

Federal Communications Commission Washington, D.C. 20554	Approved by OMB 3060-0405 (March 2001)	FOR FCC USE ONLY
FCC 349		
APPLICATION FOR AUTHORITY TO CONSTRUCT OR MAKE CHANGES IN AN FM TRANSLATOR OR FM BOOSTER STATION		FOR COMMISSION USE ONLY FILE NO. BMPFT - 20070402KQI
Read INSTRUCTIONS Before Filling Out Form		

Section I - General Information

1. Legal Name of the Applicant MINNESOTA PUBLIC RADIO						
Mailing Address 480 CEDAR STREET						
City ST. PAUL	State or Country (if foreign address) MN	ZIP Code 55101 -				
Telephone Number (include area code) 6512901259		E-Mail Address (if available) FCCFILING@MPR.ORG				
FCC Registration Number: 0002642510	Call Sign K280ET	Facility Identifier 152436				
2. Contact Representative (if other than Applicant) TODD M STANSBURY		Firm or Company Name WILEY REIN LLP				
Mailing Address 1776 K STREET NW SUITE 500						
City WASHINGTON	State or Country (if foreign address) DC	ZIP Code 20006 -				
Telephone Number (include area code) 2027194948		E-Mail Address (if available) TSTANSBURY@WILEYREIN.COM				
3. If this application has been submitted without a fee, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114): <input type="radio"/> Governmental Entity <input checked="" type="radio"/> Noncommercial Educational Licensee/Permittee <input type="radio"/> Other <input type="radio"/> N/A (Fee Required)						
4. Facility information: a. <input checked="" type="radio"/> FM Translator <input type="radio"/> FM Booster b. Community or communities to which the proposed facility will be licensed: <table border="1" style="margin-left: 20px; border-collapse: collapse; width: 150px;"> <tr> <td style="padding: 2px;">Community(ies)</td> <td style="padding: 2px;">State</td> </tr> <tr> <td style="padding: 2px;">OLIVIA</td> <td style="padding: 2px;">MN</td> </tr> </table>			Community(ies)	State	OLIVIA	MN
Community(ies)	State					
OLIVIA	MN					
5. Application Purpose <input type="radio"/> New station <input type="radio"/> Major Change in licensed facility <input type="radio"/> Minor Change in licensed facility <input type="radio"/> Major Modification of construction permit <input checked="" type="radio"/> Minor Modification of construction permit <input type="radio"/> Major Amendment to pending application <input type="radio"/> Minor Amendment to pending application a. File number of original construction permit: If an amendment, submit as an Exhibit a listing by Section and Question Number the portions of the pending application that are being revised.						
		BMPFT-20050622AAD [Exhibit 1]				

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

Section II - Legal

1. Certification. Applicant certifies that it has answered each question in this application based on its review of the application instructions and worksheets. Applicant further certifies that where it has made an affirmative certification below, this certification constitutes its representation that the application satisfies each of the pertinent standards and criteria set forth in the application instructions and worksheets.	<input checked="" type="radio"/> Yes <input type="radio"/> No
2. Applicant is: <input type="radio"/> an individual <input type="radio"/> a limited partnership <input type="radio"/> other <input type="radio"/> a general partnership <input checked="" type="radio"/> a not-for-profit corporation <input type="radio"/> a for-profit corporation <input type="radio"/> a limited liability company (LLC/LC) 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]
<p>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).</p> <p>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).</p>	
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 checked="" type="radio"/> Yes <input type="radio"/> No <input 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 checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 6]

<p>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.</p> <p>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.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>See Explanation in [Exhibit 7]</p>
<p>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.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>See Explanation in [Exhibit 8]</p>
<p>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.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>
<p>10. Local Public Notice. Applicant certifies compliance with the public notice requirements of 47 C.F.R. Section 73.3580.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>
<p>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.</p> <p>An exhibit is required unless this question is inapplicable.</p>	<p><input type="radio"/> Yes <input type="radio"/> No</p> <p><input checked="" type="radio"/> N/A</p> <p>See Explanation in [Exhibit 9]</p>
<p>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.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>
<p>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.</p>	<p><input type="radio"/> Yes <input type="radio"/> No</p> <p><input checked="" type="radio"/> N/A</p>

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.)

