

EXHIBIT 17
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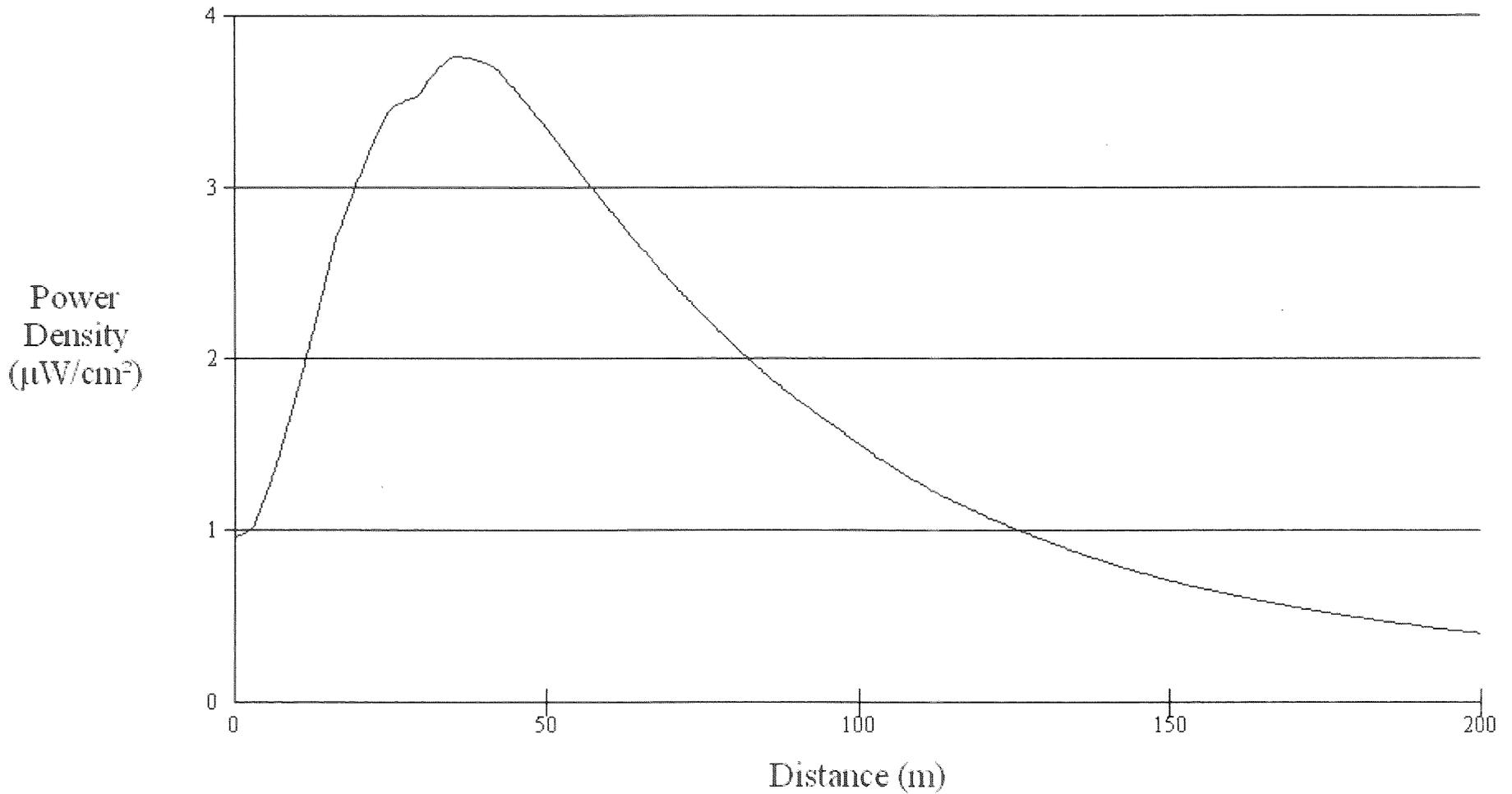
NONIONIZING RADIATION COMPLIANCE
University of Massachusetts
Great Barrington, MA

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 JLPC-1, single bay circularly polarized non-directional antenna that will be mounted at the 37 meter level on an existing 78.6 meter tower. There are other excluded and non-excluded sources located within 315 meters of this site.

The predicted power density levels at two meters above ground level for the proposed facilities were calculated using the FCC's "FM Model" computer program. The results of these calculations are shown in Figure 17.0. This figure shows that the worst case predicted power density at two meters above ground level for these proposed facilities will be $3.75 \mu\text{W}/\text{cm}^2$, which will occur at a horizontal distance of 36 meters from the base of this tower. Since the permitted power density for uncontrolled exposure in the FM band is $200 \mu\text{W}/\text{cm}^2$, this amounts to only 1.88% of the permitted level. Since this 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.

The applicant will 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.

Power Density vs Distance



Office of Engineering and Technology

Distance (m):	<input type="text" value="200"/>	Antenna Type:	<input (epa)"="" double="" type="text" v"="" value="Jampro "/>
Horizontal ERP (W):	<input type="text" value="250"/>	Number of Elements:	<input type="text" value="1"/>
Vertical ERP (W):	<input type="text" value="250"/>	Element Spacing:	<input type="text" value="1"/>
Antenna Height (m):	<input type="text" value="37"/>		

FIG. 17.0

POWER DENSITY CALCULATIONS
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