

EXHIBIT 24  
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NONIONIZING RADIATION COMPLIANCE  
Riverview Baptist Christian Schools  
Pasco, WA

The proposed KOLU facilities will fully comply with the current FCC Standard with regard to human exposure to nonionizing radiation. The proposed facilities will employ the currently licensed Dielectric DCR-M4, four bay circularly polarized non-directional antenna that is mounted at the 43 meter level on an existing 48.8 meter tower. There are several RF sources located within 315 meters of the proposed transmitter site, but all except two of them are excluded sources, which don't have to be included in this evaluation. The two non-excluded sources, which are located on an adjacent tower, are:

KBLD	Kennewick, WA	Channel 219C3
KEYW	Pasco, WA	Channel 252C2

The power density levels at two meters above ground level for the proposed KOLU facilities were calculated using the FCC's "FM Model" computer program. The results of these calculations are shown in Figure 24.0. This figure shows that the worst case predicted power density at two meters above ground level for these proposed facilities will be  $172.3 \mu\text{W}/\text{cm}^2$ , which will occur at a horizontal distance of 17.4 meters from the base of this tower. Since the permitted power density in the FM band is  $200 \mu\text{W}/\text{cm}^2$ , this amounts to 86.2% of the permitted level for uncontrolled exposure.

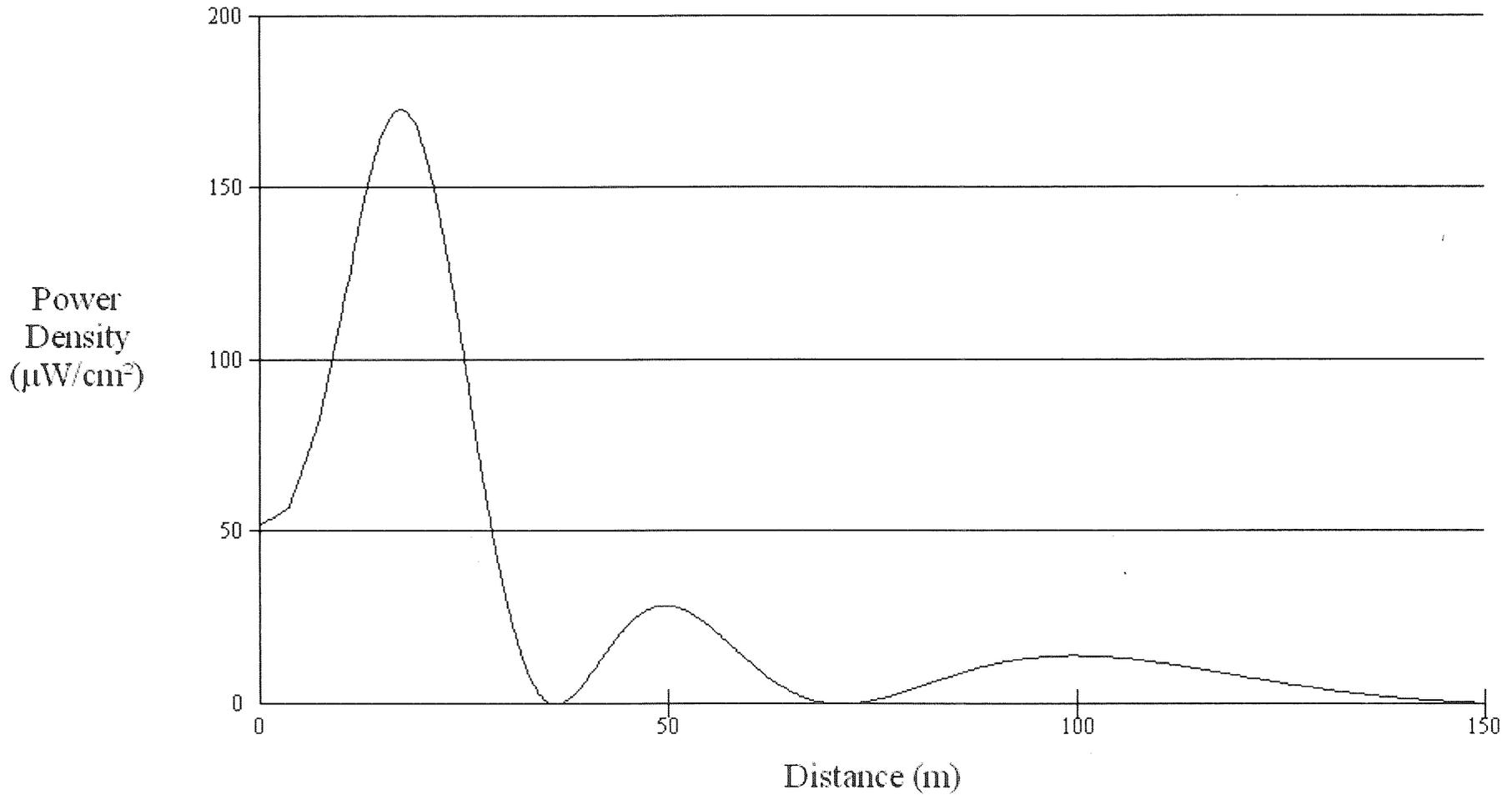
The power density levels at two meters above ground level for KBLD and KEYW were also calculated using the FCC's "FM Model" computer program using information extracted from the Consolidated Database System ("CDBS"). The results of these calculations are shown in Figures 24.1 and 24.2, respectively. These figures show that the worst case predicted power density at two meters above ground level for KBLD will be  $10.2 \mu\text{W}/\text{cm}^2$ , which will occur at a horizontal distance of 13.2 meters from the base of their tower, and  $12.6 \mu\text{W}/\text{cm}^2$  for KEYW, which will occur at a horizontal distance of 156.8 meters from the base of their tower. Since the permitted power density in the FM band is  $200 \mu\text{W}/\text{cm}^2$ , these predicted power densities amount to only 5.1% and 6.3% of

