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NONIONIZING RADIATION COMPLIANCE  
Kent State University  
Kent, OH

WKSU-FM's auxiliary antenna system will continue to fully comply with the current FCC Standard with regard to human exposure to nonionizing radiation, even at the increased power level. It will utilize the presently licensed antenna, an ERI SHPX-2AE, two bay circularly polarized antenna, which is mounted 168 meters above ground on the tower which also supports WKSU-FM's recently modified main antenna system, as well as several other FM and TV antennas and will operate with a nondirectional effective radiated power of 14 kilowatts.

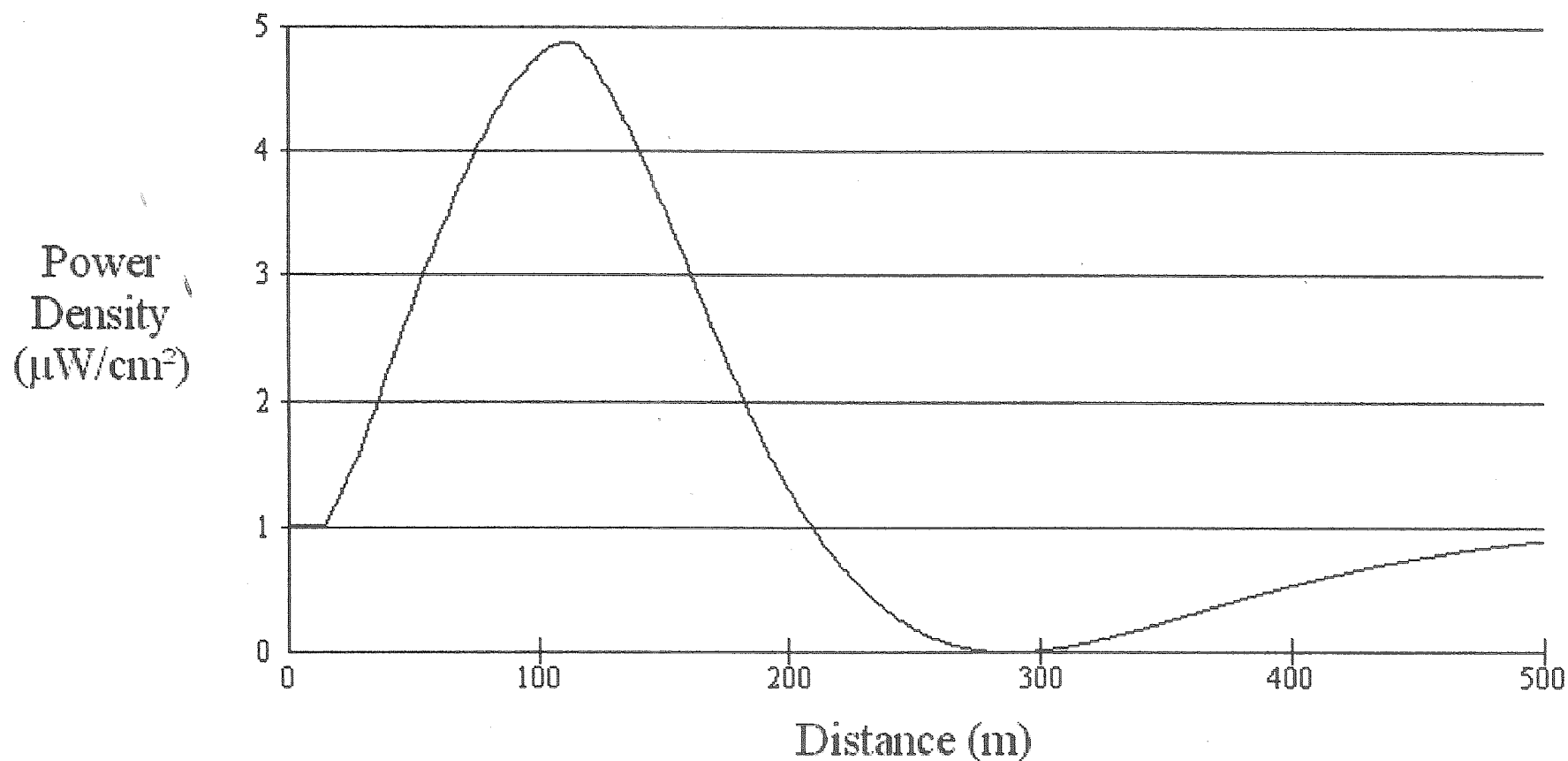
The predicted power density levels for these modified auxiliary facilities at two meters above ground level were calculated using the FCC's "FM Model" computer program. The results of these calculations are depicted in Figure 30.0. As shown in this figure, the maximum predicted power density at two meters above ground level is  $4.88 \mu\text{W}/\text{cm}^2$ , which occurs at a distance of 111 meters from the base of the tower. Since the permitted power density level for uncontrolled exposure to nonionizing radiation in the FM band is  $200 \mu\text{W}/\text{cm}^2$ , this amounts to only 2.44% of the permitted level. Since this value is less than 5% of the permitted level, this auxiliary antenna is excluded from environmental processing under this FCC Standard and need not be considered in conjunction with any other nearby facilities in evaluating uncontrolled exposure compliance with this standard.

The permittee will also continue to cooperate with other users on this tower 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, by WKSU-FM (in conjunction with other co-located stations) when work

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becomes necessary in areas on this tower where the power density levels are in excess of the permitted level for controlled exposure.

# Power Density vs Distance



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Distance (m):  Antenna Type:

Horizontal ERP (W):  Number of Elements:

Vertical ERP (W):  Element Spacing:

Antenna Height (m):

FIG. 30.0

PREDICTED WKSU-FM POWER DENSITIES  
(AUXILIARY ANTENNA - 14 kW ERP)

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