

# FCC 340

# RECEIVED

## APPLICATION FOR CONSTRUCTION PERMIT FOR NONCOMMERCIAL EDUCATIONAL BROADCAST STATION

DEC 8 - 1998

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

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

### Section I - GENERAL INFORMATION

FOR COMMISSION USE ONLY  
FILE NO. *BPED-581208MH*

1. Name of Applicant			
Minnesota Public Radio			
Street Address or P.O. Box 45 East Seventh Street			
City	State	ZIP Code	
Saint Paul	MN	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			
Street Address or P.O. Box			
45 East Seventh Street			
City	State	ZIP Code	
Saint Paul	MN	55101	
Telephone Number (include Area Code) 651.290.1259			

2. This application is for:

AM       FM       TV

(a) Channel No. or Frequency
209

(b) Principal Community	City	State
	Fergus Falls	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: \_\_\_\_\_
- 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 II - LEGAL QUALIFICATIONS**

Name of Applicant

Minnesota Public Radio

1. Applicant is: (check one box below)

- (a) governmental or public educational agency, board or institution
- (b) private nonprofit educational institution
- (c) nonprofit educational corporation
- (d) other (specify)

2. For applicants 1(c) or (d), describe in an Exhibit the nature and educational purposes of the applicant.

Exhibit No.  
1

3. For applicants 1(c) or 1(d) applying for a new noncommercial educational television station only, describe in an Exhibit how the applicant's officers, directors and members of its governing board are broadly representative of the educational, cultural and civic segments of the principal community to be served.

Exhibit No.  
N/A

4. Describe in an Exhibit how the proposed station will be used, in accordance with 47 C.F.R. Section 73.503 or Section 73.621, for the advancement of an educational program.

Exhibit No.  
1

5. Is there any provision contained in any by-laws, articles of incorporation, partnership agreement, charter, statute or other document which would restrict the applicant in advancing an educational program or complying with any Commission rule, policy or provision of the Communications Act of 1934, as amended?

Yes  No

If Yes, provide particulars in an Exhibit.

Exhibit No.  
N/A

**CITIZENSHIP AND OTHER STATUTORY REQUIREMENTS**

6. (a) Is the applicant in violation of the provisions of Section 310 of the Communications Act of 1934, as amended, relating to interests of aliens and foreign governments? (See Instruction B to Section II.)

Yes  No

(b) Will any funds, credits 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?

Yes  No

If the answer to (b) above is Yes, attach an Exhibit giving full disclosure concerning this assistance.

Exhibit No.  
N/A

7. Has an adverse finding been made or an adverse final action been taken by any court or administrative body as to the applicant, any party to this application, or any non-party equity owner in the applicant, 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?

Yes  No

If the answer is Yes, attach as an Exhibit a full disclosure concerning the persons and matters involved, including an identification of the court or administrative body and the proceeding (by dates and file numbers), and a description of the disposition of the matter. Where the requisite information has been earlier disclosed in connection with another application or as required by 47 C.F.R. Section 1.65, 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 (ii) the disposition of the previously reported matter.

Exhibit No.  
N/A

**PARTIES TO THE APPLICATION**

3. Complete the following Table with respect to all parties to this application.

(NOTE: If the applicant considers that to furnish complete information would pose an unreasonable burden, it may request that the Commission waive the strict terms of this requirement with appropriate justification.

**INSTRUCTIONS:** If applicant is a corporation or an unincorporated association with 50 or fewer stockholders, stock subscribers, holders of membership certificates or other ownership interests, fill out all columns, giving the information requested as to all officers, directors and members of governing board. In addition, give the information as to all persons or entities who are the beneficial or record owners of or have the right to vote capital stock, membership ownership interests or are subscribers to such interest. If the applicant has more than 50 stockholders, stock subscribers or holders of membership certificates or other ownership interests, furnish the information as to officers, directors, members of governing board, and all persons or entities who are the beneficial or record owners of or have the right to vote 1% or more of the capital stock, membership or ownership interests. If applicant is a governmental or public educational agency, board or institution, fill out columns (a), (b), and (c) as to all members of the governing board and chief executive officers.

Name and Residence Address(es)  (a)	Office Held  (b)	Director or Member of Governing Board		% of: Ownership (O) or Voting Stock (VS) or Membership (M)  (d)
		Yes	No	
		(c)		
SEE EXHIBIT 2				

**Section II - LEGAL QUALIFICATIONS (Page 4)**

Does the applicant, or any party to the application, have a petition to migrate to the expanded band (1605-1705 (kHz)) or a permit or license either in the existing band or expanded band that is held in combination with the AM facility proposed to be modified herein?

Yes  No

If Yes, provide particulars as an Exhibit.

Exhibit No.  
N/A

10. Does the applicant or any party to the application have, or have they had, any interest in:

(a) a broadcast station, or pending broadcast station application before the Commission?

Yes  No

(b) a broadcast application which has been dismissed with prejudice by the Commission?

Yes  No

(c) a broadcast application which has been denied by the Commission?

Yes  No

(d) a broadcast station, the license of which has been revoked?

Yes  No

(e) a broadcast application in any pending or concluded Commission proceeding which left unresolved character issues against the applicant?

Yes  No

If the answer to any of the questions in (a)-(e) above is Yes, state in an Exhibit the following information:

Exhibit No.  
3

(1) Name of party having interest;

(2) Nature of interest or connection, giving dates;

(3) Call letters of stations or file number of application or docket; and

(4) Location.

### SECTION III - FINANCIAL QUALIFICATIONS

NOTE: If this application is for a change in an operating facility DO NOT fill out this Section.

1. Is this application contingent upon receipt of a grant from the National Telecommunications and Information Administration?  Yes  No
2. Is this application contingent upon receipt of a grant from a charitable organization, the approval of the budget of a school or university, or an appropriation from a state, county, municipality or other political subdivision?  Yes  No

NOTE: If either Questions 1 or 2 is answered "Yes," your application cannot be granted until all of the necessary funds are committed or appropriated. In the case of grants from the National Telecommunications and Information Administration, no further action on your part is required. If you rely on funds from a source specified in Question 2, you must advise the F.C.C. when the funds are committed or appropriated. This should be accomplished by letter amendment to your application, in triplicate, signed in the same manner as the original application, and clearly identifying the application to be amended.

3. The applicant certifies that sufficient net liquid assets are on hand or that sufficient funds are available from committed sources to construct and operate the requested facilities for three months without revenue.  Yes  No

### SECTION IV - PROGRAM SERVICE STATEMENT

Attach as an Exhibit, a brief description, in narrative form, of the planned programming service relating to the issues of public concern facing the proposed service area.

Exhibit No.  
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NOTE: No program service statement need be filed where the proposed station's programming would be wholly "instructional" as that type of programming is defined in the instructions to this Section.

**FCC Form 340  
Application for a Construction Permit for  
a Noncommercial Educational FM Station  
in Fergus Falls, Minnesota**

**Minnesota Public Radio**

**EXHIBIT 1, Page 1  
Refers to Section II, Item 2**

**PURPOSE AND OBJECTIVES**

This application is being submitted for authority to construct a noncommercial educational FM station to be located in Fergus Falls, Minnesota. Minnesota Public Radio is a not-for-profit, Section 501(c)(3) organization.

The proposed station would broadcast a full schedule of classical music programming able to serve the special interests and concerns of the Fergus Falls community. The purpose of this station would be to provide both an alternative and a complement to existing radio services. The station would provide classical music and cultural and educational programming of importance and interest to residents in the Fergus Falls area not currently available on other area stations.

Area residents would benefit from Minnesota Public Radio's ability to produce, acquire and deliver classical music programming that would be far beyond the capability or means of any single, independent station.

On a daily basis, the proposed station would present, on a noncommercial basis, classical music, cultural and educational broadcasts, along with some newscasts.

Given Minnesota Public Radio's regional staff of more than 30 full-time classical music staff and more than 40,000 CDs and records in our music library, and the finest network production facilities available, the proposed station would have the ability to broadcast programs unmatched by any other broadcast organization in the region.

In addition to its routine broadcast services, recent examples of the kinds of broadcast services that this station would provide include the following:

- production and broadcast of a three part series entitled "Beyond Joplin" in respect of Black History Month

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- production and broadcast of a program entitled "Hildegard of Bingen: A Mystic's Music" in respect of Women's History Month
- production and broadcast of a collaborative effort with the Minnesota Orchestra entitled "At Home with the Minnesota Orchestra", broadcast live from an extended-care facility to over 200 extended-care facilities in Minnesota, as well as on MPR's classical music service stations
- broadcasts of the Concordia College (Moorhead, MN) Christmas Festival
- live broadcast of "The Festival of Nine Lessons and Carols" concert produced by the BBC from King's College in Cambridge, England

All of these programs have been available on the Minnesota Public Radio regional network classical music stations, and similar programs would be broadcast on the proposed new Minnesota Public Radio FM station located in Fergus Falls.

In addition, the proposed station would enjoy Minnesota Public Radio's access to the resources of National Public Radio, the British Broadcasting Corporation, and the Canadian Broadcasting Service and numerous other independent producers.

Minnesota Public Radio enjoys a close relationship with many educational institutions in the region. Eight of these institutions are Institutional Sponsors of Minnesota Public Radio and provide financial support for Minnesota Public Radio. Each institution appoints a member to the Council of Institutional Sponsors, which serves as a standing committee to Minnesota Public Radio's Board of Trustees. These educational institutions are:

St. John's University, Collegeville/St. Cloud, MN  
Concordia College, Moorhead, MN  
Luther College, Decorah, Iowa  
The College of St. Scholastica, Duluth, MN

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College of Saint Benedict, St. Joseph, MN  
Michigan Technological University, Houghton, Michigan  
Gustavus Adolphus College, St. Peter, MN  
Bethany Lutheran College, St. Peter, MN

The participation of these institutions on the Minnesota Public Radio Council of Institutional Sponsors helps to assure that the educational needs of the residents served by Minnesota Public Radio's stations, including the proposed station, are met, both directly and as part of Minnesota Public Radio's cultural programming broadcast.

Whether it is regional or national programming, the programming on the proposed station would follow Minnesota Public Radio's award-winning tradition. In its almost 32-year history Minnesota Public Radio has repeatedly received virtually every award given to acknowledge outstanding radio broadcasting. For example, in 1995 Minnesota Public Radio won a George Foster Peabody Broadcasting Award for its classical music series *Saint Paul Sundayâ*, which is produced by Minnesota Public Radio, is broadcast on all of Minnesota Public Radio's classical music service stations, and is distributed nationally to public radio stations around the country by Public Radio International.

In the past two years alone, Minnesota Public Radio received over 50 national and regional awards for its programming. Minnesota Public Radio staff earned five American Women in Radio and Television awards, four Unity awards and a National Society of Professional Journalists award. In addition, Minnesota Public Radio won 16 awards from both the Northwest Broadcasters News Association in Radio/TV Awards and the Minnesota Associated Press Achievement Awards.

The continuous expansion of the network's "Award Wall" - now holding more than 150 such kudos - is a tribute to Minnesota Public Radio's excellence in community service, creativity, and broadcasting leadership, and a good



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indication of the kind of quality that would be provided by the proposed station.

Prepared by Mitzi T Gramling

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Application for Authority to Construct a  
Noncommercial Educational FM Station  
for Fergus Falls, MN**

**Minnesota Public Radio**

**EXHIBIT 2**

**Refers to Section II, Item 8**

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Attached please find a list of the names and addresses of the members of the Board of Trustees of Minnesota Public Radio and of Minnesota Communications Group.

The offices held are indicated.

All Trustees and Officers are citizens of the United States.

The principal profession or occupation of each, if any, is as indicated.

All members are elected by the full Board, except the following:

Board Members of Minnesota Public Radio's parent organization, Minnesota Communications Group, are also Board Members of Minnesota Public Radio.

Prepared by  
Mitzi T Gramling

MINNESOTA PUBLIC RADIO  
BOARD OF TRUSTEES

November 13, 1998

OFFICERS OF THE BOARD

Steven Rothschild, Chair

Richard Schoenke, Vice Chair

William H Kling, President

Barry Lindquist, Treasurer

Nedra Wicks, Secretary

TRUSTEES

Jeffrey S Brown (1997)  
Director  
McKinsey & Company, Inc  
3550 IDS Center  
Minneapolis, MN 55402  
(612) 371-3115

Morris L Goodwin (1994)  
Vice President and Treasurer  
Deluxe Corporation  
3680 N Victoria Street  
Shoreview, MN 55126  
(651) 483-7122

Peggy P Burnet (1998)  
392 South Ferndale Road  
Wayzata, MN 55391  
(612) 473-2961

B Kristine Johnson (1998)  
Sr. Vice President & President Vascular  
Medtronic Inc.  
7000 Central Avenue NE  
Minneapolis MN 55432  
(612/514-4414)

René Copeland (1993)  
7817 Bush Lake Drive  
Bloomington, MN 55438  
(612) 944-7823

Ronald B Johnson (1997)  
Vice President/General Merchandise  
Manager for Home Decor  
Target  
33 South Sixth Street  
Minneapolis, MN 55402  
(612) 304-5991

Dr Paul J Dovre (1996)  
President  
Concordia College  
Moorhead, MN 56560  
(218) 299-3000

William H Kling (1973)  
President & CEO  
Minnesota Public Radio  
45 East Seventh Street  
Saint Paul, MN 55101  
(651) 290-1555

Sara H Gavin (1998)  
Managing Director  
Shandwick International  
8400 Normandale Lake Blvd.  
Suite 500  
Minneapolis, MN 55437  
(612) 841-6174

**MINNESOTA PUBLIC RADIO**

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**Clinton Lee (1990)**  
President  
Weeres Industries  
PO Box 98  
Saint Cloud, MN 56302  
(320) 251-3551

**Joseph Leek (1992)**  
1618 Vermilion Road  
Duluth, MN 55812  
(218) 720-1202

**Bruce A Lilly (1993)**  
Director  
MN Museum of American Art  
Landmark Center  
75 West Fifth Street #202  
Saint Paul, MN 55102  
(651) 292-4390

**Barry Lindquist (1986)**  
Senior Vice President  
Churchill Capital Inc  
2400 Metropolitan Centre  
333 South Seventh Street  
Minneapolis, MN 55402  
(612) 673-6634

**Richard (Rick) L. Marcantonio (1998)**  
Senior Vice President, Industrial  
Ecolab Inc.  
Ecolab Center  
St. Paul, MN 55102  
(651) 293-2252

**Thomas R McBurney (1982)**  
McBurney Management Advisors  
1710 International Centre  
900 2nd Avenue South  
Minneapolis, MN 55402  
(612) 336-9678

**Walter F Mondale (1997)**  
Partner, Dorsey & Whitney  
Pillsbury Center South  
220 South Sixth Street  
Minneapolis, MN 55402  
(612) 340-6307

**William Pearce (1988)**  
IDS Mutual Fund Group  
901 Marquette Avenue South  
Suite 2810  
Minneapolis, MN 55402  
(612) 330-9287

