

Federal Communications Commission Washington, D.C. 20554 <p style="text-align: center;">FCC 349</p>	Approved by OMB 3060-0405 (March 2001) FOR FCC USE ONLY
<p>APPLICATION FOR AUTHORITY TO CONSTRUCT OR MAKE CHANGES IN AN FM TRANSLATOR OR FM BOOSTER STATION</p> <p>Read INSTRUCTIONS Before Filling Out Form</p>	FOR COMMISSION USE ONLY FILE NO. BNPFT - 20030827AMT

Section I - General Information

1.	Legal Name of the Applicant 1400 INC. Mailing Address 45 EAST 7TH STREET									
	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; padding: 5px;">City ST. PAUL</td> <td style="width:30%; padding: 5px;">State or Country (if foreign address) MN</td> <td style="width:20%; padding: 5px;">ZIP Code 55101 -</td> </tr> <tr> <td style="padding: 5px;">Telephone Number (include area code) 6512901259</td> <td colspan="2" style="padding: 5px;">E-Mail Address (if available) MGRAMLING@MPR.ORG</td> </tr> <tr> <td style="padding: 5px;"></td> <td style="padding: 5px;">Call Sign NEW</td> <td style="padding: 5px;">Facility Identifier 141839</td> </tr> </table>	City ST. PAUL	State or Country (if foreign address) MN	ZIP Code 55101 -	Telephone Number (include area code) 6512901259	E-Mail Address (if available) MGRAMLING@MPR.ORG			Call Sign NEW	Facility Identifier 141839
City ST. PAUL	State or Country (if foreign address) MN	ZIP Code 55101 -								
Telephone Number (include area code) 6512901259	E-Mail Address (if available) MGRAMLING@MPR.ORG									
	Call Sign NEW	Facility Identifier 141839								
2.	Contact Representative (if other than Applicant) MITZI GRAMLING Mailing Address 45 EAST 7TH STREET									
	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%; padding: 5px;">City ST. PAUL</td> <td style="width:30%; padding: 5px;">State or Country (if foreign address) MN</td> <td style="width:40%; padding: 5px;">ZIP Code 55101 -</td> </tr> <tr> <td style="padding: 5px;">Telephone Number (include area code) 6512901259</td> <td colspan="2" style="padding: 5px;">E-Mail Address (if available) MGRAMLING@MPR.ORG</td> </tr> </table>	City ST. PAUL	State or Country (if foreign address) MN	ZIP Code 55101 -	Telephone Number (include area code) 6512901259	E-Mail Address (if available) MGRAMLING@MPR.ORG				
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Telephone Number (include area code) 6512901259	E-Mail Address (if available) MGRAMLING@MPR.ORG									
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 type="radio"/> Noncommercial Educational Licensee/Permittee <input type="radio"/> Other									
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="width:100%; border-collapse: collapse; margin-top: 10px;"> <tr> <td style="width:50%; padding: 5px;">Community (ies)</td> <td style="width:50%; padding: 5px;">State</td> </tr> <tr> <td style="padding: 5px;">HINCKLEY</td> <td style="padding: 5px;">MN</td> </tr> </table>	Community (ies)	State	HINCKLEY	MN					
Community (ies)	State									
HINCKLEY	MN									
5.	<p>Application Purpose</p> <table style="width:100%;"> <tr> <td style="width:50%; vertical-align: top;"> <input checked="" type="radio"/> New station <input type="radio"/> Major Change in licensed facility <input type="radio"/> Minor Change in licensed facility </td> <td style="width:50%; vertical-align: top;"> <input type="radio"/> Major Modification of construction permit <input type="radio"/> Minor Modification of construction permit <input type="radio"/> Major Amendment to pending application <input type="radio"/> Minor Amendment to pending application </td> </tr> </table> <p>a. File number of original construction permit: -</p> <p>If an amendment, submit as an Exhibit a listing by Section and Question Number the portions of the pending application that are being revised. [Exhibit 1]</p>	<input checked="" 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 type="radio"/> Minor Modification of construction permit <input type="radio"/> Major Amendment to pending application <input type="radio"/> Minor Amendment to pending application							
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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.	<p>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.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>									
2.	<p>Applicant is:</p> <table border="1" style="width:100%"> <tr> <td><input type="radio"/> an individual</td> <td><input type="radio"/> a general partnership</td> <td><input checked="" type="radio"/> a for-profit corporation</td> </tr> <tr> <td><input type="radio"/> a limited partnership</td> <td><input type="radio"/> a not-for-profit corporation</td> <td><input type="radio"/> a limited liability company (LLC/LC)</td> </tr> <tr> <td colspan="3"><input type="radio"/> other</td> </tr> </table> <p>a. If "other", describe nature of applicant in an Exhibit. [Exhibit 2]</p>	<input type="radio"/> an individual	<input type="radio"/> a general partnership	<input checked="" type="radio"/> a for-profit corporation	<input type="radio"/> a limited partnership	<input type="radio"/> a not-for-profit corporation	<input type="radio"/> a limited liability company (LLC/LC)	<input type="radio"/> other			
<input type="radio"/> an individual	<input type="radio"/> a general partnership	<input checked="" type="radio"/> a for-profit corporation									
<input type="radio"/> a limited partnership	<input type="radio"/> a not-for-profit corporation	<input type="radio"/> a limited liability company (LLC/LC)									
<input type="radio"/> other											
3.	<p>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).</p> <p>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.</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A</p> <p>See Explanation in [Exhibit 3]</p> <p><input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A</p> <p>See Explanation in [Exhibit 4]</p>									
<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.	<p>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).</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A</p> <p>See Explanation in [Exhibit 5]</p>									
5.	<p>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.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A</p>									
6.	<p>Character Issues. Applicant certifies that neither applicant nor any party to the application has or has had any interest in or connection with:</p> <p>a. any broadcast application in any proceeding where character issues were left</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>See Explanation in [Exhibit 6]</p>									

