

## **Engineering Exhibit**

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 proposed site is upon an existing tower in the "Mount Wilson Electronics Reservation". The antenna system proposed is a 4 section, half wave spaced, Dielectric DCRM antenna mounted with a center of radiation 23.2 meters above ground level, and will operate with an effective radiated power of 5.0 Kilowatts in the horizontal and vertical polarities.

Utilizing the "Dielectric DCRM" antenna type in the microcomputer program "FM Model" it is found that at 2 meters above ground, at 80 meters from the base of the tower, the facility will, as a worse case, have a predicted power density of 18.7 microwatts per square centimeter, or 1.87 percent of the allowable ANSI limit for controlled exposure, and 9.35 percent of the allowable limit for uncontrolled exposure. 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.

# Contour Map

