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November 14, 2001

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Todd M. Stansbury
202.719.4948
tstansbu@wrf.com

Magalie Roman Salas, Secretary
Federal Communications Commission
The Portals
445 Twelfth Street SW
12th Street Lobby, TW-A325
Washington DC 20554

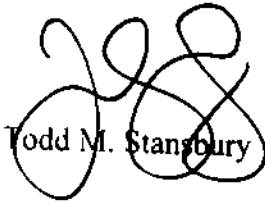
Re: KCRB(FM), Bemidji, MN
FCC File No. BPED-20010208AAM
Minnesota Public Radio
Application for Modification of Construction Permit

Dear Ms. Salas:

On behalf of Minnesota Public Radio ("MPR"), licensee of KCRB(FM), Bemidji, Minnesota, enclosed filing, in triplicate, is an application on FCC Form 340 to make minor modifications to construction permit No. BPED-20010208AAM. MPR is a noncommercial educational licensee, therefore, no fee is required for this filing.

Please contact this office if there are any questions.

Respectfully submitted,


Todd M. Stansbury

FOR
FCC
USE
ONLY

FCC 340

APPLICATION FOR CONSTRUCTION PERMIT FOR RESERVED CHANNEL NONCOMMERCIAL EDUCATIONAL BROADCAST STATION

FOR COMMISSION USE ONLY
FILE NO.

Section I - General Information

1. Legal Name of the Licensee/Permittee
Minnesota Public Radio

Mailing Address
45 East Seventh Street

City St. Paul State or Country (if foreign address) MN ZIP Code 55101

Telephone Number (include area code) 651 290-1500 E-Mail Address (if available) mgramling@mpr.org

Call Sign KCRB Facility Identifier 42970

2. Contact Representative (if other than licensee/permittee) Firm or Company Name
Todd Stansbury Wiley Rein & Fielding

Telephone Number (include area code) 202-719-4948 E-Mail Address (if available) tstansbury@wrf.com

3. Is this application being filed in response to a window? Yes No

If Yes, specify closing date and/or window number: _____

4. Application Purpose.

- New station Major Modification of construction permit
- Major Change in licensed facility Minor Modification of construction permit
See Ex #E1, Engineering Statement
- Minor Change in licensed facility Major Amendment to pending application
- Minor Amendment to pending application

a. File number of original construction permit: BPED20010208AAM N/A

b. Service Type: FM TV DTV

c. Community of License: City Bemidji State MN

d. Facility Type: Main Auxiliary

If an amendment, submit as an Exhibit a listing by Section and Question Number of the portions of the pending application that are being revised.

Exhibit No.
N/A

This box is for FCC use only:

Technical Points:

- 0 points.
- 1 point. Applicant's proposal covers the largest area and population, and both area and population are 10% greater than next best proposal; or
- 2 points. Applicant's proposal covers the largest area and population, and both area and population are 25% greater than next best proposal.

POINTS CLAIMED BY APPLICANT (from Questions 1-3)

TECHNICAL POINTS? (from Question 4)

TOTAL POINTS

Section V – Tie Breakers – New and Major Change Applications Only (used to choose among competing radio and television applicants receiving the same number of points in Section IV)

1. **Existing Authorizations.** By placing a number in the box, the applicant certifies that it and other parties to the application have, as of the date of filing and pursuant to 47 C.F.R. Section 73.3555, attributable interests in the stated number of relevant broadcast station authorizations. Radio applicants should count all attributable full service radio stations, AM and FM, commercial and noncommercial, and FM translator stations other than fill-in stations or those identified in IV(2)(b) above. TV applicants should count all attributable full service TV stations, commercial and noncommercial and TV translator stations other than fill-in stations or those identified in IV(2)(b) above.

(number of commercial and noncommercial licenses and construction permits)

2. **Pending Applications.** By placing a number in the box, the applicant certifies that it and other parties to the application have, as of the date of filing and pursuant to 47 C.F.R. Section 73.3555, attributable interests in the stated number of pending applications for new or major changes to relevant broadcast stations. Radio applicants should count all attributable full service radio stations, AM and FM, commercial and noncommercial, and FM translator stations other than fill-in stations or those identified in IV(2)(b) above. TV applicants should count all attributable full service TV stations, commercial and noncommercial, and TV translator stations other than fill-in stations or those identified in IV(2)(b) above.

(number of pending commercial and noncommercial applications)

Section VI – Certification

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 <i>Thomas J Kigin</i>	Date 2001. 11. 09.

NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.

CERTIFICATION

AUXILIARY ANTENNA APPLICANTS ARE NOT REQUIRED TO RESPOND TO ITEMS 12-16.

12. **Main Studio Location.** The proposed main studio location complies with 47 C.F.R. Section 73.1125. Yes No See Explanation in Exhibit No. E2

13. **Interference.** The proposed facility complies with all of the following rule sections. Check all those that apply. Yes No See Explanation in Exhibit No. E3

Contour Overlap Requirements.

a. 47 C.F.R. Section 73.509. **Exhibit Required.** Exhibit No. E3

Spacing Requirements.

b. 47 C.F.R. Section 73.207 with respect to station(s): N/A

Grandfathered Short-Spaced.

c. 47 C.F.R. Section 73.213(a) with respect to station(s): _____ Exhibit No. N/A

Contour Protection.

d. 47 C.F.R. Section 73.215 with respect to station(s): _____ Exhibit No. N/A

Television Channel 6 Protection.

e. 47 C.F.R. Section 73.525 with respect to station(s): WDAYTV, KBJRTV Exhibit No. E4

14. **Reserved Channels Above 220.**

a. **Allotment.** The proposed facility complies with the allotment requirements of 47 C.F.R. Section 73.203. Yes No See Explanation in Exhibit No. N/A

b. **Community Coverage.** The proposed facility complies with 47 C.F.R. Section 73.315. Yes No See Explanation in Exhibit No. N/A

15. **International Borders.** The proposed antenna location is not within 320 kilometers of the common border between the United States and Canada or Mexico. Yes No
 Canada Mexico

If "No," specify the country and provide an Exhibit of compliance with all provisions of the relevant International Agreement.

Exhibit No. E3

16. **Environmental Protection Act.** The proposed facility is excluded from environmental processing under 47 C.F.R. Section 1.1306 (i.e. the facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments). Unless the applicant can determine compliance through the use of the RF worksheets in Worksheet #7, an Exhibit is required.

Yes No

See Explanation
in Exhibit No.
E5

By checking "Yes" above, the applicant 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.

PREPARER'S CERTIFICATION ON PAGE 8 MUST BE COMPLETED AND SIGNED.

