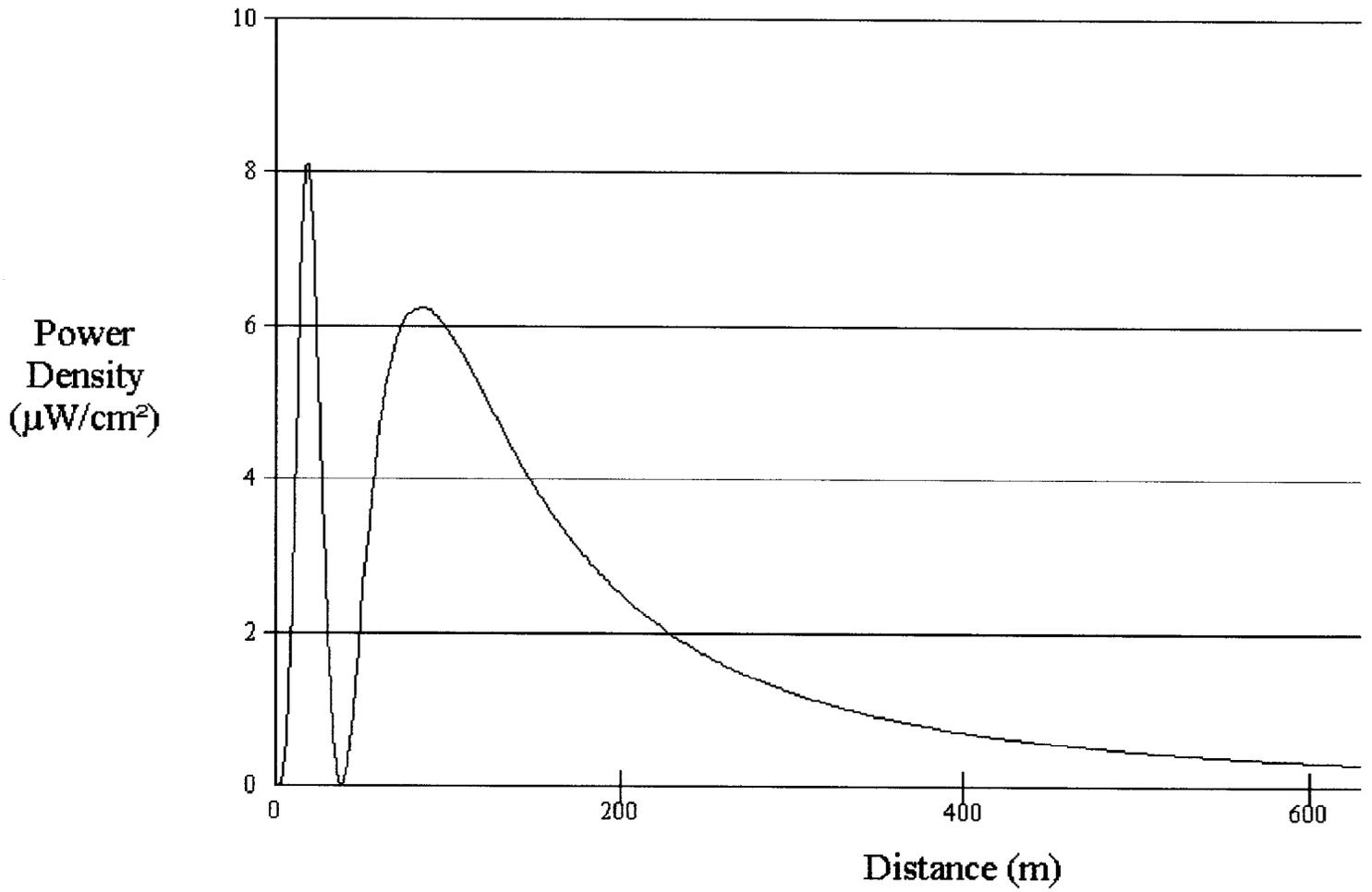


## RADIOFREQUENCY RADIATION ASSESSMENT

This exhibit has been included to address the issue of allowable radiofrequency radiation levels (RFR). The Proposed WPHD 96.1 MHz antenna would conform to the FCC guidelines with respect to OET Bulletin No. 65 (Edition 97-01, August 1997), "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields." It first should be noted that the Proposed WPHD 96.1 MHz is a standalone FM, there are no AM, FM, or TV stations within 1 kilometer of this proposal. Also, there are no other stations of any type that would be required to be factored into the RFR calculations. Included as Subpart 1 of this attachment is a printout showing the FCC's Power Density Program from the FCC's own website. The input values located on this program are for the Proposed WPHD 96.1 MHz antenna. The type of antenna indicated in Subpart 1 and the one to be used for Proposed WPHD 96.1 MHz is a four bay half wave spaced "worst case" circularly polarized antenna. The results from this printout show that the Proposed WPHD 96.1 MHz antenna would have a predicted power density value at ground level of 0.0082 mW per square cm which is lower than 0.2 mW per square cm, the maximum allowable level of RF radiation, which conforms to the FCC maximum permissible uncontrolled/general population RF exposure guidelines.

In addition to showing that the Proposed WPHD 96.1 MHz antenna meets the new OET bulletin No. 65 guidelines for a safe center of radiation, it should be noted that the transmitting tower is appropriately marked with warning signs. When it becomes necessary for workers to ascend the tower, appropriate measures, such as reduction of power or shut down of power if necessary, shall be taken to ensure that the human exposure to radiofrequency electromagnetic fields will not exceed the FCC guidelines. All of this information demonstrates that this application conforms to the new FCC guidelines with respect to OET Bulletin No. 65 (Edition 97-01, August 1997), "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields."

# Power Density vs Distance



Office of Engineering and Technology

Distance (m):	<input type="text" value="800"/>	Antenna Type:	<input type="text" value="Phelps-Dodge 'Ring Stub' or Dipole (EP)"/>
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=".5"/>
Antenna Height (m):	<input type="text" value="24"/>		