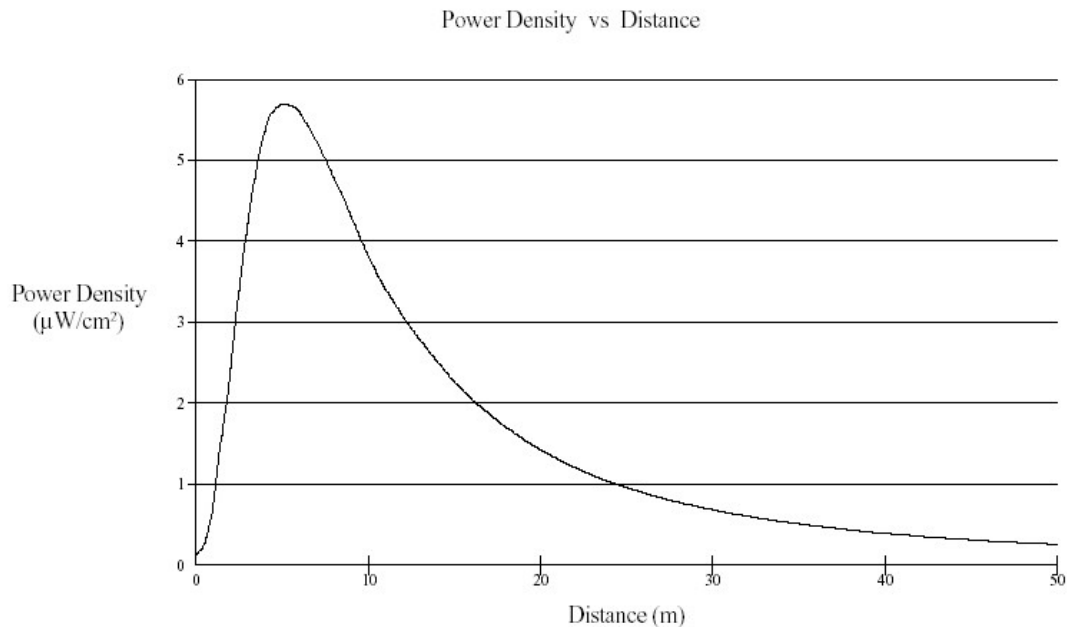


**EXHIBIT 16****ENVIRONMENTAL IMPACT**

The Applicant proposes to mount it's antenna with the center of radiation at 7 meters above ground level. Figure 1. below, shows the maximum power density produced by the proposed facility at a point 5.2 meters above ground is 5.695  $\mu\text{W}/\text{cm}^2$ , .0284 percent of the 200  $\mu\text{W}/\text{cm}^2$  ANSI limit for uncontrolled general population exposure. Therefore, this proposal complies with ANSI standards



Office of Engineering and Technology	
Distance (m): <input type="text" value="50"/>	Antenna Type: <input type="text" value="Shively 6810"/>
Horizontal ERP (W): <input type="text" value="10"/>	Number of Elements: <input type="text" value="1"/>
Vertical ERP (W): <input type="text" value="10"/>	Element Spacing: <input type="text" value="1"/>
Antenna Height (m): <input type="text" value="7"/>	

**Maximum Value of Graph.**  
The Max Power Density was found to be 5.69565437487961  $\mu\text{W}/\text{cm}^2$  at 5.2 meters.  
Note: Graph resolution is 500 points.