Section VII -- Preparer's Certification

I certify that I have prepared Section VII (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 Katherine A. Michler		Relationship to Applicant (e.g., Consulting Engineer) Technical Consultant	
Signature <i>Katherine A. Michler</i>		Date November 8, 2001	
Mailing Address Doug Vernier Telecommunications Consultants, 1600 Picturesque Drive			
City Cedar Falls		State or Country (if foreign address) IA	ZIP Code 50613
Telephone Number (include area code) 319 266-8402		E-Mail Address (if available) kmichler@v-soft.com	

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

EXHIBIT #E1
ENGINEERING STATEMENT

Concerning the Application of
Minnesota Public Radio
To Make a Minor Modification to
The Construction Permit for KCRBFM,
A Non-Commercial FM Station
Serving Bemidji, Minnesota

BPED20010208AAM

November 2001

Channel 203C1

100 kW H & V

This engineering statement supports the application filed by Minnesota Public Radio to make a minor modification to the construction permit for KCRBFM, a non-commercial, educational FM station serving Bemidji, Minnesota.

Minnesota Public Radio (MPR) proposes to change the antenna location, as the previously authorized site is no longer usable. No other changes are being proposed. The applicant has notified the Federal Aviation Administration office in Des Plaines, Illinois about this proposal. When the FAA has made its determination, MPR will apply to register the tower with the FCC.

Exhibit #E2 is a map of the proposed 1 mV/m (60 dBu) signal contour. Bemidji, Minnesota, the city of licensee, is shown to be fully encompassed by this contour. The main studio is located in Bemidji. The coverage map was computer generated using the U.S.G.S. World Map database. Three hundred and sixty evenly spaced radials were used to plot the 60 dBu contour. The area within the proposed one mV/m contour amounts to 16,359 square kilometers. This figure was determined using numerical calculus. The distance to the one mV/m signal contour along each of 360 evenly spaced radial azimuths was squared and then the average of the sum of these distances was calculated. The resulting average radius squared was then multiplied by π to determine the area within the contour. The population within the 60 dBu service contour was determined to be 64,896 people through the use of a computer program which extracts a population count based on population centroids defined by U.S. Census 2000 (PL-94-171) digital census block data.

Thirty-six evenly spaced radials were used to determine the antenna height above average terrain. The N.G.D.C. 30 arc-second terrain database was used to determine the

radial elevations at 0.1 kilometer increments from 3 to 16 kilometers. The elevation points were averaged using the required four-point interpolation method and then the average was employed to project antenna heights above average terrain and the consequent distances to signal contours along the pertinent radials. (See a tabular listing of these contour distances on page #3 of this exhibit.)

Exhibit #E3 is a single channel, contour to contour, allocation study showing that interference is neither caused nor received by an FM radio station, application for facilities or construction permit. Page #2 is a description of the methods used to prepare this study. Pages 3-4 are a map and FMOVER table of the relationship between the proposed KCRBFM and AP202, an application for first adjacent channel 202 in International Falls, MN. The first-adjacent channel relationship between the new KCRBFM and an application in Brainerd (BPED19981113MC) is shown on the map and FMOVER table on pages 5-6. There are no I.F. relationships. The proposal is within 320 kilometers of the U.S. border with Canada, however all Working Agreement minimum separation spacings are met or exceeded.

Exhibit #E4 is a Channel 6 TV study, showing a map of the 47 dBu, Grade B, protected signal contours of KBRJTV, Superior, Wisconsin and WDAYTV, Fargo, North Dakota. The map also contains a plot of the proposed facility's 53.5 dBu F(50-10) interference signal, as defined by Section 73.525 of the Commission's rules. This contour was produced using a mixed polarization study power of 102.5 kW (100 + 100/40). Although the 6 dB receiving antenna directivity credit was applicable, it was not used in this "worst case" scenario. The FM interference contour is completely outside the Grade B contour of KBRJTV, but does intersect with the Grade B of WDAYTV. There are 460 people in the interference area, based on 2000 census block data. Pages #2-4 are tabular printouts of the predicted distances to the relevant contours used in the study.

Exhibit #E5 shows compliance with the Commission's R.F. emission's standards.

Page #4 of this exhibit (Ex. # E1) is a declaration made by the preparer, Kate Michler, attesting to her qualifications.

Azimuth Deg.T.	Ave. Elev. 3 to 16 km Meters AMSL	Effective Antenna Height Meters AAT	ERP (dBk)	F(50-50) Distance to 60 dBu Contour km
0	397.9	315.0	20.000	73.51
10	402.6	310.3	20.000	73.16
20	405.6	307.3	20.000	72.94
30	407.2	305.7	20.000	72.81
40	411.6	301.3	20.000	72.48
50	415.8	297.1	20.000	72.16
60	419.1	293.8	20.000	71.89
70	420.9	292.0	20.000	71.75
80	428.2	284.7	20.000	71.15
90	426.9	286.0	20.000	71.26
100	422.9	290.0	20.000	71.58
110	419.8	293.1	20.000	71.84
120	419.7	293.2	20.000	71.85
130	417.6	295.3	20.000	71.85
140	412.6	300.3	20.000	72.01
150	411.4	301.5	20.000	72.41
160	416.1	296.8	20.000	72.50
170	415.8	297.1	20.000	72.14
180	417.5	295.4	20.000	72.16
190	419.6	293.3	20.000	72.02
200	416.5	296.4	20.000	71.85
210	418.8	294.1	20.000	72.10
220	421.4	291.5	20.000	71.92
230	418.9	294.0	20.000	71.71
240	423.3	289.6	20.000	71.91
250	429.6	283.3	20.000	71.55
260	430.7	282.2	20.000	71.03
270	428.2	282.2	20.000	70.95
280	425.1	284.7	20.000	71.15
290	422.2	287.8	20.000	71.40
300	413.1	290.7	20.000	71.65
310	413.1	299.8	20.000	72.37
320	409.8	303.1	20.000	72.62
330	404.2	308.7	20.000	72.62
340	397.3	315.6	20.000	73.03
350	392.7	320.2	20.000	73.55
	394.0	318.9	20.000	73.89
			20.000	73.80
Ave. =	415.4 M	297.5 M		

Antenna Radiation Center AMSL = 712.9 M
 NGDC 30 Arc Sec.

