



# **OWL ENGINEERING & EMC TEST LABS, INC.**

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**CONSULTING COMMUNICATIONS ENGINEERS • EMC TEST LABORATORIES**

5844 Hamline Avenue North, Shoreview, MN 55126  
651-784-7445 • Fax 651-784-7541

## **ANSI Radiation Measurement Report**

**For Radio Station KHAQ**

**BPH-20090414ABB**

**Facility ID# 86863**

**June 29, 2009**

**Prepared By: Garrett G. Lysiak, P.E.**



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## **Engineering Statement**

On June 26, 2009 on-site measurements were performed on the co-located KHAQ and licensed KXNP radio communications facility in Maxwell, NE. The radio stations were operated at their licensed operating power and KHAQ was operating at the full 100 Kw. The site is surrounded by a fence that restricts access to the entire site to the general public and the tower itself is surrounded by a locked fence. Therefore the site is considered an occupation/controlled area.

## **Measurement Procedures**

The measurement procedures outlined in FCC Bulletin OET-65 were followed in obtaining the Radiation measurements. A Holaday HI-30112 Broadband Exposure Meter with an E-field probe was used to obtain the measurements. This meter complies with all the requirements contained in FCC Bulletin OET 65. The transmitters were verified to be operating at the licensed operating power. The measurements were performed around the base of the tower in order to obtain the radiation field that is present with the facilities operating at full power. The survey meter has a peak-reading option, which allowed the measurement of the peak value to be saved during the probe movement.

All of the measurements demonstrated that the ANSI RF Radiation limit of  $0.2 \text{ mW/cm}^2$  for the general population was not exceeded at any point that was accessible to anyone on the site.

The area near the two transmitters was also checked for any RF radiation and none of the measurements exceeded the standards.



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## Summary

Based on my on-site measurements of the KHAQ and KXNP communications facility it is my professional opinion that the communications facility would be in complete compliance for RF radiation under the ANSI/IEEE C95.1-1992 standard since no measured values exceeded the maximum exposure level of  $0.2 \text{ mW/cm}^2$  at any point in and around the tower base area.

A handwritten signature in black ink that reads "Garrett G. Lysiak".

Garrett G. Lysiak, P.E.  
June 29, 2009