

## **ENVIRONMENTAL COMPLIANCE STATEMENT**

### **KUON-DT**

University of Nebraska

June 2008

The applicant proposes to terminate use of its current channel 40 DTV antenna, and to use its existing channel-twelve analog antenna for its post transition DTV operation. No changes are proposed to the existing tower now holding the antenna. The current channel 40 DTV antenna will be removed at some future time. Since there are no changes to the height of the tower or its silhouette (except for the eventual removal of the channel 40 antenna) the proposal will not trigger an environmental action.

The proposed 75 kW digital television facility will operate at an antenna height of 250 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 1.630 microwatts per square centimeter which amounts to 0.163% for a controlled environment and 0.815% 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 and there are no other broadcast antennas on the tower, no further R.F. analysis was deemed necessary.

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.

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