

FCC Form 340
Application for a Construction Permit for
a new Noncommercial Educational FM Station
In Grand Marais, MN

Minnesota Public Radio

Exhibit 3, Page 1

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

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EXHIBIT 3, Page 4

PENDING APPLICATIONS

WGGL (FM), Houghton, MI (FCC File No. BMLD-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)

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EXHIBIT 4, Page 1

Refers to Section IV

Attached, please find 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 MPR Regional Network news and information service—currently broadcast over KNCM (FM) in Appleton, MN, KNBJ (FM) in Bemidji, MN, KLNI (FM) in Decorah, IA, WSCN (FM) in Cloquet, MN, KXLC (FM) in La Crescent, MN, KNOW (FM) in Minneapolis/Saint Paul, MN, KCCD (FM) in Moorhead/Fargo, MN, KZSE (FM) in Rochester, MN, KNSR (FM) in Collegeville, MN, KNGA (FM) in Saint Peter/Mankato, MN, WIRN (FM) in Virginia, MN, KSNW (FM) in Worthington, MN and KNTN (MN) in Thief River Falls, MN — for the month of December, 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 MPR website at www.mpr.org.

The schedule contains a stunning array of 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, and by the MPR network staff.

A schedule of sources for each program is also attached.

PROGRAMMING POLICIES AND OBJECTIVES

1. To provide the best possible information services suitable for a public educational broadcasting station, including a strong schedule of national and international news and local information.
2. To provide in-depth analysis and context for national and international news, while providing the context necessary for local understanding of those stories..
3. 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.
4. To develop strong identification with the region, through feedback techniques, research, outreach programs, remote broadcasts, call-in programs. etc.
5. To make the most efficient use of available network and syndication material.

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Refers to Section IV

6. To provide regular information at set times in network programs as part of the service for the audience.
7. To create a forum of ideas, opinion and talent from across the region and nation.
8. To open up access to radio as a medium of communication for ideas among people of the region, leading to more informed decision making.
9. To discuss the many aspects of the daily lives of residents in the region that are not newsworthy in the strictest of journalistic terms, but nevertheless are relevant to the understanding and appreciation of life itself.
10. To present established and new artists, performers, musicians and writers and their works.
11. To serve the general interests of the audience with basic regional and national consumer information; local, regional, national and international news; and interregional exchange items; all well integrated into the body of the program service.
12. To reflect social and political trends in the region.
13. To provide relevant, thought-provoking and balanced news and information that listeners trust and value.
14. To enhance listeners' understanding of the world.
15. To deal with significant issues that have a long-term impact on people's lives.

Prepared by
Mitzi T Gramling

News & Information Schedule)))

KNOW 91.1fm Minneapolis/St. Paul

KNCM 88.5fm Appleton • KNBJ 91.3fm Bemidji/Grand Rapids • KLNI 88.7fm Decorah, IA • WSCN 100.5fm Duluth/Superior
 KCCD 90.3fm Fargo/Moorhead • KXLC 91.1fm La Crescent/La Crosse • KZSE 90.7fm Rochester • KNSR 88.9fm St. Cloud/Collegeville
 KNGA 91.5fm St. Peter/Mankato • KNTN 102.7fm Thief River Falls • WIRN 92.5fm Virginia/Hibbing
 KNSW 91.7fm Worthington/Marshall

5 AM	Weekdays	Saturday	Sunday	5 AM
3 AM	Morning Edition* <i>with Bob Potter in St. Paul and Bob Edwards in Washington, D.C.</i>	BBC World Service	BBC World Service	6 AM
7 AM		Weekend Edition* <i>with Maryann Sullivan in St. Paul and Scott Simon in Washington, D.C.</i>	Weekend Edition* <i>with Maryann Sullivan in St. Paul and Liane Hansen in Washington, D.C.</i>	7 AM
9 AM	Midmorning <i>with Katherine Lanpher</i>			Sound Money* <i>with Bob Potter</i>
10 AM		Midday <i>with Gary Eichten</i> <i>Noon Speeches, Features, Call-ins</i>	Fresh Air Weekend <i>with Terry Gross</i>	
11 AM	Car Talk <i>with Tom and Ray Magliozzi</i>			Car Talk <i>with Tom and Ray Magliozzi</i>
NOON		The Savvy Traveler <i>with Rudy Maxa</i>	A Prairie Home Companion* <i>with Garrison Keillor</i>	
1 PM	On Your Health <i>with Zorba Paster</i>			The Splendid Table <i>with Lynne Rossetto Kasper</i>
2 PM		Talk of the Nation <i>with Ray Suarez</i>	Only a Game <i>with Bill Littlefield</i>	
3 PM	All Things Considered* <i>with Lorna Benson in St. Paul, and Linda Wertheimer, Noah Adams and Robert Siegel in Washington, D.C.</i>			All Things Considered
4 PM		A Prairie Home Companion* <i>with Garrison Keillor</i>	Whad'Ya Know? <i>with Michael Feldman</i>	
5 PM	Marketplace with David Brancaccio			All Things Considered*
6 PM		The World	Sound Money* <i>with Bob Potter</i>	
7 PM	This American Life <i>with Ira Glass</i>			The Savvy Traveler <i>with Rudy Maxa</i>
8 PM		Fresh Air with Terry Gross	The Splendid Table <i>with Lynne Rossetto Kasper</i>	
9 PM	Midday			Wait, Wait...Don't Tell Me! <i>with Peter Sagal</i>
10 PM		As It Happens <i>with Mary Lou Finlay and Barbara Budd</i>	This American Life <i>with Ira Glass</i>	
11 PM	BBC Outlook			BBC World Service
12 AM		BBC World Service	BBC World Service	
1 AM	BBC World Service			BBC World Service
2 AM		BBC World Service	BBC World Service	
3 AM	BBC World Service			BBC World Service
4 AM		BBC World Service	BBC World Service	
5 AM	BBC World Service			BBC World Service
5 AM		BBC World Service	BBC World Service	

