



1831 Fourth Street  
Sioux City, IA 51101  
Telephone: (712) 293-1896 Fax: (712) 293-1898  
[CalhounCommunications.com](http://CalhounCommunications.com)

## **Directional Antenna Installation Certification**

As the radio station KVSS project engineer, I was responsible for the correct placement of the KVSS directional FM antenna. This KVSS directional FM antenna was placed on the existing KCRO AM tower located at 64<sup>th</sup> and Hartman Street in Omaha, Nebraska.

The KCRO AM tower was surveyed by a Licensed Register Land Surveyor. The data provided by this Licensed Register Land Surveyor was sent to Shively Labs, the directional FM antenna manufacturer. The directional FM antenna was built using this data. Exact instructions were provided by Shively Labs as to the placement of this directional FM antenna on the KCRO AM tower.

These instructions from Shively Labs were followed, when the KVSS directional FM antenna was placed on the KCRO AM tower. Transients were used during the placement of the KVSS directional FM antenna to improve the accuracy of this placement.

I verify that the KVSS directional FM antenna was installed on the KCRO AM tower in accordance with the instructions sent by Shively Labs.

Date: November 22, 2002

Gerald D. Calhoun  
President  
Calhoun Communications, Inc.