

ENVIRONMENTAL COMPLIANCE STATEMENT

KRNE-DT

Nebraska Educational Telecommunications

April 2008

The applicant proposes to terminate use of its current channel 17 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 17 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 17 antenna) the proposal will not trigger an environmental action.

The proposed 30 kW, horizontally polarized, digital television facility will operate at an antenna height of 298 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 0.46 microwatts per square centimeter which amounts to 0.046% for a controlled environment and 0.2% 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; however we include information about the FM station on the tower for clarity purposes.

The proposed tower also holds the antenna of KRNE-FM. This 100 kW station has its antenna mounted at 268 meters above the ground. At head height it produces 94.4 microwatts per square centimeter, which is 9.4% for a controlled environment and 47.2% for an uncontrolled environment. There are no other broadcast type antennas on this tower.

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