

7-27-02
DUPLICATE

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February 8, 2001

Magalie Roman Salas
Secretary
Federal Communications Commission
445 Twelfth Street, S.W.
12th Street Lobby, TW-A325
Washington, D.C. 20554

RECEIVED

FEB 8 2001

FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

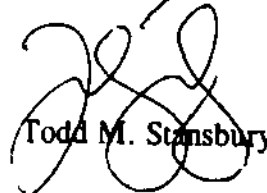
Re: KNBJ(FM), Bemidji, MN
Facility ID No. 42966
Minnesota Public Radio
Application for Minor Modification

Dear Ms. Salas:

On behalf of Minnesota Public Radio ("MPR"), licensee of KNBJ(FM), Bemidji, Minnesota, enclosed for filing, in triplicate, is an application on FCC Form 340 for a construction permit to make minor modifications to the station. 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

cc: Mitzi T Gramling, Esq.

FCC 340

APPLICATION FOR CONSTRUCTION PERMIT FOR NONCOMMERCIAL EDUCATIONAL BROADCAST STATION

(Carefully read instructions before filing form) Return only form to FCC

Section I - GENERAL INFORMATION

FOR COMMISSION USE ONLY
FILE NO.

1. Name of Applicant Minnesota Public Radio		
Street Address or P.O. Box 45 East Seventh Street		
City Saint Paul	State MN	ZIP Code 55101
Telephone Number (include Area Code) 651.290.1500		

Send notices and communications to the following person at the address below:		
Name Mitzi T Gramling c/o Minnesota Public Radio		
Street Address or P.O. Box 45 East Seventh Street		
City Saint Paul	State MN	ZIP Code 55101
Telephone Number (include Area Code) 651.290.1259		

2. This application is for:

AM FM TV

(a) Channel No. or Frequency 217

(b) Principal Community	City	State
	Bemidji	MN

(c) Check one of the following boxes:

- Application for NEW station
- MAJOR change in licensed facilities; call sign: _____
- MINOR change in licensed facilities; call sign: _____ KNBJ (FM)
- MAJOR modification of construction permit; call sign: _____
File No. of construction permit; call sign: _____
- MINOR modification of construction permit; call sign: _____
File No. of construction permit; call sign: _____
- AMENDMENT to pending application: Application File Number: _____

NOTE: It is not necessary to use this form to amend a previously filed application. Should you do so, however, please submit only Section I and those other portions of the form that contain the amended information.

3. Is this application mutually exclusive with a renewal application?

Yes No

If Yes, state:

Call letters	Community of License	
	City	State

SECTION VI - EQUAL EMPLOYMENT OPPORTUNITY PROGRAM

Does the applicant propose to employ five or more full-time employees?

Yes No

If Yes, the applicant must include an EEO program called for in the separate Broadcast Equal Employment Opportunity Program Report (FCC Form 396-A). (See also 47 C.F.R. Section 73.2080.)

SECTION VII - CERTIFICATIONS

1. Has or will the applicant comply with the public notice requirements of 47 C.F.R. Section 73.3580?

Yes No

Not applicable (minor change)

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

Yes No

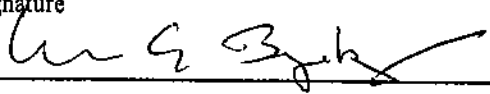
The APPLICANT hereby waives any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. (See Section 304 of the Communications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

The APPLICANT acknowledges that all the statements made in this application and attached Exhibits are considered material representations, and that all 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.

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 Minnesota Public Radio	Signature 
Title Vice President	Date 2/7/01
Typed or Printed Name of Person Signing William E Buzenberg	

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).

SECTION V-B - FM BROADCAST ENGINEERING DATA

FOR COMMISSION USE ONLY

File No. _____
 SSB Referral Date _____
 Referred By _____

Name of Applicant **Minnesota Public Radio**

Call Letters (if issued)

KNBJ

Is this application being filed in response to an application filing window? Yes No
 If Yes, specify closing date: _____

Purpose of Application: (check appropriate boxes)

- | | |
|--|--|
| <input type="checkbox"/> Construct a new (main) facility | <input type="checkbox"/> Construct a new auxiliary backup facility |
| <input type="checkbox"/> Modify existing construction permit for main facility | <input type="checkbox"/> Modify existing construction permit for auxiliary backup facility |
| <input checked="" type="checkbox"/> Modify licensed main facility | <input type="checkbox"/> Modify licensed auxiliary backup facility |

See Ex #E1, Engineering Statement

If purpose is to modify, indicate below the nature of change(s) and specify the file number(s) of the authorizations affected.

- | | |
|---|--|
| <input checked="" type="checkbox"/> Antenna supporting structure height | <input checked="" type="checkbox"/> Effective radiated power |
| <input checked="" type="checkbox"/> Antenna height above average terrain | <input type="checkbox"/> Frequency |
| <input checked="" type="checkbox"/> Antenna location | <input type="checkbox"/> Class |
| <input type="checkbox"/> Main Studio location per 47 C.F.R. Section 73.1125(b)(2) | <input type="checkbox"/> One-Step processing |
| <input type="checkbox"/> Directional Antenna | <input type="checkbox"/> Other (summarize briefly) |

File Number(s) BLED19940711KY

1. Allocation:

Channel No.	Principal community to be served:		
	County	City or Town	State
217	Beltrami	Bemidji	MN

- Class (check only one box below)
- | | | | |
|-----------------------------|--|----------------------------|-----------------------------|
| <input type="checkbox"/> A | <input type="checkbox"/> B1 | <input type="checkbox"/> B | <input type="checkbox"/> C3 |
| <input type="checkbox"/> C2 | <input checked="" type="checkbox"/> C1 | <input type="checkbox"/> C | |

2. Exact location of antenna.

(a) Specify address, city, county and state. If no address, specify distance and bearing relative to the nearest town or landmark.

4.5 km SSE of Blackduck, Minnesota

(b) Geographical coordinates (to nearest second). If mounted on element of an AM array, specify coordinates of center of array. Otherwise, specify tower location. Specify South Latitude and East Longitude where applicable; otherwise, North Latitude or West Longitude will be presumed. (The Commission requires coordinates based on NAD 27.)

Latitude	47 °	41 ' 29 "	Longitude	94 °	31 ' 06 "
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Section V-B - FM BROADCAST ENGINEERING DATA (Page 2)

3. Will the antenna be mounted on an antenna structure which has been registered with the Commission? Yes No

If Yes, provide the seven digit registration number and proceed to item 8.

4. Has the owner of the antenna structure filed an application for registration with the Commission? Yes No

If yes, provide the date FCC Form 854 was filed and proceed to item 8.

pending

5. Applicant certifies that antenna structure meets 6.10 meter (20 feet) exception rule and therefore does not require registration. In other words, the overall height of the entire structure is not more than 6.10 meters (20 feet) above the ground or the antenna does not extend more than 6.10 meters (20 feet) above a man-made structure (structure built for a purpose other than mounting an antenna, i.e., building, water tank, silo, fire tower, etc.). Yes No

If yes, skip items 6 and 7.

6. Antenna structure will be shielded by existing structures of a permanent and substantial character or by natural terrain or topographic features of equal or greater height, and would be located in the congested area of a city, town or settlement where it is evident beyond all reasonable doubt that the structure is so shielded that it will not adversely affect safety in air navigation. Yes No

If yes, submit as an Exhibit a detailed explanation and/or diagram to support your claim and skip to item 8.

Exhibit No.
N/A

7. Antenna structure does not meet FAA notification criteria as defined under 47 C.F.R. Section 17.7 and therefore does not require registration. Yes No

8. Is the supporting structure the same as that of another station(s) or proposed in another pending application(s)? Yes No

If Yes, give call letter(s) or file number(s) or both. KCRBFM, pending change application.

If proposal involves a change in height of an existing structure, specify existing height above ground level including antenna, all other appurtenances, and lighting, if any.

9. Does the application propose to correct previous site coordinates? Yes No
If Yes, list old coordinates.

Latitude	o	'	"	Longitude	o	'	"
----------	---	---	---	-----------	---	---	---

10. Has the FAA been notified of the proposed construction? Yes No

If Yes, give date and office where notice was filed and attach as an Exhibit a copy of FAA determination, if available.

Exhibit No.

Date 02/05/2001 Office where filed Great Lakes Region

11. List all landing areas within 8 km of antenna site. Specify distance and bearing from structure to nearest point of the nearest runway.

	Landing Area	Distance (km)	Bearing (degrees True)
(a)	<u>None</u>		
(b)			

12. (a) Elevation: *(to the nearest meter)*

- (1) Of the site above mean sea level; 427 meters
- (2) Of the top of supporting structure above ground *(including antenna, all other appurtenances, and lighting, if any)*; and 305 meters
- (3) Of the top of supporting structure above mean sea level [(a)(1) + (a)(2)]. 732 meters

(b) Height of radiation center: *(to the nearest meter)* H = Horizontal; V = Vertical

- (1) Above ground; 254 meters (H)
- 254 meters (V)
- (2) Above mean sea level [(a)(1) + (b)(1)]; and 680* meters (H)
- 680* meters (V)
- * Figure from vertical sketch to avoid rounding error
- (3) Above average terrain. 259 meters (H)
- 259 meters (V)

13. Attach as an Exhibit sketch(es) of the supporting structure, labeling all elevations required in Question 12 above, except item 12(b)(3). If mounted on an AM directional array element, specify heights and orientations of all array towers, as well as location of FM radiator.

Exhibit No.
E2

14. Effective Radiated Power:

(a) ERP in the horizontal plane 80 kw (H*) 80 kw (V*)

Is beam tilt proposed?

