

2. Applicant is:		
<input type="radio"/> an individual	<input type="radio"/> a general partnership	<input type="radio"/> a for-profit corporation
<input type="radio"/> a limited partnership	<input checked="" type="radio"/> a not-for-profit corporation	<input type="radio"/> a limited liability company (LLC/LC)
<input type="radio"/> other		
a. If "other", describe nature of applicant in an Exhibit.		[Exhibit 2]
3. a. Applicant certifies that it is not the licensee or permittee of the commercial primary station being rebroadcast and that neither it nor any parties to the application have any interest in or connection with the commercial primary station being rebroadcast? See 47 C.F.R. Section 74.1232(d).		<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A See Explanation in [Exhibit 3]
b. Applicant certifies that the coverage contour of the translator station will not extend beyond the protected contour of the commercial primary station being rebroadcast.		<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A See Explanation in [Exhibit 4]
NOTE: If No to a. and b., and no waiver has been requested in an Exhibit, this application is unacceptable for filing. See 47 C.F.R. Section 74.1232(d). If No to a. and Yes to b. applicant is prohibited from receiving any support, before or after construction, either directly or indirectly from the commercial primary station being rebroadcast or from any person or entity having any interest whatsoever, or any connection with the primary FM station. Interested and connected parties include group owners, corporate parents, shareholders, officers, directors, employees, general and limited partners, family members and business associates. See 47 C.F.R. Section 74.1232(e).		
4. The applicant, if for a commercial FM translator station with a coverage contour extending beyond the protected contour of the commercial primary station being rebroadcast, certifies that it has not received any support, before or after constructing, directly or indirectly, from the licensee/permittee of the primary station or any person with an interest in or connection with the licensee or permittee of the primary station, except for technical assistance as provided for under 47 C.F.R. Section 74.1232(e).		<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A See Explanation in [Exhibit 5]
5. For applicants proposing translator rebroadcasts that are not the licensee of the primary station, the applicant certifies that written authority has been obtained from the licensee of the station whose programs are to be retransmitted. If No, this application is unacceptable for filing.		<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
6. Character Issues. Applicant certifies that neither applicant nor any party to the application has or has had any interest in or connection with: a. any broadcast application in any proceeding where character issues were left unresolved or were resolved adversely against the applicant or party to the application; or b. any pending broadcast application in which character issues have been raised.		<input type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 6]
7. Adverse Findings. Applicant certifies that, with respect to the applicant, any party to the application, and any non-party equity owner in the applicant, no adverse finding has been made, nor has an adverse final action been taken by any court or administrative body in a civil or criminal proceeding brought under the provisions of any law related to the following: any felony; mass media-related antitrust or unfair competition; fraudulent statements to another governmental unit; or discrimination. If the answer is "No," 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 date of filing; and (ii) the disposition of the previously reported matter.		<input type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 7]
8. Alien Ownership and Control. Applicant certifies that it complies with the provisions of Section 310 of the Communications Act of 1934, as amended, relating to interests of aliens and foreign governments.		<input type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 8]
9. Program Service Certification. Applicant certifies that it is cognizant of and will comply with its obligations as a Commission licensee to present a program service responsive to the issues of public concern facing the station's community of license and service area.		<input checked="" type="radio"/> Yes <input type="radio"/> No

10. Local Public Notice. Applicant certifies compliance with the public notice requirements of 47 C.F.R. Section 73.3580.	<input checked="" type="radio"/> Yes <input type="radio"/> No
11. Auction Authorization. If the application is being submitted to obtain a construction permit for which the applicant was the winning bidder in an auction, then the applicant certifies, pursuant to 47 C.F.R. Section 73.5005(a), that it has attached an exhibit containing the information required by 47 C.F.R. Sections 1.2107(d), 1.2110(i), 1.2112(a) and 1.2112(b), if applicable. An exhibit is required unless this question is inapplicable.	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A See Explanation in [Exhibit 9]
12. Anti-Drug Abuse Act Certification. Applicant certifies that neither applicant nor any party to the application is subject to denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862.	<input checked="" type="radio"/> Yes <input type="radio"/> No
13. Equal Employment Opportunity (EEO). If the applicant proposes to employ five or more full-time employees, applicant certifies that it is filing simultaneously with this application a Model EEO Program Report on FCC Form 396-A.	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A

I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith. I acknowledge that all certifications and attached Exhibits are considered material representations. I hereby waive any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and request an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

