

ENVIRONMENTAL COMPLIANCE STATEMENT

KTNE-DT

Nebraska Educational Telecommunications

February 2008

The applicant proposes to terminate use of its current channel 24 DTV antenna, and to use its existing channel-nine analog antenna for its post transition DTV operation. No changes are proposed to the existing tower now holding the antenna. The current channel 24 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 24 antenna) the proposal will not trigger an environmental action.

The proposed 17.5 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 0.12 microwatts per square centimeter which amounts to 0.0123% for a controlled environment and 0.06% 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.

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