

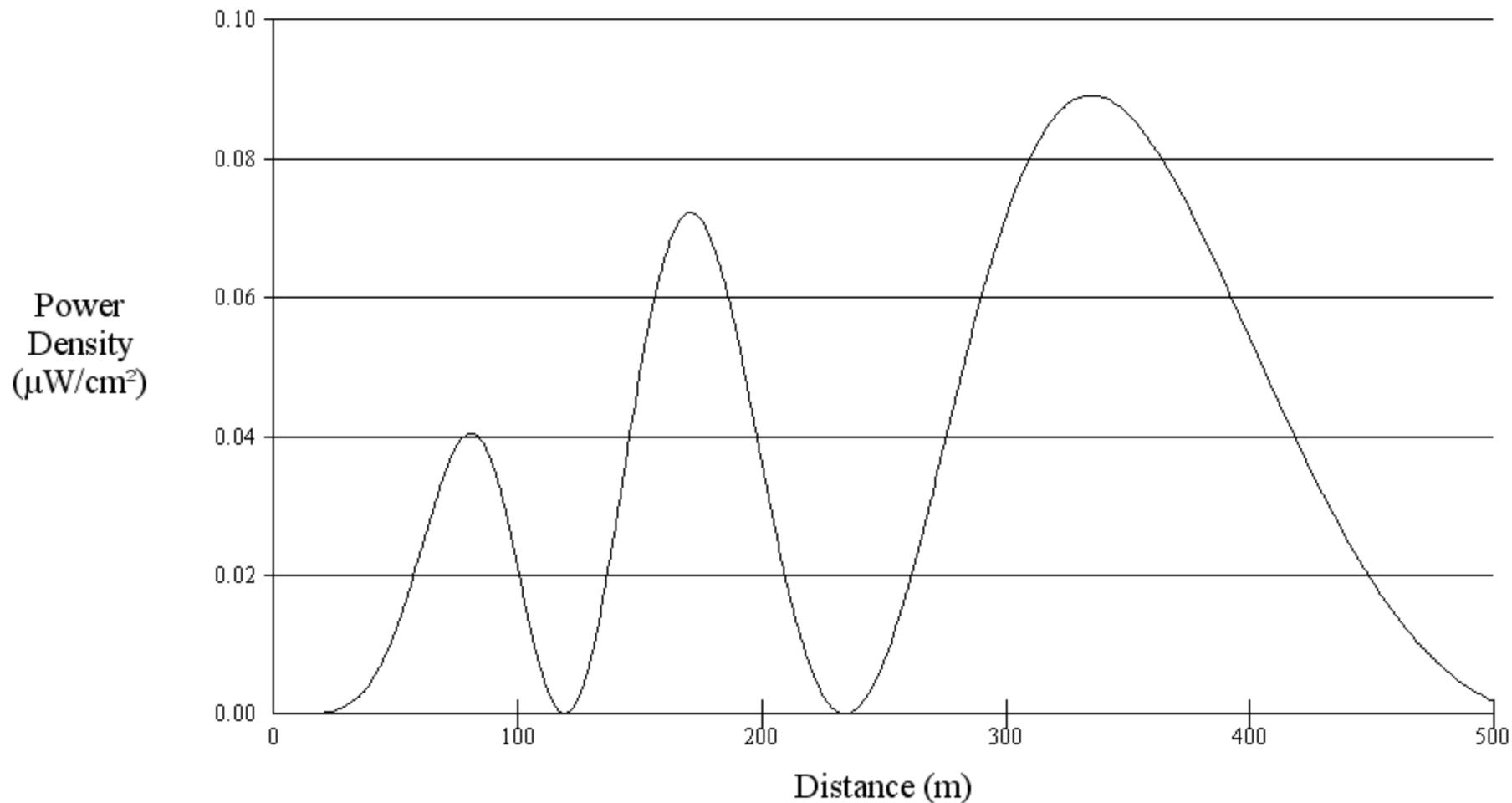
**Human Exposure to Radiofrequency Electromagnetic Field
&
Section 106 Compliance
(Environmental)**

A study has been made to determine whether this proposal is in compliance with 47 C.F.R. 1.1307 of the Commission's rules and with OET Bulletin #65, dated August 1997, regarding human exposure to radio frequency radiation in the vicinity of broadcast towers. Hog Radio, Inc. seeks to modify the license of KCYT Channel 244C2 (96.7 MHz) Facility ID# 51098, licensed to Ozark, Arkansas by reclassifying KCYT to operate on Channel 244C3, licensed to Fayetteville, Arkansas and locate to a different transmitter location. The proposed transmit site is an existing 151.5 meter (496.9 ft.) tower and is registered with an Antenna Structure Registration (ASR) number 1038000. The proposed application site is located at 36° 08' 49.7" N ~ 94° 11' 13.3" W (NAD 27). The antenna will be a side mounted Shively Model 6810 eight bay half wave spaced circularly polarized antenna with a center of radiation of 137.2 meters AGL. KCYT will operate with 4.1 kW ERP at 166.3 meters HAAT. Because KCYT proposes to operate from an existing site, it is exempt from a Section 106 review by the SHPO/THPO.

The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the Commission's OET Bulletin Number 65. The center of radiation is 137.2 meters above ground level. The maximum calculated signal density near the tower at two meters above ground level attributable to the proposed facility is 0.089 $\mu\text{W}/\text{cm}$ at 335 meters, which is 0.044 percent of the general population/uncontrolled maximum permitted exposure limit. This is well below the five percent threshold limit described in 1.1307(b) regarding sites with multiple emitters, which excludes applicant from responsibility for taking any corrective action in areas where the proposal's contribution is less than five percent.

The applicant will see that signs are posted in the vicinity of the tower, warning of potential radio frequency hazards at the site. The applicant will cooperate with other users of the tower to reduce power of the facility, or discontinue operation, as necessary to limit human exposure to levels less than specified by the Federal Communications Commission should anyone be required to climb the tower for maintenance or inspection.

Power Density vs Distance



Office of Engineering and Technology

Distance (m):	<input type="text" value="500"/>	Antenna Type:	<input type="text" value="ERI or JAMPRO JBCP 'Rototiller' (EPA)"/>
Horizontal ERP (W):	<input type="text" value="4100"/>	Number of Elements:	<input type="text" value="8"/>
Vertical ERP (W):	<input type="text" value="4100"/>	Element Spacing:	<input type="text" value=".5"/>
Antenna Height (m):	<input type="text" value="137.2"/>		