Typed or Printed Name of Person Signing THOMAS J KIGIN	Typed or Printed Title of Person Signing EXECUTIVE VICE PRESIDENT
Signature	Date 09/23/2009

SECTION III - PREPARER'S CERTIFICATION

I certify that I have prepared Section III (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name MICHAEL HENDRICKSON	Relationship to Applicant (e.g., Consulting Engineer) RADIO NETWORK ENGINEERING MANAGER	
Signature	Date 09/23/2009	
Mailing Address MINNESOTA PUBLIC RADIO 480 CEDAR STREET		
City ST. PAUL	State or Country (if foreign address) MN	Zip Code 55101 -
Telephone Number (include area code) 6512901328	E-Mail Address (if available) MHENDRICKSON@MPR.ORG	

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

Section III-A - Engineering

TECHNICAL SPECIFICATIONS

Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

TECH BOX

1. Channel: 286										
2. Primary Station:										
<table border="1"> <tr> <td data-bbox="142 1757 415 1787">Facility Identifier</td> <td data-bbox="415 1757 620 1787">Call Sign</td> <td data-bbox="620 1757 1029 1787">City</td> <td data-bbox="1029 1757 1234 1787">State</td> <td data-bbox="1234 1757 1495 1787">Channel</td> </tr> <tr> <td data-bbox="142 1787 415 1816">42911</td> <td data-bbox="415 1787 620 1816">KSNJ</td> <td data-bbox="620 1787 1029 1816">MINNEAPOLIS</td> <td data-bbox="1029 1787 1234 1816">MN</td> <td data-bbox="1234 1787 1495 1816">258</td> </tr> </table>	Facility Identifier	Call Sign	City	State	Channel	42911	KSNJ	MINNEAPOLIS	MN	258
Facility Identifier	Call Sign	City	State	Channel						
42911	KSNJ	MINNEAPOLIS	MN	258						
3. Delivery Method (Select One): <input checked="" type="radio"/> Off-air <input type="radio"/> Microwave <input type="radio"/> Satellite <input type="radio"/> Via <input type="radio"/> Other										
4. Antenna Location Coordinates: (NAD 27) Latitude:										

Degrees 44 Minutes 8 Seconds 31 North South

Longitude:
 Degrees 94 Minutes 0 Seconds 5 West East

5. Antenna Structure Registration Number: 1256999
 Not Applicable Notification filed with FAA

6. Antenna Location Site Elevation Above Mean Sea Level: 303 meters

7. Overall Tower Height Above Ground Level: 126 meters

8. Height of Radiation Center Above Ground Level: 61 meters(H) 61 meters(V)

9. Effective Radiated Power: 0.01 kW(H) 0.01 kW(V)

10. Transmitting Antenna:
 Before selecting Directional "Off-the-Shelf", refer to "Search for Antenna Information" under [CDBS Public Access](http://fjallfoss.fcc.gov/prod/cdbs/pubacc/prod/cdbs_pa.htm) (http://fjallfoss.fcc.gov/prod/cdbs/pubacc/prod/cdbs_pa.htm). Make sure that the Standard Pattern is marked Yes and that the relative field values shown match your values. Enter the Manufacturer (Make) and Model exactly as displayed in the Antenna Search.

Nondirectional Directional "Off-the-shelf" Directional composite

Manufacturer ERI Model 100A-1

Rotation:degrees No Rotation

Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value
0		10		20		30		40		50	
60		70		80		90		100		110	
120		130		140		150		160		170	
180		190		200		210		220		230	
240		250		260		270		280		290	
300		310		320		330		340		350	
Additional Azimuths											

[Relative Field Polar Plot](#)

11. **For FM Boosters and Fill-in translators only.** Applicant certifies that the proposal is for a fill-in translator or booster station entirely within the primary station's protected contour. Yes No
 N/A
 See Explanation in [Exhibit 10];

12. **Interference.** The proposed facility complies with all of the following applicable rule sections. Check all that apply: Yes No
 See Explanation in [Exhibit 11]
Overlap Requirements.
 a) 47 C.F.R. Section 74.1204 [Exhibit 12]
Exhibit Required.
Television Channel 6 Protection.
 b) 47 C.F.R. Section 74.1205 with respect to station(s) [Exhibit 13]
Exhibit Required.

