

Federal Communications Commission Washington, D.C. 20554 <p style="text-align: center;">FCC 349</p>	Approved by OMB 3060-0405 (October 2009) 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. BPFT - 20130625AAS

Section I - General Information

1.	Legal Name of the Applicant MINNESOTA PUBLIC RADIO Mailing Address 480 CEDAR STREET <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">City ST. PAUL</td> <td style="width:30%;">State or Country (if foreign address) MN</td> <td style="width:20%;">ZIP Code 55101 -</td> </tr> <tr> <td>Telephone Number (include area code) 6512901259</td> <td colspan="2">E-Mail Address (if available) FCCFILING@MPR.ORG</td> </tr> <tr> <td>FCC Registration Number: 0002642510</td> <td>Call Sign K220JP</td> <td>Facility Identifier 122965</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) FCCFILING@MPR.ORG		FCC Registration Number: 0002642510	Call Sign K220JP	Facility Identifier 122965
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 K220JP	Facility Identifier 122965								
2.	Contact Representative (if other than Applicant) TODD M STANSBURY Mailing Address 1776 K STREET NW <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;">City WASHINGTON</td> <td style="width:30%;">State or Country (if foreign address) DC</td> <td style="width:40%;">ZIP Code 20006 -</td> </tr> <tr> <td>Telephone Number (include area code) 2027194948</td> <td colspan="2">E-Mail Address (if available) TSTANSBURY@WILEYREIN.COM</td> </tr> </table>	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				
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="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Community(ies)</td> <td style="width:50%;">State</td> </tr> <tr> <td>MINNEAPOLIS</td> <td>MN</td> </tr> </table>	Community(ies)	State	MINNEAPOLIS	MN					
Community(ies)	State									
MINNEAPOLIS	MN									
5.	<p>Application Purpose</p> <table style="width:100%;"> <tr> <td><input type="radio"/> New station</td> <td><input type="radio"/> Major Modification of construction permit</td> </tr> <tr> <td><input type="radio"/> Major Change in licensed facility</td> <td><input type="radio"/> Minor Modification of construction permit</td> </tr> <tr> <td><input checked="" type="radio"/> Minor Change in licensed facility</td> <td><input type="radio"/> Major Amendment to pending application</td> </tr> <tr> <td></td> <td><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 [Exhibit 1] of the pending application that are being revised.</p>	<input type="radio"/> New station	<input type="radio"/> Major Modification of construction permit	<input type="radio"/> Major Change in licensed facility	<input type="radio"/> Minor Modification of construction permit	<input checked="" type="radio"/> Minor Change in licensed facility	<input type="radio"/> Major Amendment to pending application		<input type="radio"/> Minor Amendment to pending application	
<input type="radio"/> New station	<input type="radio"/> Major Modification of construction permit									
<input type="radio"/> Major Change in licensed facility	<input type="radio"/> Minor Modification of construction permit									
<input checked="" type="radio"/> Minor Change in licensed facility	<input type="radio"/> Major Amendment to pending application									
	<input type="radio"/> Minor Amendment to pending application									

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 type="radio"/> a for-profit corporation</td> </tr> <tr> <td><input type="radio"/> a limited partnership</td> <td><input checked="" 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 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			
<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											
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 FM translator's (a) coverage contour does not extend beyond the protected contour of the commercial FM primary station to be rebroadcast, or (b) entire 60 dBu contour is contained within the lesser of: (i) the 2 mV/m daytime contour of the AM primary station to be rebroadcast, or (ii) a 25-mile radius centered at the AM primary station's transmitter site.</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 Yes to (a) and No 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 type="radio"/> Yes <input type="radio"/> No <input checked="" 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 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>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>See Explanation in [Exhibit 6]</p>									
7.	<p>Adverse Findings. Applicant certifies that, with respect to the applicant, any party to the</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>									