**Lawrence Perlman (1998)**  
Chairman & Chief Executive Officer  
Ceridian Corporation  
8100 34th Avenue South  
Minneapolis, MN 55425-1640  
(612) 853-8100

**Ann Pflaum (1993)**  
Associate Dean/Continuing Education &  
Extension  
University of Minnesota  
150 Westbrook Hall, 77 Pleasant St. SE  
Minneapolis, MN 55455  
(612) 626-1788

**John A Rollwagen (1985-93) (1993)**  
Venture Partner  
St Paul Venture Capital, Suite 1940  
8500 Normandale Lake Blvd  
Bloomington, MN 55437  
(612) 830-7472

**Steven M Rothschild (1987)**  
Twin Cities RISE!  
112 North Third Street  
Minneapolis, MN 55401  
(612) 338-0295

## MINNESOTA PUBLIC RADIO

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Jeffrey Rotsch (1993)  
Senior Vice President  
Sales and Distribution  
General Mills  
One General Mills Blvd  
Minneapolis, MN 55426  
(612) 540-3522

Richard W Schoenke (1996)  
President & CEO  
Firststar Bank of MN  
Firststar Center  
101 E Fifth Street 14th Floor  
Saint Paul, MN 55101  
(651) 292-3955

David R Strand (1997)  
President  
Allina Medica Health Plans  
5601 Smetana Drive  
PO Box 9310  
Minneapolis, MN 55440  
(612) 992-3950

Ellen Sturgis (1996)  
1819 Mount Curve Avenue  
Minneapolis, MN 55403  
(612) 377-0909

Gretchen Taylor (1991)  
55 North Hills Drive  
Mankato, MN 56001  
(507) 625-1210

Patrick A Thiele (1997)  
3 Edgumbe Place  
St. Paul, MN 55116  
(651) 690-4040

Nedra Wicks (1993)  
5600 Stenbrae Court  
Rochester, MN 55902  
(507) 282-9073

### LIFE TRUSTEES

Robert J Sivertsen (1968)  
6767 Cottonwood Road  
Cushing, MN 56443  
(612) 228-9909

or 29 Summit Court  
St. Paul, MN 55102  
(651) 228-9909

Joanne Von Blon (1975-83) (1986)  
1201 Yale Place, #2006  
Minneapolis, MN 55403  
(612) 370-0322

### HONORARY LIFE MEMBERS

Selected in appreciation of substantial services provided to Minnesota Public Radio over a long period of time. This honorary designation carries no rights, privileges or duties.

Earl Ewald (1972-1977)  
7108 Cedarwood Circle  
Boulder, CO 80301

DATE: Denotes beginning of current term or current consecutive terms.

## MINNESOTA PUBLIC RADIO

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### OTHER OFFICERS

The following persons are not members of the Board of Trustees of Minnesota Public Radio, but they are staff officers of the organization, appointed by the President under authority of the Board of Trustees:

**Thomas J Kigin**  
Executive Vice President &  
Chief Administrative Officer  
Minnesota Public Radio  
45 East Seventh Street  
Saint Paul, MN 55101

**Deborah Chernick**  
Vice President &  
Chief Financial Officer  
Minnesota Public Radio  
445 Minnesota Street, Suite 500  
Saint Paul, MN 55101

**Donald Creighton**  
Vice President & Principal Executive  
Officer, Technology  
Minnesota Public Radio  
45 East Seventh Street  
Saint Paul, MN 55101

**William Haddeland**  
Vice President & Principal Executive  
Officer, Public Affairs  
Minnesota Public Radio  
45 East Seventh Street  
Saint Paul, MN 55101

**Dennis Hamilton**  
Vice President & Principal Executive  
Officer, Broadcasting  
Minnesota Public Radio  
45 East Seventh Street  
Saint Paul, MN 55101

**Anne Hovland**  
Vice President & Principal Executive  
Officer, Development  
Minnesota Public Radio  
45 East Seventh Street  
Saint Paul, MN 55101

**Jon McTaggart**  
Vice President & Principal Executive  
Officer, New Media  
Minnesota Public Radio  
444 Cedar Street, Suite 1111  
Saint Paul, MN 55101

**William Buzenberg**  
Vice President, News  
Minnesota Public Radio  
45 East Seventh Street  
Saint Paul, MN 55101

**Craig Curtis**  
Vice President, Programming  
Minnesota Public Radio  
45 East Seventh Street  
Saint Paul, MN 55101

**Julie Heupel**  
Vice President, Marketing  
Minnesota Public Radio  
45 East Seventh Street  
Saint Paul, MN 55101

All of the Trustees and Officers are US citizens. Trustees of Minnesota Communications Group, who are appointed by the Board of Minnesota Communications Group, are on the Minnesota Public Radio Board by virtue of their role as Trustees of Minnesota Communications Group. All other Minnesota Public Radio Trustees are elected by the Minnesota Public Radio Board and are approved by the Minnesota Communications Group Board.

Jeffrey Brown is also an Australian citizen.

**MINNESOTA COMMUNICATIONS GROUP  
BOARD OF TRUSTEES**

November 13, 1998

**Officers of the Board**

**Thomas R McBurney -- Chairman  
David Strand -- Vice Chairman  
William Pearce -- Secretary  
Barry Lindquist -- Treasurer**

**TRUSTEES**

**Ronald B Johnson (1998)  
Vice President/General Merchandise  
Manager for Home Decor  
Target  
33 South Sixth Street  
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**Barry Lindquist (1995)  
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2400 Metropolitan Centre  
333 South Seventh Street  
Minneapolis, MN 55402  
(612) 673-6634**

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1710 International Centre  
900 2nd Avenue South  
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901 Marquette Avenue South  
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(612) 330-9287**

**Steven M Rothschild (1996)  
Twin Cities RISE!  
112 North Third Street  
Minneapolis, MN 55401  
(612) 338-0295**

**Richard W Schoenke (1997)  
President & CEO  
Firststar Bank of Minnesota  
Firststar Center  
101 E Fifth Street 14th Floor  
Saint Paul, MN 55101  
(612) 292-3955**

**David R Strand (1997)  
President  
Allina Medica Health Plans  
5601 Smetana Drive  
PO Box 9310  
Minneapolis, MN 55440  
(612) 992-3950**

**OTHER OFFICERS**

**William H. Kling**  
President  
Minnesota Communications Group  
444 Cedar Street, Suite 1900  
Saint Paul, MN 55101  
(651) 290-1555

**Thomas Kigin**  
Executive Vice President  
Minnesota Communications Group  
444 Cedar Street, Suite 1900  
Saint Paul, MN 55101  
(651) 290-1554

**Deborah Chernick**  
Vice President &  
Chief Financial Officer  
Minnesota Communications Group  
444 Cedar Street, Suite 1900  
Saint Paul, MN 55101  
(651) 290-1540

**Jon McTaggart**  
Vice President & Principal Executive Officer  
Business Development  
Minnesota Communications Group  
444 Cedar Street, Suite 1900  
Saint Paul, MN 55101  
(651) 290-1281

**Laura Neudecker**  
Vice President  
Human Resources  
Minnesota Communications Group  
444 Cedar Street, Suite 1900  
Saint Paul, MN 55101  
(651) 290-1542

All Trustees and Officers are US Citizens.



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**new Noncommercial Educational FM Station**  
**in Fergus Falls, MN**

**Minnesota Public Radio**

**Exhibit 3, Page 1**

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Minnesota Public Radio holds licenses and/or construction permits for the following radio stations, all of which are operated on a noncommercial basis:

<u>CALL SIGN</u>		<u>COMMUNITY</u>	
KRSU	FM	Appleton MN	91.3 MHz
KNCM	FM	Appleton MN	88.5 MHz
KCRB	FM	Bemidji MN	88.5 MHz
KNBJ	FM	Bemidji MN	91.3 MHz
KBPR	FM	Brainerd MN	90.7 MHz
WIRN	FM	Buhl, MN	92.5 MHz
WSCN	FM	Cloquet MN	100.5 MHz
KNSR	FM	Collegeville MN	88.9 MHz
KSJR	FM	Collegeville MN	90.1 MHz
KLCD	FM	Decorah IA	89.5 MHz
KLNI	FM	Decorah IA	88.7 MHz
WSCD	FM	Duluth MN	92.9 MHz
WGGL	FM	Houghton MI	91.1 MHz
KXLC	FM	La Crescent MN	91.1 MHz
KSJN	FM	Minneapolis MN	99.5 MHz
KCCD	FM	Moorhead MN	90.3 MHz
KCCM	FM	Moorhead MN	91.1 MHz
KLSE	FM	Rochester MN	91.7 MHz
KZSE	FM	Rochester MN	90.7 MHz
KRSD	FM	Sioux Falls SD	88.1 MHz
KNOW	FM	Minneapolis/St Paul MN	91.1 MHz

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<u>CALL SIGN</u>		<u>COMMUNITY</u>		
KGAC	FM	St Peter MN	90.5	MHz
KNGA	FM	St Peter MN	91.5	MHz
KWRV	FM	Sun Valley ID	91.9	MHz
KNTN	FM	Thief River Falls MN	102.7	MHz
KQMN	FM	Thief River Falls MN	91.5	MHz
WIRR	FM	Virginia/Hibbing MN	90.9	MHz
KNSW	FM	Worthington/Marshall MN	91.7	MHz
KRSW	FM	Worthington MN	89.3	MHz

In addition, MPR owns and operates WMNN(AM) in Minneapolis/Saint Paul at 1330 MHz, which is operated on a commercial basis.

Minnesota Public Radio holds licenses or construction permits for the following noncommercial educational FM translators:

<u>CALL SIGN</u>	<u>COMMUNITY</u>
K280EB	Albert Lea MN
K215BL	Alexandria MN
K280EF	Austin MN
K277AD	Austin MN
K208CR	Ely, MN
W269AC	Ely MN
K209BA	Fergus Falls MN
K281AB	Grand Rapids MN
K297AD	Grand Rapids MN
W224AO	Houghton MI

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<u>CALL SIGN</u>	<u>COMMUNITY</u>
K201CN	International Falls MN
K249BK	International Falls MN
K201BW	La Crescent MN
K289AE	Owatonna MN
K280EC	Owatonna MN
W215AI	Roseau MN
K270AB	Winona MN
K299AB	Winona MN

Minnesota Public Radio has the following Instructional Television Fixed Service (ITFS) licenses or construction permits:

<u>CALL SIGN</u>	<u>COMMUNITY</u>	<u>CHANNEL GROUP</u>
WHR-751	Duluth MN	G1,G2,G3,G4
WHR-765	Fargo ND	C1,C2,C3,C4
WHR-754	Mankato MN	A1,A2,A3,A4
WLX-299	Minneapolis MN	A1,A2,A3,A4
WHR-753	Rochester MN	B1,B2,B3,B4
WHR-752	Sioux Falls MN	B1,B2,B3,B4
WHR-497	St Paul MN	B1,B2,B3,B4
WHR-750	St Cloud MN	B1,B2,B3,B4

Prepared by  
Mitzi Gramling

**FCC Form 340  
Application for a Construction Permit for  
a Noncommercial Educational FM Station  
in Fergus Falls, Minnesota**

**Minnesota Public Radio**

**EXHIBIT 3, Page 4**

**PENDING APPLICATIONS**

WGGL (FM), Houghton, MI (FCC File No. BMLED-961108KA and main studio rule waiver request)

KLSE (FM), Rochester, MN (FCC File No. BLED-980504KG)

Translator Station K299AB, Winona, MN (FCC File No. 971126TN)

ITFS Station WHR-754 Mankato, MN (FCC File Nos. BRIF-970203ET and BMPLIF-980127DA)

ITFS Station WHR-751, Duluth, MN (FCC File No. BRIF-970203EU)

ITFS Station WHR-752, Sioux Falls, MN (FCC File No. BMPLIF- 980623DA)

New Station in Austin, MN (FCC File No. BPED-980603MB)

New Translator Station in Worthington, MN (filed 11/10/98; no FCC File No. assigned yet)

Translator Station K280EC, Owatonna, MN (STA request to remain silent)

Translator Station K289AE, Owatonna, MN (STA request to remain silent)

ITFS Station WHR-753, Rochester, MN (FCC File Nos. BMPLIF-980910DZ and BMPLIF-980825DE)

ITFS Station WHR-497, Saint Paul, MN (FCC File No. BMPLIF-980818DN)

KNSW (FM) & KRSW (FM), Worthington, MN (Main Studio rule waiver requests)

WMNN (AM) - (FCC File No. BL-981112AB)

New station in Brainerd, MN (FCC File No. BPED-981113MC)

New station in Fergus Falls, MN (application filed 11/20/98; FCC file number not assigned yet)

New station in Grand Marais, MN (application filed 12/4/98; FCC file numbers not assigned yet)

An application on FCC Form 340 for a new station in Grand Marais, MN is being filed simultaneously herewith.

**FCC Form 340  
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in Fergus Falls, Minnesota**

**Minnesota Public Radio**

**EXHIBIT 4, Page 1**

**Refers to Section IV**

Attached is a copy of a program schedule which closely resembles the program schedule that would be broadcast by the proposed station. This schedule is for the Minnesota Public Radio Regional Network classical music service—currently broadcast over KRSU (FM) in Appleton, MN, KCRB (FM) in Bemidji, MN, KBPR (FM) in Brainerd, MN, KLCD (FM) in Decorah, IA, WSCD (FM) in Duluth, MN, KSJN (FM) in Minneapolis/Saint Paul, MN, KCCM (FM) in Moorhead/Fargo, MN, KLSE (FM) in Rochester, MN, KSJR (FM) in Collegeville, MN, KGAC (FM) in Saint Peter/Mankato, MN, KRSD (FM) in Sioux Falls, SD, KWRV in Sun Valley, ID, WIRR (FM) in Virginia, MN, KRSW (FM) in Worthington, MN and KQMN (FM) in Thief River Falls, MN — for the month of November, 1998. This schedule appears in the program guide contained in *MINNESOTA MONTHLY* magazine, which is sent to listener members of Minnesota Public Radio, and appears on the Minnesota Public Radio website at [www.mpr.org](http://www.mpr.org).

The schedule contains a stunning array of arts, culture and entertainment programming, representing the best radio being produced in the world—by National Public Radio, by the producers of Public Radio International, by the British Broadcasting Corporation on their World Service, by the Canadian Broadcasting Corporation, by independent producers from all over the US and around the world, and by Minnesota Public Radio's own network staff.

Minnesota Public Radio's staff of music programmers, producers and announcers represents one of the strongest cultural programming groups in broadcasting, works from a huge library of more than 40,000 compact discs, and produces a wide variety of music programs distributed nationally, including broadcasts by the Minnesota Orchestra and St. Paul Chamber Orchestra, holiday and other specials, including the annual live broadcast of the Festival of Lessons and Carols from the Chapel of King's College, Cambridge, and the multiple award-winning series *St. Paul Sunday* and *Pipedreams*. In addition, Minnesota Public Radio produces and distributes *Classical 24*, the nation's only live 24-hour satellite classical music service, which is heard on more than 300 public radio stations, including Minnesota Public Radio's classical music service stations.