Yes No

If Yes, specify maximum ERP in the plane of the tilted beam, and attach as an Exhibit a vertical elevation plot of radiated field.

Exhibit No.
N/A

kw (H*) kw (V*)

*Polarization

15. Is a directional antenna proposed?

Yes No

If Yes, attach as an Exhibit a statement with all data specified in 47 C.F.R. Section 73.316, including plot(s), and tabulations of horizontally and vertically polarized radiated components in terms of relative field.

Exhibit No.
N/A

16. Will the main studio be located within the 70 dBu or 3.16 mV/m contour?

Yes No

If No, attach as justification an Exhibit pursuant to 47 C.F.R. Section 73.1125.

Exhibit No.

17. Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters, or any nonbroadcast (*except citizens band or amateur*) radio stations; or (b) within the blanketing contour, any established commercial or government receiving stations, cable head-end facilities, or populated areas; or (c) within ten (10) kilometers of the proposed antenna, any protected or authorized FM or TV transmitters which may produce receiver-induced intermodulation interference? Yes No

If Yes, attach as an Exhibit a description of any expected, undesired effects of operations and remedial steps to be pursued if necessary, and a statement accepting full responsibility for the elimination of any objectionable interference (including that caused by receiver-induced or other types of modulation) to facilities in existence or authorized or to radio receivers in use prior to grant of this application. (See 47 C.F.R. Section 73.315(b), 73.316(d) and 73.318.)

Exhibit No.
E3

18. Attach as an Exhibit a 7.5 minute series U.S. Geological Survey topographic quadrangle map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply with the requirements set forth in Instruction D for Section V. Further, the map must clearly and legibly display the original printed contour lines and data as well as latitude and longitude markings, and must bear a scale of distance in kilometers.

Exhibit No.
E4

19. Attach as an Exhibit (name the source) a map which shows clearly, legibly, and accurately, and with the original printed latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.
E5

- (a) The proposed transmitter location, and the radials along with profile graphs have been prepared;
- (b) The 1 mV/m predicted contour and, for noncommercial educational applicants applying on a commercial channel, the 3.16 mv/m contour; and
- (c) The legal boundaries of the principal community to which the station is or will be licensed.

20. Specify area in square kilometers (1 sq. mi. = 2.59 sq. km.) and population (latest census) within the predicted 1 mv/m contour.

Area 14,031 sq. km. Population 52,983

21. Attach as an Exhibit a map (*Sectional Aeronautical charts where obtainable*) showing the present and proposed 1 mv/m (60 dbu) contours. See Ex #E6, Change Area

Enter the following from Exhibit above:

Gain Area	<u>303.2</u>	sq. km.
Loss Area	<u>535.5</u>	sq. km.
Present Area	<u>14,046</u>	sq. km.

Percent change (gain area plus loss area as divided by present area times 100%) -5.97

If 50% or more, this constitutes a major change. Indicate in question 2(c), Section 1, accordingly. See 47 C.F.R. Section 73.3573(a)(1).)

Section V-B - FM BROADCAST ENGINEERING DATA (Page 5)

Exhibit No.
N/A

22. For an application involving an auxiliary backup facility only, attach as an Exhibit a map (*Sectional Aeronautical Chart or equivalent*) which shows clearly, legibly, and accurately, and with latitude and longitude markings and a scale of distance in kilometers:

- (a) the proposed auxiliary 1 mv/m contour; and
- (b) the 1 mv/m contour of the licensed main facility for which the applied-for facility will be auxiliary. Also specify the file number of the license. See 47 C.F.R. Section 73.1675.

File No. _____

23. Terrain and coverage data (*to be calculated in accordance with 47 C.F.R. Section 73.313*)

Source of terrain data: (*check only one box below*)

- Linearly interpolated 30-second database
- 7.5 minute topographic map

(Source: _____)

- Linearly interpolated 3-second database
- Other (summarize)

USGS V-Soft ROM

Are more than eight radials being used to calculate HAAT?

Yes No

If Yes, specify how many radials are being used. Please note the radials must be evenly spaced and start with the 0 degree radial. 36

Radial bearing (degrees True)	Height of radiation center above average elevation of radial from 3 to 16 km (meters)	Predicted Distances to the 1 mV/m contour (kilometers)	If operating on Commercial Channel 3.16 mv/m contour (kilometers)
0	*	*	*
45	*See Ex #E1, Pg #3	*	*
90	*	*	*
135			
180			
225			
270			
315			

Allocation Studies

(See Subpart C of 47 C.F.R. Part 73)

24. Is the proposed antenna location within 320 kilometers (199 miles) of the common border between the United States and Mexico? Yes No

If Yes, attach as an Exhibit a showing of compliance with all provisions of the Agreement between the United States of America and the United Mexican States concerning Frequency Modulation Broadcasting in the 88 to 108 MHz band.

Exhibit No.
N/A

Section V-B - FM BROADCAST ENGINEERING DATA (Page 6)

25. Is the proposed antenna location within 320 kilometers of the common border between the United States and Canada? Yes No

If Yes, attach as an Exhibit a showing of compliance with all provisions of the Working Agreement for Allocation of FM Broadcasting Stations on Channels 201-300 under the Canada-United States FM Agreement of 1947.

Exhibit No.
E7

26. If the proposed operation is for a full service or Class D facility for a channel in the range from Channel 201 through 220 (88.1 through 91.9 MHz), or if this proposed operation is for a Class D station in the range from Channel 221 through 300 (92.1 through 107.9 MHz), attach as an Exhibit a complete allocation study to establish the lack of prohibited overlap of contours with other U.S. stations. The allocation study should include the following:

Exhibit No.
E7

- (a) The normally protected interference-free and the interfering contours for the proposed operation along all azimuths;
- (b) Complete normally protected interference-free contours of all other proposals and existing stations to which objectionable interference would be caused;
- (c) Interfering contours over pertinent arcs of all other proposals and existing stations from which objectionable interference would be received;
- (d) Normally protected and interfering contours over pertinent arcs, of all other proposals and existing stations, which require study to show the absence of objectionable interference;
- (e) Plot of the transmitter location of each station or proposal requiring investigation, with identifying call letters, file numbers and operating or proposed facilities;
- (f) When necessary to show more detail, an additional allocation study will be attached utilizing a map with a larger scale to clearly show interference or absence thereof;
- (g) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire Exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified; and
- (h) The name of the map(s) used in the Exhibit(s).

27. With regard to any stations separated by 53 or 54 channels (10.6 or 10.8 MHz), attach as an Exhibit information required in 1/ (separation requirements involving intermediate frequency (i.f.) interference).

Exhibit No.
E7

28. (a) Is the proposed operation on Channel 218, 219 or 220? Yes No

(b) If the answer to (a) is Yes, does the proposed operation satisfy the requirements of 47 C.F.R. Section 73.207? Yes No N/A

(c) If the answer to (b) is Yes, attach as an Exhibit information required in 1/ regarding separation requirements with respect to stations on Channels 221, 222 and 223.

Exhibit No.
N/A

(d) If the answer to (b) is No, attach as an Exhibit a statement describing the short spacing(s) and how it or they arose.

Exhibit No.
N/A

1/ A showing that the proposed operation meets the minimum distance separation requirements of 47 C.F.R. Section 73.507. Include existing stations, proposed stations, and cities which appear in the Table of Allotments; the location and geographic coordinates of each antenna, proposed antenna or reference point, as appropriate; and distance to each from proposed antenna location.

Exhibit No.
N/A

(e) If authorization pursuant to 47 C.F.R. Section 73.215 is requested, attach as an Exhibit a complete engineering study to establish the lack of prohibited overlap of contours involving affected stations. The engineering study must include the following:

- (1) Protected and interfering contours, in all directions (360 degrees), for the proposed operation;
- (2) Protected and interfering contours, over pertinent arcs, of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as transmitter location;
- (3) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur;
- (4) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire Exhibit(s) (Sufficient lines should be shown so that the location of the sites may be verified.); and
- (5) The official title(s) of the map(s) used in the Exhibit(s).

29. Is the proposed station for a channel in the range from Channel 201 to 220 (88.1 through 91.9 MHz) and the proposed antenna location within the distance to an affected TV Channel 6 station(s) as defined in 47 C.F.R. Section 73.525? Yes No

If Yes, attach as an Exhibit either a TV Channel 6 agreement letter dated and signed by both parties or a map and an engineering statement with calculations demonstrating compliance with 47 C.F.R. Section 73.525 for each affected TV Channel 6 station.

Exhibit No.
N/A

30. Is the proposed station for a channel in the range from Channel 221 to 300 (92.1 through 107.9 MHz)? Yes No

If Yes, attach as an Exhibit information required in 1/. (Except for Class D (secondary) proposals.)

Exhibit No.
N/A

31. Environmental Statement. (See 47 C.F.R. Section 1.1301 et seq.)

(a) Would a Commission grant of this application come within 47 C.F.R. Section 1.1307, such that it may have a significant environmental impact? Yes No

If you answer Yes, submit as an Exhibit an Environmental Assessment required by 47 C.F.R. Section 1.1311.

Exhibit No.
N/A

(b) If No, explain briefly why not.

Tower categorically excluded.

(c) Pursuant to OST/OET Bulletin No. 65, the applicant must explain in an Exhibit what steps will be taken to limit the RF radiation exposure to the public and to persons authorized access to the tower site. In addition, where there are multiple contributors to radiofrequency radiation, you must certify that the established RF radiation exposure procedures will be coordinated with all stations.

See Ex #E8 for RF Hazard compliance statement.

CERTIFICATION

I certify that I have prepared this Section of this application 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.