KNOW 91.1fm Minneapolis/St. Paul broadcasts a mix of programs selected from both the classical music and news sides, as well as other programs. Broadcasts are heard on the hour, unless otherwise scheduled. Call MPR's Member-Listener Services (1-800-236-7123) for a copy of KNOW's schedule.

subject to change. Local station schedules may vary.



Schedule of Program Sources

National Public Radio

The following programs are produced and distributed by NPR in Washington, DC

Morning Edition and All Things Considered with regional segments from Minnesota Public Radio's News and Information Station staff.

Talk of the Nation, Weekend Edition, Weekend All Things Considered,

The following programs are distributed by National Public Radio and produced by the stations listed

Fresh Air and Fresh Air Weekend from WHYY, Philadelphia
Car Talk from WBUR, Boston
Only a Game from WBUR, Boston
Selected Shorts from WNYC, New York

Public Radio International

The following programs are distributed by Public Radio International and produced by the stations listed

Marketplace from KUSC, Los Angeles
The World from WGBH, Boston and the British Broadcasting Corporation, London
As it Happens from the Canadian Broadcasting Corporation, Toronto, Ontario
The BBC World Service from the British Broadcasting Corporation, London.
The Savvy Traveler from KUSC, Los Angeles
On Your Health from WHA/Wisconsin Public Radio, Madison, WI
This American Life from WBEZ, Chicago
Whad'Ya Know from WHA/Wisconsin Public Radio, Madison, WI
This Morning from the Canadian Broadcasting Corporation, Toronto, Ontario

The following programs are produced by Minnesota Public Radio and distributed by Public Radio International

Sound Money from MPR
The Splendid Table from MPR and Tom Voegeli Productions
A Prairie Home Companion from MPR
Future Tense from MPR

The following programs are produced by Minnesota Public Radio and only carried on the stations of MPR.

Midmorning from MPR

Midday from MPR

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 Yes No
 filing window?
 If Yes, specify closing date: _____

Purpose of Application: (check appropriate boxes)

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

3.2 km N. of Grand Marais, Cook County, Minnesota

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

Latitude	47 °	46 ·	13 -	Longitude	90 °	21 ·	06 -
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Section V-B - FM BROADCAST ENGINEERING DATA (Page 2)

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

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

1024265

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 204 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	Longitude
----------	-----------

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.
N/A

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>Devils Track Municipal</u>	<u>6.7</u>	<u>341.9</u>
(b)	_____	_____	_____

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

- (1) Of the site above mean sea level; _____ 457 _____ meters
- (2) Of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and _____ 91 _____ meters
- (3) Of the top of supporting structure above mean sea level [(a)(1) + (a)(2)]. _____ 549* _____ meters

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

- (1) Above ground; _____ 82 _____ meters (H)
- _____ 82 _____ meters (V)
- (2) Above mean sea level [(a)(1) + (b)(1)]; and _____ 540* _____ meters (H)
- _____ 540* _____ meters (V)
- (3) Above average terrain. _____ 187 _____ meters (H)
- _____ 187 _____ meters (V)

*Figure from Vertical Sketch to avoid rounding error.

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 _____ 6 _____ kw (H*) _____ 6 _____ 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

*Polarization

_____ kw (H*) _____ kw (V*)

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.

Land Area 928 sq. km. Population 2,632

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	<u>N/A</u>	sq. km.
Loss Area	<u> </u>	sq. km.
Present Area	<u> </u>	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).

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

Exhibit No.
N/A

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

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

File No. _____

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

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

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

(Source: _____)

- Linearly interpolated 3-second database
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

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

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

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

Exhibit No.
E7

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

Exhibit No.
E7

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

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

Exhibit No.
E7

28. (a) Is the proposed operation on Channel 218, 219 or 220? Yes No
- (b) If the answer to (a) is Yes, does the proposed operation satisfy the requirements of 47 C.F.R. Section 73.207? Yes No N/A

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

Exhibit No.
N/A

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

Exhibit No.
N/A

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

(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.
N/A

(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 <i>Douglas L. Vernier</i>	Address (include ZIP Code) 1600 Picturesque Dr, Cedar Falls, IA 50613
Date November 24, 1998	Telephone No. (include Area Code) 319 266-8402