13. **Unattended operation.** Applicant certifies that unattended operation is not proposed, or if this application proposes unattended operation, the applicant certifies that it will comply with the requirements of 47 C.F.R. Section 74.1234. Yes No
 See Explanation in [Exhibit 14]

14. **Multiple Translators.** Applicant certifies that it does not have any interest in an application or an authorization for an FM translator station that serves substantially the same area and rebroadcasts the same signal as the proposed FM translator station. Yes No
 See Explanation in [Exhibit 15]

15. **Environmental Protection Act.** Applicant certifies that the proposed facility is excluded from environmental processing under 47. C.F.R. Section 1.1306 (i.e., the facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments). Unless the applicant can determine compliance through the use of the RF worksheets in Appendix A, an **Exhibit is required.** Yes No
 See Explanation in [Exhibit 16]

By checking "Yes" above, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.

PREPARER'S CERTIFICATION ON PAGE 4 MUST BE COMPLETED AND SIGNED.

Section IV -- Noncommercial Educational Point System Factors - -New and Major Change Applications on Reserved Channels Only (used to select among mutually exclusive applications for new stations and major modifications) **NOTE:** Applicants will not received any additional points for amendments made after the close of the application filing window.

Preliminary Matter: Does this application provide fill-in service only?		<input type="radio"/> Yes <input type="radio"/> No
1.	Established Local Applicant: Applicant certifies that for at least the 24 months immediately prior to application, and continuing through the present, it qualifies as a local applicant pursuant to 47 C.F.R. Section 73.7000, that its governing documents require that such localism be maintained, and that it has placed documentation of its qualifications as an established local applicant in a local public inspection file and has submitted to the Commission copies of the documentation.	<input type="radio"/> Yes <input type="radio"/> No
2.	Diversity of Ownership: Applicant certifies that the principal community (city grade) contour of the proposed station does not overlap the principal community contour of any other authorized radio station (including AM, FM, and non-fill-in FM translator stations, commercial or noncommercial) in which any party to the application has an attributable interest as defined in 47 C.F.R. Section 73.3555, that its governing documents require that such diversity qualification in a local public inspection file and has submitted to the Commission copies of the documentation.	<input type="radio"/> Yes <input type="radio"/> No
3.	State-wide Network: Applicant certifies that (a) it has NOT claimed a credit for diversity of ownership above; (b) it is one of the three specific types of organizations described in 47 C.F.R. Section 73.7003(b)(3); and (c) it has placed documentation of its qualifications in a local public inspection file and has submitted to the Commission copies of the documentation.	<input type="radio"/> Yes <input type="radio"/> No
4.	Technical Parameters: Applicant certifies that the numbers in the boxes below accurately reflect the new (increased) area and population that its proposal would serve with a 60 dBu signal measured in accordance with the standard predicted contours in 47 C.F.R. Section 73.713(c) and that it has documented the basis for its calculations in the local public inspection file and has submitted copies to the Commission. Major modification applicants should include the area of proposed increase only (exclude the station's existing service area). (Points, if any, will be determined by FCC)	<input type="radio"/> Yes <input type="radio"/> No
	New (increased) area served in square kilometers (excluding areas of water):	
	Population served based on the most recent census block data from the United States Bureau of Census using the centroid method:	
Tie Breakers		
5.	Existing Authorizations. a. By placing a number in the box, the applicant certifies that it and any persons and organizations with attributable interests in the applicant pursuant to 47 C.F.R. Section 73.3555 have, as of the date filing, existing authorizations for the following number of relevant broadcast stations. FM translator applicants should count all attributable full service radio stations, AM and FM, commercial and noncommercial and FM translator stations other than fill-in stations. (number of attributable commercial and non-commercial licenses and construction permits) b. (Fill-in Applicants Only.) By placing a number in the box, the applicant certifies that, in addition to the station identified in 5(a), it and any persons and organizations with attributable interests in the applicant pursuant to 47 C.F.R. Section 73.3555 have, as of the date filing, existing authorizations for the following number of FM translators.	
6.	Pending Applications. a. By placing a number in the box, the applicant certifies that it and any persons and organizations with attributable interests in the applicant pursuant to 47 C.F.R. Section 73.3555 have, as of the date filing, pending applications for new or major changes to the following number of relevant broadcast stations, AM and FM, commercial and non-commercial and FM translator stations other than fill-in stations. (number of attributable commercial and non-commercial applications) b. (Fill-in Applicants Only.) By placing a number in the box, the applicant certifies that, in addition to the station identified in 5(a), it and any persons and organizations with attributable interests in the applicant pursuant to 47 C.F.R. Section 73.3555 have, as of the date of filing, existing authorizations for the following number of FM translators.	