Geographic Coordinates:

N. Lat. 47 42 16
 W. Lng. 94 39 03

Declaration:

I, Katherine A. Michler, have received a Bachelor of Science degree from the University of Northern Iowa, and;

That, I declare that I have received training as a technical consultant as a member of the staff of Doug Vernier Telecommunications Consultants, and;

That, I have apprenticed under Douglas Vernier for over three years, and;

That, he has been active in broadcast consulting for over 25 years, and;

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

That, I am an Associate Member (#20792) of the Society of Broadcast Engineers, Indianapolis, Indiana, and;

That, the consulting firm of Doug Vernier Telecommunications Consultants has been retained by Minnesota Public Radio, St. Paul, Minnesota, and as such has prepared the engineering showings appended hereto, and;

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

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

Katherine A. Michler Katherine A. Michler

Executed on November 8, 2001

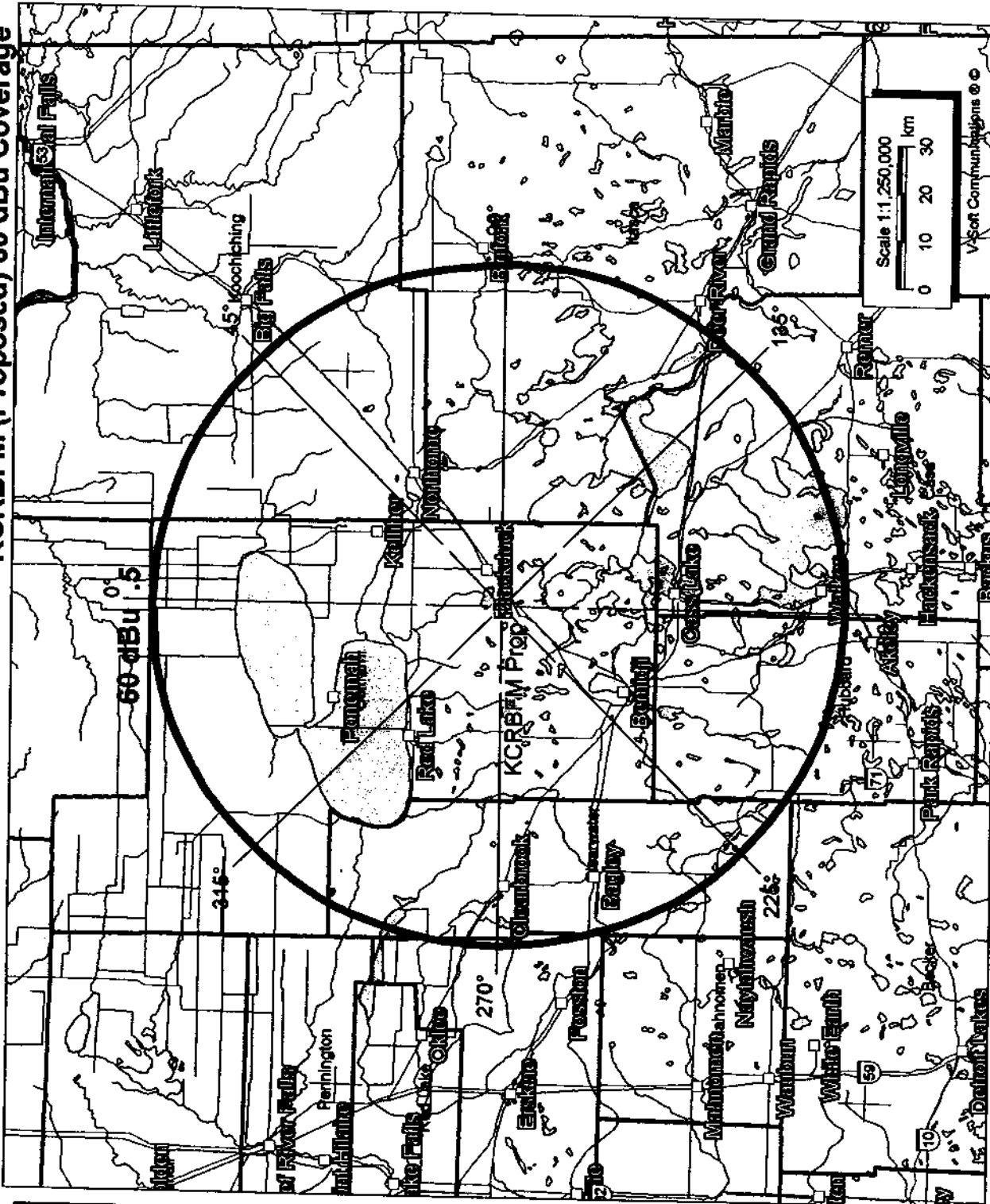
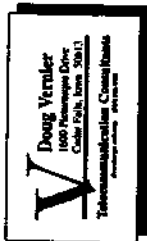
Subscribed and sworn before me this 8th day of November, 2001.



Jack L. Dwyer
Notary Public in and for the State of Iowa

KCRBFM (Proposed) 60 dBu Coverage

KCRBFM Prop
 BPEID20010208AAM
 Latitude: 47-42-16 N
 Longitude: 094-39-03 W
 Power: 100.00 KW
 Channel: 203
 Frequency: 88.5 MHz
 AMSL Height: 712.9 m
 Elevation: 427.0 m
 Horiz. Pattern: Omni
 Vert. Pattern: No
 Prop Model: FCC Contour
 Population = 64,896
 Area = 16,359 sq km



Ex #E3, Allocation

KCRBFM Site Change

Minnesota Public Radio

REFERENCE
47 42 16 N
94 39 03 W

CH# 203C1 - 88.5 MHz, Pwr= 100 kw, HAAT=297.0 M, COR= 713 M
Average Protected F(50-50)= 72.15 km
Ave. F(50-10) 40 dBu= 171.7 54 dBu= 104.8 80 dBu= 33.5 100 dBu= 10.1

