NONIONIZING RADIATION COMPLIANCE
Midessa Television LP
Big Spring, TX

The proposed facilities will fully comply with the current FCC Standard with regard to human exposure to nonionizing radiation. The proposed antenna will be side mounted at the top of a proposed new tower that will stand 90.8 meters above ground. This proposed antenna will be mounted with its center of radiation 83.5 meters above ground level. Equation (2), found on Page 30 of Supplement A to OET Bulletin 65, details the calculation technique used to determine the power density at the base of a TV broadcast tower. In this case, however, it is necessary to substitute the proposed average DTV effective radiated power (174 kilowatts) for the expression $[0.4ERP_v + ERP_A]$ in this equation to compensate for the fact that DTV power levels are expressed in terms of average power, rather than peak power, as is the case for the visual portion of an analog TV signal. Using the vertical radiation pattern data for the proposed antenna detailed in Exhibit 40 to this application and substituting these values into this equation yields a predicted maximum power density at two meters above ground level of 10.3 $\mu W/cm^2$, which will occur at a depression angle of 68 degrees below horizontal and at a distance of 32.9 meters from the base of this tower. Since the maximum permitted power density for uncontrolled exposure on TV Channel 33 is 389.3 $\mu W/cm^2$, this amounts to only 2.65% of the permitted level for uncontrolled exposure. Since this is less than 5% of the permitted level, the proposed facilities are excluded from environmental processing and need not be considered in conjunction with any other co-located and nearby facilities to establish compliance with this standard for uncontrolled exposure.

The proposed facility will also take appropriate steps to insure that workers who must climb this tower will not be exposed to power densities exceeding the permitted levels for controlled exposure. This will include a reduction in power or the cessation of operation, as appropriate, at any time that workers must be on this tower in any area where the total power density exceeds the permitted level for controlled exposure.