<p>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>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 6/25/2013</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 MICHAEL HENDRICKSON		Relationship to Applicant (e.g., Consulting Engineer) RADIO NETWORK ENGINEERING MANAGER	
Signature		Date 6/21/2013	
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) 6512901500		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: 220											
2. Primary Station:											
Facility ID Number			Call Sign			City			State		
42911			KSJN			MINNEAPOLIS			MN		
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 58 Seconds 3 <input checked="" type="radio"/> North <input type="radio"/> South											
Longitude:											
Degrees 93 Minutes 18 Seconds 23 <input checked="" type="radio"/> West <input type="radio"/> East											
5. Antenna Structure Registration Number: <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Notification filed with FAA											
6. Antenna Location Site Elevation Above Mean Sea Level:									278 meters		
7. Overall Tower Height Above Ground Level:									34 meters		
8. Height of Radiation Center Above Ground Level:									34 meters(H) 34 meters(V)		
9. Effective Radiated Power:									0.025 kW(H) 0.025 kW (V)		
10. Transmitting Antenna:											
Before selecting Directional "Off-the-Shelf", refer to "Search for Antenna Information" under CDBS Public Access (http://licensing.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.											
<input checked="" type="radio"/> Nondirectional <input type="radio"/> Directional Off-the Shelf <input type="radio"/> Directional composite											
Manufacturer SHI Model 6812B-1F											
Rotation:degrees <input type="checkbox"/> 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.</p> <p>a. FM Fill-in translators. Applicant certifies that the FM translator's (a) coverage contour does not extend beyond the protected contour of the commercial FM primary station to be rebroadcast, or (b) entire 60 dBu contour is contained within the lesser of: (i) the 2 mV/m daytime contour of the AM primary station to be rebroadcast, or (ii) a 25-mile radius centered at the AM primary station's transmitter site.</p> <p>b. FM Boosters. Applicant certifies that the FM Booster station's service contour is entirely within the primary station's protected coverage contour.</p>	<p><input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A</p> <p>See Explanation in [Exhibit 10]</p> <p><input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A</p> <p>See Explanation in [Exhibit 11]</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 checked="" type="checkbox"/> b) 47 C.F.R. Section 74.1205 with respect to station(s) Exhibit Required.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>See Explanation in [Exhibit 12]</p> <p>[Exhibit 13]</p> <p>[Exhibit 14]</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><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>See Explanation in [Exhibit 15]</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><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>See Explanation in [Exhibit 16]</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><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>See Explanation in [Exhibit 17]</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.

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 6/25/2013

Exhibits

Exhibit 10

Description: K220JP-KSJN CONTOURS

THE ATTACHED CONTOUR MAP DEMONSTRATES THAT THE 60 DBU CONTOUR OF K220JP DOES NOT EXCEED THE 60 DBU CONTOUR OF THE NON-COMMERCIAL PRIMARY STATION, KSJN.

ALSO ATTACHED IS A TABLE SHOWING THE HAAT CONTOUR DISTANCES FOR K220JP

Attachment 10

Description
K220JP-KSJN Contours
HAAT table

Exhibit 13

Description: OVERLAP STUDY

THE ATTACHED DOCUMENTS SHOW FULL COMPLIANCE WITH SECTION 74.1204.

THE INTERFERRING CONTOUR TO KQRS EXTENDS 9.9 METERS FROM THE K220JP ANTENNA. SINCE THE ANTENNA IS 34.5 METERS ABOVE GROUND AND IS MOUNTED ON A WATER TOWER, THERE ARE NO PEOPLE WITHIN THIS CONTOUR.

THE ATTACHED INTERFERENCE STUDY SHOWS THE DETAILS OF THE INTERFERENCE CONTOUR.

Attachment 13

Description
Channel 220 overlap study
K220JP-KQRS IX study
How to read computer printout

Exhibit 14

Description: TELEVISION CHANNEL 6 PROTECTION

SINCE K220JP IS FURTHER THAN 131 KM FROM THE NEAREST CHANNEL 6 TELEVISION STATION NO

FURTHER STUDY IS REQUIRED.

Attachment 14

Exhibit 17

Description: RFR EXPOSURE

THE K220JP TRANSLATOR OPERATES WITH A POWER OF .025KW IN BOTH THE VERTICAL AND HORIZONTAL PLANES. AT GROUND LEVEL, AT THE BASE OF THE WATER TOWER THE RF EXPOSURE IS LESS THEN 1% OF THE MAXIMUM PERMITTED FOR UNCONTROLLED ACCESS.