DISPLAY DATES
DATA 11-07-01
SEARCH 11-07-01

CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kw) HAAT(M)	COR(M) INT(km)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
203C1 Bemidji	KCRBFM	CP MN	98.3 278.3	10.05 BPED20010208AAM	47 41 29 94 31 06	100.000 259	680 168.2	69.0 Minnesota Public Radio	-230.25	-230.61
203C1 Bemidji	KCRBFM	LIC MN	91.8 271.8	12.27 BLED19940711KA	47 42 03 94 29 15	95.000 297	717 170.4	71.6 Minnesota Public Radio	-230.25	-231.03
202C2 Baxter	990602	APP MN	165.6 345.6	152.74 BPED19990602MG	46 22 23 94 09 16	50.000 44	415 54.4	31.4 Csn International	26.15	16.55
202A International Falls > Reference HAAT at	*AP202	APP MN	48.4 228.4 48.4°=	130.17 BNPED20000119ACU 297.2 M, Pwr= 100.0 kw,	48 28 24 93 20 00 Pro. Dist. = 72.17 km,	5.750 45	397 28.3	19.2 Minnesota Public Radio	29.71	6.11
202C3 Brainerd > Reference HAAT at	*981113	APP MN	174.2 354.2 174.2°=	143.24 BPED19981113MC 297.8 M, Pwr= 100.0 kw,	46 25 21 94 27 41 Pro. Dist. = 72.21 km,	5.000 196	597 55.0	37.0 Minnesota Public Radio	16.08	1.35
202A Brainerd	990528	APP MN	168.9 348.9	147.24 BPED19990528MD	46 24 15 94 16 56	5.000 79	448 37.0	24.3 Rochester Community Radio	38.07	18.15
203A Superior	971211	APP WI	117.1 297.1	217.34 BPED19971211MC	46 47 21 92 06 51	1.000 87	390 57.7	17.2 St Of Wi Educational Comm.	87.52	28.48
206C2 Waubun	960328	APP MN	222.0 42.0	99.27 BPED19960328ME	47 02 18 95 31 34	50.000 85	555 4.5	42.0 Nijjii Broadcast Corporati	22.64	47.23
256C1 Walker	KLLZFM	LIC MN	200.6 20.6	58.18 BLM20010223AAP	47 12 52 94 55 18	100.000 154	598 0.0	59.0 Bg Broadcasting, Inc.	34.0R	24.2M
206B Fort Frances	CKSB9F	OPE ON	33.2 213.2	124.86	48 38 22 93 43 14	50.000 142	0 5.8	63.9	46.91	46.78
204C1 Fargo	KFBN	LIC ND	249.1 69.1	206.90 BLED19971222KD	47 00 48 97 11 37	100.000 265	556 101.6	69.5 Fargo Baptist Church	33.11	32.62
205A Cat Hills	ALLO	MB	332.4 152.4	169.15	49 02 50 95 43 29	6.000 100	0 2.8	38.7	94.25	83.51
201A Cat Hills	ALLO	MB	332.4 152.4	169.15	49 02 50 95 43 29	6.000 100	0 2.8	38.7	94.25	83.51
204A Esko	970331	APP MN	121.9 301.9	205.88 BPED19970331MA	46 42 22 92 21 44	0.450 29	372 11.7	8.3 Lincoln High School Esko,	122.04	92.83
203C2 Appleton	KNCM	LIC MN	200.6 20.6	300.48 BLED19970131KC	45 10 03 96 00 02	34.000 172	479 132.1	51.4 Minnesota Public Radio	96.23	77.42
0622C Fargo > Reference HAAT at	*WDAYTV	LI ND	249.1 69.1 249.1°=	207.37 BMLCT624 284.0 M, Pwr= 100.0 kw,	47 00 43 97 11 58 Pro. Dist. = 0.0 km,	100.000 362	643 142.3	108.2 Forum Communications Compa	To Grd 8= 99.20	

* = 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.

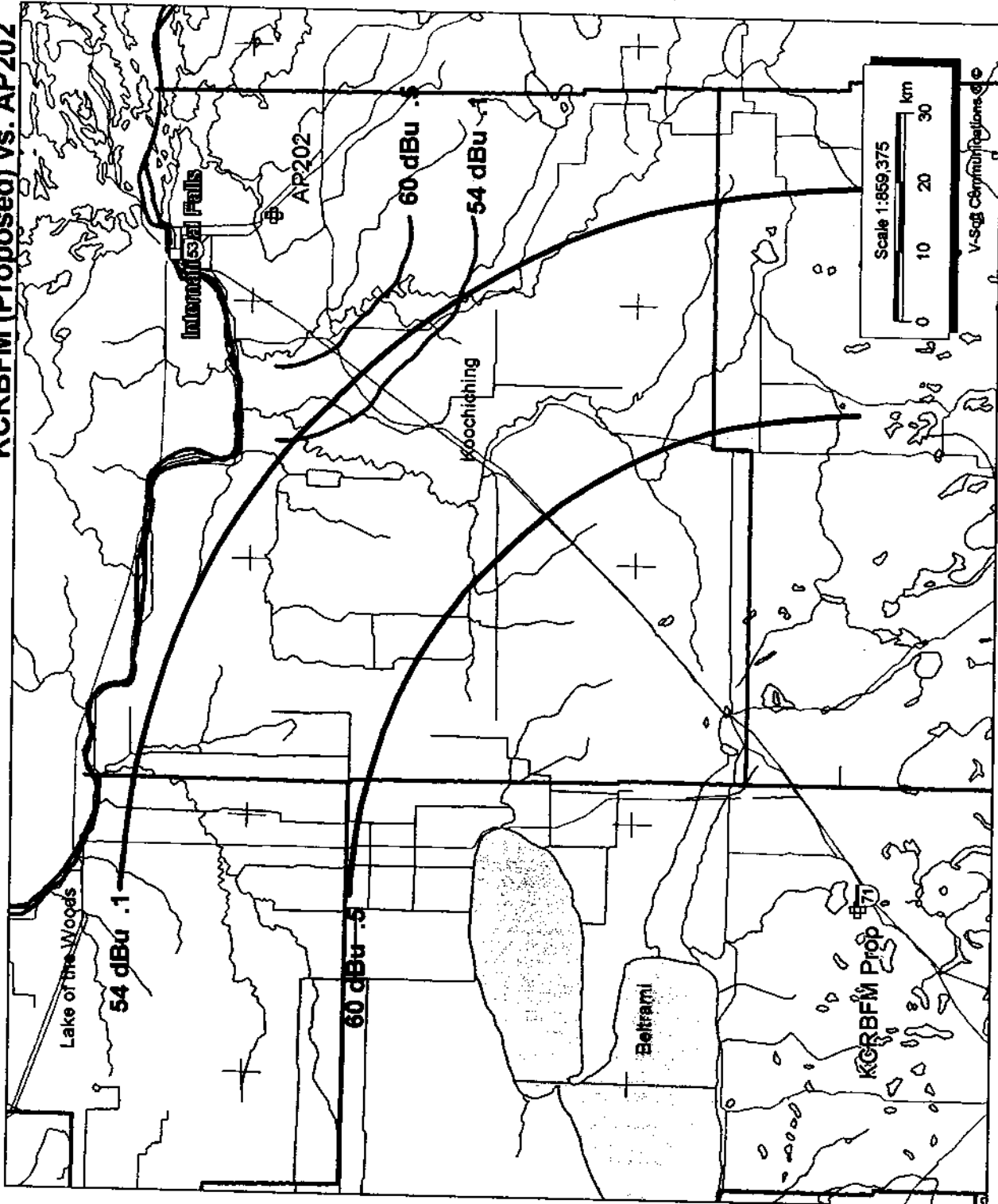
Under the **"AZIMUTH"** column, the first row of numbers indicate the bearings from true north of the data base stations in relationship with the reference station, while the numbers in the second row indicate the reverse bearings from the database station to the reference station.