<p>Typed or Printed Name of Person Signing THOMAS J KIGIN</p>	<p>Typed or Printed Title of Person Signing EXECUTIVE VICE PRESIDENT</p>
<p>Signature</p>	<p>Date 4/2/2007</p>

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.

<p>Name</p>	<p>Relationship to Applicant (e.g., Consulting Engineer)</p>
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KATE MICHLER		TECHNICAL CONSULTANT	
Signature		Date 3/20/2007	
Mailing Address DOUG VERNIER TELECOMMUNICATIONS CONSULTANTS 721 WEST 1ST STREET, SUITE A			
City CEDAR FALLS		State or Country (if foreign address) IA	Zip Code 50613 -
Telephone Number (include area code) 3192668402		E-Mail Address (if available) KMICHLER@V-SOFT.COM	

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

- Channel: 280
- Primary Station:

Facility Identifier	Call Sign	City	State	Channel
42955	KSJR-FM	COLLEGEVILLE	MN	211
- Delivery Method (Select One):
 Off-air
 Microwave
 Satellite
 Via
 Other
- Antenna Location Coordinates: (NAD 27)

 Latitude:
 Degrees 44 Minutes 45 Seconds 33
 North
 South

 Longitude:
 Degrees 94 Minutes 52 Seconds 23
 West
 East
- Antenna Structure Registration Number: 1209827
 Not Applicable
 Notification filed with FAA
- Antenna Location Site Elevation Above Mean Sea Level: 333 meters
- Overall Tower Height Above Ground Level: 152 meters
- Height of Radiation Center Above Ground Level: 122 meters(H) 122 meters(V)
- Effective Radiated Power: 0.17 kW(H) 0.17 kW(V)
- Transmitting Antenna:
 Before selecting Directional "Off-the-Shelf", refer to "Search for Antenna Information" under [CDBS Public Access](http://svartifoss2.fcc.gov/prod/cdbs/pubacc/prod/cdbs_pa.htm) (http://svartifoss2.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 SHI Model 6832-4
 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.	<p>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.</p>	<p align="right"> <input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A </p> <p align="right">See Explanation in [Exhibit 10];</p>
12.	<p>Interference. The proposed facility complies with all of the following applicable rule sections. Check all that apply:</p> <p>Overlap Requirements. <input checked="" type="checkbox"/> a) 47 C.F.R. Section 74.1204 Exhibit Required.</p> <p>Television Channel 6 Protection. <input type="checkbox"/> b) 47 C.F.R. Section 74.1205 with respect to station(s) Exhibit Required.</p>	<p align="right"> <input checked="" type="radio"/> Yes <input type="radio"/> No </p> <p align="right">See Explanation in [Exhibit 11]</p> <p align="right">[Exhibit 12]</p> <p align="right">[Exhibit 13]</p>
13.	<p>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.</p>	<p align="right"> <input checked="" type="radio"/> Yes <input type="radio"/> No </p> <p align="right">See Explanation in [Exhibit 14]</p>
14.	<p>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.</p>	<p align="right"> <input checked="" type="radio"/> Yes <input type="radio"/> No </p> <p align="right">See Explanation in [Exhibit 15]</p>
15.	<p>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.</p> <p>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.</p>	<p align="right"> <input checked="" type="radio"/> Yes <input type="radio"/> No </p> <p align="right">See Explanation in [Exhibit 16]</p>

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.

