

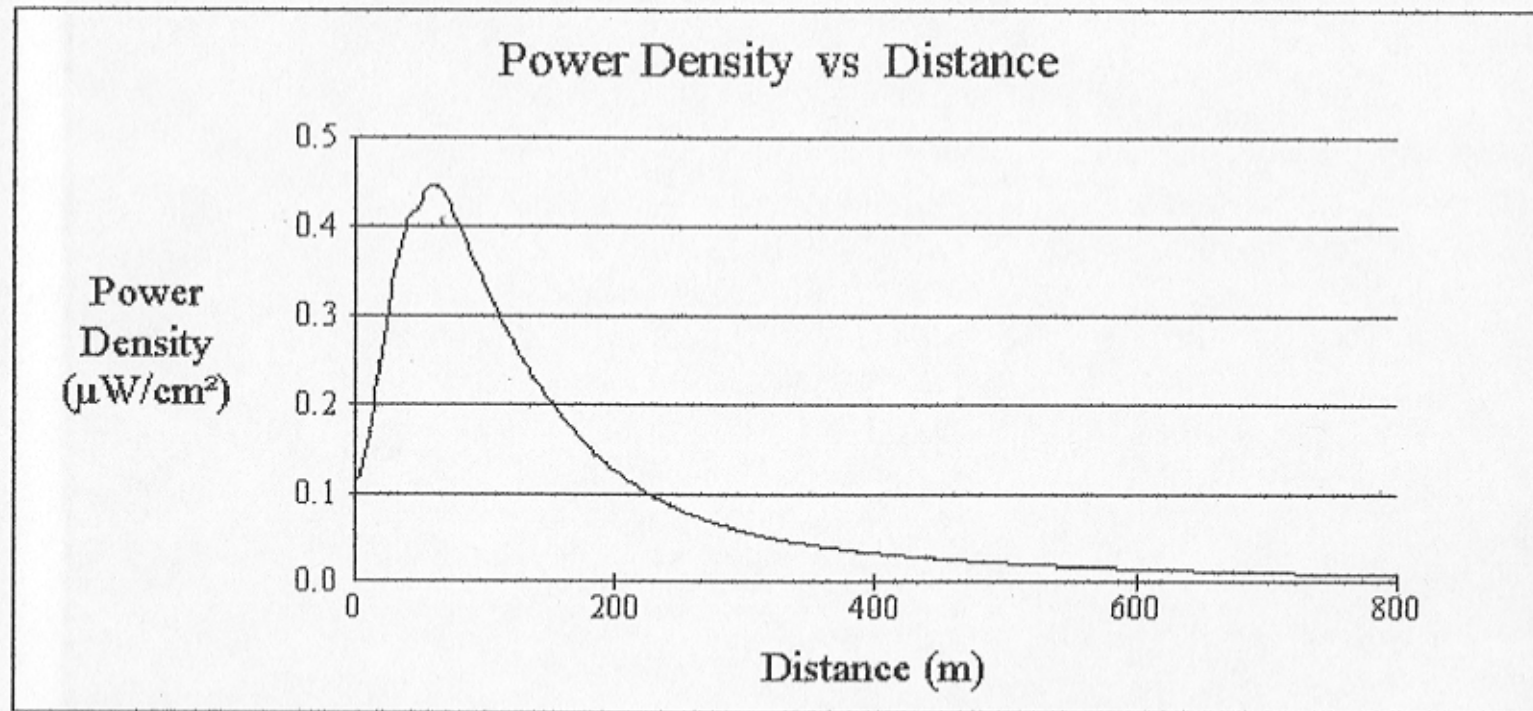
EXHIBIT 16  
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NONIONIZING RADIATION COMPLIANCE

Kent State University  
Ashland, OH

The proposed facilities will fully comply with the current FCC Standard with regard to human exposure to nonionizing radiation. The proposed facilities will employ a Jampro JLLP-1 one bay circularly polarized antenna that will be mounted at the 59.4 meter level on an existing 77.1 meter tower and will operate with an effective radiated power of 80 watts. The power density calculations at two meters above ground level for the proposed facilities were conducted using the FCC's "FM Model" computer program. The results of these calculations are shown in Figure 16.0. As can be seen from an examination of this figure, the maximum power density generated by the proposed facilities at two meters above ground level will be  $0.45 \mu\text{W}/\text{cm}^2$ , which will occur at a distance of 59.2 meters from the base of the tower. Since the permitted power density for uncontrolled exposure in the FM band is  $200 \mu\text{W}/\text{cm}^2$ , this amounts to 0.23% of the permitted level. 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 any other co-located or nearby facilities in evaluating compliance with this FCC Standard.

The applicant will also take appropriate steps to insure that workers that must climb the tower that will support the proposed antenna 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 on this tower in the areas where the total power density levels are in excess of the permitted level for controlled exposure.



Office of Engineering and Technology

Distance (m):	<input type="text" value="800"/>	Antenna Type:	<input (epa)"="" double="" type="text" v"="" value="Jampro "/>
Horizontal ERP (W):	<input type="text" value="80"/>	Number of Elements:	<input type="text" value="1"/>
Vertical ERP (W):	<input type="text" value="80"/>	Element Spacing:	<input type="text" value="1"/>
Antenna Height (m):	<input type="text" value="59.4"/>		

FIG. 16.0

POWER DENSITY CALCULATIONS

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