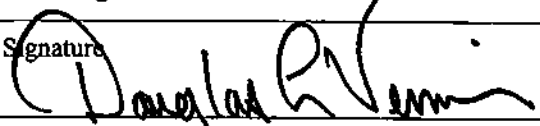
Name (Typed or Printed) Douglas L. Vernier	Relationship to Applicant (e.g., Consulting Engineer) Technical Consultant
Signature 	Address (include ZIP Code) 1600 Picturesque Drive Cedar Falls, IA 50613
Date February 5, 2001	Telephone No. (include Area Code) 319 266-8402

EXHIBIT #E1
ENGINEERING STATEMENT

Concerning the Application of
Minnesota Public Radio
To Make a Minor Change to KNBJ
A Non-Commercial FM Station
Serving Bemidji, Minnesota

BLED19940711KY

February 2001

Channel 217C1

80 kW H & V

This engineering statement supports the application filed by Minnesota Public Radio to make a minor change to KNBJ, a non-commercial, educational FM station serving Bemidji, Minnesota.

Minnesota Public Radio proposes to change the antenna location, decrease the antenna supporting structure height, decrease the antenna height above average terrain and increase maximum ERP. No other changes are being proposed.

Exhibit #E2 is a vertical sketch of the proposed tower, depicting the proposed side mounted 12-bay circularly polarized antenna. The applicant proposes to duplex a signal for KCRBFM on Channel 203 through the same antenna.

Exhibit #E3 is an exhibit describing the possible effects of inter-modulation and blanketing.

Exhibit #E4 is full-scale section of a 1:24,000 scale U.S. Geological Survey topographic quadrangle map (Blackduck, Minnesota Quadrangle) showing the exact transmitter location. Page #2 is a photo-reduction of the map showing the corner edge markings.

Exhibit #E5 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 the proposed 60 dBu city service contour. The coverage map was computer generated using U.S. Geological Survey Digital Line Graph data, which was originally digitized from 1:2,000,000 scale maps. 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 14,031 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 52,983 people through the use of a computer program which extracts a population count based on population centroids defined by U.S. Census 1990 (PL-94-171) digital census data. This program draws data from the following summary level: State-County-Voting District/Remainder-County Subdivision, Place/Remainder-Census Tract/Block Numbering Area-Block Group.

Thirty-six evenly spaced radials were used to determine the antenna height above average terrain. The N.G.D.C. 03 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 #E6 is a Change Area Map. KNBJ's current 1 mV/m coverage area is 14,046 sq. km. By using a compensating polar planimeter the change area is calculated to be 838.7 sq. km. resulting in a change area of -5.97%

Exhibit #E7 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. 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.

The proposed channel 217 facility will be outside the 174 kilometer cut-off distance with regard to protection to the closest channel-six TV station KSBRTV, therefore no channel-six TV exhibit is required for this proposal.

Exhibit #E8 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, Doug Vernier, attesting to his qualifications.

Doug Vernier - Telecommunications Consultants
 KNBJ, Minnesota Public Radio, Minor Change Application
 ERP = 80 kW
 Channel = 217

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	428.5	251.8	19.031	66.20
10	429.0	251.3	19.031	66.16
20	430.6	249.7	19.031	66.03
30	430.7	249.6	19.031	66.03
40	433.2	247.1	19.031	65.83
50	435.4	244.9	19.031	65.65
60	432.4	247.9	19.031	65.89
70	427.7	252.6	19.031	66.27
80	424.4	255.9	19.031	66.54
90	417.6	262.7	19.031	67.09
100	413.3	267.0	19.031	67.45
110	409.2	271.1	19.031	67.79
120	413.4	266.9	19.031	67.44
130	416.6	263.7	19.031	67.18
140	419.8	260.5	19.031	66.92
150	421.4	258.9	19.031	66.79
160	421.9	258.4	19.031	66.75
170	418.6	261.7	19.031	67.01
180	412.4	267.9	19.031	67.53
190	409.1	271.2	19.031	67.79
200	409.9	270.4	19.031	67.73
210	410.5	269.8	19.031	67.68
220	413.6	266.7	19.031	67.43
230	420.1	260.2	19.031	66.89
240	424.1	256.2	19.031	66.56
250	430.0	250.3	19.031	66.08
260	429.4	250.9	19.031	66.14
270	433.5	246.8	19.031	65.80
280	428.4	251.9	19.031	66.21
290	418.8	261.5	19.031	67.00
300	409.2	271.1	19.031	67.79
310	409.7	270.6	19.031	67.75
320	414.5	265.8	19.031	67.35
330	414.9	265.4	19.031	67.32
340	419.0	261.3	19.031	66.98
350	422.8	257.5	19.031	66.67
Ave. =	420.9 M	259.4 M		

Antenna Radiation Center AMSL =680.3
 NGDC 03 Arc Sec.

Geographic Coordinates:

N. Lat. 47 41 29
 W. Lng. 94 31 06

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.)

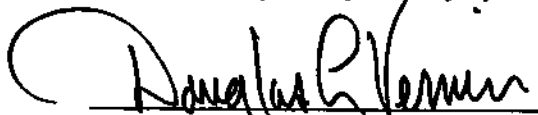
That, my qualifications are a matter of record with the Federal Communications Commission;

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;

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

 Douglas L. Vernier

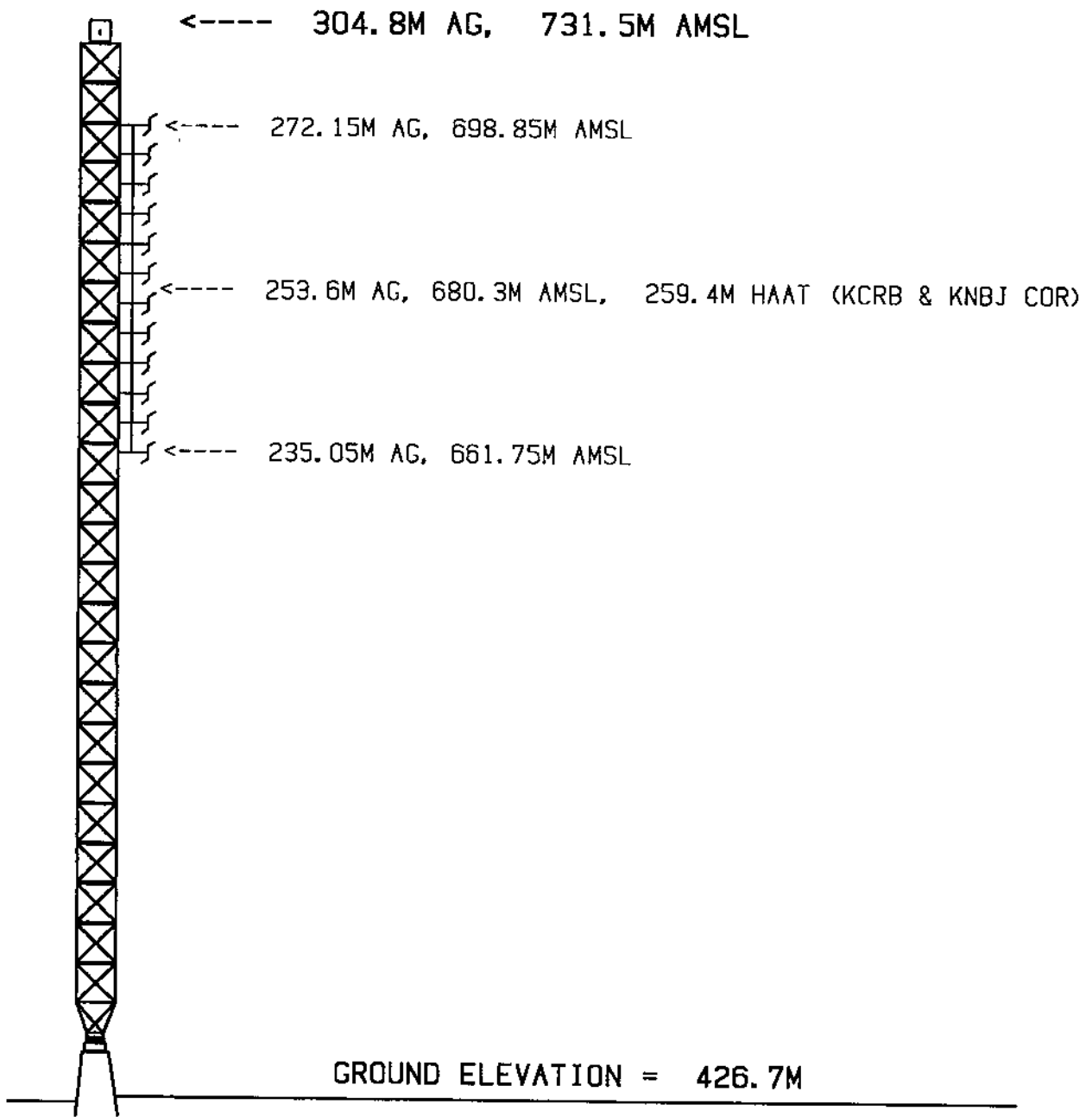
Executed on February 2, 2001

Subscribed and sworn before me this 2nd day of February, 2001.




Notary Public in and for the State of Iowa

My Commission Expires August 10, 2001



VERTICAL SKETCH

N. Lat. 47 41 29
 W. Lng. 94 31 06

 (Not to Scale)

EXHIBIT #E2

KNBJ, Ch 217 259.4HAAT
 Minnesota Public Radio
 Bemidji, MN

Feb 2001

DOUG VERNIER
 BROADCAST CONSULTANT
 1600 PICTURESQUE DR.
 CEDAR FALLS, IA 50613
 319 266-8402

**EXHIBIT #E3
Inter-modulation Interference
February 2001**

**Concerning the Application of
Minnesota Public Radio
For KNBJ
Bemidji, Minnesota**

91.3 MHz

The 115 dBu blanketing contour of the proposed facility travels 3.52 kilometers from the proposed 80 kW ERP antenna. There is no permanent population within this area.