	<p>unresolved or were resolved adversely against the applicant or party to the application; or</p> <p>b. any pending broadcast application in which character issues have been raised.</p>	
7.	<p>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>
8.	<p>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>
9.	<p>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>
10.	<p>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>
11.	<p>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>
12.	<p>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>
13.	<p>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 8/27/2003</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.

Name DOUG VERNIER		Relationship to Applicant (e.g., Consulting Engineer) ENGINEERING CONSULTANT	
Signature		Date 8/25/2003	
Mailing Address DOUG VERNIER TELECOMMUNICATION 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) DVERNIER@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			
1. Channel: 226			
2. Primary Station:			
	Call Sign	City	State
	WSCD-FM	DULUTH	MN
			Channel
			225
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 45 Minutes 58 Seconds 36 <input checked="" type="radio"/> North <input type="radio"/> South			
Longitude:			
Degrees 92 Minutes 53 Seconds 46.9 <input checked="" type="radio"/> West <input type="radio"/> East			
5. Antenna Structure Registration Number: 1210690 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Notification filed with FAA			
6. Antenna Location Site Elevation Above Mean Sea Level:			304 meters
7. Overall Tower Height Above Ground Level:			128 meters
8. Height of Radiation Center Above Ground Level:			61 meters(H) 61 meters(V)
9. Effective Radiated Power:			0.027 kW(H) 0.027 kW(V)
10. 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). 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 6810-1

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 Required. [Exhibit 12]
Television Channel 6 Protection.
 b) 47 C.F.R. Section 74.1205 with respect to station(s) Exhibit Required. [Exhibit 13]
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.	<p>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>
6.	<p>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>

(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 8/27/2003

Exhibits

Exhibit 1

Description: ENGINEERING STATEMENT

THE ATTACHED EXHIBIT DEFINES THE EXHIBITS FOUND IN THE ENGINEERING SECTION OF THIS APPLICATION AND PROVIDES ADDITIONAL INFORMATION.

Attachment 1

Description
Engineering Statement

Exhibit 12

Description: ALLOCATION EXHIBIT

THE ATTACHED EXHIBIT PROVIDES DOCUMENTATION THAT THE PROPOSED FACILITY WILL NOT CAUSE PROHIBITED CONTOUR OVERLAP WITH LICENSED STATIONS, CONSTRUCTION PERMITS AND PENDING APPLICATIONS.

Attachment 12

Description
Allocation Exhibit

Exhibit 16

Description: R.F. EMISSIONS SAFETY STATEMENT

THE ATTACHED STATEMENT PROVIDES INFORMATION ON HOW THE APPLICANT WILL PROTECT WORKERS AND THE GENERAL PUBLIC FROM R.F. EMISSIONS EXPOSURE IN EXCESS OF THE COMMISSION'S STANDARD.

