



RF Emissions Statement
Pasadena Area Community College District
KPCC
Pasadena, CA
Application for FM Auxiliary Antenna

April 2012

CH 207

10 kW H & V DA

The proposed ERI LP-4C-DA-HW (Type #3), 4-bay half-wave spaced antenna is mounted 8.1 meters above ground. The existing unregistered tower is located on a tower farm at Flint Peak in Glendale, California. The entire site is enclosed in a locked, gated fence and is a controlled area. The street level gate is about 2.0 miles and the gate to the compound is approximately 500' from the tower.

Based on the formulas expressed in the OET Bulletin, No. 65, August 1997, "Evaluating Compliance with F.C.C. Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields", published by the Federal Communication Commission's Office of Science and Engineering, the proposed facility produces a maximum R.F. non-ionization radiation level at a position six feet above the ground (head level - based on the C.O.R. of 8.1 meters above ground minus 2 meters) of less than 586.95 microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$), which is 58.7 percent of the maximum for this controlled area.

After researching the Mass Media and ULS databases, it was determined that there are eight other sources of RF emissions on the tower. A complete list of the antennas and their contributions to the RF emissions level is attached. The applicant acknowledges that the total contribution of all antennas is over 100% of the maximum permissible level. However, eight of the nine antennas are auxiliary FM antennas, and it would be a rare coincidence for all to be operating at the same moment. Only one of the antennas, KLAX-FM, is in constant operation. During the engineering testing period of the KPCC facilities, KPCC will perform a series of measurements to determine if there are any areas in which the R.F. power density actually exceeds the maximums set forth by the Commission. The applicant will secure the cooperation of the other auxiliaries at this site in this endeavor. If such areas are found, the applicant will post appropriate warning signs.

The proposed FM station will not increase the amount of RF emissions over that which is permissible by Section 1.1307 of the FCC's Rules.

The applicant will protect workers on the tower or roof area by either reducing ERP or terminating transmission.

Consequently, it appears that the proposed FM Station will be in full compliance with the Commission's human exposure to radiofrequency electromagnetic field rules and regulations.