<p>Preliminary Matter: Does this application provide fill-in service only?</p>	<p align="right"> <input type="radio"/> Yes <input type="radio"/> No </p>
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<p>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.</p>	<p><input type="radio"/> Yes <input type="radio"/> No</p>
<p>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.</p>	<p><input type="radio"/> Yes <input type="radio"/> No</p>
<p>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.</p>	<p><input type="radio"/> Yes <input type="radio"/> No</p>
<p>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)</p>	<p><input type="radio"/> Yes <input type="radio"/> No</p>
<p>New (increased) area served in square kilometers (excluding areas of water):</p>	
<p>Population served based on the most recent census block data from the United States Bureau of Census using the centroid method:</p>	

Tie Breakers

<p>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.</p> <p>(number of attributable commercial and non-commercial licenses and construction permits)</p> <p>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.</p>
<p>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.</p> <p>(number of attributable commercial and non-commercial applications)</p> <p>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.</p>

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.)

<p>Typed or Printed Name of Person Signing THOMAS J KIGIN</p>	<p>Typed or Printed Title of Person Signing EXECUTIVE VICE PRESIDENT</p>
<p>Signature</p>	<p>Date 4/2/2007</p>

Exhibits

Exhibit 1**Description:** EXH. 1 / ENGINEERING STATEMENT

ATTACHMENT 1 TO THIS EXHIBIT IS AN ENGINEERING STATEMENT DESCRIBING THE PROPOSED MODIFICATIONS TO CONSTRUCTION PERMIT BMPFT-20050622AAD.

Attachment 1

Description
Exhibit #1, Engineering Statement

Exhibit 12**Description:** OVERLAP REQUIREMENTS

Attachment 12

Description
Exhibit #12, Overlap Requirements

Exhibit 16**Description:** RF EMISSIONS COMPLIANCE STATEMENT

Attachment 16

Description
Exhibit #16, RF Emissions Compliance Statement

EXHIBIT #1
ENGINEERING STATEMENT

Concerning the Application of
Minnesota Public Radio
To Make a Minor Modification to Translator Construction Permit
K280ET
BMPFT-20050622AAD
Serving Olivia, Minnesota

March 2007

Channel 280D

0.17 kW H & V

This engineering statement supports the application filed by Minnesota Public Radio to make a minor modification to the construction permit for translator K280ET (BMPFT-20050622AAD) serving Olivia, Minnesota.

The applicant proposes to change transmitter location, increase antenna height above ground and mean sea level and decrease ERP. A change area map which depicts the 60 dBu contour of the proposed facility, as well as the currently authorized construction permit is attached as Page #2 of this exhibit (Ex #1). The N.G.D.C. 30 sec terrain database was used for this and all other exhibits. Page #3 is a table of the distance to the 60 dBu F(50-50) contour along the 12 cardinal radials.

Exhibit #12 is a single channel, contour to contour, allocation study showing that interference is not caused to any FM radio station, translator, construction permit or application.

There are no pertinent I.F. relationships. The proposal is not within 320 kilometers of the U.S. border with Canada or Mexico, and is outside the protected zone of any AM station, Table Mountain, FCC monitoring stations and the West Virginia Quiet Zone.

Exhibit #16 shows compliance with the Commission's R.F. emission's standards.

Page #4 of this exhibit (Ex. # 1) is a declaration made by the preparer attesting to her qualifications.