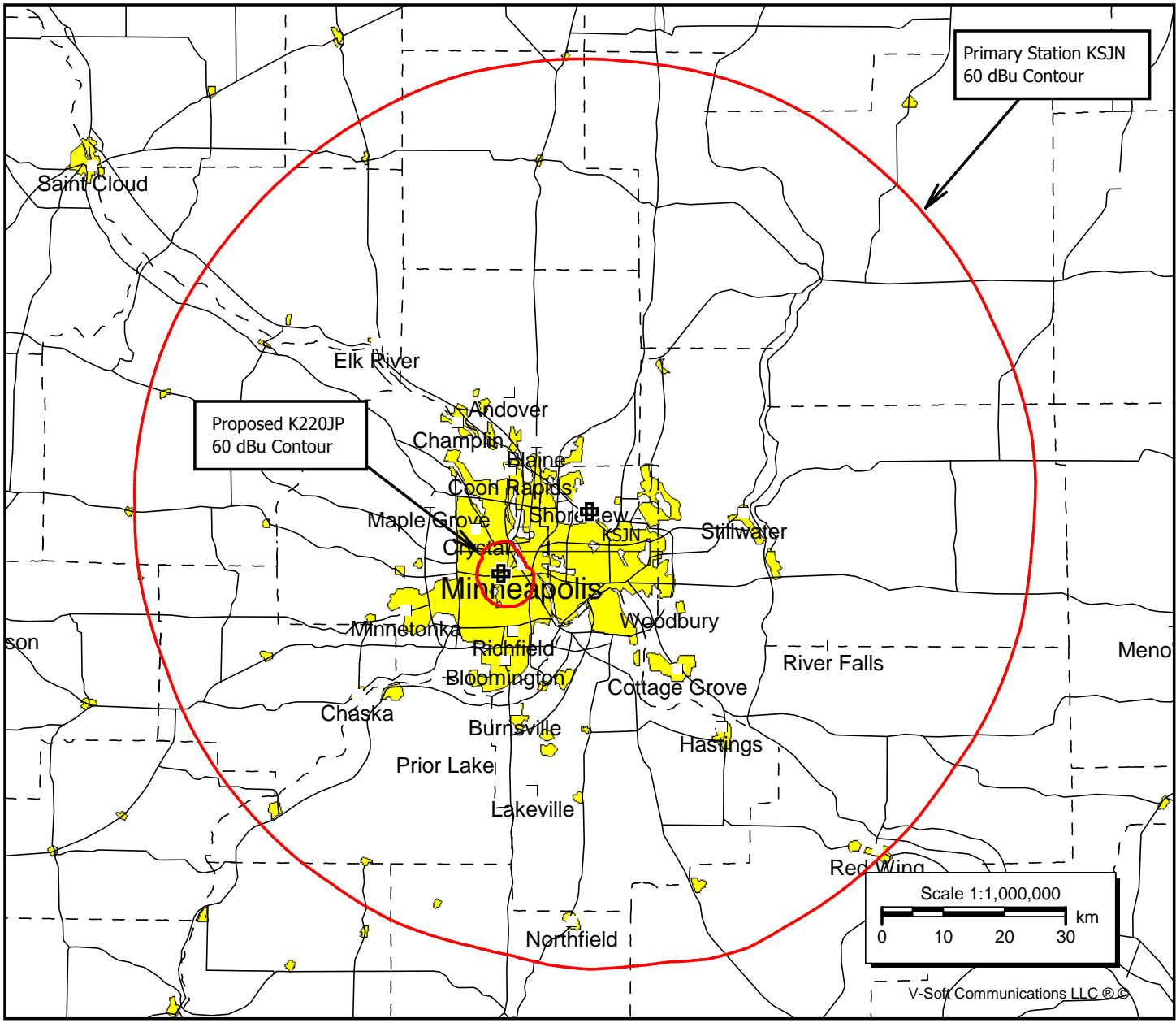
ACCESS TO THE ROOF OF THE WATER TOWER IS PERMITTED ONLY THROUGH A LOCKED ACCESS DOOR INTO THE TOWER. AT THE ROOF HATCH THERE IS ANOTHER LOCKED ACCESS DOOR.

MINNESOTA PUBLIC RADIO WILL EITHER REDUCE POWER OR TURN THE TRANSLATOR OFF AS REQUIRED TO PREVENT ANY EXCESSIVE RF EXPOSURE.

