 125.1 000.0051 0027.6 009.8 37.7 230.0 000.0080 0049.2 003.9 125.1 37.8 000.0051 0027.6 009.8 ц.0 000.0080 0049.4 003.9 125.0 000.0051 0027.5 009.7 37.9 232.0 000.0080 0049.7 003.9 0027.4 125.0 000.0050 009.6 38.0 233.0 000.0080 0049.5 003.9 124.8 000.0050 0027.2 009.6 38.1 234.0 000.0080 0049.3 003.9 124.6 000.0049 0027.0 009.5 38.1 235.0 000.0080 0049.2 003.9 124.5 0026.9 000.0049 009.4 38.2 236.0 000.0080 0048.9 124.3 003.8 000.0048 0026.6 009.4 38.2 237.0 000.0080 0048.8 003.8 124.1 000.0048 0026.4 009.3 38.3 238.0 000.0080 0048.7 003.8 123.9 000.0047 0026.2 009.3 38.3 239.0 000.0080 0048.8 003.8 123.7 000.0047 0026.1 38.4 009.2 240.0 000.0080 0048.7 003.8 123.5 000.0046 0026.0 009.1 38.5 241.0 000.0080 0048.4 003.8 123.3 000.0045 0025.8 009.1 38.5 242.0 000.0080 0047.8 003.8 122.9 0025.4 000.0044 009.0 38.5 243.0 000.0080 0047.2 003.8 122.6 000.0043 0024.8 009.0 38.5 244.0 000.0080 0046.5 003.7 122.2 000.0042 38.4 0023.9 008.9 245.0 000.0080 0045.5 003.7 121.7 000.0041 0023.0 008.9 38.3 246.0 000.0080 0044.7 003.7 121.3 000.0040 0022.3 008.9 38.3 247.0 000.0080 0044.1 003.6 120.9 000.0039 0021.7 008.8 38.2 248.0 000.0080 0043.8 003.6 120.6 000.0038 0021.4 008.8 38.2 249.0 000.0080 0044.4 003.6 120.5 000.0037 0021.4 008.7 38.3 250.0 000.0080 0044.2 003.6 120.2 000.0037 0021.2 008.7 38.3 251.0 000.0080 0043.0 003.6 119.6 000.0035 0020.9 008.7 38.1 252.0 000.0080 003.5 0042.3 119.2 000.0034 0020.5 008.7 38.0 253.0 000.0080 0042.0 003.5 118.8 000.0033 0020.3 008.6 38.0 254.0 000.0080 0041.1 003.5 118.3 000.0032 0019.9 008.6 37.8

#### Section III - LEGAL QUALIFICATIONS NOTE: Applicants for new stations only: Applicant is (check one of the following): Individual General Partnership Corporation Other Limited Partnership Unincomorated If the applicant is a legal entity other than an individual, partnership, corporation or Exhibit No. unincorporated association, describe in an Exhibit the nature of the applicant. N/A (a) Is the applicant for an FM translator station the licensee or permittee of the Yes No commercial primary station being rebroadcast or does the applicant or any parties to the application have any interest or connection with the commercial primary station being rebroadcast? See 47 C.F.R. Section 74.1232(d). Yes (b) If Yes, will the coverage contour of the translator station extend beyond the protected contour of the commercial primary station being rebroadcast? If YES, this application cannot be granted. See 47 C.F.R. Section 74.1232(d). NOTE: Applicants who answer Yes to question (b) (and No to question (a)) are prohibited from receiving any support, before or after construction, either directly or indirectly from the commercial primary station being rebroadcast or from any person or entity having any interest whatsoever, or any connection with the primary FM station. Interested and connected parties include group owners, corporate parents, shareholders, officers, directors, employees, general and limited partners, family members and business associates. See 47 C.F.R. Section 74.1232(e). (a) Is the applicant in compliance with the provisions of Section 310 of the Yes Communications Act of 1934, as amended, relating to interests of aliens and foreign governments? (b) Will any funds, credit, or other financial assistance for the construction, purchase or operation of the station(s) be provided by aliens, foreign entities, domestic entities controlled by aliens, or their agents? Exhibit No. N/A If Yes, provide particulars as an Exhibit. Has an adverse finding been made or an adverse final action been taken by any court or Yes IX Νo administrative body with respect to the applicant or parties to this application in a civil or criminal proceeding, brought under the provisions of any law related to the following: any felony; mass media related antitrust or unfair competition; fraudulent statements to another governmental unit; or discrimination? 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 Exhibit No. N/A 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 (11) a description of the previously

reported matter.

