

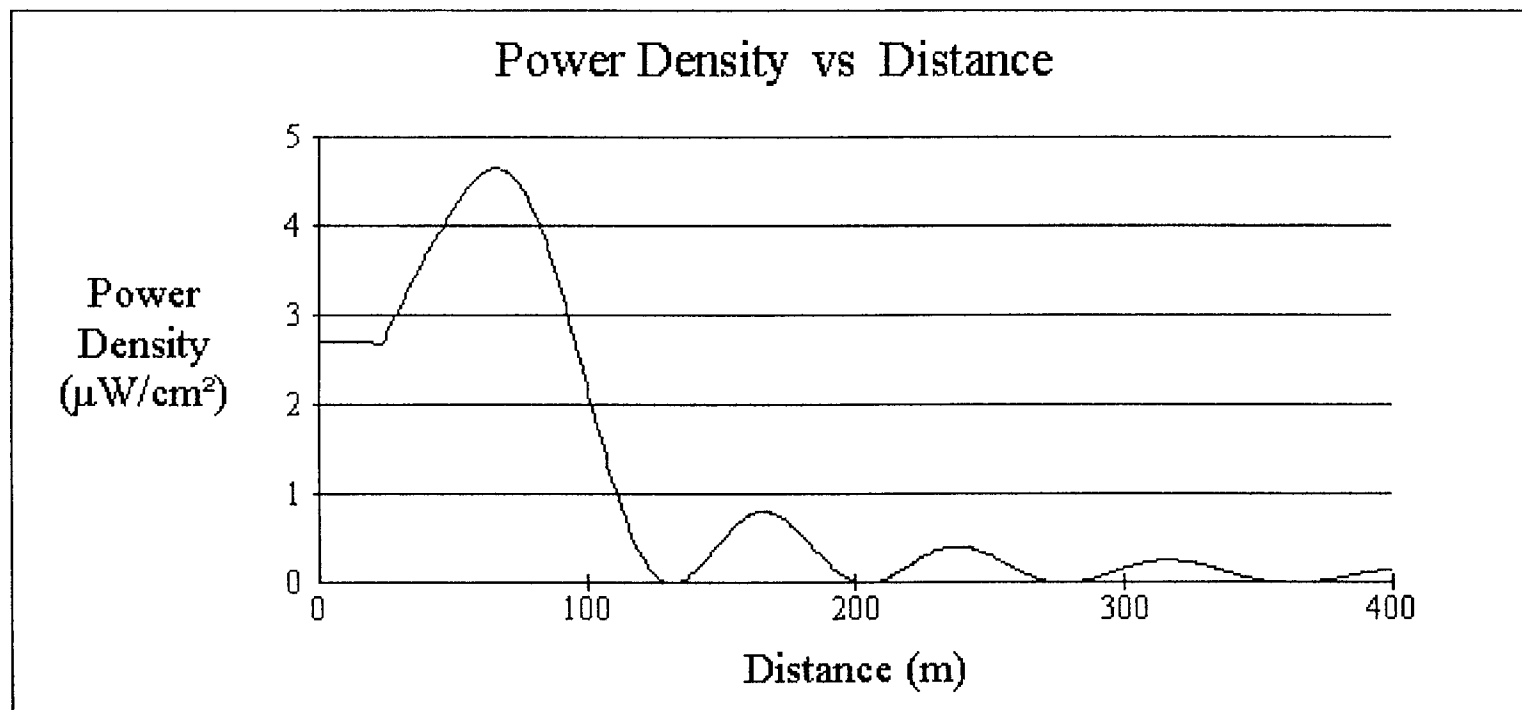
EXHIBIT 30
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NONIONIZING RADIATION COMPLIANCE

Journal Broadcast Corporation
Nebraska City, NE

KBBX-FM fully complies with the current FCC Standard with regard to human exposure to nonionizing radiation. KBBX-FM utilizes an ERI LPX-10C-SP ten bay circularly polarized antenna that is mounted with its center of radiation 274 meters above ground level on an existing 294.7 meter tower and operates with an effective radiated power of 100 kilowatts. The predicted power density levels at two meters above ground level for KBBX-FM 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 KBBX-FM at two meters above ground level is $4.6 \mu\text{W}/\text{cm}^2$, which occurs at a horizontal distance of 66.4 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 2.3% of the permitted level. Since this value is less than 5% of the permitted level, KBBX-FM is excluded from environmental processing under this standard and need not be considered in conjunction with any other co-located or nearby facilities in evaluating uncontrolled exposure compliance with this nonionizing radiation standard.

KBBX-FM 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="400"/>	Antenna Type:	<input type="text" value="ERI or JAMPRO JBCP 'Rototiller' (EPA)"/>
Horizontal ERP (W):	<input type="text" value="100000"/>	Number of Elements:	<input type="text" value="10"/>
Vertical ERP (W):	<input type="text" value="100000"/>	Element Spacing:	<input type="text" value="1"/>
Antenna Height (m):	<input type="text" value="274"/>		

FIG. 30.0

KBBX-FM POWER DENSITY CALCULATIONS

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