Attachment 17

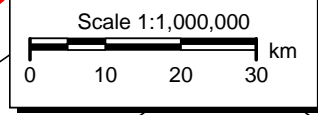
KSJN
 BLH19910814KH
 Latitude: 45-03-30 N
 Longitude: 093-07-27 W
 ERP: 100.00 kW
 Channel: 258
 Frequency: 99.5 MHz
 AMSL Height: 593.0 m
 Elevation: 277.0 m
 Horiz. Pattern: Omni
 Vert. Pattern: No
 Prop Model: None

K220JProposed
 Latitude: 44-58-03 N
 Longitude: 093-18-23 W
 ERP: 0.025 kW
 Channel: 220
 Frequency: 91.9 MHz
 AMSL Height: 312.5 m
 Elevation: 272.97 m
 Horiz. Pattern: Omni
 Vert. Pattern: No
 Prop Model: None



Primary Station KSJN
 60 dBu Contour

Proposed K220JP
 60 dBu Contour



V-Soft Communications LLC ©

Distance to Contour Report

Type of contour: FCC
Location Variability: 50.0 %
Time Variability: 50.0 %
of Radials Calculated: 72
FCC Matching HAAT Calculation Used
Field Strength: 60.00 dBuV/m

Primary Terrain: FCC 30 Second US Database

Transmitter Information:

Call Letters: K220JP Proposed
Latitude: 44-58-03 N
Longitude: 093-18-23 W
ERP: 0.025 kW
Channel: 220
Frequency: 91.9 MHz
AMSL Height: 312.5 m
Elevation: 272.97 m
Horiz. Antenna Pattern: Omni
Vert. Elevation Pattern: No

Azimuth (deg)	Distance (km)	HAAT (m)
0.0	5.22	50.6
30.0	4.58	40.1
60.0	4.19	33.9
90.0	5.26	51.4
120.0	5.66	59.8
150.0	5.80	63.0
180.0	5.25	51.2
210.0	4.72	42.3
240.0	3.96	27.7
270.0	3.96	28.7
300.0	3.97	30.2
330.0	4.84	44.3

Average HAAT for radials shown: 43.6 m

Minnesota Public Radio

REFERENCE
44 58 03.0 N.
93 18 23.0 W.

CH# 220D - 91.9 MHz, Pwr= 0.025 kw, HAAT= 43.0 M, COR= 311.9 M
Average Protected F(50-50)= 4.76 km
73.215 Omni-directional

DISPLAY DATES
DATA 06-20-13
SEARCH 06-21-13

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)
223C Golden Valley	KQRS-FM	LIC_CN MN	54.7 234.9	17.52 BLH19910814KB	45 03 30.0 93 07 27.0	100.000 315	10.4 593	73.9 Radio License Holding Iii,	-56.7*
220D Minneapolis	K220JP	LIC_DC_ MN	0.0 0.0	0.00 BLFT20110914AAO	44 58 03.0 93 18 23.0	0.013 18	4.2 287	1.6 Minnesota Public Radio	-18.4*
219D St. Paul	WMCN	LIC_CX MN	106.4 286.5	11.36 BLED20030213AAT	44 56 19.0 93 10 04.0	0.005 49	5.1 314	3.5 Macalester College	0.1
218D Bloomington	K218DK	LIC_C_ MN	194.5 14.4	12.78 BLFT20021118AAA	44 51 22.0 93 20 49.0	0.216 49	1.0 312	8.6 Refuge Media Group (new Bo	3.8
221D Waite	W221BS	LIC_C_ MN	93.1 273.3	18.20 BLFT20070709AAH	44 57 30.0 93 04 31.0	0.055 11	6.9 287	4.8 Educational Media Foundati	6.1
06+T Eau Claire	K06OA	LI_D_N WI	91.2 272.4	138.88 BLTVL20070621ASL	44 55 43.0 91 32 32.0	0.900 200	0.4 460	73.9 130.5R Marcia T. Turner D/b/a Tur	8.4M
221D Waite	W221BS	CP_C_ MN	78.3 258.5	24.84 BPFT20130328APU	45 00 45.0 92 59 49.0	0.099	9.4 312	6.0 Educational Media Foundati	10.9
221D Albertville	K221ES	APP_C_ MN	315.4 135.1	42.46 BPFT20130419AAQ	45 14 20.0 93 41 14.0	0.250	23.0 424	15.2 Educational Media Foundati	20.7
221D Albertville	K221ES	LIC_C_ MN	315.7 135.4	42.53 BLFT20070730ABT	45 14 26.0 93 41 10.0	0.250 39	12.3 329	8.7 Educational Media Foundati	27.3
220D North Branch	W220DO	LIC_C_ MN	26.8 207.1	64.67 BLFT20070604ACQ	45 29 10.0 92 55 56.0	0.038 63	21.6 334	6.5 Refuge Media Group (new Bo	43.3
219C1 Rochester	KZSE	LIC_CX MN	143.0 323.7	128.35 BMLD20120508AAX	44 02 28.0 92 20 25.0	94.000 288	103.0 638	70.8 Minnesota Public Radio	49.0
221C3 Waseca	KKOR	LIC_CX MN	183.5 3.4	102.68 BMLH20110414ABA	44 02 44.0 93 23 02.0	9.800 162	59.7 515	40.4 Main Street Broadcasting,	55.0
218C3 St. Cloud	KCFB	LIC_C_ MN	309.3 128.6	94.22 BLED19991213AAH	45 30 02.0 94 14 31.0	15.000 106	4.0 435	38.9 Minnesota Christian Broadc	55.0
218D North Branch	W220DO	CP_C_ MN	26.7 207.0	64.56 BPFT20130204AAO	45 29 08.0 92 56 02.0	0.038	0.4 330	6.3 Refuge Media Group (new Bo	57.9
06 D Sioux Falls	K06QJ-D	CP__Y SD	240.8 58.5	314.42 BNPDVL20100723AQN	43 32 17.0 96 42 50.0	3.000 61	0.4 476	73.9 130.5R Dtv America Corporation	183.9M
06 D Sioux City	K06QG-D	CP__N IA	222.5 40.5	353.28 BMJADVL20100519AAZ	42 35 12.0 96 13 19.0	0.300 593	0.4 956	73.9 130.5R Hispanic Family Christian	222.8M