Section VI -- Certification

I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith. I acknowledge that all certifications and attached Exhibits are considered material representations. I hereby waive any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and request an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

Typed or Printed Name of Person Signing THOMAS J KIGIN	Typed or Printed Title of Person Signing EXECUTIVE VICE PRESIDENT
Signature	Date 09/23/2009

Exhibits

Attachment 12

Description
Exhibit 12

Exhibit #12
Overlap Requirements

Minnesota Public Radio
K286AW

Minnesota Public Radio (MPR) proposes to move translator K286AW from its present licensed location to the location proposed in this application. This exhibit shows that the proposed location meets all overlap requirements.

A topographical map is attached showing the proposed location. The location is an existing tower on the campus of Minnesota State University at Mankato. The tower is located away from all occupied buildings and structures.

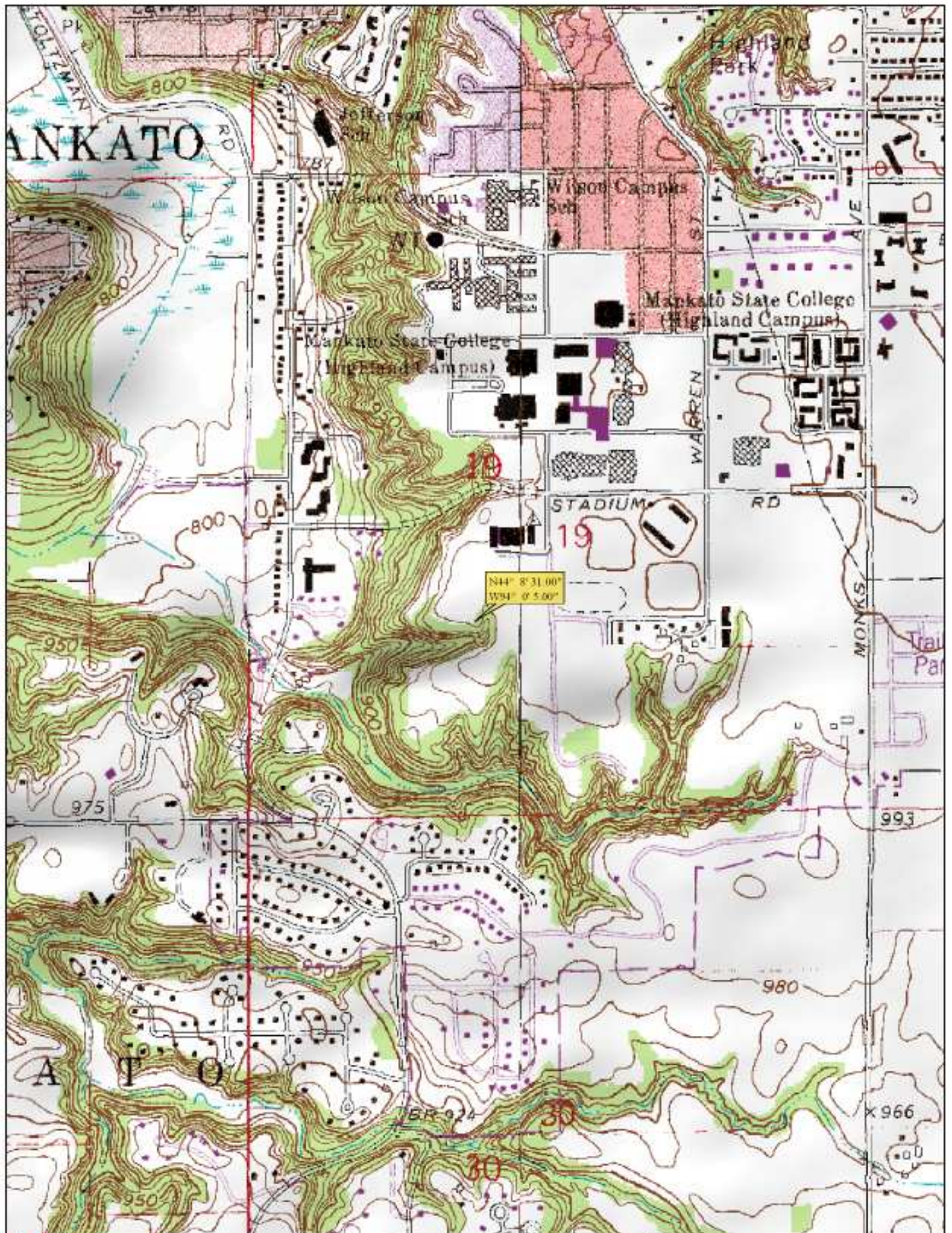
As part of this exhibit a channel study for K286AW at the proposed location is attached. This channel study shows the proposed location meets overlap requirements. The study does show that the proposed site is entirely within the contour of radio KRBI-FM and KJLY, however the site does meet the interference requirement of the rules. An interference map is attached.