There is a NTSC TV station and a DTV application within ten kilometers of the proposed facility. In another application, Minnesota Public Radio proposes to install an additional antenna on this tower for KCRBFM using 88.3 MHz. Page #2 of this exhibit lists pertinent information as to the existing facilities and locations.

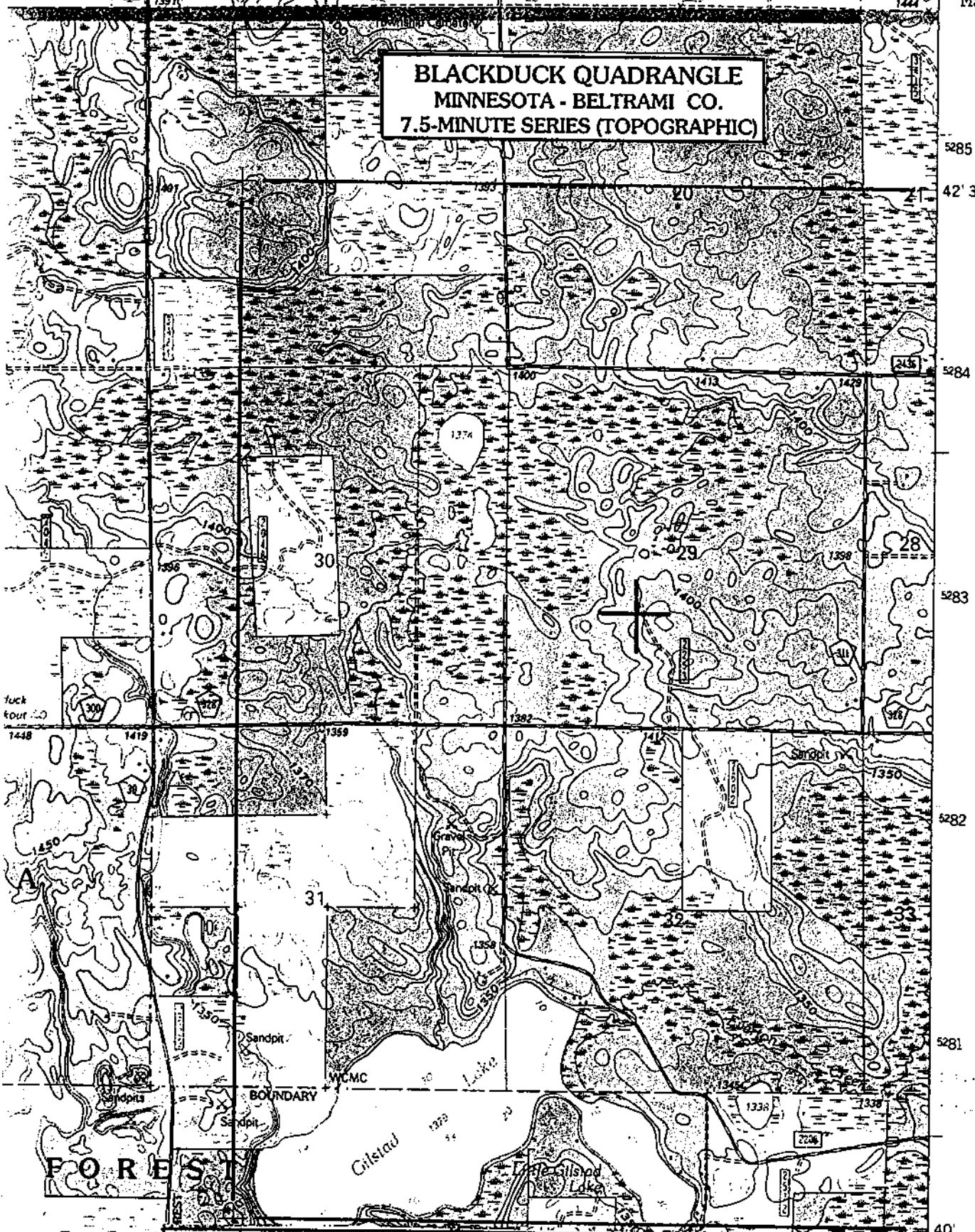
Since the applicant proposes to add another FM signal in duplex with the proposed FM signal, it is possible for a signal mix to occur. Without proper filtering, this combination could be introduced to the IPA's of either of the two transmitters resulting in a mix of the original transmitter frequencies plus or minus the mix frequency. The applicant is aware of such a possibility and will use proper filtering to assure that inter-modulation will be effectively limited.

Minnesota Public Radio is aware of its responsibility under the rules relating to inter-modulation and objectionable blanketing interference. It will correct any such interference, at its own expense, within a period of one year from commencement of broadcasting at the proposed transmitter site. Corrections shall employ traditional means such as filters, traps and tuning adjustments.

ID Stations Study at 47 41 29 N, 94 31 06 W, Search Distance = 10 km

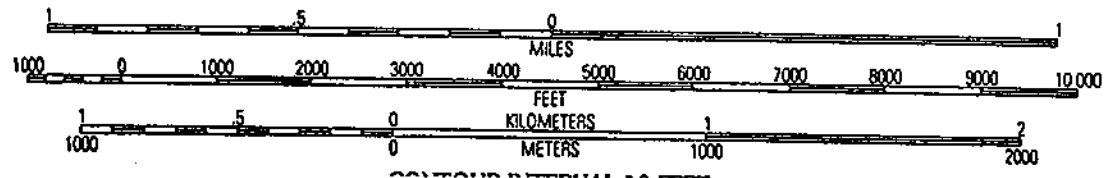
Call	City	State	Chan.	Power	Coordinates
Dist-km	Azimuth	File	Number		
AM	None Found				
FM	-----				
KCRBFM	Bemidji	MN	203C1	0095.000kw	474203N 942915W
002.5	065.5	BLED19940711K		FM	
KNBJ	Bemidji	MN	217C1	0060.000kw	474203N 942915W
002.5	065.5	BLED19940711K		FM	
AVAC	Blackduck	MN	252C1	0000.000kw	474053N 942719W
004.9	103.2			FM	
TV	-----				
KAWF	Bemidji	MN	09E	0316.000kw	474203N 942915W
002.5	065.5	BLET19800718K		TV	
KAWF-D	Bemidji	MN	18	0050.000kw	474203N 942915W
002.5	065.5	BPEDT20000203		TV	

**BLACKDUCK QUADRANGLE
MINNESOTA - BELTRAMI CO.
7.5-MINUTE SERIES (TOPOGRAPHIC)**



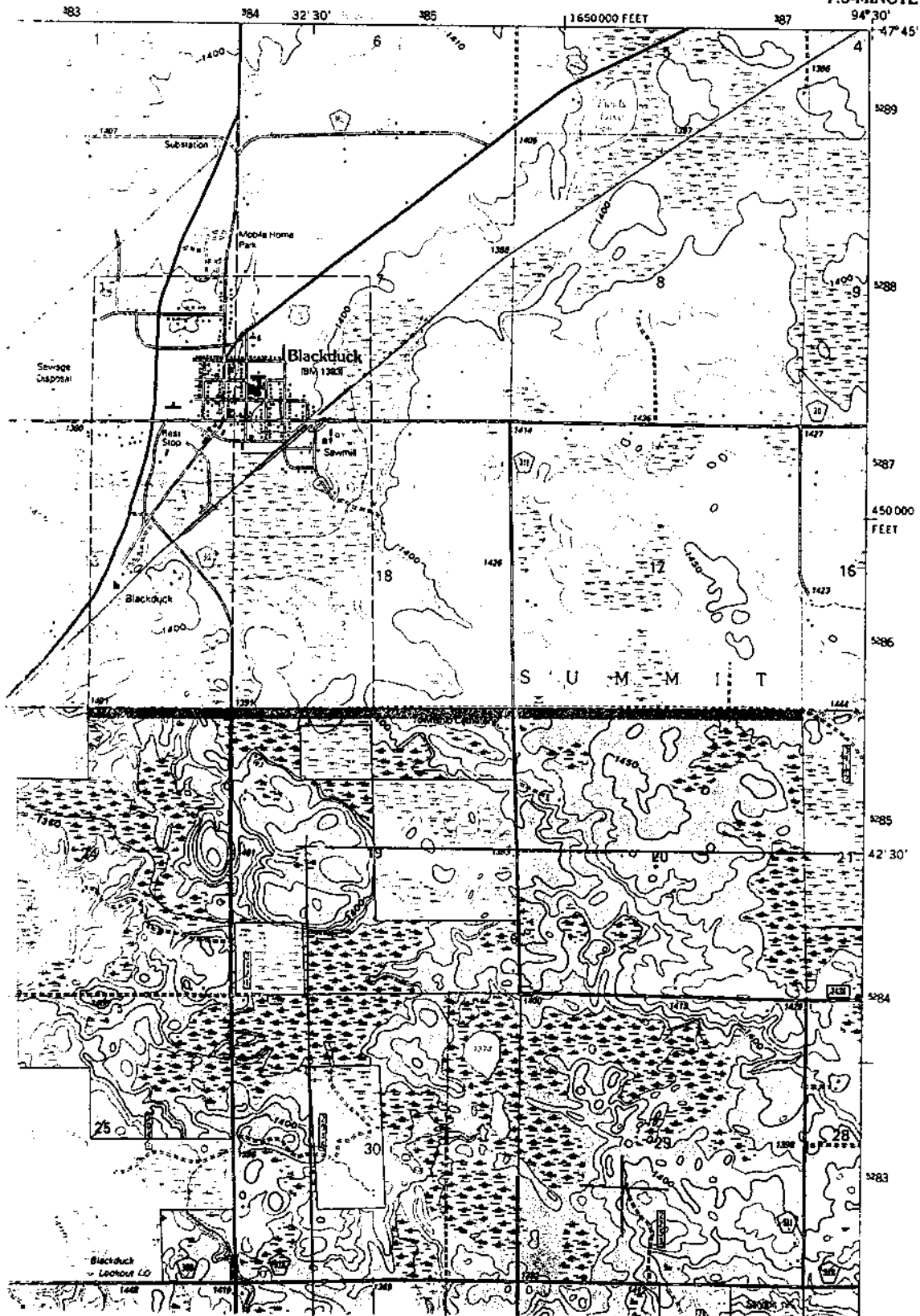
5285
42' 30"
5284
5283
5282
5281
40'