**FCC Form 340  
Application for a Construction Permit for  
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in Fergus Falls, Minnesota**

**Minnesota Public Radio**

**EXHIBIT 4, Page 2**

**Refers to Section IV**

**PROGRAMMING POLICIES AND OBJECTIVES**







1. To provide the best possible cultural and arts services suitable for a public educational broadcasting station.
2. To reflect the variety and richness of the region, including its political, economic and cultural life, its ethnic diversity, history and its educational accomplishments, by using a full range of radio techniques.
3. To develop strong identification with the region, through feedback techniques, research, outreach programs, remote broadcasts, etc.
4. To make the most efficient use of available network and syndication material.
5. To provide regular information at set times in network programs as part of the service for the audience.
6. To create a forum of ideas, opinion and talent from across the region and nation.
7. To present established and new artists, performers, musicians and writers and their works.
8. To enhance listeners' understanding of the world.

Prepared by  
Mitzi T Gramling

# Classical Music Schedule )))

KSJN 99.5fm Minneapolis/St. Paul

KRSU 91.3fm Appleton • KCRB 88.5fm Bemidji • KBPR 90.7fm Brainerd • KLCD 89.5fm Decorah, IA • WSCD 92.9fm Duluth/Superior  
 KCCM 91.1fm Fargo/Moorhead • KLSE 91.7fm Rochester/Austin/Winona • KSJR 90.1fm St. Cloud/Collegeville • KGAC 90.5fm St. Peter/Mankato  
 KRSD 88.1fm Sioux Falls, SD • KWRV 91.9fm Sun Valley, ID • QOMN 91.5fm Thief River Falls • WIRR 90.9fm Virginia/Hibbing  
 KRSW 89.3fm Worthington/Marshall

5 AM	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	5 AM	
6 AM	Music Through the Night* with Jeff Esworthy and Brandi Parisi							6 AM	
7 AM			The Morning Show with Dale Connelly and Jim Ed Poole		Classical Music with Brian Newhouse		Classical Music with Brian Newhouse	7 AM	
8 AM					Classical Music with Brian Newhouse		Saint Paul Sunday* with Bill McLaughlin	8 AM	
9 AM								9 AM	
10 AM					Classical Music with Lynne Warfel-Holt		Classical Music	10 AM	
11 AM								11 AM	
NOON								NOON	
1 PM			Classical Music with Julie Amacher		Classical Music with Arthur Hoehn		Saint Paul Chamber Orchestra	1 PM	
2 PM								2 PM	
3 PM								3 PM	
4 PM					Schickale Mix		Classical Music with John Zoch	4 PM	
5 PM					Classical Music with John Birge			5 PM	
6 PM								6 PM	
7 PM								7 PM	
8 PM			Evening Classics (featuring the "Classic on Jow") with Louise Yehle and Arthur Hoehn		Minnesota Orchestra		THE JAZZ IMAGE™ with Leigh Kamman	The Opera with Silvester Vici	8 PM
9 PM								9 PM	
10 PM			Classical Music with Bob Christiansen		Classical Music		Classical Music with Louise Yehle	Pipedreams* with Michael Barone	10 PM
11 PM								11 PM	
12 AM							Music from the Hearts of Space	12 AM	
1 AM			Music Through the Night* Weeknights with Jeff Esworthy Weekends with Brandi Parisi					1 AM	
2 AM								2 AM	
3 AM								3 AM	
4 AM								4 AM	
5 AM								5 AM	

Schedule subject to change. Local station schedules may vary.

**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)

TBA

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 checked="" type="checkbox"/> Construct a new (main) facility   | <input type="checkbox"/> Construct a new auxiliary backup facility                         |
| <input type="checkbox"/> See Ex #E1, Engineering Statement<br>Modify existing construction permit for main facility | <input type="checkbox"/> Modify existing construction permit for auxiliary backup facility |
| <input type="checkbox"/> Modify licensed main facility  | <input type="checkbox"/> Modify licensed auxiliary backup facility                         |

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

- |   |  |
|---|--|
| <input type="checkbox"/> Antenna supporting structure height                      | <input type="checkbox"/> Effective radiated power  |
| <input type="checkbox"/> Antenna height above average terrain                     | <input type="checkbox"/> Frequency                 |
| <input 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) \_\_\_\_\_

**1. Allocation:**

Channel No.	Principal community to be served:		
	County	City or Town	State
209	Otter Tail	Fergus Falls	MN

- Class (check only one box below)**
- A  B1  B  C3  
 C2  C1  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.

2 miles N of Fergus Falls, MN. Approx intersection I-94 and US Hwy 59.

(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	46 °	19 ' .	16 "	Longitude	96 °	05 ' .	36 "
----------	------	--------	------	-----------	------	--------	------



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.

1024698

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.

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.

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. MPR Channel 218 application to be filed.

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 \_\_\_\_\_ Office where filed \_\_\_\_\_

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>Fergus Falls Municipal</u>	<u>6.3</u>	<u>229.9</u>
(b)	_____	_____	_____

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

- (1) Of the site above mean sea level; \_\_\_\_\_ 384 \_\_\_\_\_ meters
- (2) Of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and \_\_\_\_\_ 107 \_\_\_\_\_ meters
- (3) Of the top of supporting structure above mean sea level [(a)(1) + (a)(2)]. \_\_\_\_\_ 491 \_\_\_\_\_ meters

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

- (1) Above ground; \_\_\_\_\_ 61 \_\_\_\_\_ meters (H)
- \_\_\_\_\_ 61 \_\_\_\_\_ meters (V)
- (2) Above mean sea level [(a)(1) + (b)(1)]; and \_\_\_\_\_ 445 \_\_\_\_\_ meters (H)
- \_\_\_\_\_ 445 \_\_\_\_\_ meters (V)
- (3) Above average terrain. \_\_\_\_\_ 69 \_\_\_\_\_ meters (H)
- \_\_\_\_\_ 69 \_\_\_\_\_ 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 \_\_\_\_\_ 2.7 \_\_\_\_\_ kw (H\*) \_\_\_\_\_ 2.7 \_\_\_\_\_ 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.  
E3

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.  
E4

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.  
E5

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.  
E6

- (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 1,119 sq. km. Population 19,221

21. Attach as an Exhibit a map (*Sectional Aeronautical charts where obtainable*) showing the present and proposed 1 mV/m (60 dbu) contours.

Enter the following from Exhibit above:

Gain Area N/A sq. km.  
Loss Area \_\_\_\_\_ sq. km.  
Present Area \_\_\_\_\_ sq. km.

Percent change (gain area plus loss area as divided by present area times 100%) 100% New station

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.)

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 V-Soft ROM
- Other (summarize)

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 #4	*	*
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

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. \*See E7

Exhibit No.  
N/A

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

(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:

Exhibit No.  
N/A

- (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.  
E8

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.

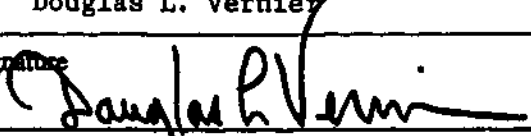
(b) If No, explain briefly why not.

Existing authorized tower.

(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 #E9 for RF Hazard 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 Dr., Cedar Falls, IA 50613
Date November 16, 1998	Telephone No. (include Area Code) 319 266-8402

**FCC Form 340**  
**Application for Authority to Construct a**  
**Noncommercial Educational FM Station**  
**for Fergus Falls, MN**

**Minnesota Public Radio**

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**CERTIFICATION OF SITE AVAILABILITY**

The applicant certified that it has reasonable assurance in good faith that the site of structure proposed in Section V-B, Item 2, FCC Form 340, as the location of its transmitting antenna, will be available to the applicant's intended purpose. Applicant will be leasing the site.

Yes X No         

Thomas J Kigin  
Applicant's Signature

98.12.01  
Date



**EXHIBIT #E1**  
**ENGINEERING STATEMENT**

Concerning the Application of  
Minnesota Public Radio  
To Construct a New Non-Commercial Educational Radio Station  
To Serve Fergus Falls, Minnesota

November 1998

**Channel 209 A**

**2.7 kW H & V**

This engineering statement supports the application filed by Minnesota Public Radio to build a new non-commercial educational FM radio station to serve Fergus Falls, Minnesota and the surrounding area.

Under this proposal, a type approved, FM transmitter generates an output power of 1.548 kilowatts. The power is fed through a T-combiner assembly having an approximate efficiency of 97.2 percent. The Andrew HJ7-50A, 50-ohm air Heliac transmission line, has an efficiency for its 73.15 meter length of 89.7 percent. Therefore, the proposed 4-bay, circularly polarized antenna has at its input 1.35 kilowatts of power. The proposed antenna has a maximum power gain of 2.0 resulting in a maximum effective radiated power of 2.7 kW.

**Tower Vertical Sketch:**

Exhibit #E2 is a vertical sketch of the existing authorized tower showing the authorized 106.7 meter tower and the proposed side mounted 4-bay circularly polarized antenna.

**Studio Exhibit:**

Exhibit #E3 is a studio exhibit which requests waiver of the main studio rule, (Sec 73.1125.)

**Inter-modulation and blanketing:**

Exhibit #E4 is an exhibit describing the possible effects of inter-modulation and blanketing.

**Site Map:**

Exhibit #E5 is full scale section of a 1:24,000 scale U.S. Geological Survey topographic quadrangle map (Fergus Falls Quadrangle) showing the exact transmitter location. Page # 2 of this exhibit is a photo-reduction of the corner of the map bearing coordinate identification.

**Coverage Map**

Exhibit #E6 is a map of the proposed 1 mV/m (60 dBu) signal contour. Fergus Falls, 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 amount 1,199 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  $\pi$  to determine the area within the contour: The population within the 60 dBu service contour was determined to be 19,221 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 .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 #4 of this exhibit.)

**Allocation Study:**

Exhibit #E7, is a single channel, contour to contour, allocation study showing that interference is neither caused nor received by an FM radio station or construction permit. Page # 2 of this exhibit is a narrative explaining the procedures and conventions used in the study. Page # 3-9 are allocation study maps and FMOVER tabulations showing the relationship between the applicant's proposal and critical stations CP208, Alexandria, KUMM, Morris and KCCD Moorhead. There are no I.F. relationships. The proposal is within 320 kilometers of the U.S. border with Canada.

**Channel-Six Television Protection:**

Exhibit #E8 is a map of the 47 dBu, Grade B, protected signal contours of WDAYTV, Fargo, North Dakota. The map also contains a plot of the proposed facility's, worst case, section 73.599, Figure #1, 73.3 dBu F(50-10) interference signal contour (6 dB receiving antenna directivity credit used) using the mixed polarization study power of 2.7676 kW (2.7 + 40/2.7). Page #2 of this exhibit is a close-up of the interference area with an overlay of the population centroids from the 1990 US Census group block data. It can be observed that there are only three centroids located within the predicted interference area. When counted these three population centroids represent a total of 387 people. Since this amount is less than the 3000 maximum allowed under the rules, this proposal meets the Commission's rules and regulations regarding protection to channel-six TV. Pages #3 - 4 are tabular printouts of the predicted distances to the relevant contours used in the study.

**R.F. Hazard compliance:**

Exhibit #E9 shows compliance with the Commission's R.F. emission's standards.

Page #5 of this exhibit (Ex. # E1) is a declaration made by the preparer, Doug Vernier, attesting to his qualifications.

Doug Vernier, Telecommunications Consultants  
 Minnesota Public Radio - Coverage Contour Distances

ERP = 2.7 kW  
 Channel = 209

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	389.2	55.8	4.314	17.80
10	399.2	45.8	4.314	15.87
20	397.8	47.2	4.314	16.16
30	409.7	35.3	4.314	13.84
40	408.4	36.6	4.314	14.08
50	409.3	35.7	4.314	13.91
60	408.5	36.5	4.314	14.06
70	402.1	42.9	4.314	15.29
80	404.7	40.3	4.314	14.78
90	403.5	41.5	4.314	15.01
100	400.5	44.5	4.314	15.61
110	391.5	53.5	4.314	17.40
120	386.4	58.6	4.314	18.26
130	395.2	49.8	4.314	16.69
140	387.7	57.3	4.314	18.05
150	366.7	78.3	4.314	20.97
160	371.3	73.7	4.314	20.36
170	367.3	77.7	4.314	20.89
180	357.8	87.2	4.314	22.12
190	352.6	92.4	4.314	22.76
200	345.7	99.3	4.314	23.57
210	342.7	102.3	4.314	23.91
220	342.6	102.4	4.314	23.92
230	343.2	101.8	4.314	23.85
240	341.9	103.1	4.314	24.00
250	342.4	102.6	4.314	23.94
260	344.6	100.4	4.314	23.70
270	346.8	98.2	4.314	23.44
280	351.7	93.3	4.314	22.87
290	353.4	91.6	4.314	22.66
300	358.7	86.3	4.314	22.00
310	376.7	68.3	4.314	19.63
320	390.9	54.1	4.314	17.51
330	394.7	50.3	4.314	16.79
340	386.1	58.9	4.314	18.31
350	384.1	60.9	4.314	18.60
Ave. =	376.5 M	68.5 M		

Antenna Radiation Center AMSL =445 M  
 NGDC 03 Arc Sec.

Geographic Coordinates:

N. Lat. 46 19 16  
 W. Lng. 96 05 36

**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;

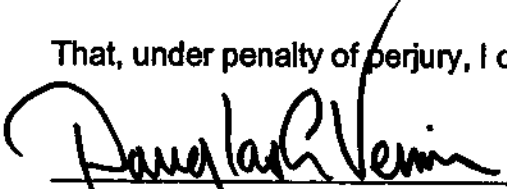
That, I am certified as a Professional Broadcast Engineer (#50258) by the Society of Broadcast Engineers, Indianapolis, Indiana. (Re-certified 11/95.)

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

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

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.

