

## **KTOQ – Rapid City, SD**

### **Radiofrequency Radiation Guidelines compliance Study**

This site has been evaluated for potential of human exposure to non-ionizing radiofrequency radiation. The guidelines set forth in OET Bulletin No. 65 (Edition 97-01) and the companion Supplement A (Edition 97-01) were used as the standard for this evaluation

The 1560 kHz, KTOQ facility operates with a daytime and nighttime power of 1.0 kW into a single non-directional tower. The vertical element is 148.6° in electrical length or 0.412 wavelengths.

Table 3 of Supplement A specifies for 0.41–0.55 wavelength AM towers operating on 1340 kHz with a total input power of 1.0 kW or less, the non-ionizing radiation will fall to safe levels at distances of 2 meter or more.

A fence exists around the base of the tower to achieve this level of protection. Access to the area within the fence is limited by means of locked gates. In addition to these measures, signs will also be posted warning of the potential for exposure to excessive levels of non-ionizing radiofrequency radiation.

In the event maintenance personnel are required to work within the restricted area, they will be advised to limit their work in the high RF field areas to specified periods of time appropriate for compliance with the FCC guidelines set forth in OET Bulletin No. 65 (Edition 97-01). If their work cannot be completed within the specified period of time, it is proposed to reduce power appropriately or shut down the operation of the station to permit completion of the assignment. There are no additional sources of radiofrequency radiation subject to the guidelines of OET Bulletin No. 65 (Edition 97-01) at this location.