Attachment 16

Description
R.F. Emissions Safety Statement



**EXHIBIT #1
ENGINEERING STATEMENT**

Concerning the Application of
1400 Inc.
To Build an FM Translator Station at
Hinckley, Minnesota

File BNPFT 20030312APM

August 2003

This engineering statement supports the application of the 1400, Inc. of St. Paul, Minnesota to build a new FM translator station on channel 226 to serve Hinckley, Minnesota. Channel 226 has been listed by the FCC as a "singleton" assigned to the applicant and available for application filing. The proposed site is located 9.54 kilometers to the northeast of the singleton site. Page #4 shows that the coverage of the proposed 60 dBu substantially overlaps the coverage proposed in the singleton application.

Under the instant proposal, the off-air audio signal of primary station WSCD, channel 225, Duluth, will be delivered to a Crown 100R translator unit. This unit will deliver 0.06 kW to the input of a Shively single-bay 6810-1 antenna. The antenna has a power gain of .45 resulting in an effective radiated power of 0.027 kW, polarized circularly. This station will be diplexed with Hinckley translator CH 248

A total of 12 evenly spaced radials were used to determine the antenna height above average terrain. The highest radial of the 12 was used to determine the maximum effective radiated power. The USGS 30 arc-second terrain elevation database was employed to determine the elevations along the radials that were averaged using the required four-point interpolation method. The resulting averaged radial antenna heights were employed using the Commission's own TVFMINT algorithm to project the distances to signal contours. A tabular listing of the distance to the 1 mV/m contour can be found on page #3 of this exhibit. A coverage map can be found on page #4.

Exhibit #12 is an allocation study showing that no overlap interference is caused station licenses, construction permits and applications. Page #1 of this exhibit is a tabular study showing the proposed translator's relationship to all stations, construction permits and applications having a frequency and distance relationship. Page #2 of this study is a narrative explaining the abbreviations and conventions used in the channel printout. There are no contour overlaps with licensed stations, construction permits or with pending applications.

Exhibit #16 is an RF hazard statement showing that workers and the general public are protected from radio frequency emissions.

The proposed station is located 252.1 kilometers from the US border with Canada and the 34 dBu does not extend past 60 kilometers in any direction. The proposed facility is not within the critical distance to any AM station. The proposed facility is okay with respect to FCC monitoring stations, Table Mountain and the West Virginia Quiet Zone.

The applicant requests "unattended operation". The translator can be turned off in cases of an emergency by the staff at the applicant's headquarters in Saint Paul, Minnesota.

Page #5 of this **Engineering Exhibit** is a statement of the qualifications of the preparer.

Doug Vernier

Doug Vernier, Telecommunications Consultants
 N. Lat. = 45 58 36 W. Lng. = 92 53 47
 HAAT and Distance to Contour - FCC Method - 30 Arc Sec.