K280ET (New) Proposed 60 dBu Change Area

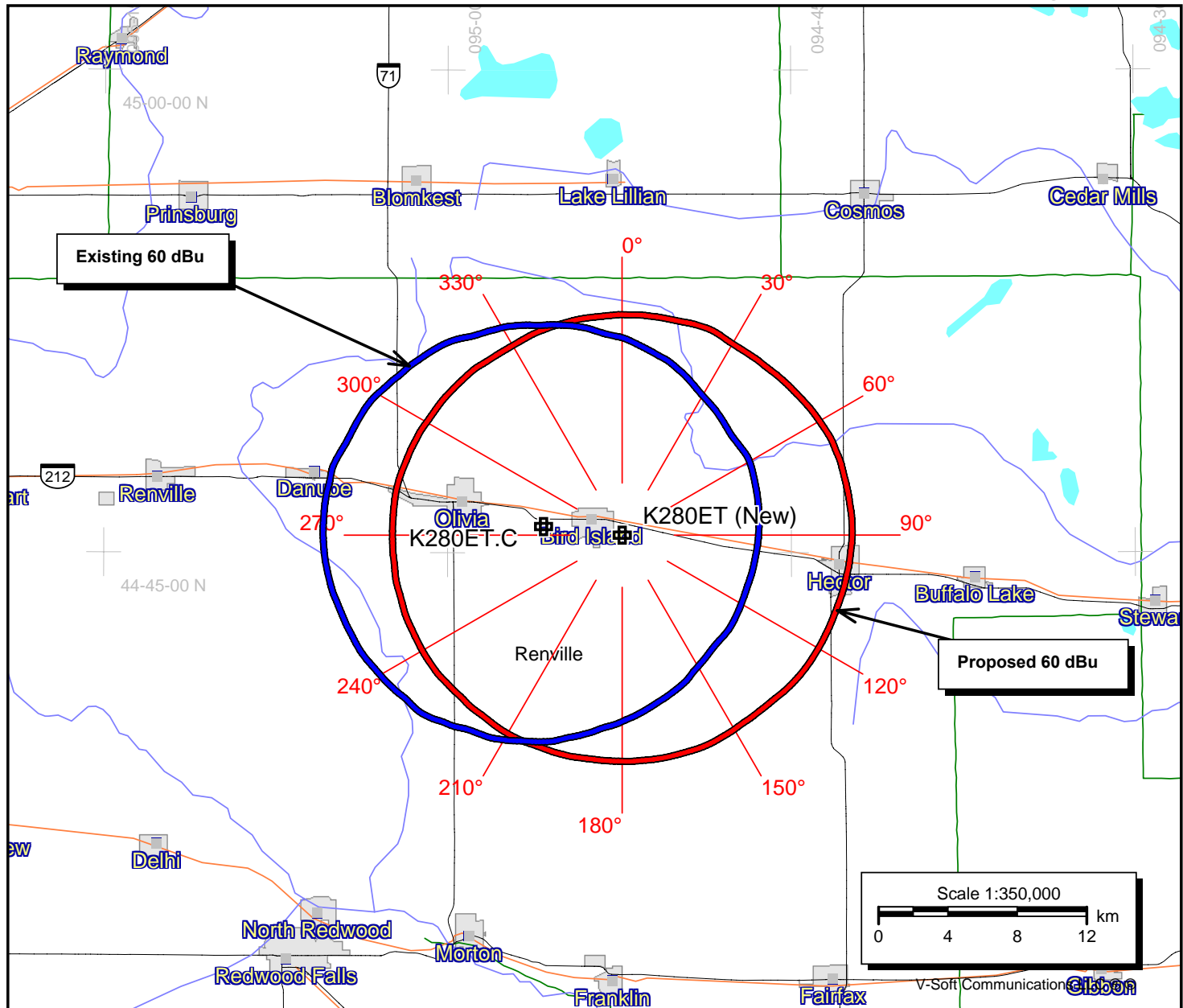
K280ET (New)
Latitude: 44-45-33 N
Longitude: 094-52-23 W
ERP: 0.17 kW
Channel: 280
Frequency: 103.9 MHz
AMSL Height: 454.4 m
HAAT: 124.25 m
Horiz. Pattern: Omni
Vert. Pattern: No

Pop = 6,180

K280ET.C
BMPFT20050622AAD
Latitude: 44-45-49 N
Longitude: 094-55-49 W
ERP: 0.25 kW
Channel: 282
Frequency: 104.3 MHz
AMSL Height: 419.0 m
HAAT: 0.0 m
Horiz. Pattern: Omni
Vert. Pattern: No