The received signal of KRBI-FM at the proposed site is 72.3 dBu. The interference contour generated by K286AW is 112.3 dBu. This contour extends 53.6 meters from the transmit antenna of K286AW.

The received signal of KJLY is 74.6 dBu. The interference contour is 114.6 dBu. This contour extends 41.1 meters from the K286AW transmit antenna.

Since the transmit antenna is mounted 61 meters above ground the interference contour does not at any point touch the ground. There are also no buildings or structures within 53.6 meters of the antenna.

The proposed site does meet the requirements regarding overlaps.



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www.delorme.com

Scale 1 : 12,800
 1" = 1070 ft



Minnesota Public Radio

K286AW

REFERENCE
44 08 31.0 N.
94 00 05.0 W.

CH# 286D - 105.1 MHz, Pwr= 0.01 kw, HAAT= 0.0 M, COR= 236 M
Average Protected F(50-50)= 3.15 km
Omni-directional

DISPLAY DATES
DATA 09-22-09
SEARCH 09-22-09

CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
283C2 Blue Earth	KJLY	LIC MN	_CX	189.0 9.0	26.03 BLH20090709ACP	43 54 38.0 94 03 09.0	50.000 150	6.1 461	53.1 Minn-iowa Christian Broadc	16.78	-27.31*
288C3 St. Peter	KRBI-FM	LIC MN	ZC_	6.6 186.6	20.85 BLH20000829AGN	44 19 42.0 93 58 16.0	25.000 61	4.1 353	39.7 Three Eagles Communication	13.56	-19.07*
286D Mankato	K286AW	LIC MN	_V_	347.3 167.3	4.84 BLFT20071211ACK	44 11 04.0 94 00 53.0	0.010	10.2 236	3.2 Minnesota Public Radio	-8.47*	-8.47
286A Lakeville	WGVX	LIC MN	NCN	47.1 227.7	91.96 BLH19960507KA	44 42 05.0 93 09 02.0	2.600 152	80.0 440	26.9 Radio License Holding Iii,	8.82	54.91
286C2 Tracy	KARL	LIC MN	NCX	278.5 97.1	150.83 BMLH20080813ADU	44 19 32.0 95 52 19.0	45.000 153	138.7 594	54.2 Kmh1 Broadcasting Company	8.93	86.45

Terrain database is NED 03 SEC Distance + R = 73.215 or FCC Spacings in KM, Distance + M = Margin in KM
Contour distances are on direct line to and from reference station. Reference zone = 2. With 3rd Adj Channels.
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
"*"affixed to 'IN' or 'OUT' values = site inside protected contour.
"<" = Contour overlap

HOW TO READ THE FM COMPUTER PRINT-OUT

Translator Reference Station

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. Contour distances are in kilometers and are predicted 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.

All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket 80-90. The column labeled "** OUT *" shows the greatest distance in kilometers of overlap (or smallest distance of clearance) between the reference station's interference contour and the database station's protected contour. Negative distance figures in this column indicate outgoing contour overlap. Since translators are able to receive interference there is no "In" or incoming column in this report.

Listed antenna heights and power are the specific antenna heights and power from the FCC database.

Under the "AZI" column, the first row of numbers indicate the True North azimuths from the reference station toward the database stations, while the numbers in the second row indicate the reverse bearings from the database stations to the reference station. Bearings are calculated using spherical trigonometry.

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

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

The first three letters of the "TYPE" column identify the current FCC status of the stations. The fourth letter will be a "D" if the facility is directional. "Z" indicates a 73.215 directional. An "N" indicates it is a 73.215 station that operates with an omni-directional antenna. 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 or an "X" if the commission is not sure, otherwise it will be an "N" or left blank.

Minnesota Public Radio
K286AW