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".

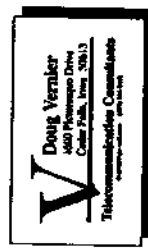
The first three letters of the **"TYPE"** column identify the current FCC status of the stations. The fourth letter will be a **"D"** or **"Z"** (Sec. 73.215) if the facility is directional. The fifth letter will be an E, H or V depending on the type of antenna polarization. The sixth letter will be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

KCRBFM (Proposed) vs. AP202



KCRBFM Prop
 BPED20010208AAM
 Latitude: 47-42-16 N
 Longitude: 094-39-03 W
 Power: 100.00 kW
 Channel: 203
 Frequency: 88.5 MHz
 AMSL Height: 712.9 m
 Elevation: 427.0 m
 Horiz. Pattern: Omni
 Vert. Pattern: No

AP202
 BNPED20000119ACU
 Latitude: 48-28-24 N
 Longitude: 093-20-00 W
 Power: 5.75 kW
 Channel: 202
 Frequency: 88.3 MHz
 AMSL Height: 397.0 m
 Elevation: 342.2 m
 Horiz. Pattern: Omni
 Vert. Pattern: No



AP202 BNPED20000119ACU
 Channel = 202A
 Max ERP = 5.75 kW
 RCAMSL = 397 M
 N. Lat = 48 28 24
 W. Lng = 93 20 00

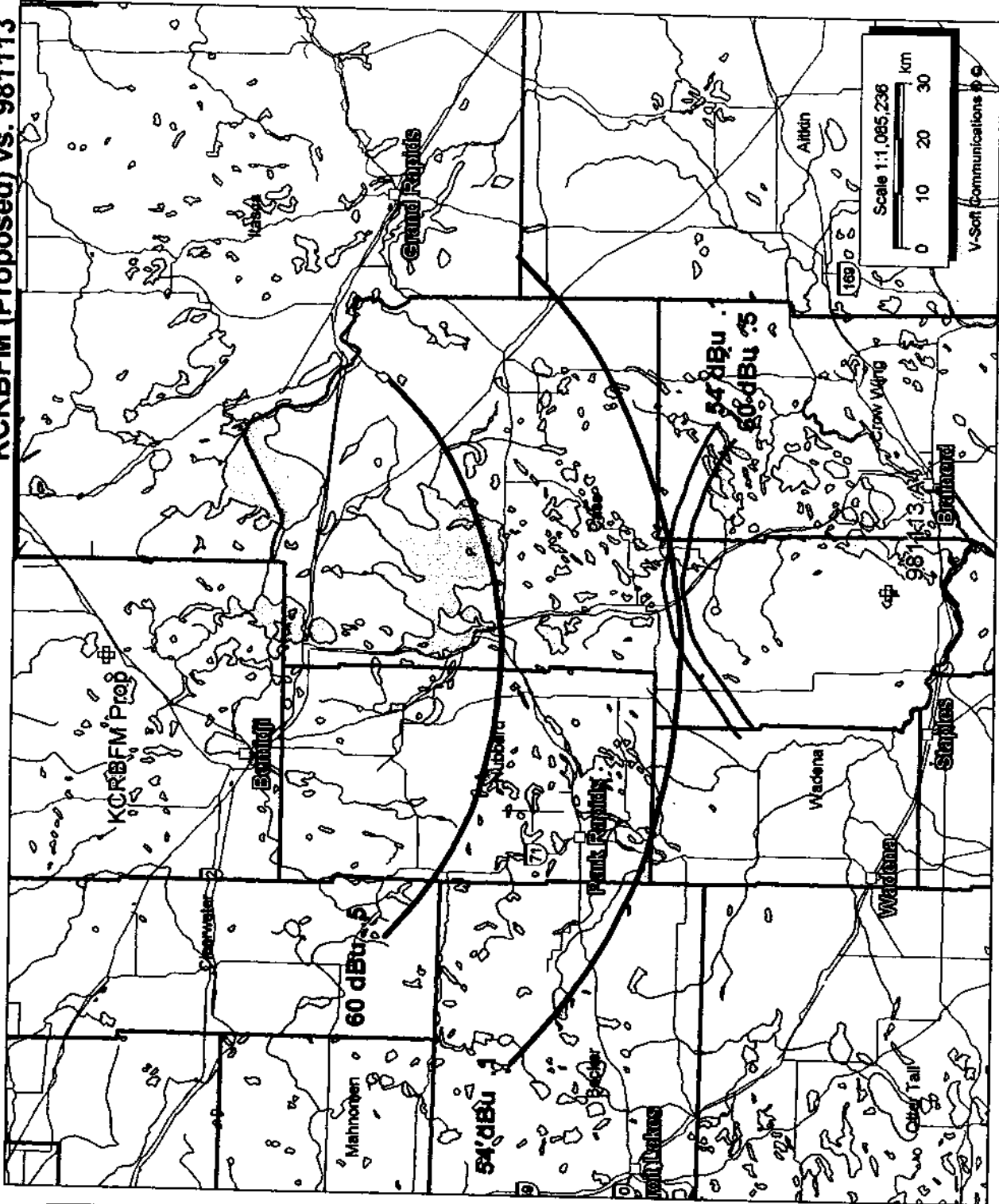
KCRBFMP
 Channel = 203C1
 Max ERP = 100 kW
 RCAMSL = 712.9 M
 N. Lat = 474216
 W. Lng = 943903