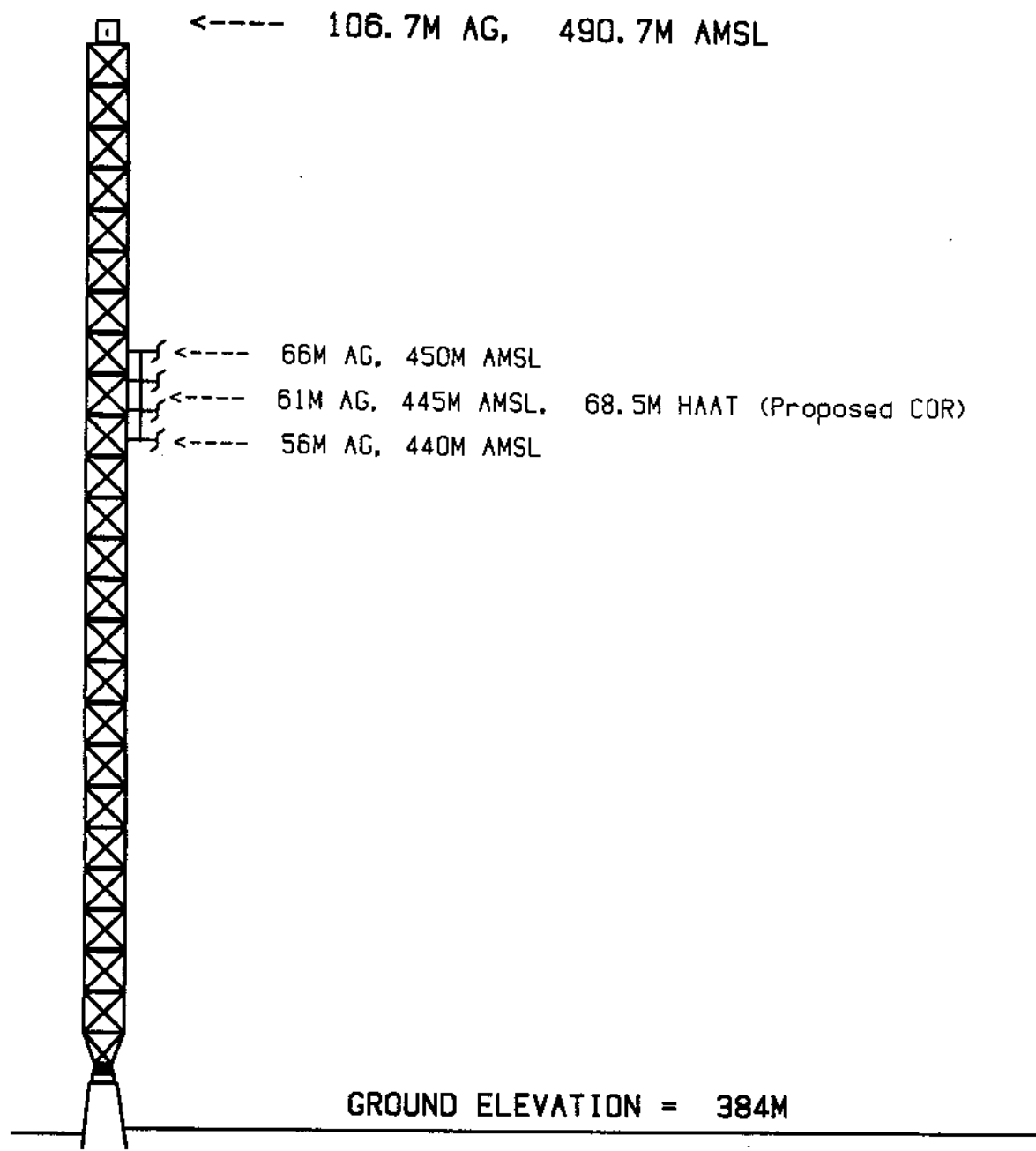
  
\_\_\_\_\_  
Douglas L. Vernier

  
Executed on November 16, 1998

Subscribed and sworn before me this 16<sup>th</sup> day of November, 1998.

  
\_\_\_\_\_  
Notary Public in and for the State of Iowa

My Commission Expires August 10, 2001



VERTICAL SKETCH

N. Lat. 46 19 16  
 W. Lng. 96 05 36

-----  
 Existing Authorized Tower  
 (Not to Scale)  
 -----

FIGURE #E2

Minnesota Public Radio  
 CH 209 - 68.5 M HAAT  
 2.7 kW H & V  
 Fergus Falls, Minnesota  
 November '98

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

**Minnesota Public Radio**

**November, 1998**

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Minnesota Public Radio ("MPR") proposes to construct and operate a new noncommercial educational FM station to serve Fergus Falls, MN and the surrounding area. Its studios will be co-located with those of KSJN (FM) for which MPR is the licensee. That studio is located at 45 East Seventh Street, Saint Paul, MN 55101.

MPR is a nonprofit corporation formed for the purpose of providing noncommercial educational radio service to listeners in Minnesota and surrounding states. MPR's current 29 FM and one AM operating facilities provide 24 hours-per-day quality programming to Minnesota's citizens, as well as to substantial numbers of listeners in North and South Dakota, Iowa, Wisconsin, Michigan, Idaho and southern Ontario. MPR provides programming to its network of stations from its primary Minneapolis/Saint Paul stations - KSJN (FM), Minneapolis, Minnesota, and KNOW (FM), Saint Paul, Minnesota, and from many of its network stations throughout the region. KNOW (FM) is an all news/information station and KSJN(FM) is a classical music station. The proposed station will be operated as a "classical music" station in that it will primarily broadcast KSJN (FM).

On November 20, 1998, MPR applied for a construction permit to build a new noncommercial educational FM station to serve Fergus Falls, MN and the surrounding area. If the application is granted, that station will be operated as a "news and information" station in that it will primarily broadcast KNOW (FM).

MPR currently holds a license for and operates a translator station in Fergus Falls, MN. The proposed stations will probably replace this translator.

MPR therefore requests a waiver of Section 73.1125 of the Commission's Rules to permit MPR to operate its proposed noncommercial educational FM station on Channel 209 at Fergus Falls, MN, as a satellite station without a main studio in the community of license. As demonstrated below, grant of the instant waiver request would be in the public interest.

The Commission has issued decisions stating that the "main studio must, at a minimum, maintain full-time managerial and full-time staff personnel." Jones Eastern of the Outer Banks, Inc., FCC 91-175, released June 19, 1991, at ¶ 9; see also Salem Broadcasting, Inc., DA 91-804, released July 2, 1991.

Grant of this requested waiver is necessary to permit MPR to operate the proposed Fergus Falls station as a "satellite" because the Fergus Falls area could not otherwise support another wholly independent non-commercial educational FM station. The population of Fergus Falls is only about 14,000. Because of this area's limited economic base, it is highly unlikely that a station with separate staff and studio could provide the same high quality public radio service that MPR proposes. Therefore, waiver of Section 73.1125 is necessary in this case to ensure that the residents of Fergus Falls area receive the diverse and important programming MPR will provide.

**Minnesota Public Radio**

**November, 1998**

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The Commission has recognized the advantages accruing to noncommercial broadcasters from consolidated operations:

In the past, we have recognized the benefits of centralized operations for noncommercial educational stations, given the limited funding available to these stations, and we have granted waivers to state and regional public television and radio networks to operate "satellite" stations that do not necessarily meet the requirements of a main studio.

Main Studio Program Origination Rules, 3 FCC Rcd. 5024, 5027 (1988) (citing Nebraska Educational Television Commission, 4 R.R.2d 771 (1965)). Indeed, the Commission has previously determined that waiver of the main studio rule for other stations in the MPR network serves the public interest. See Letter from Linda Blair, Chief, Audio Services Division to Todd M. Stansbury, dated May 31, 1996 (attached hereto); see also Letter from Dennis Williams, Assistant Chief, Audio Services Division to Todd M. Stansbury, dated November 6, 1995, File No. BPED-9508101A.

Upon grant of this request, MPR will satisfy the public needs and interests of residents of Fergus Falls by the following means:

- MPR maintains a toll-free telephone line by which the residents of the Fergus Falls area can reach MPR management to express concerns about the station operations. This toll-free telephone number goes into MPR's Member Listener Services (MLS) Department. MPR currently has 6 live phone lines and 7 full-time employees who answer the phones and emails. In the past year, MLS has handled about 60,000 incoming calls on every subject you can think of related to MPR, including comments and questions about programming on both services. In addition, MLS has handled about 9,000 email messages in the past year. While the number of phone lines and employees may change with time, MPR's commitment to maintain easy access is strong.
- MPR currently has one person in Saint Paul who is responsible for the final decisions on all programming on MPR stations. MPR has a news director and a classical music director who report to this person. Listener comments from MLS go to this person, who then distributes comments about the music service to the music programming people, and comments about news programming to the news programming director. Summaries of comments about both services are widely distributed throughout the company and to the Board. The current organizational structure may change with time, but the commitment to maintain control of programming and circulate listener opinions will not change.
- MPR has established a site on the World Wide Web (<http://www.mpr.org>) that enables local residents to receive extensive information regarding MPR's programming and provides a link for



Minnesota Public Radio

November, 1998

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local residents to email concerns about the station operations to MPR management. The site contains descriptions of special reports, schedules for news and classical music programming, and on-line audio sources for MPR programming, including its radio series *A Prairie Home Companion*®. In addition, MPR has established home pages on the MPR Web Site for its network stations. When the proposed station is constructed, MPR will add the proposed station to the Web Site list.

- MPR has an existing relationship with the Fergus Falls area through its 250 currently active members in the Fergus Falls area, all of whom identify themselves as listeners of MPR's translator in Fergus Falls (out of a total MPR membership of about 85,000). MPR actively solicits comments from its members concerning programming and station operation and ensures that member requests and recommendations are thoughtfully considered in making programming decisions.
- MPR currently has a Regional Development Advisory Council (RDAC) for its stations KQMN (FM), KNTN (FM), KCCM (FM) and KCCD (FM) that advises management of MPR on issues related to the areas of these stations, all of which are located in the northwestern part of Minnesota. Fergus Falls is located in the same general area. Two residents of Fergus Falls currently serve on this RDAC.
- MPR operates the largest news organization of any radio service in the Midwest. With this extensive news resource, MPR is able to produce news programming from throughout MPR's service area and distribute it to all stations in the network. MPR's reporters located in nearby Moorhead MN and the newsroom staff in Saint Paul subscribe to the local and area publications and maintain ongoing relationships with community residents and leaders, who are periodically contacted regarding local events and developments. MPR's reporters use information provided by these contacts to investigate events and to file news stories for broadcast by MPR either regionally or throughout the MPR multi-state network.
- MPR operates a traveling *Mainstreet Radio*® crew of four persons, which gathers and produces programming material from rural and small city locations such as the Fergus Falls area throughout MPR's service area for broadcast through the network.

All four Mainstreet reporters live and work outside of the Twin Cities of Minneapolis and Saint Paul, giving their stories a perspective that reflects their rural and small-town lifestyles - a perspective that is consciously not "metrocentric." *Mainstreet Radio*® has four goals:

- To provide listeners throughout Minnesota with compelling stories, insights and perspectives from rural people and places,
- To link the state in common understanding of rural issues and foster a sense of the shared destiny of all Minnesota

**Minnesota Public Radio**

**November, 1998**

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- To provide a local and regional context for issues that are global and universal
  - To create a body of work that will help rural communities deal effectively with their issues
- 
- MPR has received a grant from the Corporation for Public Broadcasting that has been used to test a pilot program called "Local Link"™. The purpose of Local Link is to enhance local news coverage in rural and small communities. This program, which is unique in public broadcasting, is currently in the implementation and testing stages and has recently been installed at several of MPR's stations. Local Link is enabling MPR to improve news programming in its small city markets, including Fergus Falls. For example, one of the goals of Local Link is to allow reporters located at stations in the areas of the state outside of Minneapolis and Saint Paul to spend less time on-air reading the news and more time getting out in the region they cover working with their contacts and covering local and regional news.

For the foregoing reasons, MPR submits that it will be able to ascertain and satisfy the interests and need of residents of the Fergus Falls area and, therefore, respectfully requests that the Commission grant this waiver of the main studio rule for the proposed station.

**Mitzi T Gramling**

FEDERAL COMMUNICATIONS COMMISSION  
WASHINGTON, D. C. 20554

IN REPLY REFER TO  
180083-ALM

Todd M. Stansbury, Esq.  
Wiley, Rein & Fielding  
1776 K Street, N.W.  
Washington, D. C. 20006

Re: New FM Service in Appleton, Minnesota. File No. BPED-941108MB

Dear Mr. Stansbury:

The staff has under consideration the application of Minnesota Public Radio ("MPR") to construct a new noncommercial educational ("NCE") FM station in Appleton, Minnesota (File No. BPED-941108MB). MPR requests waiver of the Commission's main studio requirement, see 47 C.F.R. § 73.1125,<sup>1</sup> in order to operate the Appleton station as a satellite of its NCE station KNOW(FM), St. Paul, Minnesota. For the reasons set forth below, we will waive 47 C.F.R. § 73.1125 and grant MPR's application for a construction permit.

Section 73.1125(a) requires each broadcast station to maintain a main studio within the station's principal community contour to ensure that the station will serve the needs and interests of the residents of its community of license. Amendment of Sections 73.1125 and 73.1130, 3 FCC Rcd 5024, 5027 (1988). However, under Section 73.1125(a)(4), the Commission will waive this requirement where "good cause" exists to do so and where the proposed studio location "would be consistent with the operation of the station in the public interest." Each waiver request by an NCE station seeking to operate as the satellite of another NCE station is considered on a case-by-case basis. The Commission has recognized the benefits of centralized operations for NCE stations, given their limited funding, and thus found "good cause" exists to waive the main studio location requirement where satellite operations are proposed. Id. A satellite station must, however, demonstrate that it will meet its local service obligation to satisfy the Section 73.1125 "public interest" standard. Id.

MPR's request is based on the economies of scale which would be realized by grant of its waiver. We agree and conclude that there is "good cause" to waive 47 C.F.R. § 73.1125(a)(4) in these circumstances. MPR proposes to operate the Appleton station as a satellite of KNOW(FM), St. Paul, Minnesota, approximately 110 miles from Appleton. Where there is a great distance between parent and satellite stations, as here, we are particularly concerned that the licensee take adequate measures to maintain its awareness of the satellite community's needs and interests. To that end, MPR has pledged to: (1) continue its policy that residents of each service area participate on a regional advisory council which

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<sup>1</sup>In relevant part, Section 73.1125 requires each broadcast station to maintain a main studio within its station's principal community contour.

provides input to management on programming issues of interest to the residents throughout MPR's service area, including Appleton; (2) continue its existing relationship with the community of Appleton which has been established by means of its existing station KRSU(FM), Appleton, Minnesota; (3) solicit comments from MPR members in Appleton concerning programming and station operation; (4) base a "beat" reporter in Appleton who will subscribe to local and area publications and maintain ongoing relationships with community residents and leaders, who will be periodically contacted regarding local events and developments; (5) maintain a toll-free telephone number for residents of Appleton to contact MPR management in accordance with 47 C.F.R. § 73.1125(c); and (6) operate a site on the World Wide Web which enables local residents to receive extensive information and comment on MPR's programming. We also remind MPR that it must maintain a public file for the new station in Appleton, as required by 47 C.F.R. § 73.3527(d). In these circumstances, we are persuaded that MPR will meet its local service obligations and thus, that grant of the requested waiver is consistent with the public interest.

Accordingly, the application of Minnesota Public Radio for a new noncommercial educational FM station in Appleton, Minnesota (File No. BPED-941108MB) and its request for waiver of 47 C.F.R. § 73.1125 ARE GRANTED. The authorization will be forwarded under separate cover.

Sincerely,

*Lisa Scanlan*

Linda Blair, Chief *for*  
Audio Services Division  
Mass Media Bureau

**EXHIBIT #E4  
Inter-modulation Interference  
November 1998**

**Concerning the Application of  
Minnesota Public Radio  
Fergus Falls, Minnesota**

**89.7 MHz**

The 115 dBu blanketing contour of the proposed facility travels 647 meters from the proposed 2.7 kW ERP antenna. There is little or no population within this area.