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the permitted level for uncontrolled exposure. When taken in combination with the predicted power density for the proposed KOLU facilities, this results in 97.6% of the permitted level for uncontrolled exposure. Thus, the implementation of the proposed KOLU facilities from this site should not expose members of the general public to total predicted power densities that exceed the permitted level for uncontrolled exposure.

The applicant will also continue to 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 total power density levels exceed the permitted level for controlled exposure.

# Power Density vs Distance



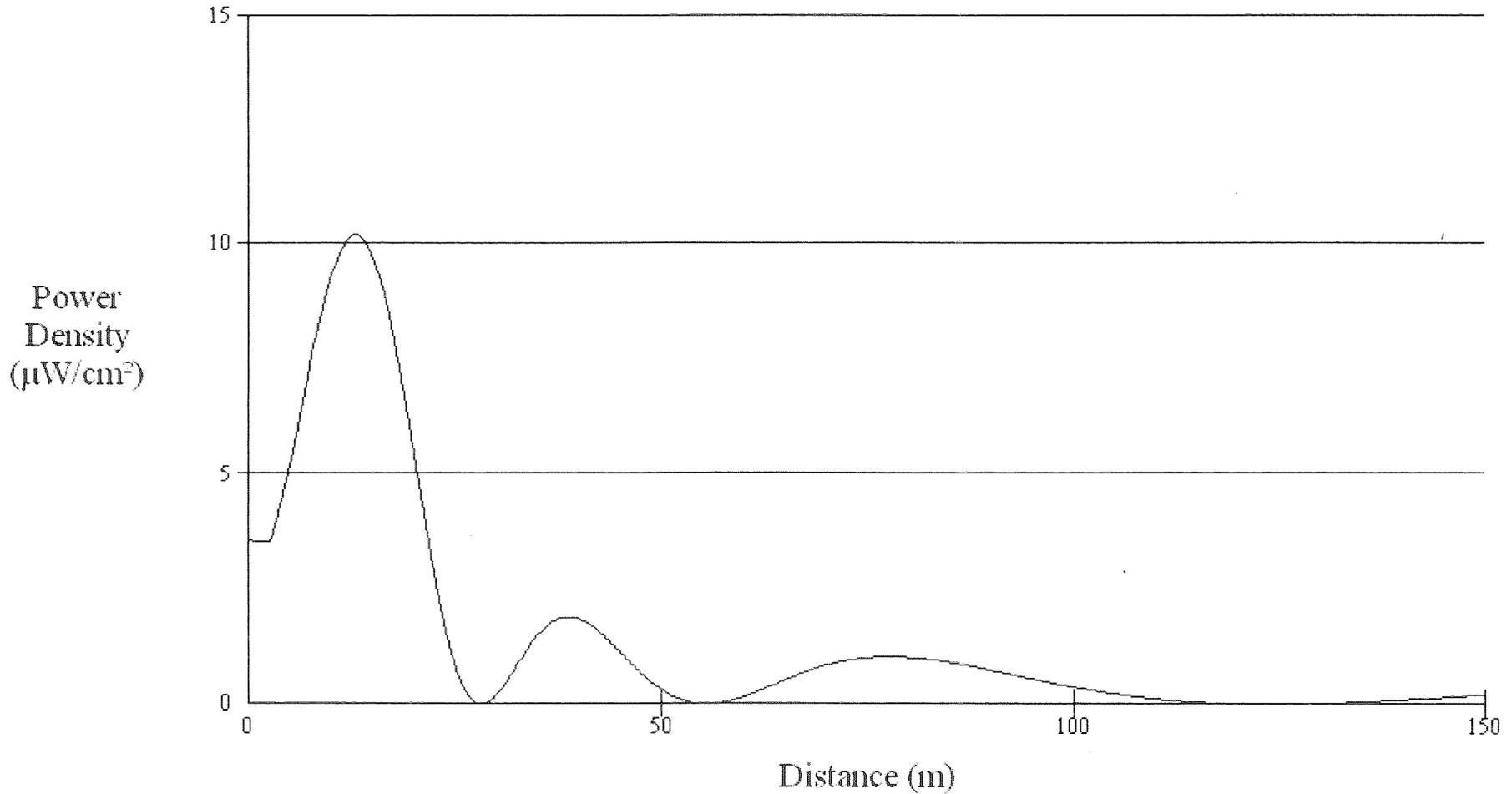
Office of Engineering and Technology

Distance (m):	<input type="text" value="150"/>	Antenna Type:	<input type="text" value="Dielectric DCRM"/>
Horizontal ERP (W):	<input type="text" value="39000"/>	Number of Elements:	<input type="text" value="4"/>
Vertical ERP (W):	<input type="text" value="39000"/>	Element Spacing:	<input type="text" value="1"/>
Antenna Height (m):	<input type="text" value="43"/>		

FIG. 24.0

KOLU POWER DENSITY CALCULATIONS  
Riverview Baptist Christian Schools  
Pasco, WA