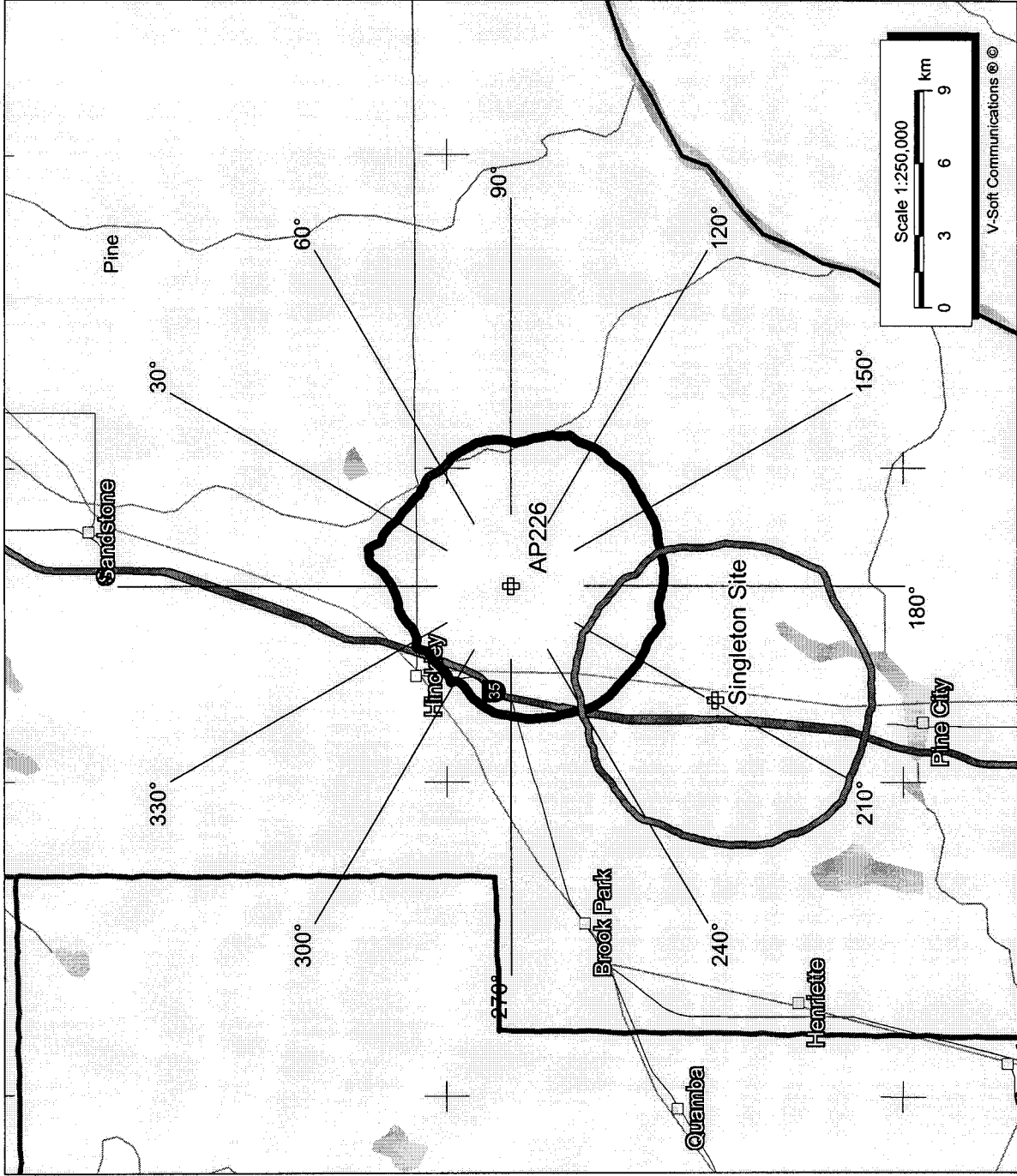
Minnesota Public Radio, Hinckley, MN

Azi.	AV EL	HAAT	ERP kw	dBk	Field	60-F5	34-F1
000	321.0	44.0	0.0270	-15.69	1.000	4.92	23.13
030	310.4	54.6	0.0270	-15.69	1.000	5.52	25.85
060	307.1	57.9	0.0270	-15.69	1.000	5.68	26.61
090	297.4	67.6	0.0270	-15.69	1.000	6.09	28.61
120	282.1	82.9	0.0270	-15.69	1.000	6.74	31.97 *
150	286.6	78.4	0.0270	-15.69	1.000	6.55	30.95
180	292.5	72.5	0.0270	-15.69	1.000	6.30	29.65
210	296.3	68.7	0.0270	-15.69	1.000	6.14	28.84
240	299.5	65.5	0.0270	-15.69	1.000	6.00	28.19
270	311.5	53.5	0.0270	-15.69	1.000	5.46	25.59
300	325.3	39.7	0.0270	-15.69	1.000	4.64	21.89
330	328.1	36.9	0.0270	-15.69	1.000	4.46	21.08

Ave El= 304.83 M HAAT= 60.17 M AMSL= 365

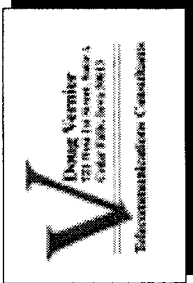
* Highest HAAT Radial

60 dBu Coverage



AP226
 Latitude: 45-58-36 N
 Longitude: 092-53-47 W
 ERP: 0.027 kW
 Channel: 226
 Frequency: 93.1 MHz
 AMSL Height: 365.0 m
 Elevation: 304 m
 Horiz. Pattern: Omni
 Vert. Pattern: No
 Prop Model: FCC

Singleton Site
 Latitude: 45-54-07 N
 Longitude: 092-57-25 W
 ERP: 0.027 kW
 AMSL Height: 367.0 m
 Elevation: 299.0 m
 Horiz. Pattern: Omni
 Vert. Pattern: No



Declaration:

I, Douglas L. 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 30 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;

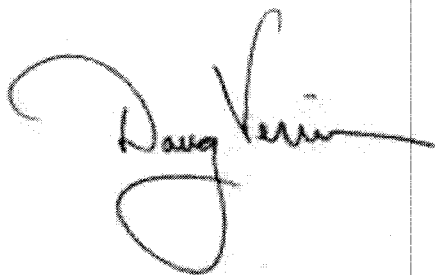
That, I am certified as a Professional Broadcast Engineer (#50258) by the Society of Broadcast Engineers, Indianapolis, Indiana. (Re-certified 10/2000.)

