

## **EXHIBIT #24**

### **ENVIRONMENTAL PROTECTION ACT**

#### **Pasadena Area Community College**

Application for Auxiliary

KPCC

Pasadena, California

September 2011

CH 207B

10 kW H & V DA

Pasadena Area Community College ("the applicant") proposes the use of an existing 30 meter unregistered tower constructed prior to 2001 and further environmental evaluation is therefore unnecessary. The area around the tower is locked and posted with RF warning signs.

The proposed antenna will be energized so that it radiates 10 kW in the horizontal and vertical planes, from a height above the ground of 12 meters. The ERI antenna has a vertical elevation field pattern at -90° of 0.12. Please see the vertical elevation field pattern attached.

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 existing facility produces a worst-case maximum R.F. non-ionization radiation level at a position six feet above the tower base (head level - based on the C.O.R. of 12 meters above ground minus 2 meters) of 104.406 microwatts per square centimeter ( $\mu\text{W}/\text{cm}^2$ ). 104.406  $\mu\text{W}/\text{cm}^2$  is 10.44 percent of the maximum for this controlled area.

After researching the Mass Media and ULS databases, it was determined that are no other sources of RF emissions on the tower.

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

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

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