# Power Density vs Distance



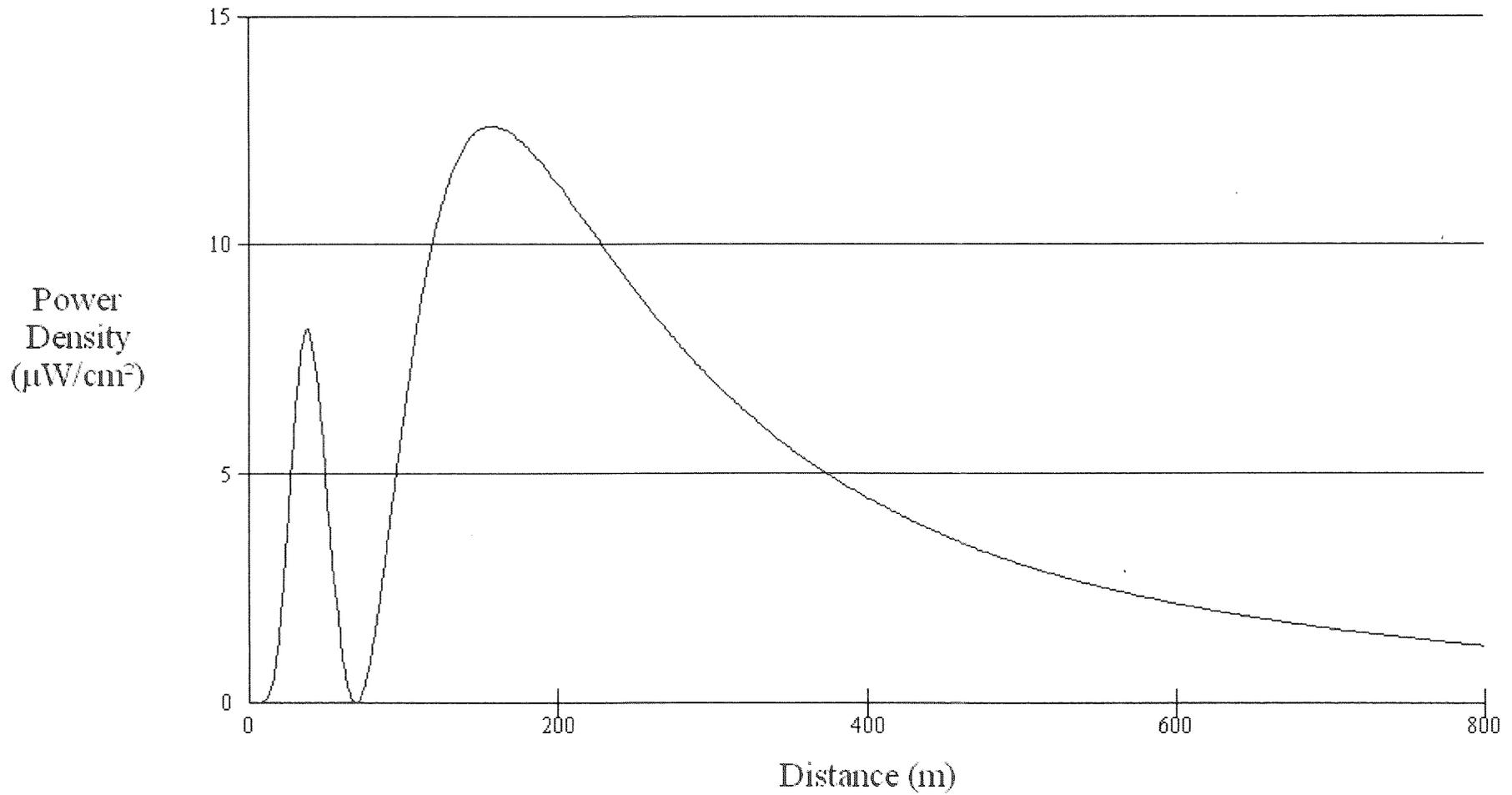
Office of Engineering and Technology

Distance (m):	<input type="text" value="150"/>	Antenna Type:	<input type="text" value="ERI or JAMPRO JBCP 'Rototiller' (EPA)"/>
Horizontal ERP (W):	<input type="text" value="1800"/>	Number of Elements:	<input type="text" value="4"/>
Vertical ERP (W):	<input type="text" value="1800"/>	Element Spacing:	<input type="text" value="1"/>
Antenna Height (m):	<input type="text" value="34"/>		

FIG. 24.1

KBLD POWER DENSITY CALCULATIONS  
Riverview Baptist Christian Schools  
Pasco, WA

# Power Density vs Distance



Office of Engineering and Technology

Distance (m):	<input type="text" value="800"/>	Antenna Type:	<input type="text" value="Shively 6810"/>
Horizontal ERP (W):	<input type="text" value="12500"/>	Number of Elements:	<input type="text" value="4"/>
Vertical ERP (W):	<input type="text" value="12500"/>	Element Spacing:	<input type="text" value=".5"/>
Antenna Height (m):	<input type="text" value="42"/>		

FIG. 24.2

KEYW POWER DENSITY CALCULATIONS  
Riverview Baptist Christian Schools  
Pasco, WA