There is one LPTV station within ten kilometers. The applicant operates a translator station within ten kilometers, however this unit will be turned off when broadcasting begins using the proposed facilities. In another application the applicant proposes to place an additional signal on the proposed tower at 91.5 MHz. Page #2 of this exhibit lists pertinent information as to the existing facilities and locations.

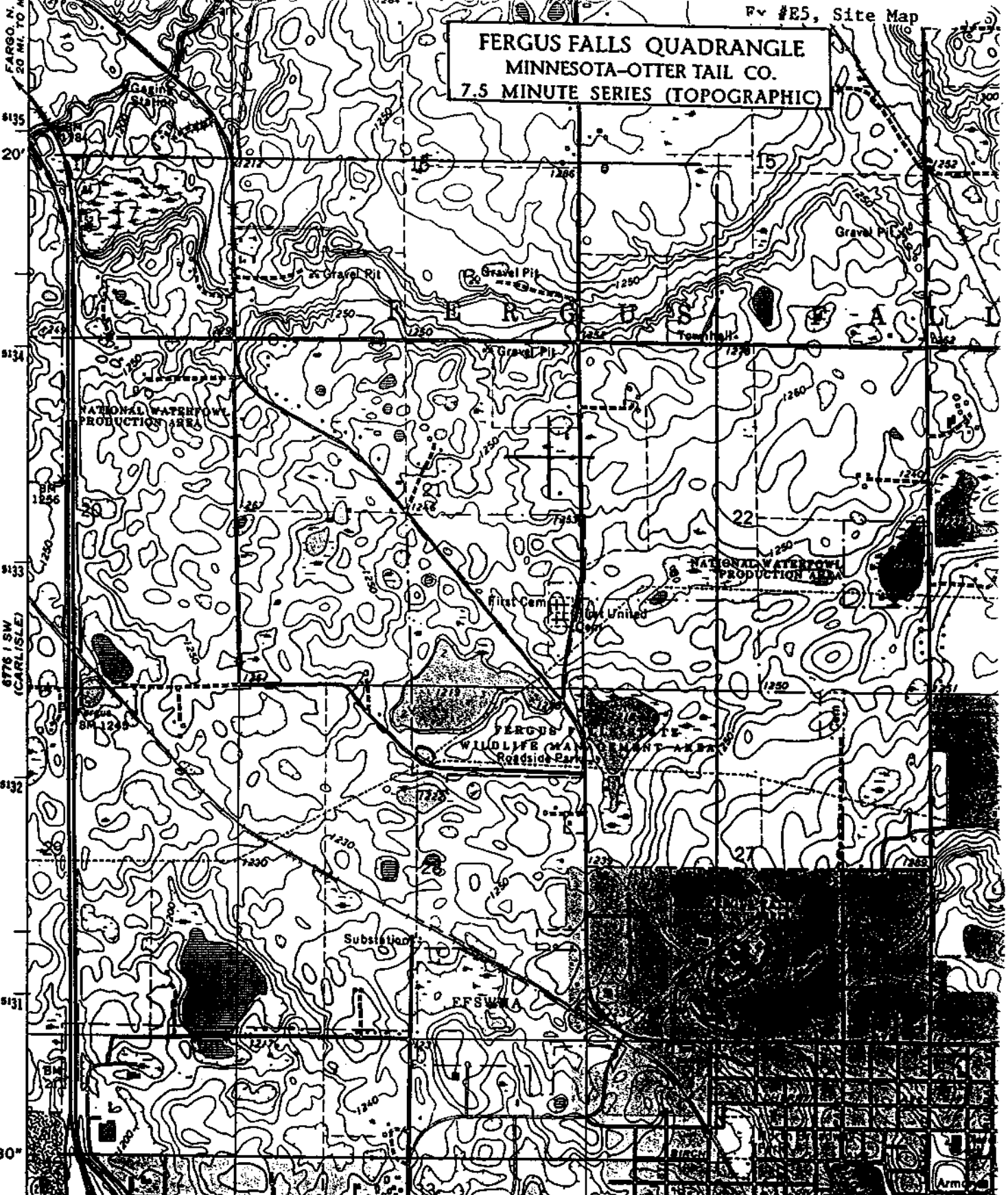
Since the applicant proposes to add another FM signal in diplex with the existing FM signal, it is possible for a signal mix of 1.8 MHz to exist. Without proper filtering, this signal mix could be introduced to the IPA's of the either of the two transmitters resulting in a mix of the original transmitter 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.

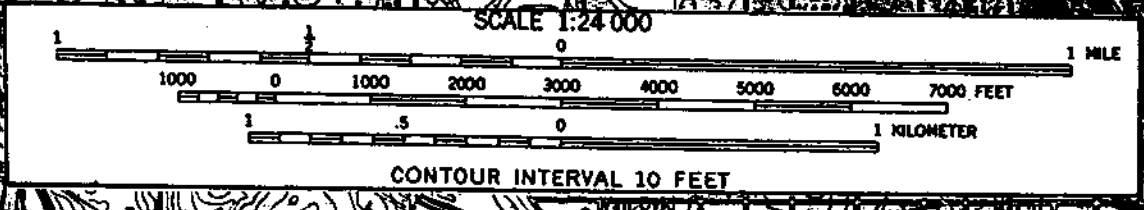
ID Stations Study at 46 19 16 N, 96 05 36 W, Search Distance = 10 km

Call	City	State	Chan.	Power	Coordinates
Dist-km	Azimuth	File Number			
AM					
KBRF	FERGUS FALLS	MN	1250	0005.000kw	461622N 960241W
006.5	145.2	BL970206AB		AM	
FM					
K209BA	Fergus Falls	MN	209D	0000.135kw	461803N 960449W
002.5	156.0	BLFT901120TB		FM	
TV					
K02MM	FERGUS FALLS	MN	02C	0000.099kw	461935N 960525W
000.6	021.8	BLTTV840604II		TV	

FERGUS FALLS QUADRANGLE  
MINNESOTA-OTTER TAIL CO.  
7.5 MINUTE SERIES (TOPOGRAPHIC)



FARGO, N. 20 MI. TO N.  
8135  
20'  
8134  
8133  
8132  
8131  
17'30"  
23 MI. TO U.S. 75  
FOXHOME 9 MI.



T 133 N  
T 132 N

96°07'30"  
46°22'30"

722000 L

723

ELIZABETH 2 MI

724

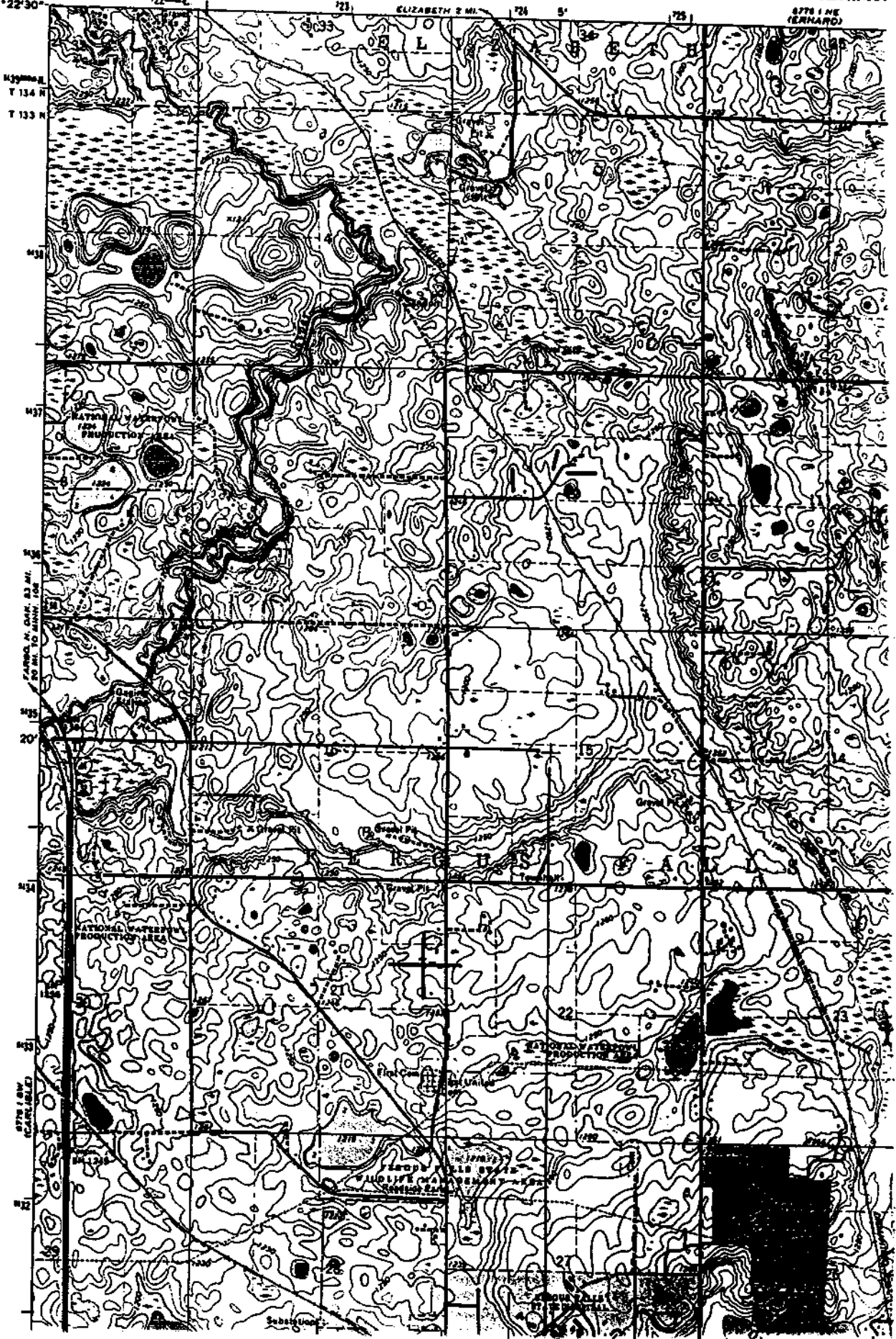
5'

725

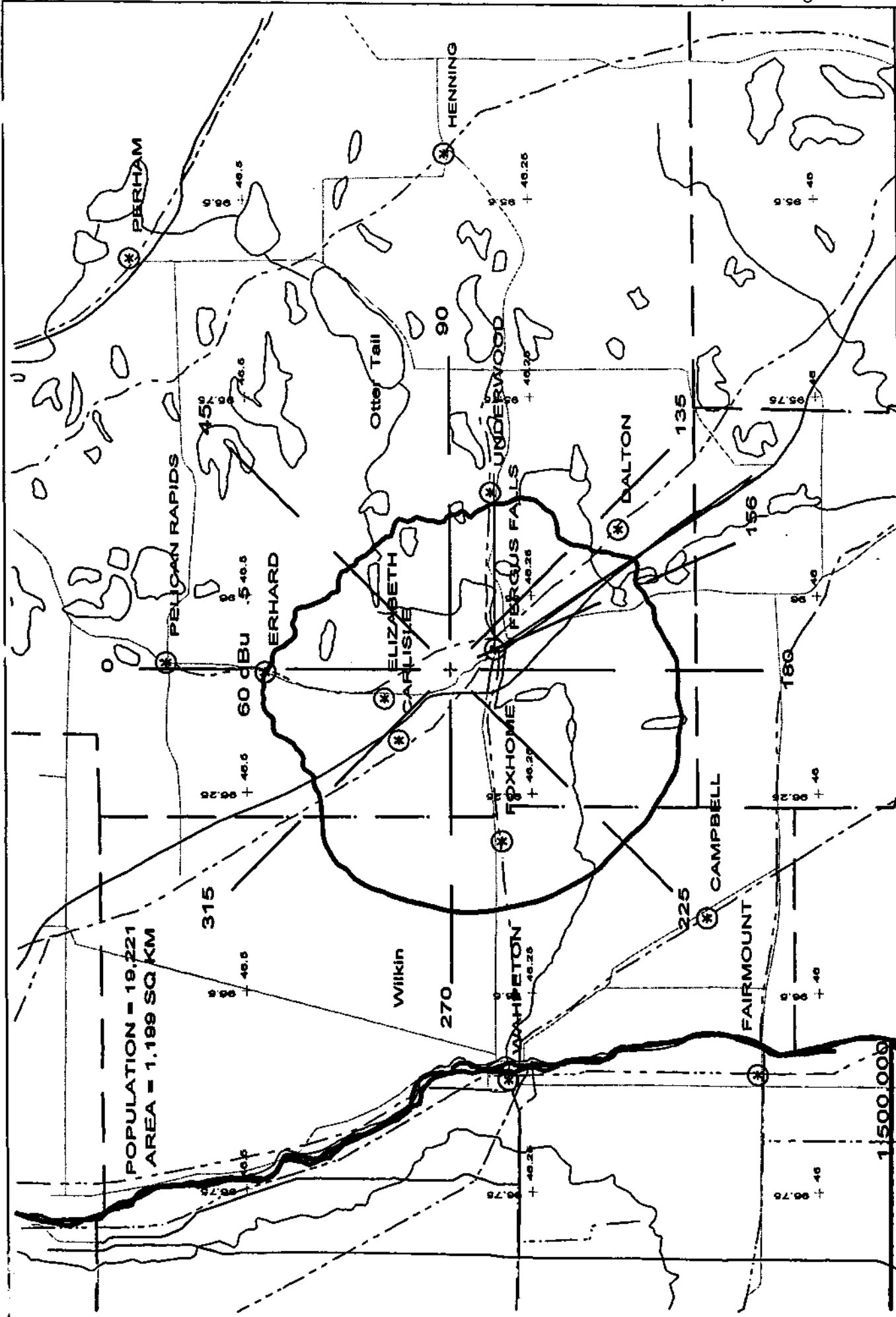
8778 1 NE  
(BERNARD)