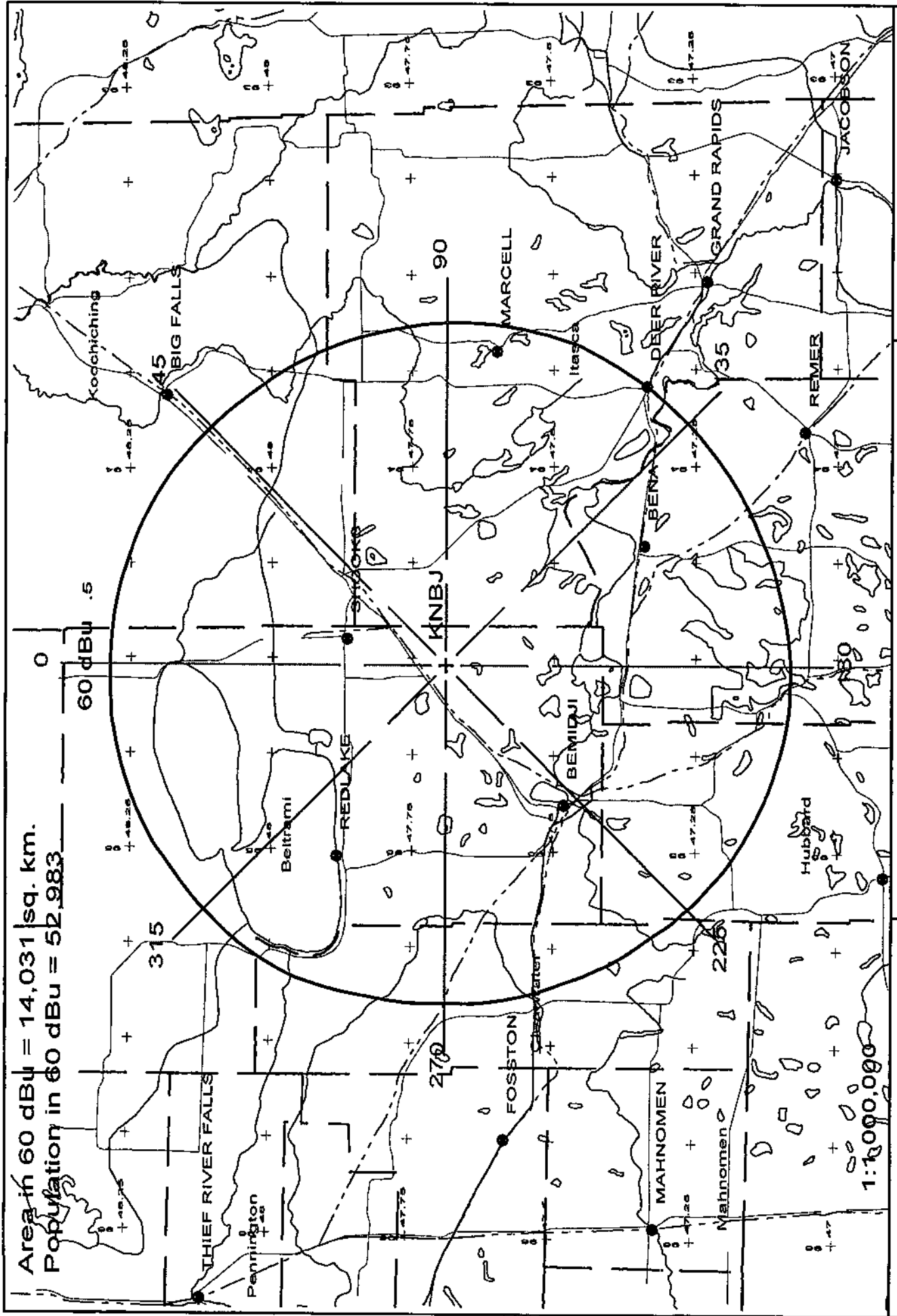
SCALE 1:24 000



UNITED STATES
DEPARTMENT OF AGRICULTURE
NATIONAL BUREAU OF SURVEY SERVICE

BLACKDUCK QUADRANGLE
MINNESOTA - BELTRAMI CO.
7.5-MINUTE SERIES (TOPOGRAPHIC)





Area in 60 dBu = 14,031 sq. km.
 Population in 60 dBu = 52,983

KNBJ 60 dBu

KNBJ 217C1 80KW 680.3M AMSL

K Michler - 02/01

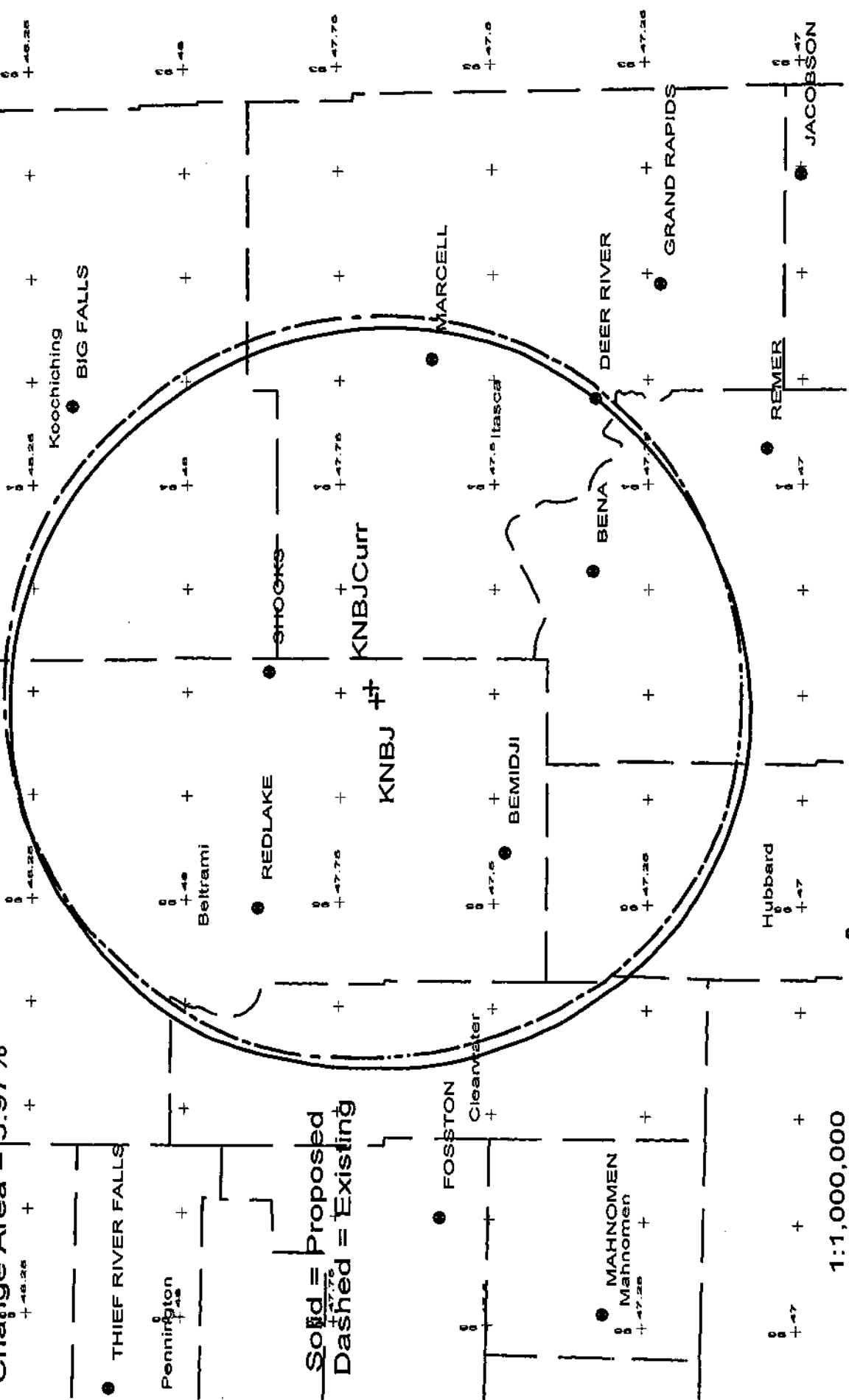
N. Lat. 47 41 29 W. Lng. 94 31 06

Scale in km



Gain Area = 303.2 sq. km.
 Loss Area = 535.5 sq. km.
 Current Area = 14,046 sq. km.
 Change Area = 5.97%