Protected
 60 dBu

Interfering
 54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
212.0	005.7500	0047.1	019.7	051.4	100.0000	0297.0	111.5	52.1
213.0	005.7500	0046.8	019.7	051.3	100.0000	0297.0	111.5	52.1
214.0	005.7500	0046.5	019.6	051.1	100.0000	0297.0	111.4	52.1
215.0	005.7500	0046.1	019.5	050.9	100.0000	0297.0	111.4	52.1
216.0	005.7500	0045.7	019.4	050.7	100.0000	0297.0	111.4	52.1
217.0	005.7500	0045.3	019.3	050.5	100.0000	0297.0	111.4	52.1
218.0	005.7500	0045.1	019.3	050.4	100.0000	0297.1	111.4	52.1
219.0	005.7500	0045.1	019.3	050.2	100.0000	0297.1	111.3	52.1
220.0	005.7500	0045.1	019.3	050.0	100.0000	0297.1	111.2	52.2
221.0	005.7500	0045.2	019.3	049.9	100.0000	0297.1	111.2	52.2
222.0	005.7500	0045.3	019.3	049.7	100.0000	0297.1	111.1	52.2
223.0	005.7500	0045.4	019.4	049.5	100.0000	0297.1	111.0	52.2
224.0	005.7500	0045.5	019.4	049.3	100.0000	0297.1	111.0	52.2
225.0	005.7500	0045.5	019.4	049.2	100.0000	0297.1	110.9	52.2
226.0	005.7500	0045.3	019.3	049.0	100.0000	0297.1	110.9	52.2
227.0	005.7500	0045.1	019.3	048.8	100.0000	0297.1	111.0	52.2
228.0	005.7500	0044.9	019.2	048.6	100.0000	0297.1	111.0	52.2
229.0	005.7500	0045.0	019.3	048.5	100.0000	0297.1	111.0	52.2
230.0	005.7500	0045.2	019.3	048.3	100.0000	0297.1	111.0	52.2
231.0	005.7500	0045.4	019.3	048.1	100.0000	0297.1	110.9	52.2
232.0	005.7500	0045.5	019.4	047.9	100.0000	0297.1	110.9	52.3
233.0	005.7500	0045.7	019.4	047.8	100.0000	0297.1	110.9	52.3
234.0	005.7500	0045.9	019.5	047.6	100.0000	0297.1	110.9	52.3
235.0	005.7500	0046.2	019.5	047.4	100.0000	0297.4	110.8	52.3
236.0	005.7500	0046.5	019.6	047.2	100.0000	0297.4	110.8	52.3
237.0	005.7500	0047.0	019.7	047.1	100.0000	0297.4	110.8	52.3
238.0	005.7500	0047.6	019.9	046.9	100.0000	0297.4	110.7	52.3
239.0	005.7500	0048.5	020.1	046.7	100.0000	0297.4	110.5	52.4
240.0	005.7500	0049.4	020.2	046.5	100.0000	0297.8	110.4	52.4
241.0	005.7500	0050.3	020.4	046.3	100.0000	0297.8	110.3	52.4
242.0	005.7500	0051.1	020.6	046.1	100.0000	0297.8	110.3	52.4
243.0	005.7500	0051.8	020.7	045.9	100.0000	0297.8	110.2	52.5
244.0	005.7500	0052.3	020.8	045.7	100.0000	0297.8	110.2	52.5
245.0	005.7500	0052.6	020.9	045.5	100.0000	0298.0	110.3	52.4
246.0	005.7500	0052.9	021.0	045.3	100.0000	0298.0	110.4	52.4

KCRBFM (Proposed) vs. 981113



KCRBFM Prop
 BPED20010208AAM
 Latitude: 47-42-16 N
 Longitude: 094-39-03 W
 Power: 100.00 kW
 Channel: 203
 Frequency: 88.5 MHz
 AMSL Height: 712.9 m
 Elevation: 427.0 m
 Horiz. Pattern: Omni
 Vert. Pattern: No

981113.A
 BPED19981113MC
 Latitude: 46-25-21 N
 Longitude: 094-27-41 W
 Power: 5.00 kW
 Channel: 202
 Frequency: 88.3 MHz
 AMSL Height: 597.0 m
 Elevation: 394.08 m
 Horiz. Pattern: Omni
 Vert. Pattern: No

V
 Doug Verrier
 1600 Phoenix Drive
 Cedar Falls, Iowa 50613
 Telecommunications Consultants
 www.verrier.com

981113 BPE19981113MC
 Channel = 202C3
 Max ERP = 5 kW
 RCAMSL = 597 M
 N. Lat = 46 25 21
 W. Lng = 94 27 41

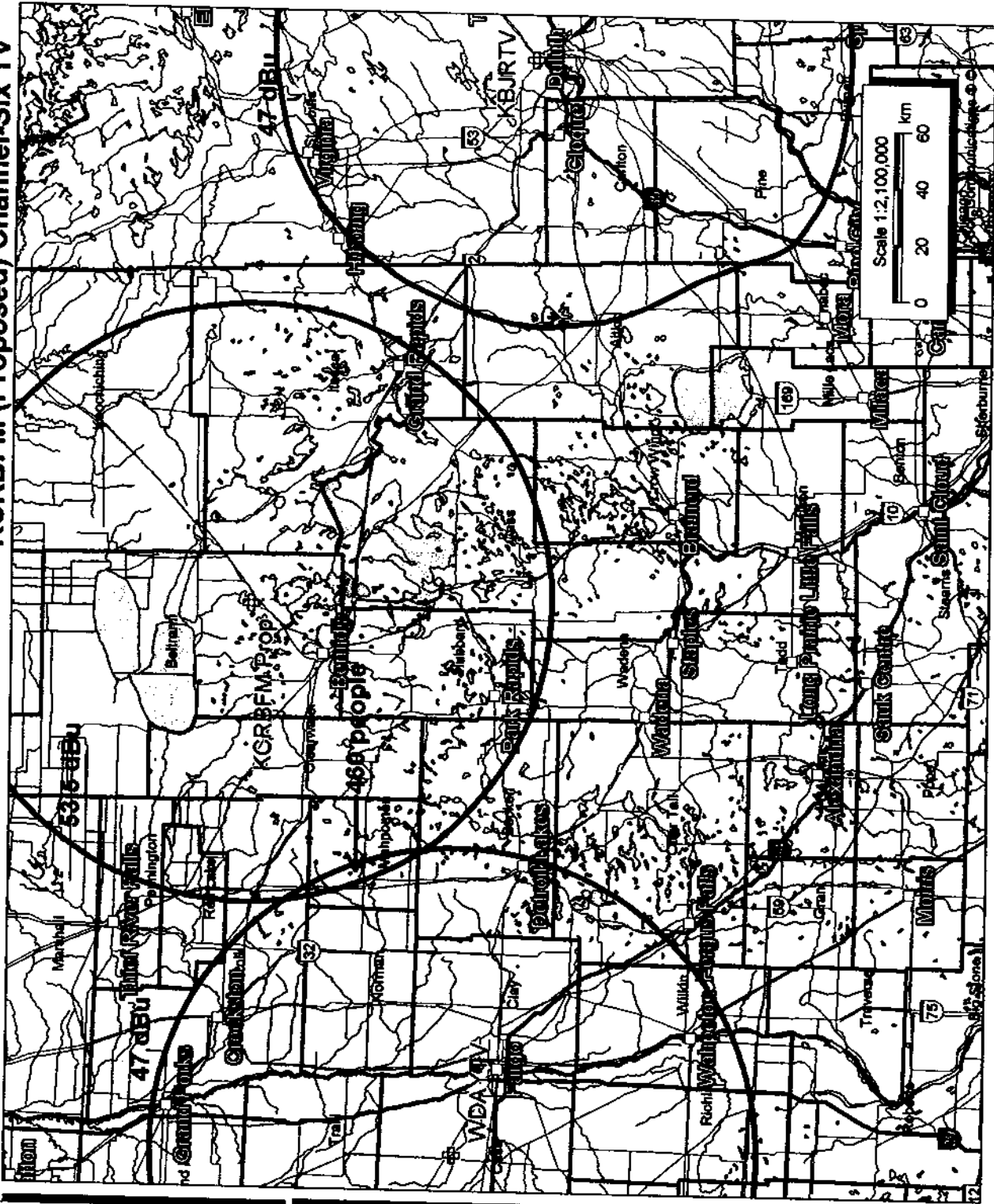
KCRBFM BLED19940711KA
 Channel = 203C1
 Max ERP = 100 kW
 RCAMSL = 712.9 M
 N. Lat = 474216
 W. Lng = 943903