1330000 E  
T 134 N  
T 133 N

Ex #E  
Pg #2







POPULATION = 19,221  
 AREA = 1,199 SQ. KM

1:500,000

Scale in km



NEW 209A 2.7kW 445M AMSL

N. Lat. 46 19 16 W. Lng. 96 05 36

60 dBu COVERAGE

D Vermier - 11/98

11-15-1998

DOUG VERNIER TELECOMM CONSULTANTS

319 266-8402

CH# 209A - 89.7 MHz

Minnesota Public Radio

INTERFERENCE CHECKS WITH TBA, FERGUS FALLS, MN at N. LAT. 46 19 16 W. LNG. 96 05 36

PWR = 2.7 kW H.A.A.T. = 68.5 M C.O.R. = 445 M AMSL

Protected F(50-50) 60 dBu = 19.65 km

F(50-10) 40 dBu = 67.56 54 dBu = 28.81 80 dBu = 6.13 100 dBu = 1.93

CH#	CALL	TYPE	* IN *	* OUT *	BEARING	DISTANCE	LAT.	PWR(kW)	INT(km)	PRO(km)
CITY	STATE	LICENSEE			<---		LNG.	HAAT(M)	COR(M)	FILE #
206C2	AP206	AP VN	66.7	47.5	28.3	90.78 km	47 02 18	50.00	4.44	41.39
Waubun	MN	Niijii Broadcast Corp.			208.3	56.41 Mi	95 31 34	85.0	555	BPED960328MS
FCC Comment > vertical polarization only										
207C1	AP207	AP CN	71.4	52.6	52.7	108.99 km	46 54 28	100.00	17.98	50.28
Sebeka	MN	LifeTalk Broadcasting Asso			232.7	67.72 Mi	94 57 12	98.0	530	BPED960712MQ
FCC Comment > Proposed as Class C1 to Canada 970304-Accepted by Canada 970404										
208D	AP208	AP CN	44.7	39.9	319.9	79.70 km	46 52 00	0.20	15.35	10.96
Moorhead	MN	North-Central Christian Br			139.9	49.52 Mi	96 46 05	79.0	352	BPFT980330TA
FCC Comment > Translator for WNCB, Duluth, MN.										
208C3	CP208 *	CP CN	3.3	11.7	130.6	66.21 km	45 55 55	7.20	46.17	29.78
Alexandria	MN	Christian Heritage Broadca			310.6	41.14 Mi	95 26 41	102.1*	526	BPED980316ME
FCC Comment > Proposed as Class B1 to Canada 980818										
Accepted as Class B1 by Canada 981001										
> Reference HAAT at 130.6 degrees = 50.1 M, Pwr.= 2.7 kW, Pro. Dist. = 16.75 km, Int. Dist. = 24.76 km										
208A	AP208	AP VN	28.4	29.8	313.2	79.02 km	46 48 15	4.20	31.00	20.44
Fargo	ND	Pioneer Public Broadcastin			133.2	49.10 Mi	96 50 58	61.0	335	BPED980427MQ
FCC Comment > Vertical Polarization Only-ERP is higher than that allowed by the international agreement										
209A	KUMM *	LI MN	38.7	6.0	169.9	82.67 km	45 35 20	0.22	23.12	6.91
Morris	MN	University of Minnesota, M			349.9	51.37 Mi	95 54 22	4.9*	364	BLED830509AB
> Reference HAAT at 169.9 degrees = 77.6 M, Pwr.= 2.7 kW, Pro. Dist. = 20.88 km, Int. Dist. = 69.73 km										
209D	K209BA	LI DNN	-37.9	-71.2	156.0	2.47 km	46 18 03	0.14	20.73	6.10
Fergus Falls	MN	Minnesota Public Radio			336.0	1.53 Mi	96 04 49	0.0	422	BLPT901120TB
FCC Comment > Translator for KCOMFM, Moorhead, MN										
211C1	KSJRFM	LI CN	100.5	76.5	126.7	151.50 km	45 29 52	100.00	31.35	68.90
Collegetville	MN	Minnesota Public Radio, In			306.7	94.14 Mi	94 32 14	258.0	617	BMLE880616KA
212C1	KCCD *	LI VN	38.4	2.4	321.3	62.70 km	46 45 35	100.00	7.10	58.52
Moorhead	MN	Minnesota Public Radio			141.3	38.96 Mi	96 36 26	150.4*	437	BLED920612KA
FCC Comment > Vertical Polarization Only										
> Reference HAAT at 321.3 degrees = 52.4 M, Pwr.= 2.7 kW, Pro. Dist. = 17.2 km, Int. Dist. = 1.76 km										

I.F. RELATIONSHIPS: NONE FOUND

Nearest CH 6 Grade B =WDAYTV at 5.99 km, Distance= 114.3 Azimuth = 312.7 Deg. T.

\* Uses actual antenna radial HAAT and power toward reference

## 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.

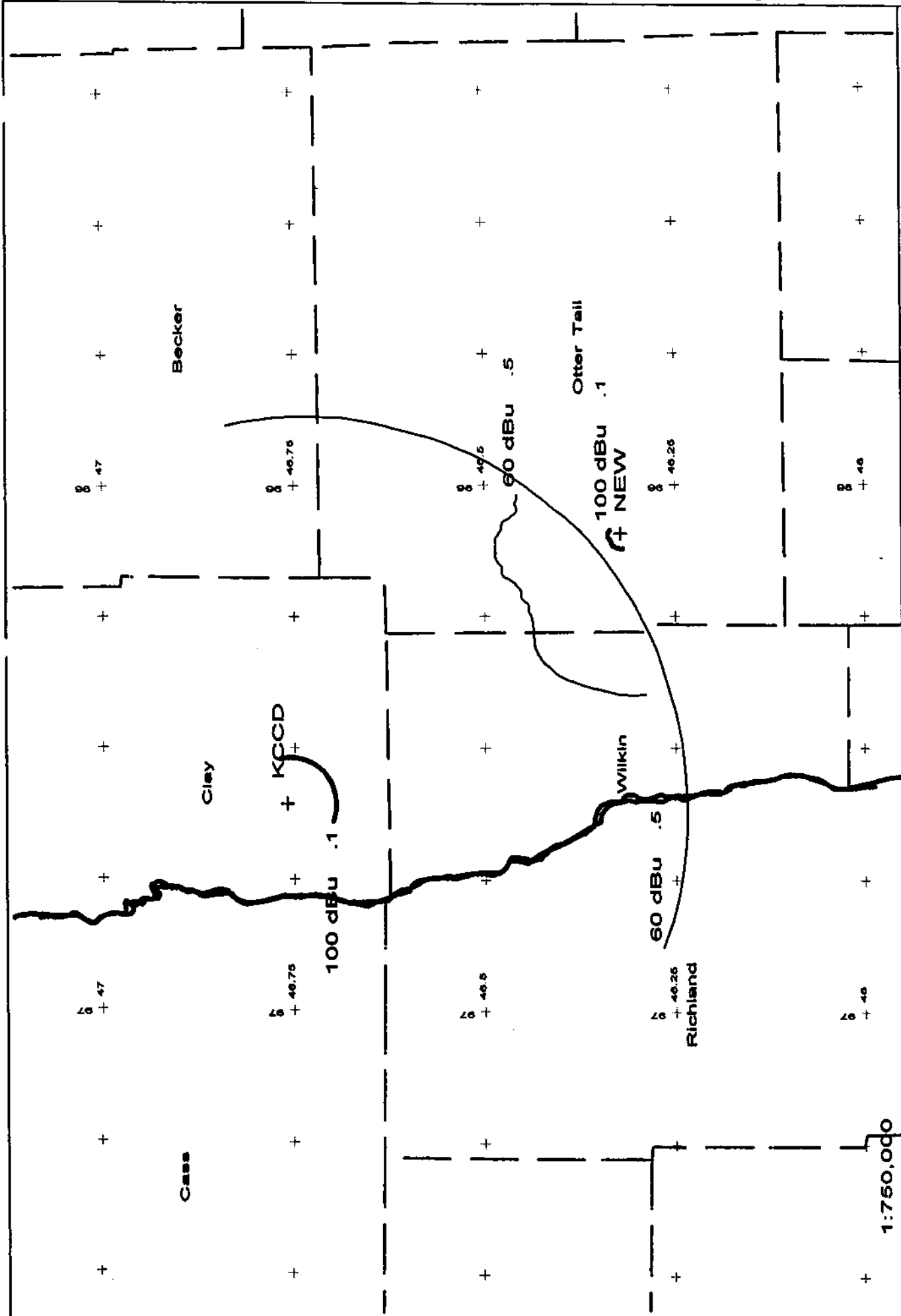
The column listed **" IN "** is the sum of the reference station's 60 dBu protected contour and the data file station's interference contour subtracted from the distance between the stations. (All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket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

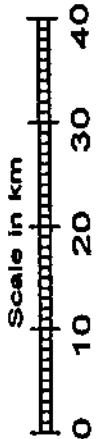
The columns labeled **"INT"** and **"PRO"** hold the distance in kilometers of the appropriate interference contour and the protected contour of a data base station.

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 F.C.C. 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.



NEW 209A 2.7kW 445M AMSL	NEW vs KCCD
KCCD 212C1 100kW 437M AMSL	D Vernier - 11/98



1:750,000

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11-15-1998 03 Sec. Terrain Data

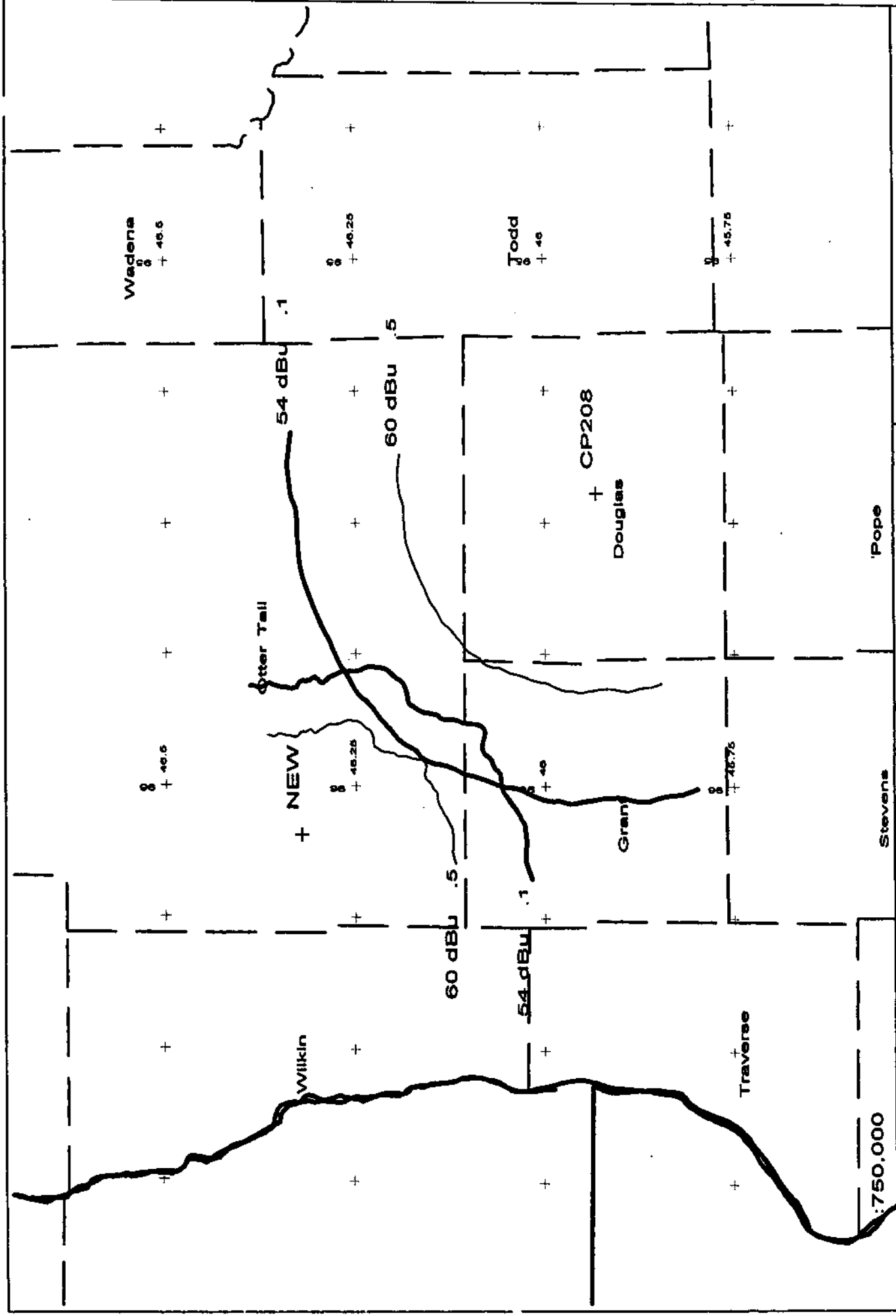
KCCD BLED920612KA  
Channel = 212C1  
Max ERP = 100 kW  
RCAMSL = 437 M  
N. Lat = 46 45 35  
W. Lng = 96 36 26

NEW  
Channel = 209A  
Max ERP = 2.7 kW  
RCAMSL = 445 M  
N. Lat = 461916  
W. Lng = 960536

Protected  
60 dBu

Interfering  
100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
130.0	100.0000	0146.6	058.0	023.6	002.7000	0042.2	012.5	63.4
31.0	100.0000	0146.8	058.0	021.7	002.7000	0046.2	011.5	65.8
132.0	100.0000	0147.1	058.1	020.0	002.7000	0047.2	010.5	67.6
133.0	100.0000	0147.6	058.1	018.1	002.7000	0046.4	009.6	69.1
134.0	100.0000	0148.4	058.3	015.8	002.7000	0046.6	008.6	70.9
135.0	100.0000	0149.2	058.4	012.9	002.7000	0044.2	007.7	72.2
136.0	100.0000	0149.8	058.4	008.8	002.7000	0047.5	006.8	74.9
137.0	100.0000	0150.1	058.5	003.1	002.7000	0053.8	006.0	78.3
138.0	100.0000	0150.3	058.5	355.6	002.7000	0058.8	005.3	81.4
139.0	100.0000	0150.4	058.5	345.8	002.7000	0058.8	004.7	83.3
140.0	100.0000	0150.3	058.5	333.7	002.7000	0051.4	004.4	83.4
1.0	100.0000	0150.3	058.5	320.2	002.7000	0053.8	004.3	84.3
142.0	100.0000	0150.4	058.5	306.8	002.7000	0076.8	004.4	86.7
143.0	100.0000	0150.3	058.5	295.1	002.7000	0089.6	004.8	86.6
144.0	100.0000	0150.2	058.5	285.5	002.7000	0092.2	005.4	85.0
145.0	100.0000	0149.9	058.5	278.3	002.7000	0093.6	006.1	82.9
146.0	100.0000	0149.7	058.4	272.7	002.7000	0096.6	006.9	81.0
147.0	100.0000	0149.6	058.4	268.3	002.7000	0098.9	007.8	79.1
148.0	100.0000	0149.7	058.4	264.8	002.7000	0099.8	008.7	77.4
149.0	100.0000	0149.8	058.4	262.0	002.7000	0100.3	009.6	75.7
150.0	100.0000	0149.8	058.4	259.9	002.7000	0100.4	010.5	74.0
151.0	100.0000	0149.8	058.4	258.2	002.7000	0100.4	011.5	72.4
152.0	100.0000	0149.7	058.4	256.9	002.7000	0100.3	012.5	70.9
153.0	100.0000	0149.6	058.4	255.9	002.7000	0100.4	013.5	69.5
154.0	100.0000	0149.6	058.4	255.0	002.7000	0100.7	014.5	68.3
155.0	100.0000	0149.7	058.4	254.3	002.7000	0100.8	015.5	67.5
156.0	100.0000	0149.7	058.4	253.7	002.7000	0100.9	016.5	66.7
157.0	100.0000	0149.7	058.4	253.3	002.7000	0101.1	017.5	65.8
158.0	100.0000	0149.6	058.4	253.1	002.7000	0101.2	018.5	65.0
159.0	100.0000	0149.2	058.4	253.0	002.7000	0101.2	019.5	64.2
160.0	100.0000	0149.2	058.4	252.8	002.7000	0101.3	020.6	63.4



