

## **ENVIRONMENTAL COMPLIANCE STATEMENT**

### **KTNE-DT**

Nebraska Educational Telecommunications

June 2008

KTNE-DT is mounted on an existing registered tower (ASR #1029931), built in 1966. Since there are no changes to the height of the tower or its silhouette, the proposal will not trigger an environmental action.

The proposed 27 kW digital television facility will operate at an antenna height of 437.6 meters above ground. Using the OET 65 formulas, we can determine that at the base of the tower, at head height (2 meters), this station will produce a power density of 0.19 microwatts per square centimeter which amounts to 0.019% for a controlled environment and 0.095% for an uncontrolled environment. This calculation includes use of the vertical elevation field of 20% for the high-gain antenna proposed to be used. Since this value is well less than one percent, no further R.F. analysis was deemed necessary.

The proposed tower also holds the antenna of KTNE-FM. This 100 kW station produces 48.5 microwatts per square centimeter, which is 4.85 percent for a controlled environment and 24.3 percent for an uncontrolled environment.

The applicant will reduce power to safe levels or terminate transmissions in the event a worker must go on to the tower and be at a distance from the antenna such that over exposure would result. The applicant has an agreement with the other user of the tower cooperate in the event that protection to workers on the tower is required.

Consequently, it appears that the proposed transmitter site will be in full compliance with the Commission's human exposure to radio frequency electromagnetic field rules and regulations.

Doug Vernier