

The proposed FM Facility has been evaluated in terms of potential radiofrequency electromagnetic field exposure at ground level in accordance with OET Bulletin No. 65, Evaluating Compliance with FCC Specified Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields (OET Bulletin 65, Second Edition 97-01, August, 1997). The Commissions FM Model Power Density Prediction program was employed to determine the Field.

Using the "Phelps-Dodge" or Dipole (EPA 1) type antenna with 20 sections and .5 wavelengths between sections, and the AGL height and ERP proposed in this application, the highest predicted power density 2 meters above ground is less than 1% of the Uncontrolled Standard with a Power Density of 1.5 microwatts per square centimeter at a location 900 meters away from the base of the tower.

It should be noted that the applicant proposes to combine KOTB's transmission with that of two other licensed stations (KDUT Randolph, UT, and KEGA Oakley, UT) and another station with a pending application to also utilize the master panel antenna (KPEB Coalville, UT). Each station will have an Effective Radiated Power of 89 kW giving a combined total of 356 kW total ERP being emitted from the Horizontally Polarized master antenna. Therefore, using FM Model and a "Phelps-Dodge" or Dipole (EPA 1) type antenna with 20 sections and .5 wavelengths between sections, the AGL height of the Center of Radiation of the antenna, and the combined ERP of the four stations (KDUT, KEGA, KOTB, and KPEB), the highest predicted power density 2 meters above ground is less than 3% of the Uncontrolled Standard with a Power Density of 6 microwatts per square

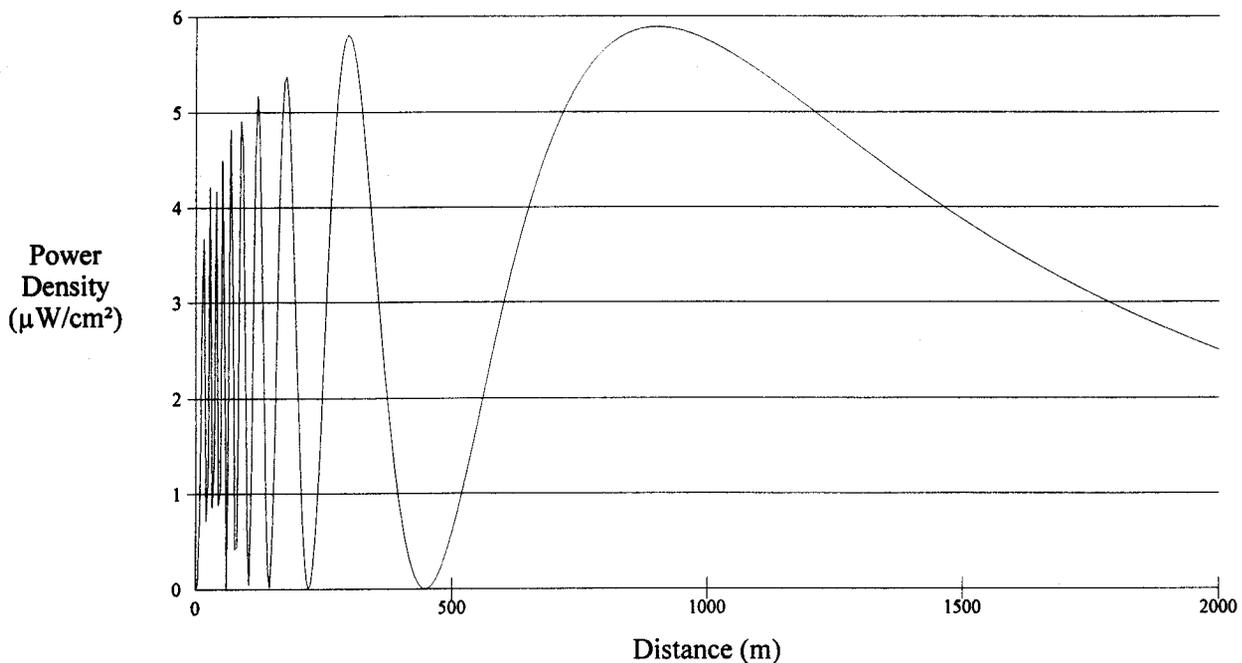
centimeter at a location 900 meters away from the base of the tower

Even though the site will fully comply with the Uncontrolled Site Standards, access to the transmitting site will be restricted and appropriately marked with warning signs. When it becomes necessary for workers to ascend the tower, appropriate measures, such as reduction or shut down of power if necessary, shall be taken to ensure that the human exposure to radiofrequency radiation will not exceed the FCC guidelines.

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According to the predictions of the FCC's FM Model program, one would expect to find the highest Power Density approximately 900 meters from the base of the tower. At that location, a predicted Power Density of less than 6 microwatts per square centimeter would be measured. This is approximately 3% of the FCC's maximum permissible radiofrequency electromagnetic exposure limits for uncontrolled environments.

Power Density vs Distance



Distance: 2000 meters  
Horizontal ERP: 356,000 watts\*  
Vertical ERP: 0 watts  
Antenna Height: 47 meters  
Antenna Type: Phelps-Dodge "Ring Stub" or Dipole (EPA 1)  
Number of Elements: 20  
Element Spacing: .5  
Antenna Model: Shively 6016H-10/4

\*This ERP includes each of the four following stations combined into the horizontally polarized master antenna with an ERP of 89,000 watts each, or a combined total of 356,000 watts (horizontal): KDUT 272C Randolph, KEGA 268C Oakley, KPEB 276C Coalville, and the instant application for KOTB 291C Evanston.