NEW 209A 2.7KW 445M AMSL	NEW vs CP208
CP208 208C3 7.2KW 526M AMSL	D Vernier - 11/98

Doug Vernier Telecommunications Consultants  
11-15-1998 03 Sec. Terrain Data

CP208           BPED980316ME  
Channel = 208C3  
Max ERP = 7.2 kW  
RCAMSL = 526 M  
N. Lat = 45 55 55  
W. Lng = 95 26 41

NEW  
Channel = 209A  
Max ERP = 2.7 kW  
RCAMSL = 445 M  
N. Lat = 461916  
W. Lng = 960536

Protected  
60 dBu

Interfering  
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
290.0	007.2000	0097.2	029.1	145.6	002.7000	0068.9	040.3	48.9
91.0	007.2000	0096.9	029.0	145.0	002.7000	0067.5	040.1	48.8
292.0	007.2000	0097.2	029.1	144.4	002.7000	0066.7	039.8	48.8
293.0	007.2000	0097.6	029.1	143.9	002.7000	0065.9	039.4	48.9
294.0	007.2000	0098.0	029.2	143.3	002.7000	0064.7	039.1	48.9
295.0	007.2000	0098.8	029.3	142.7	002.7000	0063.2	038.8	48.8
296.0	007.2000	0099.2	029.4	142.0	002.7000	0061.4	038.5	48.7
297.0	007.2000	0099.1	029.4	141.4	002.7000	0059.6	038.3	48.6
298.0	007.2000	0099.2	029.4	140.7	002.7000	0057.9	038.1	48.5
299.0	007.2000	0099.7	029.4	140.0	002.7000	0057.2	037.8	48.5
300.0	007.2000	0101.1	029.6	139.3	002.7000	0057.4	037.5	48.6
1.0	007.2000	0102.9	029.9	138.7	002.7000	0057.2	037.1	48.8
302.0	007.2000	0103.8	030.0	138.0	002.7000	0056.1	036.8	48.7
303.0	007.2000	0104.1	030.1	137.2	002.7000	0055.0	036.6	48.6
304.0	007.2000	0104.1	030.1	136.4	002.7000	0053.9	036.5	48.5
305.0	007.2000	0102.3	029.8	135.5	002.7000	0052.8	036.6	48.3
306.0	007.2000	0102.5	029.8	134.7	002.7000	0051.6	036.5	48.2
307.0	007.2000	0103.2	029.9	134.0	002.7000	0051.1	036.3	48.1
8.0	007.2000	0103.5	030.0	133.1	002.7000	0050.7	036.2	48.1
309.0	007.2000	0103.6	030.0	132.3	002.7000	0050.5	036.2	48.1
310.0	007.2000	0102.9	029.9	131.5	002.7000	0050.4	036.3	48.1
311.0	007.2000	0101.9	029.8	130.7	002.7000	0050.1	036.4	48.0
312.0	007.2000	0101.5	029.7	129.8	002.7000	0049.8	036.5	47.9
313.0	007.2000	0101.2	029.7	129.0	002.7000	0050.3	036.5	47.9
314.0	007.2000	0100.9	029.6	128.2	002.7000	0051.5	036.6	48.1
315.0	007.2000	0100.3	029.5	127.5	002.7000	0053.0	036.8	48.3
316.0	007.2000	0099.7	029.4	126.7	002.7000	0054.2	036.9	48.4
317.0	007.2000	0099.5	029.4	125.9	002.7000	0055.3	037.0	48.5
318.0	007.2000	0099.5	029.4	125.1	002.7000	0056.6	037.1	48.7
319.0	007.2000	0100.3	029.5	124.3	002.7000	0057.6	037.2	48.8
320.0	007.2000	0100.5	029.6	123.5	002.7000	0058.1	037.3	48.8
321.0	007.2000	0100.2	029.5	122.8	002.7000	0058.3	037.5	48.8
322.0	007.2000	0099.6	029.4	122.1	002.7000	0058.3	037.7	48.7
323.0	007.2000	0099.0	029.3	121.4	002.7000	0058.2	038.0	48.6
324.0	007.2000	0098.5	029.3	120.7	002.7000	0058.3	038.2	48.5
325.0	007.2000	0098.4	029.3	120.0	002.7000	0058.6	038.4	48.4

Doug Vernier Telecommunications Consultants  
11-15-1998 03 Sec. Terrain Data

NEW

Channel = 209A  
Max ERP = 2.7 kW  
RCAMSL = 445 M  
N. Lat = 461916  
W. Lng = 960536

CP208 BPED980316ME

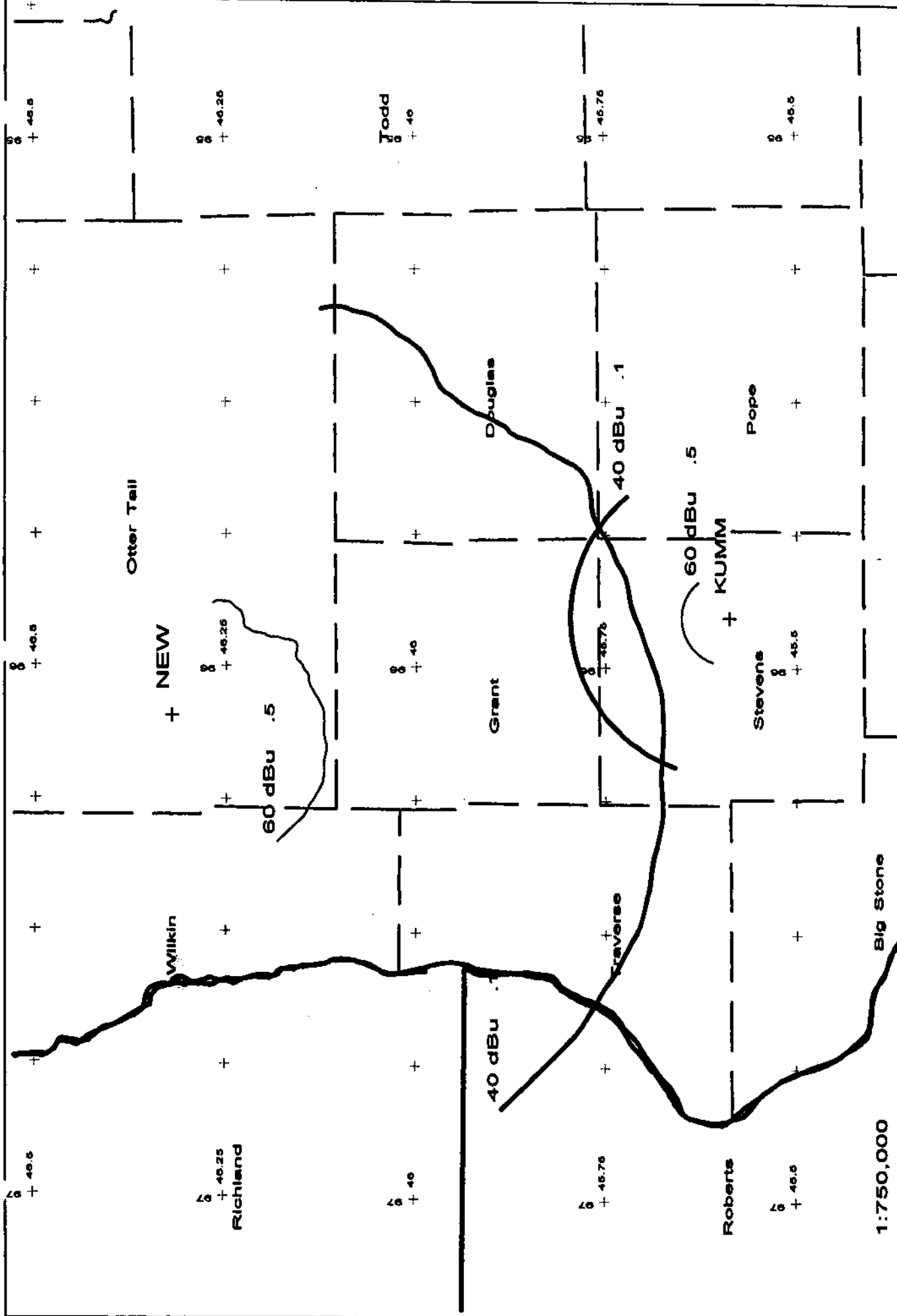
Channel = 208C3  
Max ERP = 7.2 kW  
RCAMSL = 526 M  
N. Lat = 45 55 55  
W. Lng = 95 26 41

Protected  
60 dBu

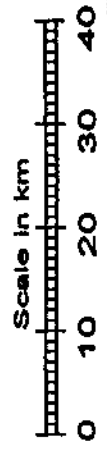
Interfering  
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
130.0	002.7000	0049.8	016.7	311.3	007.2000	0101.8	049.5	52.7
31.0	002.7000	0050.3	016.8	311.0	007.2000	0101.9	049.5	52.7
132.0	002.7000	0050.5	016.8	310.6	007.2000	0102.1	049.4	52.8
133.0	002.7000	0050.6	016.9	310.3	007.2000	0102.6	049.4	52.8
134.0	002.7000	0051.1	016.9	309.9	007.2000	0103.0	049.3	52.9
135.0	002.7000	0052.0	017.1	309.6	007.2000	0103.4	049.2	52.9
136.0	002.7000	0053.5	017.4	309.2	007.2000	0103.6	049.0	53.1
137.0	002.7000	0054.7	017.6	308.8	007.2000	0103.6	048.8	53.1
138.0	002.7000	0056.1	017.9	308.4	007.2000	0103.5	048.6	53.2
139.0	002.7000	0057.4	018.1	308.0	007.2000	0103.5	048.4	53.2
140.0	002.7000	0057.3	018.1	307.6	007.2000	0103.5	048.5	53.2
1.0	002.7000	0058.7	018.3	307.2	007.2000	0103.3	048.4	53.2
142.0	002.7000	0061.3	018.7	306.7	007.2000	0102.9	048.1	53.3
143.0	002.7000	0064.0	019.0	306.2	007.2000	0102.6	047.8	53.4
144.0	002.7000	0066.2	019.3	305.7	007.2000	0102.2	047.6	53.4
145.0	002.7000	0067.5	019.5	305.2	007.2000	0102.1	047.6	53.5
146.0	002.7000	0069.9	019.8	304.7	007.2000	0102.9	047.4	53.6
147.0	002.7000	0072.7	020.2	304.1	007.2000	0104.0	047.2	53.8
148.0	002.7000	0075.7	020.6	303.5	007.2000	0104.2	047.0	53.8
149.0	002.7000	0077.7	020.9	303.0	007.2000	0104.1	046.9	53.9
150.0	002.7000	0078.3	021.0	302.6	007.2000	0104.0	047.0	53.8
151.0	002.7000	0077.8	020.9	302.2	007.2000	0103.9	047.2	53.7
152.0	002.7000	0076.0	020.7	302.0	007.2000	0103.7	047.6	53.6
153.0	002.7000	0073.7	020.4	301.8	007.2000	0103.6	048.0	53.4
154.0	002.7000	0071.8	020.1	301.6	007.2000	0103.5	048.5	53.2
155.0	002.7000	0071.0	020.0	301.3	007.2000	0103.3	048.7	53.1
156.0	002.7000	0071.0	020.0	301.0	007.2000	0102.8	048.9	53.0
157.0	002.7000	0072.2	020.2	300.5	007.2000	0102.1	049.0	52.9
158.0	002.7000	0073.3	020.3	300.1	007.2000	0101.3	049.1	52.8
159.0	002.7000	0073.8	020.4	299.7	007.2000	0100.7	049.3	52.7
160.0	002.7000	0073.7	020.4	299.4	007.2000	0100.1	049.5	52.6





NEW vs KUMM	D Vernier - 11/98
NEW 209A 2.7kW 445M AMSL	
KUMM 209A .225kW 364M AMSL	



1:750,000

Doug Vernier Telecommunications Consultants  
11-15-1998 03 Sec. Terrain Data

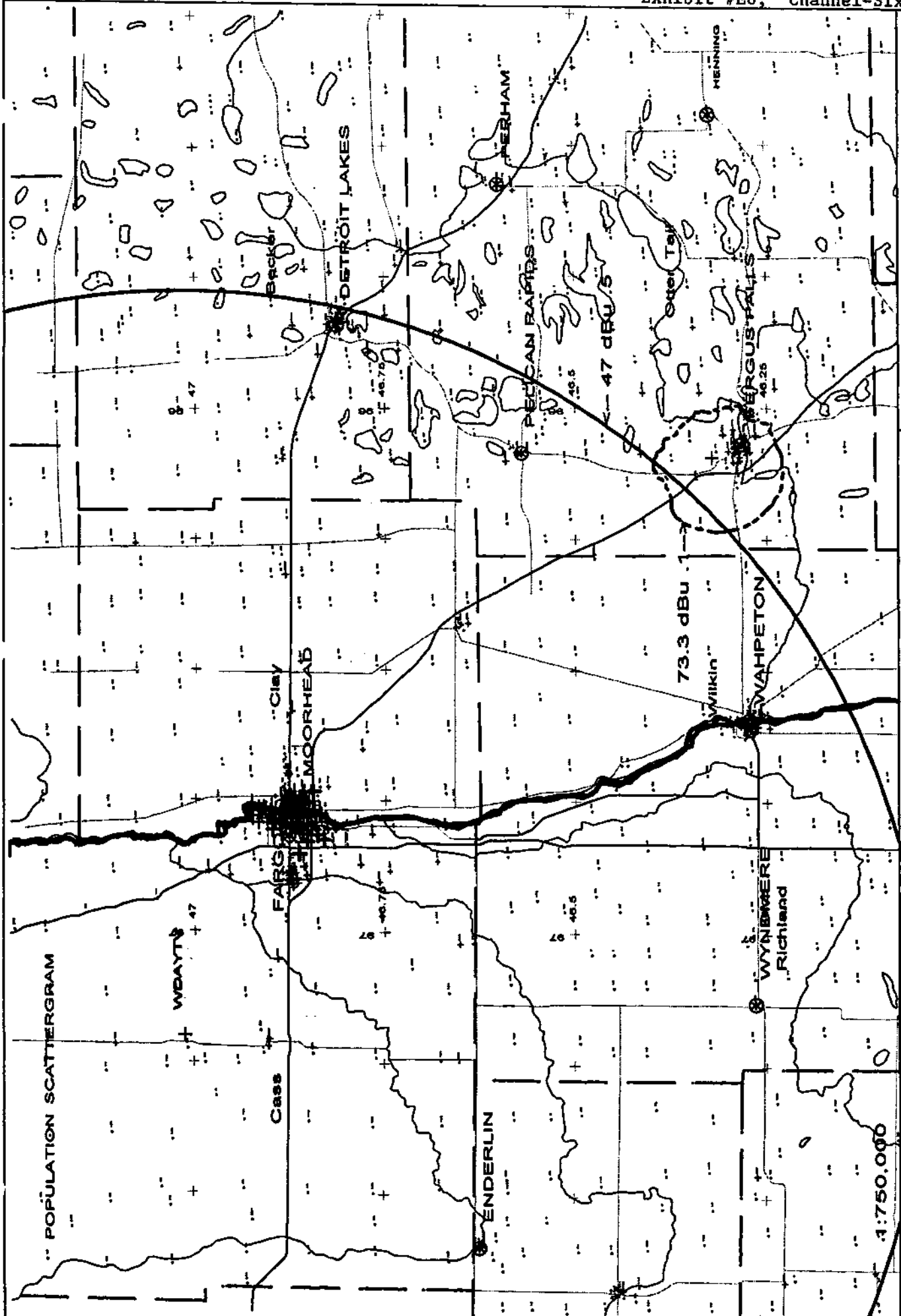
KUMM BLED830509AB  
Channel = 209A  
Max ERP = 0.225 kW  
RCAMSL = 364 M  
N. Lat = 45 35 20  
W. Lng = 95 54 22

