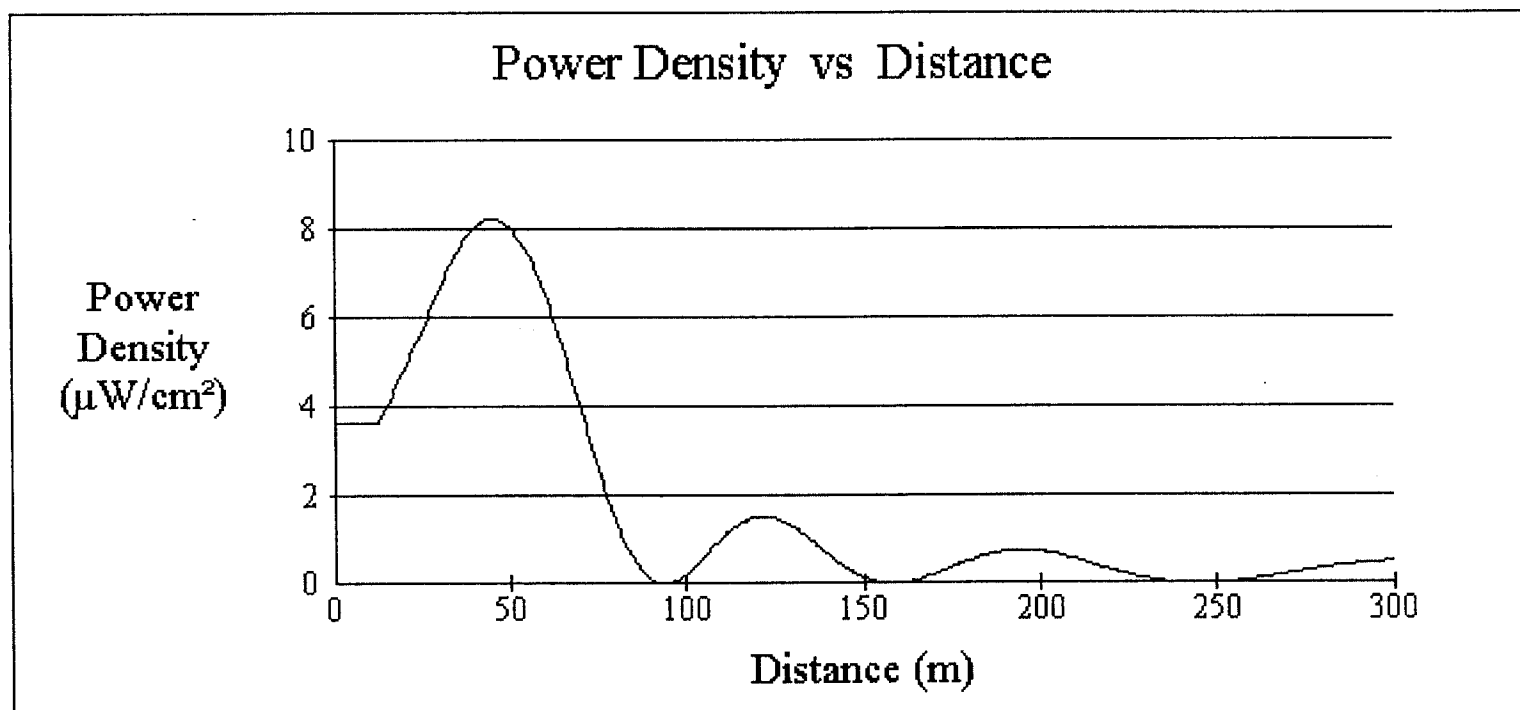


NONIONIZING RADIATION COMPLIANCE

Mid-West Management, Inc.  
Madison, WI

The WMGN facilities will continue to fully comply with the current FCC Standard with regard to human exposure to nonionizing radiation. These WMGN facilities will operate with an effective radiated power of 36 kilowatts using a Continental G5CPS-6AC six bay circularly polarized antenna. The center of radiation of this antenna is located 143.3 meters above ground level. The predicted power density levels at two meters above ground level for these facilities were calculated using the FCC's "FM Model" computer program. The results of these calculations are shown in Figure 30.0. As shown in this figure, the maximum power density predicted for these facilities at two meters above ground level will be  $8.2 \mu\text{W}/\text{cm}^2$ , which will occur at a horizontal distance of 45 meters from the base of this tower. Since the permitted power density for uncontrolled exposure to nonionizing radiation in the FM band is  $200 \mu\text{W}/\text{cm}^2$ , this amounts to only 4.1% of the permitted level. Since this value is less than 5% of the permitted level for uncontrolled exposure, the WMGN facilities are excluded from environmental processing under this FCC Standard and need not be considered in conjunction with any other nearby facilities to evaluate uncontrolled exposure compliance with this standard.

The licensee of WMGN will also continue to take the necessary 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.



Office of Engineering and Technology

Distance (m):	<input type="text" value="300"/>	Antenna Type:	<input type="text" value="ERI or JAMPRO JBCP 'Rototiller' (EPA)"/>
Horizontal ERP (W):	<input type="text" value="36000"/>	Number of Elements:	<input type="text" value="6"/>
Vertical ERP (W):	<input type="text" value="36000"/>	Element Spacing:	<input type="text" value="1"/>
Antenna Height (m):	<input type="text" value="143.3"/>		

FIG. 30.0

WMGN POWER DENSITY CALCULATIONS

Mid-West Management, Inc.  
Madison, WI