Pop = 5,099

3/20/2007



V-Soft Communication

N. Lat. = 444533.0 W. Lng. = 945223.0

HAAT and Distance to Contour - FCC Method - NGDC 30 SEC

K280ET - Minor Modification to Construction Permit

Azi. AV EL HAAT ERP kW dBk Field 60-F5

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	336.2	118.2	0.1700	-7.70	1.000	12.68
030	335.6	118.8	0.1700	-7.70	1.000	12.71
060	327.4	127.0	0.1700	-7.70	1.000	13.12
090	325.0	129.4	0.1700	-7.70	1.000	13.24
120	329.0	125.4	0.1700	-7.70	1.000	13.04
150	331.6	122.8	0.1700	-7.70	1.000	12.91
180	329.4	125.0	0.1700	-7.70	1.000	13.02
210	326.1	128.3	0.1700	-7.70	1.000	13.19
240	324.3	130.1	0.1700	-7.70	1.000	13.28
270	325.4	129.0	0.1700	-7.70	1.000	13.22
300	330.0	124.4	0.1700	-7.70	1.000	12.99
330	338.0	116.4	0.1700	-7.70	1.000	12.60

Ave El= 329.83 M HAAT= 124.57 M AMSL= 454.4

Declaration:

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

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

That, I have been a member of the firm for over nine years, and;

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

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

That, the consulting firm of Doug Vernier Telecommunications Consultants has been retained by Minnesota Public Radio, St. Paul, Minnesota, and;

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

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

Katherine A. Michler Katherine A. Michler

Executed on March 20, 2007

Minnesota Public Radio
K280ET Minor Change

Exhibit #12

REFERENCE
44 45 33.0 N.
94 52 23.0 W.

CH# 280D - 103.9 MHz, Pwr= 0.17 kW, HAAT=124.6 M, COR= 454.4 M
Average Protected F(50-50)= 13.0 km