NEW  
Channel = 209A  
Max ERP = 2.7 kW  
RCAMSL = 445 M  
N. Lat = 461916  
W. Lng = 960536

Protected  
60 dBu

Interfering  
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
345.0	000.2250	0006.5	006.9	170.3	002.7000	0078.0	075.8	38.4
16.0	000.2250	0005.7	006.9	170.2	002.7000	0077.9	075.8	38.4
347.0	000.2250	0005.2	006.9	170.1	002.7000	0077.8	075.8	38.4
348.0	000.2250	0004.9	006.9	170.0	002.7000	0077.7	075.8	38.4
349.0	000.2250	0004.7	006.9	169.9	002.7000	0077.6	075.8	38.4
350.0	000.2250	0004.9	006.9	169.9	002.7000	0077.5	075.8	38.4
351.0	000.2250	0005.3	006.9	169.8	002.7000	0077.4	075.8	38.4
352.0	000.2250	0005.9	006.9	169.7	002.7000	0077.3	075.8	38.3
353.0	000.2250	0006.0	006.9	169.6	002.7000	0077.2	075.8	38.3
354.0	000.2250	0005.9	006.9	169.5	002.7000	0077.1	075.8	38.3
355.0	000.2250	0006.2	006.9	169.4	002.7000	0077.0	075.8	38.3
5.0	000.2250	0006.9	006.9	169.3	002.7000	0076.9	075.8	38.3
357.0	000.2250	0008.1	006.9	169.2	002.7000	0076.8	075.8	38.3
358.0	000.2250	0009.5	006.9	169.1	002.7000	0076.7	075.8	38.3
359.0	000.2250	0010.8	006.9	169.0	002.7000	0076.6	075.9	38.3
000.0	000.2250	0011.9	006.9	168.9	002.7000	0076.5	075.9	38.3
001.0	000.2250	0012.9	006.9	168.9	002.7000	0076.4	075.9	38.3
002.0	000.2250	0013.6	006.9	168.8	002.7000	0076.3	075.9	38.2
003.0	000.2250	0014.5	006.9	168.7	002.7000	0076.2	076.0	38.2
004.0	000.2250	0015.5	006.9	168.6	002.7000	0076.0	076.0	38.2
005.0	000.2250	0016.2	006.9	168.5	002.7000	0075.9	076.0	38.2
006.0	000.2250	0016.8	006.9	168.4	002.7000	0075.8	076.1	38.2
007.0	000.2250	0017.3	006.9	168.3	002.7000	0075.7	076.1	38.2
008.0	000.2250	0018.3	006.9	168.2	002.7000	0075.7	076.1	38.2
009.0	000.2250	0019.7	006.9	168.2	002.7000	0075.6	076.2	38.1
010.0	000.2250	0020.9	006.9	168.1	002.7000	0075.5	076.2	38.1
011.0	000.2250	0022.0	006.9	168.0	002.7000	0075.5	076.3	38.1
012.0	000.2250	0022.7	006.9	167.9	002.7000	0075.4	076.3	38.1
013.0	000.2250	0023.6	006.9	167.8	002.7000	0075.4	076.4	38.1
014.0	000.2250	0023.6	006.9	167.7	002.7000	0075.3	076.4	38.1
015.0	000.2250	0023.1	006.9	167.7	002.7000	0075.3	076.5	38.0



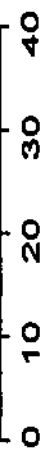
Fergus Falls Ch-6 Study

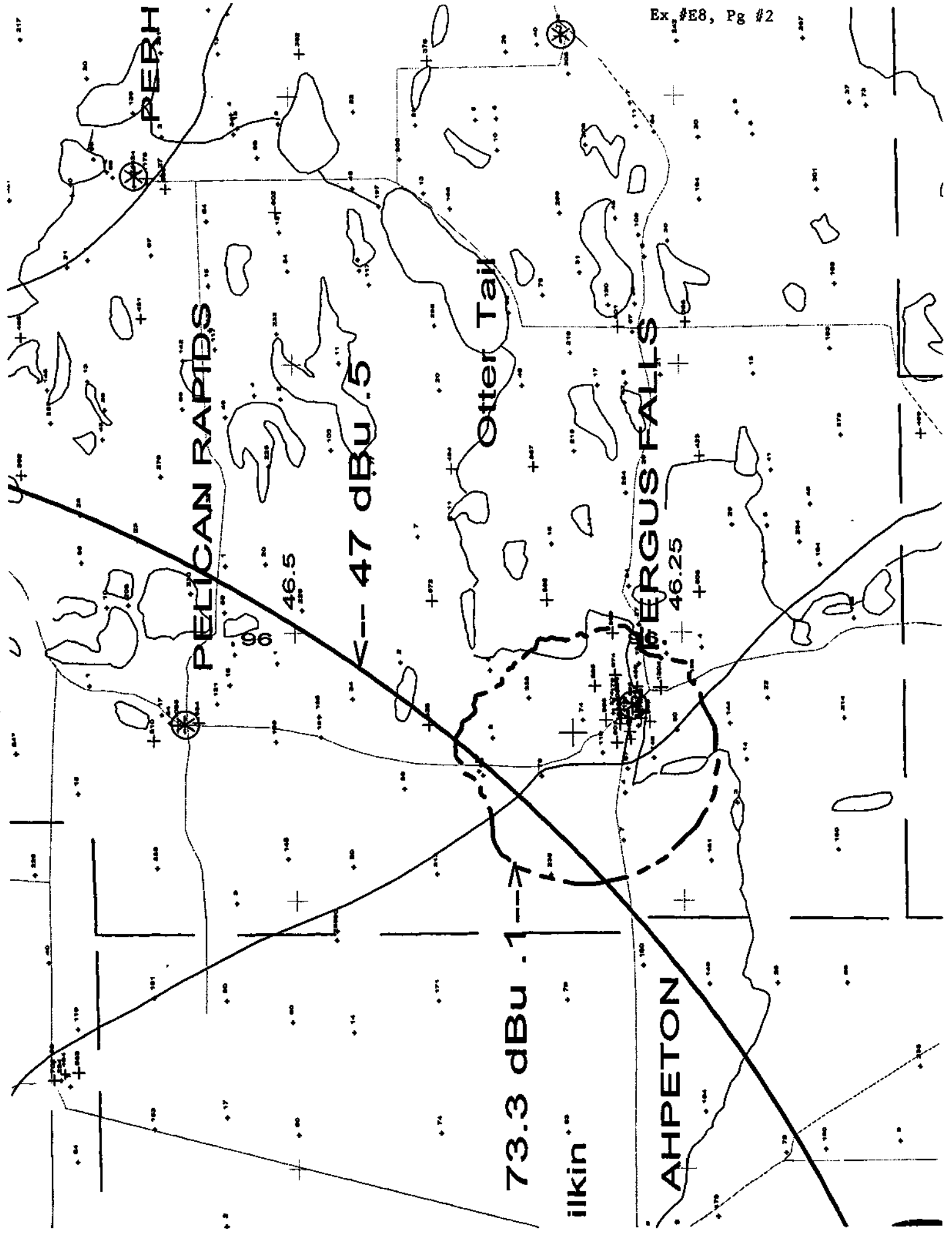
D Vernier - 11/98

NEW 209A 2.7675 KW STUDY ERP 445M AMSL

Minnesota Public Radio

Scale in km





Doug Vernier, Telecommunications Consultants  
 Minnesota Public Radio - CH 6 Interference Contour

ERP = 2.7 kW

Channel = 209

Azimuth Deg.T.	Ave. Elev. 3 to 16 km Meters AMSL	Effective Antenna Height Meters AAT	ERP (dBk)	F(50-10) Distance to 73.3 dBu Contour km
0	389.2	55.8	4.314	8.20
10	399.2	45.8	4.314	7.34
20	397.8	47.2	4.314	7.45
30	409.7	35.3	4.314	6.43
40	408.4	36.6	4.314	6.54
50	409.3	35.7	4.314	6.46
60	408.5	36.5	4.314	6.53
70	402.1	42.9	4.314	7.08
80	404.7	40.3	4.314	6.86
90	403.5	41.5	4.314	6.96
100	400.5	44.5	4.314	7.23
110	391.5	53.5	4.314	8.00
120	386.4	58.6	4.314	8.42
130	395.2	49.8	4.314	7.69
140	387.7	57.3	4.314	8.32
150	366.7	78.3	4.314	9.71
160	371.3	73.7	4.314	9.42
170	367.3	77.7	4.314	9.67
180	357.8	87.2	4.314	10.23
190	352.6	92.4	4.314	10.51
200	345.7	99.3	4.314	10.88
210	342.7	102.3	4.314	11.03
220	342.6	102.4	4.314	11.04
230	343.2	101.8	4.314	11.00
240	341.9	103.1	4.314	11.07
250	342.4	102.6	4.314	11.05
260	344.6	100.4	4.314	10.93
270	346.8	98.2	4.314	10.82
280	351.7	93.3	4.314	10.56
290	353.4	91.6	4.314	10.47
300	358.7	86.3	4.314	10.17
310	376.7	68.3	4.314	9.08
320	390.9	54.1	4.314	8.05
330	394.7	50.3	4.314	7.73
340	386.1	58.9	4.314	8.44
350	384.1	60.9	4.314	8.59
Ave. =	376.5 M	68.5 M		

Antenna Radiation Center AMSL =445 M  
 NGDC 03 Arc Sec.

Geographic Coordinates:

N. Lat. 46 19 16

W. Lng. 96 05 36

Doug Vernier, Telecommunications Consultants  
 WDAYTV, FORUM COMMUNICATIONS COMPANY, BMLCT624

ERP = 100 kW  
 Channel = 06Z

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	297.7	345.3	20.000	106.95
10	294.9	348.1	20.000	107.15
20	292.4	350.6	20.000	107.33
30	290.7	352.3	20.000	107.46
40	290.3	352.7	20.000	107.49
50	287.2	355.8	20.000	107.71
60	285.4	357.6	20.000	107.85
70	283.4	359.6	20.000	108.00
80	282.0	361.0	20.000	108.11
90	281.1	361.9	20.000	108.17
100	280.2	362.8	20.000	108.24
110	279.4	363.6	20.000	108.31
120	279.2	363.8	20.000	108.32
130	279.2	363.8	20.000	108.32
140	279.8	363.2	20.000	108.27
150	281.0	362.0	20.000	108.18
160	281.8	361.2	20.000	108.12
170	282.8	360.2	20.000	108.04
180	284.1	358.9	20.000	107.95
190	285.3	357.7	20.000	107.86
200	286.7	356.3	20.000	107.75
210	288.9	354.1	20.000	107.59
220	291.4	351.6	20.000	107.41
230	294.1	348.9	20.000	107.21
240	298.3	344.7	20.000	106.91
250	303.1	339.9	20.000	106.56
260	307.8	335.2	20.000	106.23
270	308.1	334.9	20.000	106.21
280	308.8	334.2	20.000	106.16
290	308.7	334.3	20.000	106.17
300	307.5	335.5	20.000	106.25
310	307.8	335.2	20.000	106.23
320	307.9	335.1	20.000	106.22
330	307.0	336.0	20.000	106.29
340	304.6	338.4	20.000	106.46
350	301.0	342.0	20.000	106.71

Ave. = 292.5 M 350.5 M

Antenna Radiation Center AMSL = 643 M  
 NGDC 03 Arc Sec.

Geographic Coordinates:

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

## EXHIBIT # E9

### R.F. RADIATION COMPLIANCE STATEMENT

Channel 209 – 2.7 kW H & V  
Fergus Falls, Minnesota

November 1998

The proposed antenna will be energized such that it produces 2.7 kW effective radiated power, circularly polarized, from a center of radiation of 61 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, and then by applying a combination of the element and array pattern as defined in E.P.A. study PB85-245868 ("**Engineering Assessment of the Potential Impact of the Federal Radiation Protection Guidance on the AM, FM and TV Broadcast Services**") a total, head height, non-ionization radiation level of .259 microwatts per square centimeter was calculated. This calculation uses the Shively 6800 series element and array patterns as measured by the E.P.A. The calculated value amounts to only .12969 percent of the maximum for an uncontrolled area. (200 microwatts per centimeter maximum)

In another application, the applicant proposes to diplex another signal at 91.5 MHz into the same antenna. This proposed station will operate a total of 100 watts ERP. Using the same process as described above it can be calculated that the additional 100 watt signal will generate a total of .01 microwatts per square centimeter at head height which is only .0048 percent of the maximum allowed for a uncontrolled area. Consequently the total percentage of radio frequency emissions equals only .1344 (.12969 + .0048) percent of the FCC's maximum.

The applicant will protect workers on the tower by either reducing ERP or terminating transmission. An agreement is in effect with the business band radio licensees 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.

**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 <i>Thomas J Kigin</i>
Title Executive Vice President	Date 98.12.01
Typed or Printed Name of Person Signing Thomas J Kigin	

**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).**



WILEY, REIN & FIELDING

1776 K STREET, N.W.  
WASHINGTON, D.C. 20006  
(202) 429-7000

**COPY  
RECEIVED**

DEC 8 - 1998

FEDERAL COMMUNICATIONS COMMISSION  
OFFICE OF THE SECRETARY

FACSIMILE  
(202) 429-7049

WRITER'S DIRECT DIAL NUMBER

December 8, 1998

(202) 429-7351

**By Hand**

Magalie R. Salas, Secretary  
Federal Communications Commission  
1919 M Street, N.W.  
Room 222  
Washington, D.C. 20554

Re: FCC Form 340  
Application for New Noncommercial Educational FM Station  
Fergus Falls, Minnesota

Dear Ms. Salas:

Transmitted herewith, in triplicate, on behalf of Minnesota Public Radio, is an application on FCC Form 340 for a construction permit for a new, noncommercial educational FM station on Channel 209A at Fergus Falls, 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

Enclosures

cc: Mitzi T Gramling