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

That, I have been retained by 1400, Inc. Saint Paul, Minnesota, to prepare the engineering showings appended hereto:

That, I have prepared these broadcast 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.

A handwritten signature in black ink, appearing to read "Doug Vernier", written in a cursive style.

Douglas L. Vernier

Executed on August 25, 2003

Doug Vernier Telecommunications Consultants
 721 W. First St., Suite A, Cedar Falls, IA 50613

1400 INC, Hinkley - WSCD

REFERENCE CH# 226D - 93.1 MHz, Pwr= 0.027 kw, MAX HAAT=82.9 M, COR= 365 M DISPLAY DATES
 45 58 36 N Average Protected F(50-50)= 6.74 km DATA 08-23-03
 92 53 47 W Ave. F(50-10) 40 dBu= 22.5 54 dBu= 9.6 80 dBu= 2.1 100 dBu= .4 SEARCH 08-24-03

CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kw) HAAT(M)	COR(M) INT(km)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
226D Hinkley	AP226	APP MN	209.4 29.4	9.54 BNPFT20030312 APM	45 54 07 92 57 25	0.250 68	367 20.4	10.7 1400 Inc.	-32.92<	-21.57*<
229C Minneapolis	KXXR	LIC MN	189.9 9.9	103.60 BLH19910814KF	45 03 30 93 07 27	100.000 319	593 0.4	73.8 Kqrs, Inc.	86.95	29.46
223C Golden Valley	KQRSFM	LIC MN	189.9 9.9	103.60 BLH19910814KB	45 03 30 93 07 27	100.000 319	593 0.4	73.8 Kqrs, Inc.	86.95	29.46
225C1 Duluth	WSCDFM	LIC MN	33.2 213.2	108.35 BMLED19940823KA	46 47 20 92 07 04	70.000 295	492 7.7	68.4 Minnesota Public Radio	3.22	32.20
227C1 Nisswa	KBLB	LIC MN	294.9 114.9	125.81 BLH20020125AAX	46 26 34 94 22 55	100.000 189	554 6.6	62.8 Bl Broadcasting, Inc.	27.88	56.43
226A Ladysmith	WJBL	LIC WI	111.8 291.8	149.25 BLH19941118KD	45 27 59 91 07 23	4.900 118	459 22.5	29.1 Flambeau Broadcasting Co.,	56.03	97.65

***Affixed to 'IN' or 'Out' values = site inside protected contour.
 ERP and HAAT are on direct line to and from reference station. "<" = Contour Overlap

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 and the DA power, if applicable, along the straight line azimuths between the reference station and the database station are used and visa versa. 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. Negative distance figures in this column indicate outgoing overlap interference.

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

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

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

The first three letters of the "TYPE" column identify the current FCC status of the stations. The fourth letter will be a "D" if the facility is directional. "Z" indicates a 73.215 directional. An "N" indicates it is a 73.215 station that operates omni. 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".

EXHIBIT # 16

R.F. RADIATION COMPLIANCE STATEMENT

Channel 226 – 0.027 kW H & V
Hinckley, Minnesota

August 2003

The proposed one-bay antenna will be energized such that it produces 0.027 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 0.003 microwatts per square centimeter was calculated. This calculation uses the proposed 1-bay Shively 6810, type #6, element and array pattern as measured by the E.P.A. The calculated value amounts to only 0.0003 percent of the maximum for a controlled area and 0.013 percent for an uncontrolled area. The proposed translator will be diplexed with another translator also having an ERP of 0.27 kW. Therefore, the total contribution of these two translators is 0.0006 percent for a controlled area and .0026 percent for an uncontrolled area.

There will be two additional 0.027 kilowatt translators on the tower, each operating from an antenna 67 meters above ground. Each of these two translators each will contribute 0.002 microwatts per square centimeter which amounts to 0.0002 percent of the maximum for a controlled area and 0.0011 percent each for an uncontrolled area. Together the two translator units produce 0.0004 percent of the maximum for a controlled area and 0.0022 percent of the maximum for an uncontrolled area. All four translators then produce a total of 0.001 percent of the maximum for a controlled area and 0.0048 percent of the maximum for an uncontrolled area. Since the combination of the instant proposal and the other translators proposed for this tower have a total contribution of less than one percent, further analysis was deemed unnecessary. Consequently, the proposed facility does not exceed the Commission's maximums.

The applicant will protect workers on or near the antenna mast by either reducing ERP or terminating transmission.

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