

## **FM Booster Station for KTRL, Pecos, New Mexico**

### **Exhibit 16-1, Radio Frequency Radiation Protection**

The new FM Booster station transmitting antenna will be mounted on the tower of non-commercial FM station KSFR, which operates with an ERP of 3.0 kilowatts, at a RC-AGL of 58 meters, using a conventional full wave spaced two section circularly polarized antenna. The proposed booster will operate with an ERP of 5.0 kilowatts, and will employ a two section directional antenna at a RC-AGL of 26 meters that will be vertically polarized.

Using the worksheets in Appendix A of Form 301, the additive percentage of controlled exposure from KSFR and the new booster station is 63.8%. To meet the Commission's requirements for public exposure, measurements will be taken at head level on the ground in the vicinity of the tower. The tower is already enclosed by a chain-link locked fence, and in the event radio frequency exposure exceeds the public exposure limits outside the fence, access to such area by the public will be prevented through the installation of additional fencing and warning signs.