Protected
 60 dBu

Interfering
 54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
337.0	005.0000	0176.1	035.3	179.7	100.0000	0295.4	110.0	52.5
338.0	005.0000	0178.0	035.5	179.4	100.0000	0296.2	109.6	52.6
339.0	005.0000	0179.7	035.7	179.2	100.0000	0296.2	109.2	52.7
340.0	005.0000	0181.1	035.8	178.9	100.0000	0296.2	108.9	52.8
341.0	005.0000	0182.4	035.9	178.6	100.0000	0296.2	108.6	52.9
342.0	005.0000	0183.9	036.0	178.3	100.0000	0297.2	108.3	53.0
343.0	005.0000	0185.6	036.2	178.0	100.0000	0297.2	108.0	53.1
344.0	005.0000	0187.4	036.3	177.7	100.0000	0297.2	107.7	53.1
345.0	005.0000	0189.3	036.5	177.4	100.0000	0298.3	107.4	53.3
346.0	005.0000	0191.1	036.6	177.0	100.0000	0298.3	107.1	53.3
347.0	005.0000	0192.5	036.7	176.7	100.0000	0298.3	106.9	53.4
348.0	005.0000	0193.3	036.8	176.4	100.0000	0298.9	106.7	53.5
349.0	005.0000	0193.5	036.8	176.0	100.0000	0298.9	106.6	53.5
350.0	005.0000	0193.3	036.8	175.7	100.0000	0298.9	106.6	53.5
351.0	005.0000	0193.4	036.8	175.3	100.0000	0298.4	106.5	53.5
352.0	005.0000	0194.0	036.9	175.0	100.0000	0298.4	106.4	53.6
353.0	005.0000	0195.0	036.9	174.7	100.0000	0298.4	106.3	53.6
354.0	005.0000	0196.0	037.0	174.3	100.0000	0297.7	106.2	53.6
355.0	005.0000	0196.8	037.1	174.0	100.0000	0297.7	106.2	53.6
356.0	005.0000	0197.8	037.2	173.6	100.0000	0297.7	106.1	53.6
357.0	005.0000	0198.8	037.3	173.2	100.0000	0296.8	106.0	53.6
358.0	005.0000	0200.1	037.4	172.9	100.0000	0296.8	106.0	53.6
359.0	005.0000	0201.4	037.5	172.5	100.0000	0296.8	106.0	53.6
000.0	005.0000	0202.7	037.6	172.2	100.0000	0296.1	105.9	53.6
001.0	005.0000	0203.9	037.7	171.8	100.0000	0296.1	105.9	53.6
002.0	005.0000	0203.7	037.6	171.5	100.0000	0296.4	106.1	53.6
003.0	005.0000	0202.8	037.6	171.1	100.0000	0296.4	106.3	53.5
004.0	005.0000	0202.2	037.5	170.8	100.0000	0296.4	106.5	53.5
005.0	005.0000	0201.5	037.5	170.4	100.0000	0297.1	106.7	53.4
006.0	005.0000	0201.1	037.4	170.1	100.0000	0297.1	106.9	53.4
007.0	005.0000	0200.6	037.4	169.8	100.0000	0297.1	107.1	53.3
008.0	005.0000	0200.2	037.4	169.4	100.0000	0298.1	107.3	53.3
009.0	005.0000	0199.6	037.3	169.1	100.0000	0298.1	107.6	53.2
010.0	005.0000	0199.2	037.3	168.8	100.0000	0298.1	107.8	53.1
011.0	005.0000	0199.4	037.3	168.5	100.0000	0298.5	108.1	53.1

KCRBFM (Proposed) Channel-Six TV



KCRBFM Prop
 BPED20010208AAM
 Latitude: 47-42-16 N
 Longitude: 084-39-03 W
 Study Power: 102.5 KW
 Channel: 203
 Frequency: 85.5 MHz
 AMSL Height: 712.9 m
 Elevation: 427.0 m
 Horiz. Pattern: Omni
 Vert. Pattern: No

WDAYTV
 BMLCT624
 Latitude: 47-00-43 N
 Longitude: 097-11-58 W
 Power: 100.00 KW
 Channel: 062
 Frequency: 85.0 MHz
 AMSL Height: 643.0 m
 Elevation: 287.0 m
 Horiz. Pattern: Omni
 Vert. Pattern: No

KBJRTV
 BLCT20000517AEX
 Latitude: 46-47-21 N
 Longitude: 092-06-51 W
 Power: 100.00 KW
 Channel: 06+
 Frequency: 85.5 MHz
 AMSL Height: 603.0 m
 Elevation: 337.44 m
 Horiz. Pattern: Omni
 Vert. Pattern: No

V
 Doug Vernier
 1601 Picayune Drive
 Cedar Falls, Iowa 50613
 The Communications Consultants
 A Division of Verco, Inc. • Phone: 319-246-1111