60 dBu .5



Solid = Proposed
 Dashed = Existing

1:1,000,000

Scale in km



KNOX 217C1 80kW 680.3M AMSL

N. Lat. 47 41 29 W. Lng. 94 31 06

KNOX Change Area

K Michler - 02/01

Exhibit #E7, Allocation

KNBJ
Minnesota Public Radio
Bemidji, Minnesota

Allocation Exhibit Index to Studies

<u>Contents:</u>	<u>Pages:</u>
Tabular Channel Study	2
Tabular Study Narrative	3
KNBJ vs. KUWS Map	4
KUWS vs. KNBJ FMOVER Table	5
KNBJ vs. KUWS FMOVER Table	6-7
KNBJ vs. QMNM Map	8
QMNM vs. KNBJ FMOVER Table	9
KNBJ vs. QMNM FMOVER Table	10

KNBJ

Minor Change Application

REFERENCE CH# 217C1 - 91.3 MHz, Pwr= 80 kw, HAAT=259.4 M, COR= 680 M DISPLAY DATES
 47 41 29 N Average Protected F(50-50)= 66.82 km DATA 01-31-01
 94 31 06 W Ave. F(50-10) 40 dBu= 162.6 54 dBu= 97.9 80 dBu= 29.5 100 dBu= 8.9 SEARCH 02-01-01

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*
217C1 Bemidji	KNBJ	LIC CN MN	65.5 245.5	2.54 BLED19940711KY	47 42 03 94 29 15	60.000 297	717 158.9	67.0 American Public Media Grou	-223.15	-227.03
217C1 Superior > Reference HAAT at	*KUWS	LIC CN WI	118.0 298.0	207.84 BLED19910122KA	46 47 21 92 06 51	83.000 68	501 136.4	42.4 Bd. Of Regents, Univ. Of W	3.92	2.15
Pro. Dist. = 67.5 km, Int Dist. = 163.29 km										
218C1 Thief River Falls > Reference HAAT at	*KQMN	LIC CN MN	282.3 102.3	159.71 BLED19901205KF	47 58 38 96 36 32	84.000 178	474 89.3	60.1 Minnesota Public Radio	4.13	2.39
Pro. Dist. = 66.24 km, Int Dist. = 97.19 km										
216C1 Moorhead	KCCFM	LIC CN MN	237.5 57.5	189.10 BLED19811119AL	46 45 35 96 36 26	67.000 201	486 89.0	60.1 Minnesota Public Radio	33.29	31.07
219C1 Grand Rapids	KAXE	LIC CN MN	120.4 300.4	95.06 BLED1533	47 15 17 93 26 03	100.000 140	546 6.9	57.1 Northern Community Radio	21.38	29.08
217C Appleton	KRSU	LIC CN MN	202.6 22.6	302.80 BLED19891031KB	45 10 03 96 00 02	75.000 341	648 170.0	72.5 Minnesota Public Radio	65.96	67.72
270C2 Walker	KQKK	LIC C MN	164.5 344.5	73.53 BLH19990802KA	47 03 14 94 15 32	50.000 119	524 0.0	47.8 Carol J. Delahunt	27.0R	46.5M
220A International Falls	KXBR	LIC C MN	38.9 218.9	126.58 BLED20000626AEO	48 34 15 93 26 19	1.500 39	384 1.6	12.6 Heartland Christian Broadc	58.15	105.10
215C2 Virginia-hibbing	WIRR	LIC CN MN	98.8 278.8	132.18 BLED19850827KC	47 29 46 92 47 05	21.000 168	615 5.0	46.7 Minnesota Public Radio	60.37	76.64
214C1 Brainerd	KBPR	LIC CN MN	178.2 358.2	141.13 BLED19880222KG	46 25 21 94 27 41	34.000 207	597 6.2	54.5 Minnesota Public Radio Inc	68.06	77.80
06+2C Superior	KBJRTV	LI HY WI	118.0 298.0	207.84 BLCT20000517AEX	46 47 21 92 06 51	100.000 302	603 0.0	103.7 Kbjr License, Inc.	To Grd B=	104.13

* = 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.

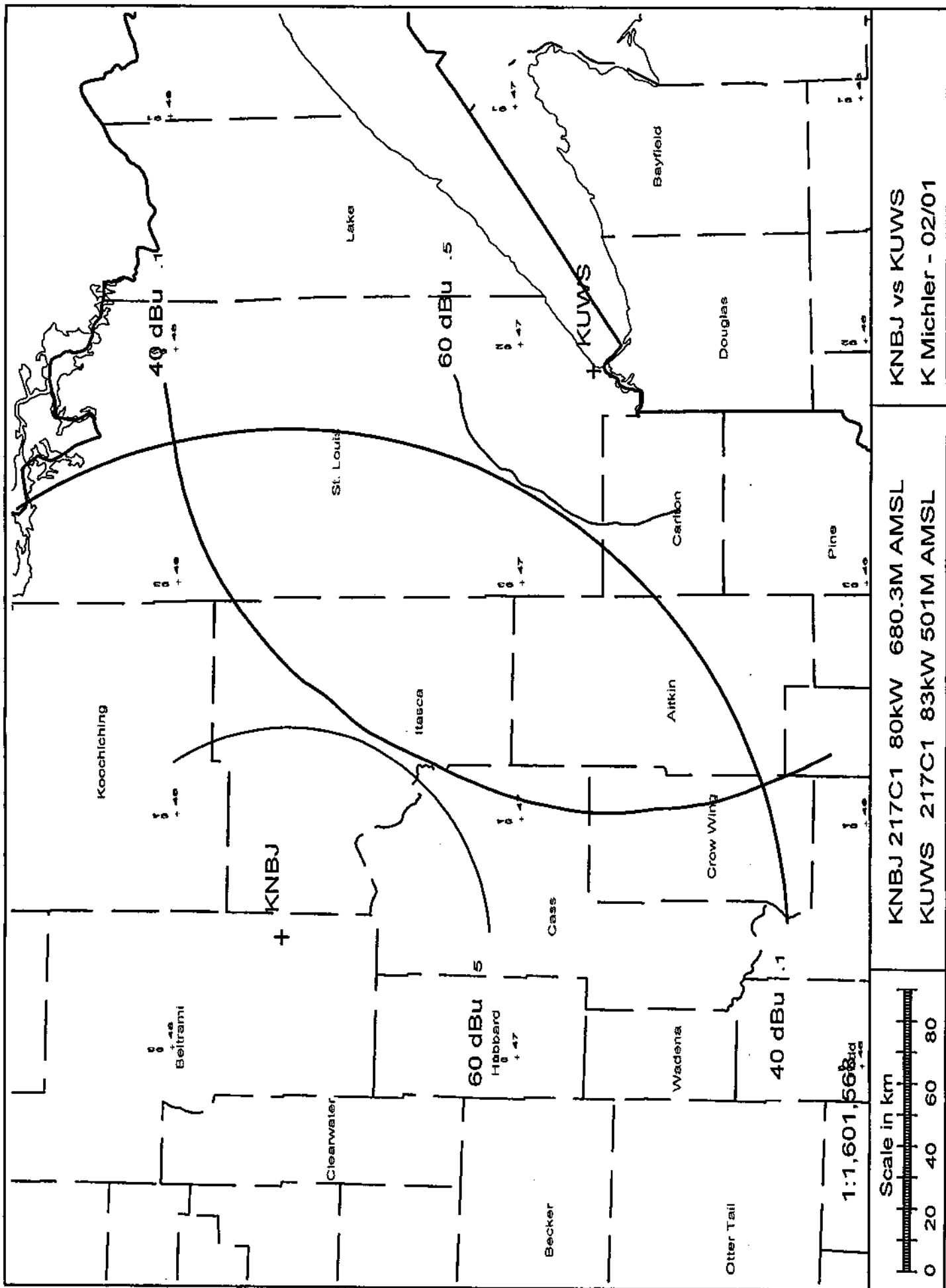
The column listed **"IN"** is the sum of the reference station's 60 dBu protected contour and the data file station's interference contour subtracted from the distance between the stations. (All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket 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.



KNBJ vs KUWS
K Michler - 02/01

KNBJ 217C1 80KW 680.3M AMSL
KUWS 217C1 83kW 501M AMSL

Scale in km
0 20 40 60 80

Doug Vernier Telecom Consultants
02-01-2001 03 Sec. Terrain Data

KNBJ
Channel = 217C1
Max ERP = 80 kW
RCAMSL = 680.3 M
N. Lat = 474129
W. Lng = 943106

KUWS BLED19910122KA
Channel = 217C1
Max ERP = 83 kW
RCAMSL = 501 M
N. Lat = 46 47 21
W. Lng = 92 06 51

