



ENGINEERING STATEMENT

Exhibit #1

Concerning the Application of
Minnesota Public Radio
To Move the Location of KMSE
Channel 204
Rochester, Minnesota

December 2005

This engineering statement supports the application of the Minnesota Public Radio of Saint Paul, Minnesota to move the antenna location of KMSE, Rochester, to increase the antenna height and lower the ERP.

Minnesota Public Radio proposes to move the transmitter location of KMSE 130 meters to the south, south east and to operate with the following parameters:

NAD 27 Coordinates

N. Lat. 44 02 28
W. Lng. 92 20 25

Elevation: 379.8 meters

Antenna height: 163.4 meters AG (Horizontal element)

160.4 meters AG (Vertical element)

Proposed ERP: 0.2 kW Vertical Polarization
0.0053 kW Horizontal Polarization (rounded to 0.005 kW)

Page #3 of this Exhibit is a coverage map showing the existing and proposed 60 dBu KMSE coverage. Page #4 is a distance to contour table showing the distances to the 60 dBu along the eight cardinal radials used to calculate the station's HAAT. Page #5 of this exhibit is a statement of the qualifications of the preparer.

Exhibit 15 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 KMSE'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. Pages #3 through #16 of this exhibit are allocation maps and "FMOVER" tabular studies showing the contour to contour relationship of the proposed facility to KBDC.CP, Mason City, IA and AP201, Byron, MN.

Exhibit 18 is a channel-six TV exhibit, showing that all provisions of Section 73.525 of the Commission's Rules and Regulation with regard to protection of channel-six TV are met. The first map in this exhibit calculates the existing KMSE population within the area of interference predicted to be caused KAAL-TV6 in Austin, Minnesota. This amounts to 3,180 people. The second map in this exhibit shows the interference area calculated at the new antenna height and power at the newly proposed tower site location. This map study shows that 3,138 people are predicted to be caused interference. Our calculations show that while 20 new people now fall within the new calculated interference area, 62 people now fall outside the new interference area. Therefore, for every new person that was added to the new interference area, more than 2 people were removed from the interference area. The map shows the existing interference area contained by a red line while the newly calculated interference is delineated by a black line. There are no other channel-six TV stations within the Section 73.525 cutoff distance for FM channel 204 of 235 kilometers.

Exhibit 22 is an RF hazard statement showing that workers and the general public are protected from radio frequency emissions.

The proposed station is not within 320 kilometers of the US border with Mexico or Canada. It is not within the specific critical distances to AM broadcast towers and the proposed facility is okay with respect to FCC monitoring stations, Table Mountain and the West Virginia Quite Zone. There are four other FM stations located on the proposed tower. These are KZSE, KLSE, KRPR and KNXR. Based on the low ERP of the proposed facility, little or no interaction between the proposed station and other stations at the site is anticipated. The applicant is aware of its responsibility under the rules to correct any interference it may cause these stations through a mixing of its signal at the IPA level or otherwise with other transmitters. Further, the applicant is aware of its responsibility to correct any blanketing interference, within one year, that it may cause at the proposed location.

