

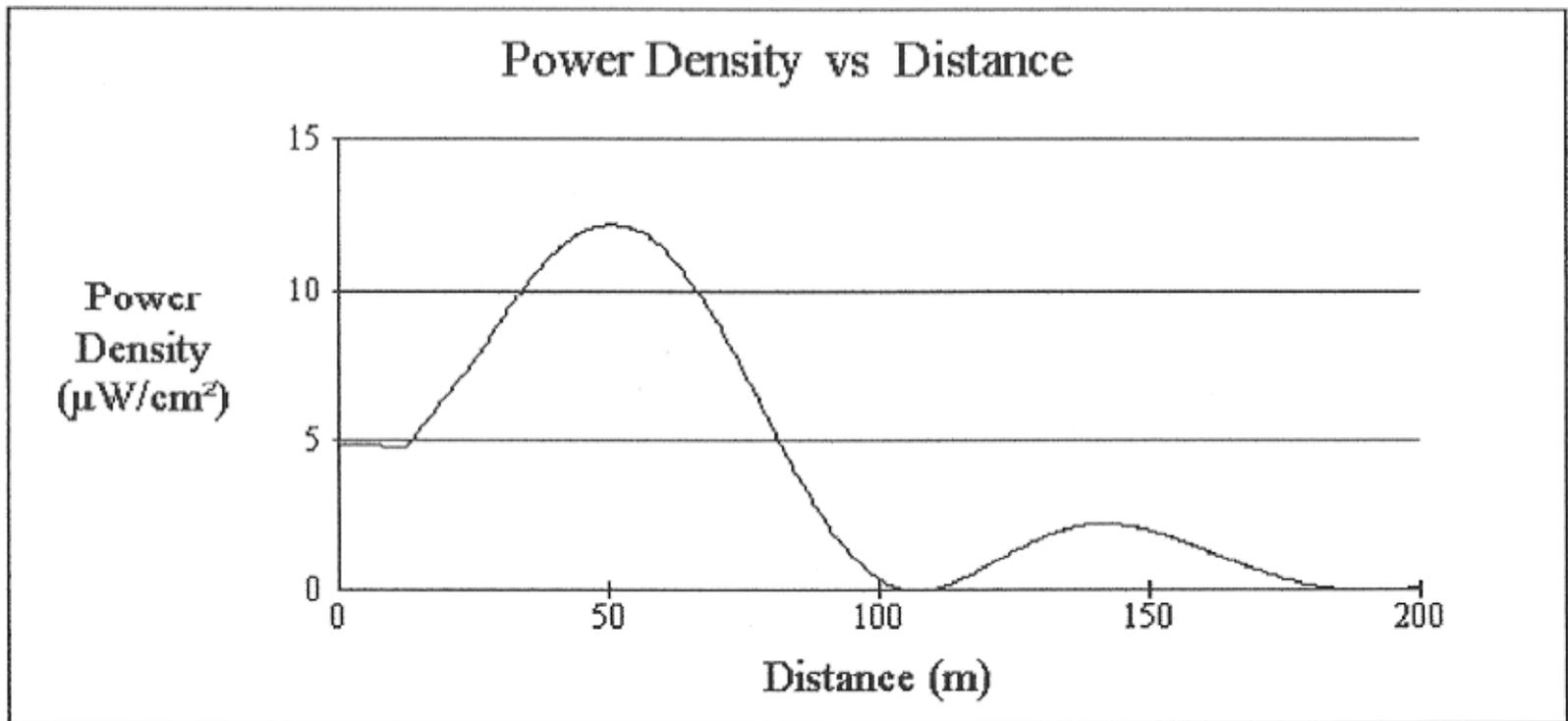
NONIONIZING RADIATION COMPLIANCE

Rubber City Radio Group
Charlotte, MI

WJXQ will continue to fully comply with the current FCC Standard with regard to human exposure to nonionizing radiation. WJXQ will utilize an ERI SHPX-5AE five bay circularly polarized antenna mounted at the 144.8 meter level on an existing 152.4 meter tower. There are no other known non-excluded RF sources located within 315 meters of this tower.

The power density levels at two meters above ground level for WJXQ were calculated using the FCC's "FM Model" computer program. The results of these calculations are shown in Figure 30.0. As can be seen from an examination of this figure, the maximum predicted power density for these facilities at two meters above ground level is $12.1 \mu\text{W}/\text{cm}^2$, which occurs at a horizontal distance of 50.4 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 6.1% of the permitted level. Thus, the continued operation of WJXQ from this site will not expose members of the general public to levels of nonionizing radiation that are in excess of the permitted level for uncontrolled exposure.

WJXQ 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 will be in excess of the permitted level for controlled exposure.



Office of Engineering and Technology

Distance (m):	200	Antenna Type:	ERI of JAMPRO JBCP "Rototiller" (EPA)
Horizontal ERP (W):	49000	Number of Elements:	5
Vertical ERP (W):	49000	Element Spacing:	1
Antenna Height (m):	144.8		

FIG. 30.0

WJXQ POWER DENSITY CALCULATIONS

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