Protected
60 dBu

Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
101.0	080.0000	0267.4	067.5	307.7	083.0000	0065.0	145.2	38.3
102.0	080.0000	0267.7	067.5	307.2	083.0000	0066.2	144.7	38.4
103.0	080.0000	0268.1	067.5	306.8	083.0000	0066.2	144.2	38.5
104.0	080.0000	0268.4	067.6	306.4	083.0000	0067.2	143.8	38.6
105.0	080.0000	0268.7	067.6	305.9	083.0000	0067.2	143.3	38.7
106.0	080.0000	0269.5	067.7	305.5	083.0000	0068.7	142.9	38.8
107.0	080.0000	0270.3	067.7	305.1	083.0000	0068.7	142.5	38.9
108.0	080.0000	0270.7	067.8	304.6	083.0000	0068.7	142.1	39.0
109.0	080.0000	0270.6	067.8	304.1	083.0000	0069.8	141.8	39.1
110.0	080.0000	0271.1	067.8	303.7	083.0000	0069.8	141.5	39.1
111.0	080.0000	0271.5	067.8	303.2	083.0000	0070.2	141.3	39.2
112.0	080.0000	0272.3	067.9	302.7	083.0000	0070.2	141.0	39.2
113.0	080.0000	0272.0	067.9	302.3	083.0000	0070.2	140.8	39.3
114.0	080.0000	0270.7	067.8	301.8	083.0000	0070.2	140.8	39.3
115.0	080.0000	0269.9	067.7	301.3	083.0000	0069.6	140.7	39.2
116.0	080.0000	0269.4	067.6	300.8	083.0000	0069.6	140.7	39.3
117.0	080.0000	0268.8	067.6	300.3	083.0000	0068.7	140.7	39.2
118.0	080.0000	0267.9	067.5	299.8	083.0000	0068.7	140.7	39.2
119.0	080.0000	0267.4	067.5	299.4	083.0000	0068.0	140.8	39.2
120.0	080.0000	0266.9	067.4	298.9	083.0000	0068.0	140.9	39.2
121.0	080.0000	0266.4	067.4	298.4	083.0000	0067.6	141.0	39.1
122.0	080.0000	0265.8	067.4	297.9	083.0000	0067.6	141.1	39.1
123.0	080.0000	0265.9	067.4	297.4	083.0000	0067.4	141.2	39.1
124.0	080.0000	0265.8	067.4	297.0	083.0000	0067.4	141.4	39.1
125.0	080.0000	0265.7	067.3	296.5	083.0000	0067.4	141.6	39.0
126.0	080.0000	0265.5	067.3	296.0	083.0000	0067.1	141.8	39.0
127.0	080.0000	0265.2	067.3	295.6	083.0000	0067.1	142.1	38.9
128.0	080.0000	0264.8	067.3	295.1	083.0000	0066.8	142.4	38.8
129.0	080.0000	0264.3	067.2	294.7	083.0000	0066.8	142.7	38.8
130.0	080.0000	0263.7	067.2	294.2	083.0000	0066.4	143.1	38.7
131.0	080.0000	0262.8	067.1	293.8	083.0000	0066.4	143.6	38.6
132.0	080.0000	0262.5	067.1	293.3	083.0000	0066.4	144.0	38.5
133.0	080.0000	0262.4	067.1	292.9	083.0000	0066.4	144.4	38.5
134.0	080.0000	0262.4	067.1	292.5	083.0000	0066.9	144.8	38.4
135.0	080.0000	0262.3	067.1	292.1	083.0000	0066.9	145.3	38.3

Doug Vernier Telecom Consultants
 02-01-2001 03 Sec. Terrain Data

KUWS BLED19910122KA
 Channel = 217C1
 Max ERP = 83 kW
 RCAMSL = 501 M
 N. Lat = 46 47 21
 W. Lng = 92 06 51

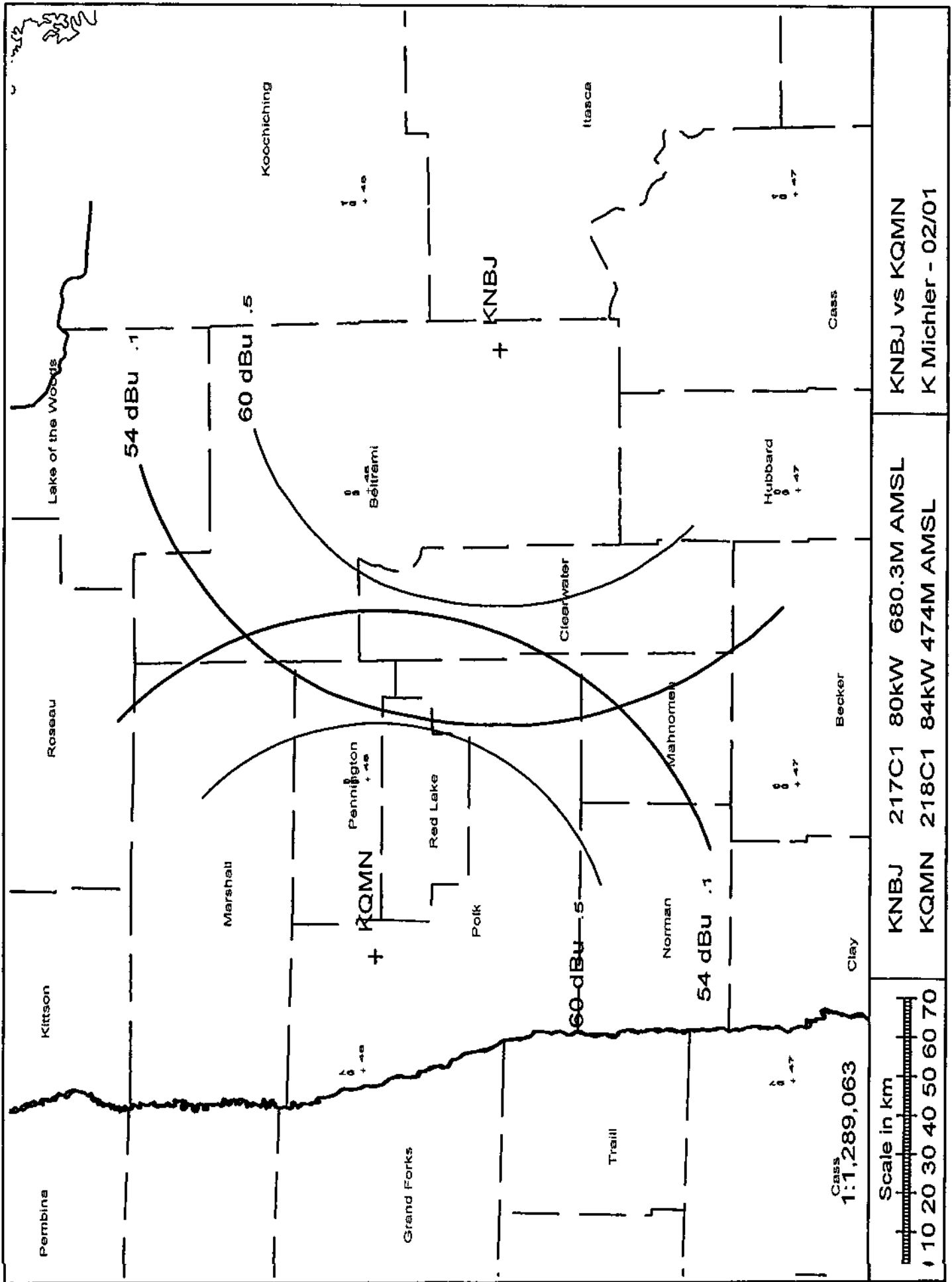
KNBJ
 Channel = 217C1
 Max ERP = 80 kW
 RCAMSL = 680.3 M
 N. Lat = 474129
 W. Lng = 943106

Protected
 60 dBu

Interfering
 40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
283.0	083.0000	0078.8	044.9	122.5	080.0000	0265.9	165.0	39.7
284.0	083.0000	0077.2	044.5	122.3	080.0000	0265.8	165.0	39.7
285.0	083.0000	0075.8	044.2	122.0	080.0000	0265.8	165.1	39.7
286.0	083.0000	0074.1	043.9	121.7	080.0000	0265.8	165.2	39.6
287.0	083.0000	0072.8	043.6	121.4	080.0000	0266.4	165.3	39.6
288.0	083.0000	0071.9	043.4	121.1	080.0000	0266.4	165.3	39.6
289.0	083.0000	0070.9	043.1	120.8	080.0000	0266.4	165.3	39.6
290.0	083.0000	0069.6	042.8	120.6	080.0000	0266.4	165.5	39.6
291.0	083.0000	0068.2	042.5	120.3	080.0000	0266.9	165.6	39.6
292.0	083.0000	0066.9	042.2	120.0	080.0000	0266.9	165.8	39.6
293.0	083.0000	0066.4	042.1	119.8	080.0000	0266.9	165.8	39.6
294.0	083.0000	0066.4	042.1	119.5	080.0000	0266.9	165.7	39.6
295.0	083.0000	0066.8	042.2	119.3	080.0000	0267.4	165.5	39.6
296.0	083.0000	0067.1	042.3	119.0	080.0000	0267.4	165.4	39.6
297.0	083.0000	0067.4	042.3	118.8	080.0000	0267.4	165.3	39.7
298.0	083.0000	0067.6	042.4	118.5	080.0000	0267.9	165.2	39.7
299.0	083.0000	0068.0	042.5	118.2	080.0000	0267.9	165.1	39.7
300.0	083.0000	0068.7	042.6	118.0	080.0000	0267.9	164.9	39.7
301.0	083.0000	0069.6	042.8	117.7	080.0000	0267.9	164.7	39.8
302.0	083.0000	0070.2	043.0	117.5	080.0000	0268.8	164.6	39.8
303.0	083.0000	0070.2	043.0	117.2	080.0000	0268.8	164.7	39.8
304.0	083.0000	0069.8	042.9	116.9	080.0000	0268.8	164.8	39.8
305.0	083.0000	0068.7	042.6	116.7	080.0000	0268.8	165.2	39.7
306.0	083.0000	0067.2	042.3	116.5	080.0000	0269.4	165.6	39.6
307.0	083.0000	0066.2	042.1	116.2	080.0000	0269.4	166.0	39.6
308.0	083.0000	0065.0	041.8	116.0	080.0000	0269.4	166.4	39.5
309.0	083.0000	0064.4	041.6	115.7	080.0000	0269.4	166.7	39.4
310.0	083.0000	0064.7	041.7	115.5	080.0000	0269.9	166.7	39.4
311.0	083.0000	0066.3	042.1	115.2	080.0000	0269.9	166.6	39.5
312.0	083.0000	0067.8	042.4	114.9	080.0000	0269.9	166.4	39.5
313.0	083.0000	0070.7	043.1	114.6	080.0000	0269.9	166.0	39.6
314.0	083.0000	0071.5	043.3	114.4	080.0000	0270.7	166.0	39.6
315.0	083.0000	0071.8	043.4	114.1	080.0000	0270.7	166.2	39.5
316.0	083.0000	0072.0	043.4	113.9	080.0000	0270.7	166.4	39.5
317.0	083.0000	0072.3	043.5	113.6	080.0000	0270.7	166.6	39.5
318.0	083.0000	0072.5	043.5	113.4	080.0000	0272.0	166.9	39.4

