

EXHIBIT 12
(Page 1 of 2)

NONIONIZING RADIATION COMPLIANCE

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The proposed facilities will fully comply with the current FCC Standard with regard to human exposure to nonionizing radiation. The proposed facilities will operate on Channel 42 with a maximum average effective radiated power of 2.9 kilowatts using an Andrew AL8 non-directional antenna that will be side mounted at the 42 meter level on an existing 45 meter tower. There are several other non excluded RF sources located within 315 meters of this structure.

Equation (2), found on Page 30 of Supplement A to FCC OET Bulletin No. 65, details the calculation technique for determining the power density levels for a TV broadcast facility. In this case, however, it is necessary to substitute the proposed average DTV effective radiated power 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 manufacturer's vertical radiation pattern data, this equation yields a maximum predicted power density of $0.51 \mu\text{W}/\text{cm}^2$ at two meters above ground level, which will occur at a depression angle of 50° below horizontal and at a horizontal distance of 33.6 meters from the tower base. Since the permitted power density for uncontrolled exposure on Channel 42 is $425.3 \mu\text{W}/\text{cm}^2$, this amounts to only 0.12% of the permitted level for uncontrolled exposure. Since this value is less than 5% of the permitted level, the proposed facilities are excluded from environmental processing under this standard and need not be considered in conjunction with other co-located or nearby facilities in evaluating uncontrolled exposure compliance with this standard.

EXHIBIT 12
(Page 2 of 2)

The applicant, in conjunction with the other co-located and nearby facilities, will also take appropriate steps to insure that workers that must be on this tower will not be exposed to levels of nonionizing radiation that are in excess of the permitted level for controlled exposure. These steps will include the cessation of operation or a reduction in power, as appropriate, when work becomes necessary in areas on this tower where the power density levels are in excess of the permitted level for controlled exposure.