Doug Vernier

KMSE Proposed 60 dBu and Change Area

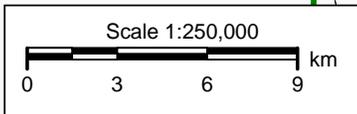
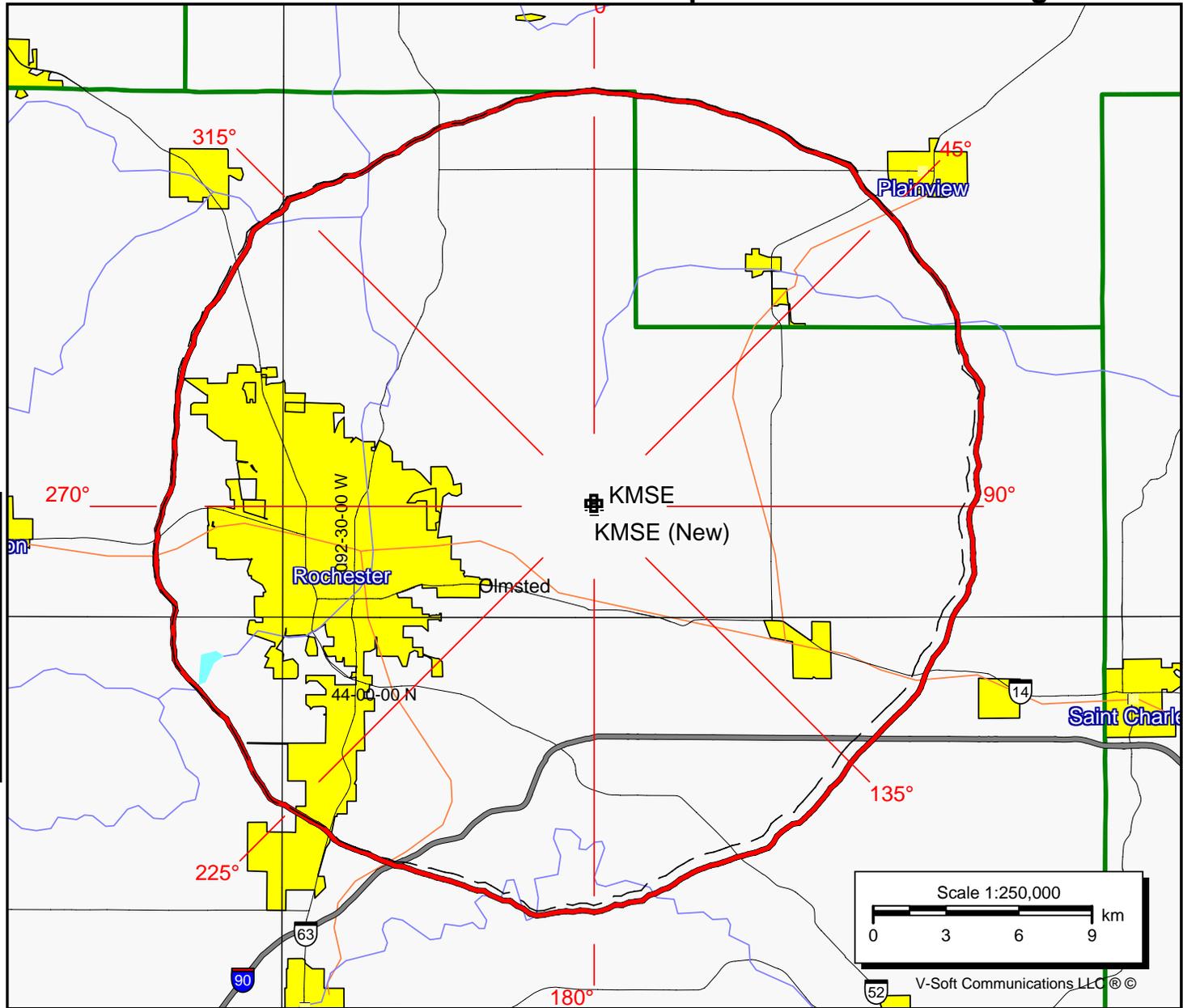
KMSE (New) Red Line

Latitude: 44-02-28 N
 Longitude: 092-20-25 W
 ERP: 0.20 kW Vert
 Channel: 204
 Frequency: 88.7 MHz
 AMSL Height: 540.0 m
 Elevation: 379.8 m
 Horiz. Pattern: Omni
 Vert. Pattern: No
 Prop Model: FCC

Population = 106,530
 Area = 883.3 sq km

KMSE (Existing) Dashed

BLED19980729KB
 Latitude: 44-02-32 N
 Longitude: 092-20-26 W
 ERP: 0.25 kW
 Channel: 204
 Frequency: 88.7 MHz
 AMSL Height: 518.0 m
 Elevation: 382.0 m
 Horiz. Pattern: Omni
 Vert. Pattern: No



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Doug Vernier, Telecommunications Consultants

N. Lat. = 44 02 28 W. Lng. = 92 20 25

HAAT and Distance to Contour - FCC Method - 30 Arc Sec.

Minnesota Public Radio, KMSE

Azi .	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	347.8	192.2	0.2000	-6.99	1.000	17.15
045	345.7	194.3	0.2000	-6.99	1.000	17.24
090	373.8	166.2	0.2000	-6.99	1.000	15.88
135	385.5	154.5	0.2000	-6.99	1.000	15.22
180	355.8	184.2	0.2000	-6.99	1.000	16.79
225	336.4	203.6	0.2000	-6.99	1.000	17.65
270	333.5	206.5	0.2000	-6.99	1.000	17.77
315	330.7	209.3	0.2000	-6.99	1.000	17.89

Ave El = 351.14 M HAAT= 188.86 M (Vert) AMSL= 540 M

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;

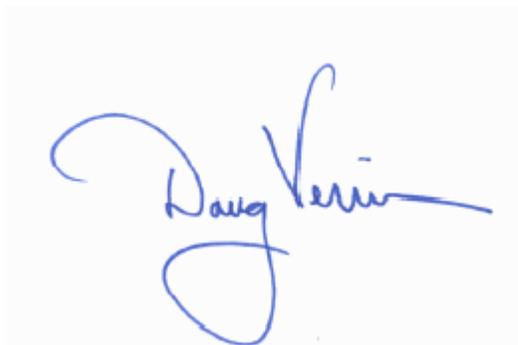
That, I am certified as a Professional Broadcast Engineer (#50258) by the Society of Broadcast Engineers, Indianapolis, Indiana. (Re-certified 9/2005.)

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

That, I have been retained the Minnesota Public Radio, of 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 blue ink, appearing to read "Doug Vernier", is written over a light blue rectangular background.

Douglas L. Vernier

Executed on December 17, 2005