Terrain database is FCC NGDC 30 Sec , R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference zone= West Zone, Co to 3rd adjacent.
All separation margins (if shown) include rounding
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.

K220JP IX contour.txt

K220JP Minneapolis, MN
 Translator 74.1204(d) Showing
 Translator Maximum Licensed ERP = 0.025
 Translator Antenna Height AG = 34.5 Meters
 K220JP Antenna Model = SHPX1F

Protected Station's Contour = 91.02634 dBu
 Translator's full Interference contour 131.02634

Review Azimuth = 0 Degrees True
 Horizontal Relative Field at Review Azimuth = 1.000
 Horizontal Translator ERP at Review Azimuth = 0.025 kw
 Distance between stations = 17.5
 Protected Station= KQRS-F, 100 kw, 593 M Meters COR AMSL

Depression Height IX Angle From Above Horizon(Deg) Ground (m)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)
00.00	1.0	1.0	0.0250	009.8549	009.8549
034.500					
05.00	0.993	1.0	0.0247	009.7859	009.7487
033.647					
10.00	0.974	1.0	0.0237	009.5987	009.4529
032.833					
15.00	0.941	1.0	0.0221	009.2735	008.9575
032.100					
20.00	0.897	1.0	0.0201	008.8399	008.3068
031.477					
25.00	0.843	1.0	0.0178	008.3077	007.5293
030.989					
30.00	0.78	1.0	0.0152	007.6868	006.6570
030.657					
35.00	0.709	1.0	0.0126	006.9871	005.7235
030.492					
40.00	0.633	1.0	0.0100	006.2382	004.7787
030.490					
45.00	0.554	1.0	0.0077	005.4596	003.8605
030.639					
50.00	0.473	1.0	0.0056	004.6614	002.9963
030.929					
55.00	0.394	1.0	0.0039	003.8828	002.2271
031.319					
60.00	0.317	1.0	0.0025	003.1240	001.5620
031.795					
65.00	0.245	1.0	0.0015	002.4145	001.0204
032.312					
70.00	0.181	1.0	0.0008	001.7837	000.6101
032.824					
75.00	0.124	1.0	0.0004	001.2220	000.3163
033.320					
80.00	0.077	1.0	0.0001	000.7588	000.1318
033.753					
85.00	0.041	1.0	0.0000	000.4041	000.0352
034.097					
90.00	0.016	1.0	0.0000	000.1577	000.0000
034.342					

K220JP IX contour.txt

Communications®LLC

X-Field™ By V-Soft

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.