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
319.0	083.0000	0072.6	043.5	113.1	080.0000	0272.0	167.2	39.4
320.0	083.0000	0072.6	043.5	112.9	080.0000	0272.0	167.5	39.3
321.0	083.0000	0072.9	043.6	112.6	080.0000	0272.0	167.8	39.3



KNBJ vs KQMN
K Michler - 02/01

KNBJ 217C1 80KW 680.3M AMSL
KQMN 218C1 84KW 474M AMSL

Scale in km
10 20 30 40 50 60 70

Doug Vernier Telecom Consultants
02-01-2001 03 Sec. Terrain Data

KNBJ
Channel = 217C1
Max ERP = 80 kW
RCAMSL = 680.3 M
N. Lat = 474129
W. Lng = 943106

KQMN BLED19901205KF
Channel = 218C1
Max ERP = 84 kW
RCAMSL = 474 M
N. Lat = 47 58 38
W. Lng = 96 36 32

Protected
60 dBu

Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
265.0	080.0000	0250.2	066.1	112.1	084.0000	0179.9	098.2	51.5
266.0	080.0000	0249.8	066.0	111.5	084.0000	0179.7	097.7	51.6
267.0	080.0000	0248.9	066.0	110.8	084.0000	0179.7	097.3	51.7
268.0	080.0000	0247.8	065.9	110.2	084.0000	0179.5	096.9	51.8
269.0	080.0000	0247.1	065.8	109.6	084.0000	0179.5	096.5	51.9
270.0	080.0000	0246.8	065.8	108.9	084.0000	0179.4	096.1	52.0
271.0	080.0000	0247.3	065.8	108.3	084.0000	0179.2	095.7	52.2
272.0	080.0000	0248.2	065.9	107.6	084.0000	0179.2	095.3	52.3
273.0	080.0000	0248.8	066.0	107.0	084.0000	0179.0	094.9	52.4
274.0	080.0000	0249.3	066.0	106.3	084.0000	0178.8	094.6	52.5
275.0	080.0000	0249.8	066.0	105.6	084.0000	0178.8	094.3	52.5
276.0	080.0000	0250.3	066.1	104.9	084.0000	0178.7	094.1	52.6
277.0	080.0000	0250.8	066.1	104.2	084.0000	0178.5	093.8	52.7
278.0	080.0000	0251.2	066.2	103.5	084.0000	0178.5	093.6	52.7
279.0	080.0000	0251.6	066.2	102.8	084.0000	0178.4	093.5	52.8
280.0	080.0000	0251.9	066.2	102.1	084.0000	0178.3	093.4	52.8
281.0	080.0000	0252.2	066.2	101.4	084.0000	0178.1	093.3	52.8
282.0	080.0000	0252.6	066.3	100.7	084.0000	0178.1	093.3	52.8
283.0	080.0000	0253.0	066.3	100.0	084.0000	0178.0	093.3	52.8
284.0	080.0000	0253.7	066.4	099.3	084.0000	0178.0	093.2	52.8
285.0	080.0000	0254.5	066.4	098.6	084.0000	0178.0	093.3	52.8
286.0	080.0000	0255.8	066.5	097.9	084.0000	0178.0	093.3	52.8
287.0	080.0000	0257.5	066.7	097.1	084.0000	0177.9	093.3	52.8
288.0	080.0000	0259.1	066.8	096.4	084.0000	0177.8	093.4	52.8
289.0	080.0000	0260.3	066.9	095.7	084.0000	0177.8	093.5	52.7
290.0	080.0000	0261.5	067.0	095.0	084.0000	0177.7	093.7	52.7
291.0	080.0000	0262.8	067.1	094.3	084.0000	0177.5	093.9	52.6
292.0	080.0000	0264.0	067.2	093.6	084.0000	0177.5	094.1	52.6
293.0	080.0000	0265.1	067.3	092.9	084.0000	0177.4	094.4	52.5
294.0	080.0000	0266.2	067.4	092.2	084.0000	0177.3	094.7	52.4
295.0	080.0000	0268.0	067.5	091.5	084.0000	0177.2	095.0	52.3
296.0	080.0000	0269.7	067.7	090.8	084.0000	0177.2	095.3	52.2
297.0	080.0000	0270.3	067.7	090.1	084.0000	0177.1	095.8	52.1
298.0	080.0000	0270.8	067.8	089.5	084.0000	0177.1	096.3	51.9
299.0	080.0000	0271.1	067.8	088.9	084.0000	0177.1	096.8	51.8
300.0	080.0000	0271.1	067.8	088.3	084.0000	0177.0	097.4	51.6

Doug Vernier Telecom Consultants
02-01-2001 03 Sec. Terrain Data

KQMN BLED19901205KF
Channel = 218C1
Max ERP = 84 kW
RCAMSL = 474 M
N. Lat = 47 58 38
W. Lng = 96 36 32

KNBJ
Channel = 217C1
Max ERP = 80 kW
RCAMSL = 680.3 M
N. Lat = 474129
W. Lng = 943106

Protected
60 dBu

Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
084.0	084.0000	0176.1	059.9	292.0	080.0000	0264.0	104.1	52.3
085.0	084.0000	0176.3	059.9	291.5	080.0000	0262.8	103.6	52.4
086.0	084.0000	0176.5	060.0	290.9	080.0000	0262.8	103.1	52.5
087.0	084.0000	0176.8	060.0	290.4	080.0000	0261.5	102.7	52.6
088.0	084.0000	0177.0	060.0	289.9	080.0000	0261.5	102.3	52.7
089.0	084.0000	0177.1	060.0	289.3	080.0000	0260.3	101.9	52.8
090.0	084.0000	0177.1	060.0	288.8	080.0000	0260.3	101.6	52.9
091.0	084.0000	0177.2	060.0	288.2	080.0000	0259.1	101.3	53.0
092.0	084.0000	0177.3	060.0	287.6	080.0000	0259.1	101.0	53.0
093.0	084.0000	0177.4	060.0	287.0	080.0000	0257.5	100.7	53.1
094.0	084.0000	0177.5	060.1	286.5	080.0000	0255.8	100.5	53.1
095.0	084.0000	0177.7	060.1	285.9	080.0000	0255.8	100.3	53.2
096.0	084.0000	0177.8	060.1	285.3	080.0000	0254.5	100.1	53.2
097.0	084.0000	0177.9	060.1	284.7	080.0000	0254.5	100.0	53.2
098.0	084.0000	0178.0	060.1	284.1	080.0000	0253.7	099.9	53.2
099.0	084.0000	0178.0	060.1	283.5	080.0000	0253.0	099.8	53.2
100.0	084.0000	0178.0	060.1	282.9	080.0000	0253.0	099.8	53.2
101.0	084.0000	0178.1	060.1	282.3	080.0000	0252.6	099.7	53.2
102.0	084.0000	0178.3	060.1	281.7	080.0000	0252.6	099.7	53.2
103.0	084.0000	0178.4	060.1	281.1	080.0000	0252.2	099.8	53.2
104.0	084.0000	0178.5	060.1	280.5	080.0000	0251.9	099.8	53.2
105.0	084.0000	0178.7	060.2	279.8	080.0000	0251.9	099.9	53.2
106.0	084.0000	0178.8	060.2	279.2	080.0000	0251.6	100.1	53.1
107.0	084.0000	0179.0	060.2	278.7	080.0000	0251.6	100.2	53.1
108.0	084.0000	0179.2	060.2	278.1	080.0000	0251.2	100.4	53.0
109.0	084.0000	0179.4	060.2	277.5	080.0000	0250.8	100.6	52.9
110.0	084.0000	0179.5	060.2	276.9	080.0000	0250.8	100.8	52.9
111.0	084.0000	0179.7	060.3	276.3	080.0000	0250.3	101.1	52.8
112.0	084.0000	0179.9	060.3	275.7	080.0000	0250.3	101.3	52.7
113.0	084.0000	0180.0	060.3	275.2	080.0000	0249.8	101.7	52.6
114.0	084.0000	0180.2	060.3	274.6	080.0000	0249.8	102.0	52.5
115.0	084.0000	0180.3	060.3	274.0	080.0000	0249.3	102.4	52.3
116.0	084.0000	0180.3	060.3	273.5	080.0000	0248.8	102.8	52.2
117.0	084.0000	0180.4	060.3	273.0	080.0000	0248.8	103.2	52.1
118.0	084.0000	0180.6	060.3	272.4	080.0000	0248.2	103.7	51.9

EXHIBIT # E9

R.F. RADIATION COMPLIANCE STATEMENT

KNBJ
Channel 217 – 80 kW H & V
Bemidji, Minnesota

February 2001

The applicant's proposed power is 80 kW, however another application is being filed to use the same antenna in duplex that will raise the total ERP to 180 kW. The proposed antenna will have a center of radiation of 254 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 189.4 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 18.94 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.