

EXHIBIT 46  
(Page 1 of 2)

NONIONIZING RADIATION COMPLIANCE  
Delmarva Broadcast Service, LLC  
Salisbury, MD

The proposed WMDT-DT maximized post-transition digital facilities will fully comply with the current FCC Standard with regard to human exposure to nonionizing radiation. This facility will operate with an average maximum effective radiated power of 350 kilowatts using a Dielectric TFU-20GTH-R C170 SP directional antenna which will be top mounted with its center of radiation 304 meters above ground level on the existing WMDT tower.

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 at the base of a TV broadcast tower. In this case, however, it is necessary to substitute the proposed average DTV effective radiated power (350 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. Utilizing the vertical pattern data for this antenna from Exhibit 43 in conjunction with this equation yields a predicted worst case maximum power density of  $1.84 \mu\text{W}/\text{cm}^2$  at two meters above ground level, which will occur at a depression angle of  $72.5^\circ$  below horizontal. Since the permitted power density for uncontrolled exposure on Channel 47 is  $445.3 \mu\text{W}/\text{cm}^2$ , this amounts to only 0.41% of the permitted level for uncontrolled exposure. Since this value is less than 5% of the permitted level, the proposed WMDT-DT post-transition digital 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 compliance with this standard.

EXHIBIT 46  
(Page 2 of 2)

WMDT-DT, in conjunction with other co-located and nearby stations, will continue to 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 total power density levels are in excess of the permitted level for controlled exposure.