

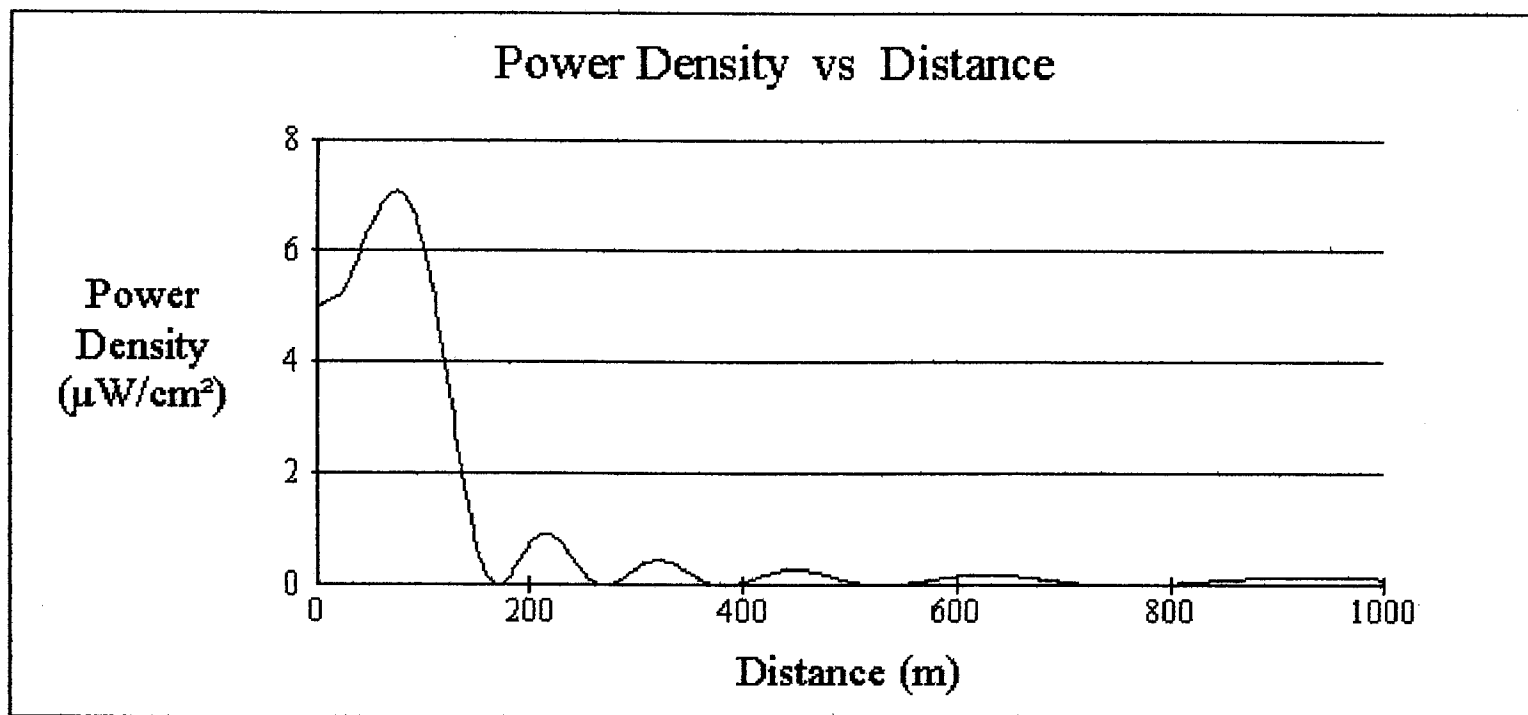
EXHIBIT 29  
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NONIONIZING RADIATION COMPLIANCE  
Journal Broadcast Corporation  
Omaha, NE

The proposed KSRZ facilities will fully comply with the current FCC Standard with regard to human exposure to nonionizing radiation. These proposed facilities will utilize a Jampro JHCP-8R eight bay circularly polarized antenna that will be mounted on the tower that supports the antenna for KMXM(FM) - Omaha, Nebraska. This center of radiation of this antenna will be 308.6 meters above ground level and the proposed KSRZ facilities will operate with a circularly polarized effective radiated power of 100 kilowatts. This tower also supports the antenna for KROC(FM) and the auxiliary antenna system for KKCD(FM). It should be noted that proposed KEZO-FM facilities will also be located on this tower and will be diplexed into the KMXM antenna system. The power density levels at two meters above ground level for the proposed KSRZ facilities were calculated using the FCC's "FM Model" computer program. The results of these calculations are shown in Figure 29.0. As can be seen from an examination of this figure, the maximum power density generated by the proposed KSRZ facilities at two meters above ground level will be  $7.08 \mu\text{W}/\text{cm}^2$ , which will occur at a distance of 74 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 3.54% of the permitted level. Since this value is less than 5% of the permitted level, the proposed KSRZ facilities are excluded from environmental processing under this FCC Standard and need not be considered in conjunction with the other facilities on this tower to evaluate compliance with regard to uncontrolled exposure to nonionizing radiation.

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KSRZ, in conjunction with these other co-located facilities, will also 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, by one or more of these stations when work becomes necessary in areas on this tower where the total power density levels will be in excess of the permitted level for controlled exposure.



**Office of Engineering and Technology**

<b>Distance (m):</b>	<input type="text" value="1000"/>	<b>Antenna Type:</b>	<input (epa)"="" double="" type="text" v"="" value="Jampro "/>
<b>Horizontal ERP (W):</b>	<input type="text" value="100000"/>	<b>Number of Elements:</b>	<input type="text" value="8"/>
<b>Vertical ERP (W):</b>	<input type="text" value="100000"/>	<b>Element Spacing:</b>	<input type="text" value="1"/>
<b>Antenna Height (m):</b>	<input type="text" value="308.6"/>		

FIG. 29.0

KSRZ POWER DENSITY CALCULATIONS

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