Azimuth Deg.T.	Ave. Elev. 3 to 16 km Meters AMSL	Effective Antenna Height Meters AAT	ERP (dbk)	F(50-10) Distance to 53.5 dBu Contour km
0	397.9	315.0	20.107	108.68
10	402.6	310.3	20.107	108.14
20	405.6	307.3	20.107	107.83
30	407.2	305.7	20.107	107.66
40	411.6	301.3	20.107	107.24
50	415.8	297.1	20.107	106.84
60	419.1	293.8	20.107	106.51
70	420.9	292.0	20.107	106.34
80	428.2	284.7	20.107	105.62
90	426.9	286.0	20.107	105.76
100	422.9	290.0	20.107	106.14
110	419.8	293.1	20.107	106.44
120	419.7	293.2	20.107	106.46
130	417.6	295.3	20.107	106.66
140	412.6	300.3	20.107	107.15
150	411.4	301.5	20.107	107.26
160	416.1	296.8	20.107	106.81
170	415.8	297.1	20.107	106.84
180	417.5	295.4	20.107	106.67
190	419.6	293.3	20.107	106.46
200	416.5	296.4	20.107	106.76
210	418.8	294.1	20.107	106.55
220	421.4	291.5	20.107	106.29
230	418.9	294.0	20.107	106.53
240	423.3	289.6	20.107	106.10
250	429.6	283.3	20.107	105.48
260	430.7	282.2	20.107	105.38
270	428.2	284.7	20.107	105.62
280	425.1	287.8	20.107	105.92
290	422.2	290.7	20.107	106.21
300	413.1	299.8	20.107	107.09
310	409.8	303.1	20.107	107.41
320	404.2	308.7	20.107	107.97
330	397.3	315.6	20.107	108.74
340	392.7	320.2	20.107	109.31
350	394.0	318.9	20.107	109.15
Ave. =	415.4 M	297.5 M		

Antenna Radiation Center AMSL =712.9 M
 NGDC 30 Arc Sec.

Geographic Coordinates:

N. Lat. 47 42 16
 W. Lng. 94 39 03

Azimuth Deg.T.	Ave. Elev. 3 to 16 km Meters AMSL	Effective Antenna Height Meters AAT	ERP (dbk)	F(50-50) Distance to 47 dBu Contour km
0	296.0	347.0	20.000	107.07
10	292.2	350.8	20.000	107.35
20	290.4	352.6	20.000	107.48
30	289.0	354.0	20.000	107.58
40	287.9	355.1	20.000	107.66
50	286.1	356.9	20.000	107.80
60	283.0	360.0	20.000	108.03
70	281.0	362.0	20.000	108.18
80	279.5	363.5	20.000	108.30
90	278.6	364.4	20.000	108.37
100	278.1	364.9	20.000	108.40
110	277.5	365.5	20.000	108.45
120	277.3	365.7	20.000	108.47
130	277.4	365.6	20.000	108.46
140	277.5	365.5	20.000	108.46
150	278.9	364.1	20.000	108.35
160	279.6	363.4	20.000	108.29
170	281.7	361.3	20.000	108.13
180	282.3	360.7	20.000	108.08
190	282.5	360.5	20.000	108.07
200	287.0	356.0	20.000	107.73
210	287.6	355.4	20.000	107.68
220	289.0	354.0	20.000	107.58
230	292.2	350.8	20.000	107.35
240	295.3	347.7	20.000	107.12
250	301.2	341.8	20.000	106.70
260	305.1	337.9	20.000	106.42
270	306.4	336.6	20.000	106.33
280	306.0	337.0	20.000	106.36
290	306.1	336.9	20.000	106.35
300	304.8	338.2	20.000	106.44
310	305.1	337.9	20.000	106.42
320	305.3	337.7	20.000	106.41
330	304.6	338.4	20.000	106.45
340	302.1	340.9	20.000	106.63
350	298.9	344.1	20.000	106.86
Ave. =	290.4 M	352.6 M		

Antenna Radiation Center AMSL =643 M
 NGDC 30 Arc Sec.

Geographic Coordinates:

N. Lat. 47 00 43
 W. Lng. 97 11 58

ERP = 100 kw
 Channel = 06+

Azimuth Deg.T.	Ave. Elev. 3 to 16 km Meters AMSL	Effective Antenna Height Meters AAT	ERP (dBk)	F(50-50) Distance to 47 dBu Contour km
0	419.4	183.6	20.000	92.43
10	410.9	192.1	20.000	93.30
20	390.8	212.2	20.000	95.30
30	372.5	230.5	20.000	97.08
40	323.9	279.1	20.000	101.72
50	254.2	348.8	20.000	107.20
60	189.8	413.2	20.000	112.55
70	183.5	419.5	20.000	113.10
80	183.1	419.9	20.000	113.14
90	183.0	420.0	20.000	113.15
100	183.0	420.0	20.000	113.15
110	183.0	420.0	20.000	113.15
120	183.0	420.0	20.000	113.15
130	183.0	420.0	20.000	113.15
140	183.1	419.9	20.000	113.15
150	186.5	416.5	20.000	113.14
160	191.4	411.6	20.000	112.84
170	194.0	409.0	20.000	112.40
180	195.1	407.9	20.000	112.17
190	195.7	407.3	20.000	112.07
200	190.1	412.9	20.000	112.02
210	189.3	413.7	20.000	112.52
220	237.6	365.4	20.000	112.58
230	348.2	254.8	20.000	108.45
240	384.6	218.4	20.000	99.43
250	389.2	213.8	20.000	95.90
260	398.4	204.6	20.000	95.45
270	402.4	200.6	20.000	94.55
280	415.6	187.4	20.000	94.15
290	429.4	173.6	20.000	92.82
300	431.0	172.0	20.000	91.37
310	433.5	169.5	20.000	91.19
320	427.1	175.9	20.000	90.92
330	423.7	179.3	20.000	91.61
340	423.2	179.8	20.000	91.98
350	425.7	177.3	20.000	92.03
				91.76
Ave. =	298.3 M	304.7 M		

Antenna Radiation Center AMSL =603 M
 NGDC 30 Arc Sec.

Geographic Coordinates:

N. Lat. 46 47 21
 W. Lng. 92 06 51

EXHIBIT # E5

R.F. RADIATION COMPLIANCE STATEMENT

**KCRBFM
Channel 203 – 100 kW H & V
Bemidji, Minnesota**

November 2001

The applicant's proposed power is 100 kW, however another application is being filed to use the same antenna in diplex that will raise the total ERP to 130 kW. The proposed antenna will have a center of radiation of 292.6 meters above ground. Using the formulas expressed in the OET Bulletin, No. 65, August 1997, "Evaluating Compliance with F.C.C. Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields", published by the Federal Communication Commission's Office of Science and Engineering, a total, head-height non-ionization radiation level of 102.86 microwatts per square centimeter was calculated. The proposed tower location will be within a controlled area having a fence and locked gate. The calculated value amounts to only 10.29 percent of the maximum for a controlled area. (1000 microwatts per centimeter maximum.) There will be no other sources of RF radiation on the proposed tower that will significantly add to this calculation.

The applicant will protect workers on the tower by either reducing ERP or terminating transmission. An agreement is in effect with the other users of this tower at this location to reduce power or to terminate operations to protect workers from receiving in excess of the Commission's standard.

Consequently, it appears that the proposed FM station will be in full compliance with the Commission's rules and regulations with regard to human exposure to radiofrequency electromagnetic fields.