

## **KUBT New Auxiliary Antenna Facility RF Study**

The proposed facilities were evaluated in terms of potential radio frequency radiation exposure at ground level in accordance with OET Bulletin No. 65, "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radio frequency Radiation."

The antenna system is an ERI SHPX-2AC-HW, a 2- element; half-wave spaced antenna mounted 93.2 meters above ground on an existing tower. For purposes of this analysis the FM Model program has been set to calculate values for a "Roto Tiller" type of antenna element array, operated with an effective radiated power of 5.5 Kilowatts in both the horizontal and vertical. At 2 meters above the surface, at 179.6 meters from the base of the tower, this proposal will contribute worst case, 4.2 microwatts per square centimeter, or 0.42 percent of the allowable ANSI limit for controlled exposure, and 2.10 percent of the allowable limit for uncontrolled exposure. This figure is less than 5% of the applicable FCC exposure limit at all locations extending out from the base of the tower. Section 1.1307(b)(3) excludes applications when the calculated level is predicted to be less than 5% of the applicable exposure limit. It is therefore believed that this proposal is in compliance with OET Bulletin Number 65 as required by the Federal Communications Commission.

Further, the applicant will see that signs are posted in the vicinity of the tower, warning of potential radio frequency hazards at the site. The site itself is restricted from public access. 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.