



Established 1945

JHS

**JONES, HAUGH & SMITH INC.**  
**CONSULTING ENGINEERS**  
CIVIL ENGINEERS & LAND SURVEYORS

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December 22, 2003

JOHN H. SCHULTE IV  
Reg. Land Surveyor

STEVEN J. THOMPSON  
Reg. Land Surveyor

BRIAN J. JOHNSON  
Reg. Civil Engineer

ARTHUR W. SMITH  
Reg. Civil Engineer

C.V. JONES  
1901 - 1990

HAROLD H. HAUGH  
1825 - 2001

Minnesota Public Radio  
Attn: Randy  
45 East 7<sup>th</sup> Street  
St. Paul, MN 55101

Dear Randy:

Enclosed is the requested Affidavit for the direction of the two antennas on your tower located in the NW¼ Section 17-T102N-R19W, Freeborn County.

If there are any questions, please let us know.

Yours very truly,

JONES, HAUGH & SMITH INC  
CONSULTING ENGINEERS

  
John H. Schulte IV, RLS

Enclosure

## AFFIDAVIT

I hereby certify under penalty of perjury, the following:

1. I am a Registered Surveyor in the State of Minnesota.
2. On December 18, 2003 we established a point 587 feet, north of the northwest leg of the radio tower located in the southwest corner of the NW¼ Section 17-T102N-R19W, at an astronomic azimuth of  $0^{\circ}00'00''$ . To establish this point we used LEICA GPS 500 Equipment and Freeborn County Coordinate System 1996 HARN Adjustment. The Theta angle from grid to astronomic at the tower leg is  $0^{\circ}33'13''$ .
3. I do hereby certify that each of the two sections of the Minnesota Public Radio, KNSE directional antenna are oriented to a true azimuth of  $00^{\circ}00'$  if pointed using the above established point.



John H. Schulte IV  
Minnesota Registered Land Surveyor  
No. 13807

Dated: December 22, 2003