11.7

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## Section III - Page 2

J.	mas t	ne applicant or any other party to this application had any interest in:	
	(a) a l	broadcast application which has been dismissed with prejudice by the	Yes No
	(b) a	proadcast application which has been denied by the Commission?	Yes No
	(c) a l	proadcast station, the license for which has been revoked?	Yes X Nk
	(d) a chara	broadcast application in any Commission proceeding which left unresolved cter issues against the applicant?	Yes X Nk
	If the	answer to any of the Questions in 5 is Yes, state in an Exhibit the following:	Exhibit No. N/A
	(i) (ii) (iii) (iv)	Name of party having interest; Nature of interests or connection, giving dates; Call letters of stations or file number of application or docket number; Location.	

	· ·								
	Se(	ection IV - CERTIFICATIONS							
	NO	TE: If this application is t	for a change in	an operating t	facility, you DO NOT r	need to respond t	o Questions 1 and	2.	
	<b>)</b> .	The applicant certifies committed sources to without revenue.	that sufficient construct and	net liquid ass I operate the	ets are on hand or ar requested facilities fo	e available from or three months	Yes	No	
	2.	The applicant certification for each agree this application, each of equipment on crediculateral, guarantee reasonable assurance financial institutions as meet these commitments.	eement to turn loan by banks, it; (b) it can an es, and capita e exists that a nd equipment	nish capital or , financial inst nd will meet a al investmen all identified f	purchase capital sto itutions or others and Il contractual require t; and (c) it has det inancial sources (e)	ck by parties to leach purchase ments as to the ermined that a		No	
	3.	The applicant, if for a extending beyond the rebroadcast, certifies the directly or indirectly, from the an interest or continuous except for technical assets.	e protected ca that it has not a rom the licens naection with	ontour of the received any : ed permittee the licensee	commercial primar support, before or aft of the primary station or permittee of the	y station being er constructing, n or any person primary station	N/A	No	
	<b>4</b> .	For applicants propo primary station, the ap licensee of the station is unacceptable for filir	plicant certifies whose progra	s that written :	authority has been ol	stained from the		No	
_		Primary Station pro	nosed to be	rahrnadaasi	•				
	)	Call Sign	City	<u>Tobioaacasi</u>	·• <u>·</u>	State	Channel No.	1	
		KSJN (FM)	Minneapolis		_	MN	258		
	5.	The applicant certifies of the rights to the prothat the site will be ava	posed transmi illable for its us	itter site, and se if this applic	has obtained reason cation is granted.	able assurance	Vac 🗆	No	
		Name		Ollowing addit			<del></del>		
		Steven A Kotke			City of Minneapol	Mailing Address or Identification City of Minneapolis, Dept. of Public Works, 350 South Fifth S			
		City Minneapolis		State MN	ZIP Code 55415	Telephone No. 612-673-2402	(include area code	9)	

7. 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).

will comply with the public notice requirements of 47 C.F.R. Section 73.3580.

For new station and major change applications only, the applicant certifies that it has or

X Yes

Yes |

THE ORIGINAL OF THIS APPLICATION FORM MUST BE SIGNED AND DATED BY THE APPLICANT. THE REQUIRED COPIES CAN BE CONFORMED. SEE 47 C.F.R. SECTION 73.3513

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

The APPLICANT acknowledges that all statements made in this application and attached exhibits are considered material representations, and that all exhibits are a material part hereof and incorporated herein.

The APPLICANT represents that this application is not filed for the purpose of impeding, obstructing, or delaying determination on any other application with which it may be in conflict

In accordance with 47 C.F.R. Section 1.65, the APPLICANT has a continuing obligation to advise the Commission, through amendments, of any substantial and significant changes in information furnished.

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND 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).

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 of Applicant	Signature )
Minnesota Public Radio	1 Mmas J Man
Title Executive Vice President	Date March 15,2000