DISPLAY DATES
DATA 03-17-07
SEARCH 03-20-07

CH CITY	CALL	TYPE STATE	ANT AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT (M)	INT(km) COR(M)	PRO(km) LICENSEE	*OUT* (Overlap in km)
282D Olivia	K280ET	CP _V_ MN	276.3 96.2	4.56 BMPFT20050622AAD	44 45 49.0 94 55 49.0	0.250	1.1 419	12.4 Edgewater Broadcasting, In	-8.71* < ***
280C2 Spirit Lake	KU00	LIC _CN IA	186.4 6.3	151.35 BLH19900927KA	43 24 20.0 95 05 01.0	50.000 150	139.0 594	53.4 Sorenson Broadcasting Corp	53.72
280A Osakis	KBHL	LIC ZC_ MN	351.7 171.6	121.42 BMLD19990413KB	45 50 24.0 95 05 56.0	6.000 100	87.1 507	28.7 Christian Heritage Broadca	49.56
281C1 St. Louis Park	KZJK	LIC _CN MN	75.8 257.0	142.06 BLH19960411KC	45 03 30.0 93 07 27.0	89.000 315	105.3 593	72.6 The Audio House, Inc.	49.60
277D Li tchfi el d	K277AT	CP _C_ MN	42.7 222.9	39.80 BNPFT20030822ACK	45 01 18.0 94 31 49.0	0.250	1.1 442	12.9 Refuge Medi a Group	25.97
278C1 Mankato	KYSM-FM	LIC _CN MN	134.3 314.9	93.01 BLH19930802KD	44 10 20.0 94 02 23.0	100.000 165	7.2 453	59.0 Cc Li censes, LI c	33.11
278C1 Mankato	KYSM-FM	CP NCX MN	134.3 314.9	93.01 BPH20040416ABM	44 10 20.0 94 02 23.0	100.000 165	7.2 453	59.0 Cc Li censes, LI c	33.11
279C3 Wai te Park	KLZZ	LIC _CX MN	30.8 211.2	96.20 BMLH20021008ABS	45 30 02.0 94 14 31.0	9.000 126	50.2 455	32.6 Regent Li censee Of St. Cl o	44.58
283C2 Blue Earth	KJLY	CP _CX MN	145.0 325.6	114.91 BPH20060316AGM	43 54 36.0 94 03 03.0	50.000 150	6.1 461	53.3 Minn-iowa Christian Broadc	60.66
226C1 New Ul m	KXLP	LIC _CN MN	141.9 322.4	88.79 BLH19890117KG	44 07 44.0 94 11 15.0	100.000 149	3.2 440	17.4 Cc Li censes, LI c	22.0R 66.8M
277D Russel l	K277AI	LIC _CN MN	237.9 57.2	89.56 BLFT19980622TF	44 19 40.0 95 49 30.0	0.075 130	0.6 552	13.2 Christian Heri tage Broadca	75.46
283C2 Blue Earth	KJLY	LIC _CN MN	153.2 333.7	136.45 BLH19901015KE	43 39 41.0 94 06 29.0	50.000 138	6.0 466	52.2 Minn-iowa Christian Broadc	83.34
227D Lynd	K227AN	LIC _C_ MN	237.9 57.2	89.56 BLFT20050824AAU	44 19 40.0 95 49 30.0	0.140	3.2 506	17.4 Northwestern College	3.0R 86.6M
280D Ortonville	K280EW	CP _C_ MN	298.5 117.3	140.64 BNPFT20030827ADR	45 20 59.0 96 27 07.5	0.010	20.6 442	6.2 Edgewater Broadcasting, In	90.17
277D Big Lake	K277AS	CP _C_ MN	55.9 236.7	104.62 BMPFT20050708AAG	45 16 47.0 93 46 02.0	0.010	0.2 423	6.4 Educational Medi a Foundati	97.26
282C1 Mil bank	KKSD	LIC _CY SD	286.3 104.8	173.11 BLH19910204KC	45 10 31.0 96 59 15.0	100.000 299	10.5 859	74.2 Three Eagles Of Joliet, In	97.95
280D Owatonna	K280EC	LIC DC_ MN	117.8 299.1	156.82 BLFT19990804TF	44 05 19.0 93 08 25.0	0.205 97	33.6 469	10.0 Minnesota Public Radi o	102.58

Terrain database is NGDC 30 SEC

ERP and HAAT are on direct line to and from reference station.

Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)

Incoming contour overlap is ignored.

***affixed to 'IN' or 'OUT' values = site inside protected contour. "<" = Contour Overlap

*** = Applicant's translator under proposed modification herein

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 labeled "* OUT *" shows the distance in kilometers of overlap or clearance between the reference station's interference contour and the database station's protected contour. (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 outgoing interference. Negative distance figures in this column indicate outgoing overlap 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 and the DA power, if applicable, along the straight line azimuths between the reference station and the database station are used and visa versa.

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

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

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

EXHIBIT #16

R.F. EMISSION COMPLIANCE STATEMENT

Minnesota Public Radio

K280ET
Olivia, MN
0.17 kW

The applicant proposed to diplex K280ET (0.17 kW) with translator K276EW, also with 0.17 kW ERP, for a total of 0.34 kW. The proposed four-bay, circularly polarized antenna will be energized such that it produces 0.34 kW effective radiated power from a center of radiation of 121.9 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**") the predicted level of RF non-ionization emissions at a position of 2 meters above ground (head-height) at the base of the tower for the proposed 4-bay Shively 6832 (Type #6) antenna is 0.00774 microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$), which is 0.0008 percent of the maximum for a controlled area and 0.0039 percent of maximum for an uncontrolled area.

Since the predicted level of emissions is less than 1% of maximum, no further calculations were deemed necessary.

The applicant will protect workers on the tower by either reducing ERP or terminating transmission.

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