

Engineering Exhibit
KTOM-FM Marina, CA (FID 40145)
Radio Frequency Radiation Study and Statement

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 Radiofrequency Radiation." The FCC's version of the FM computer model (version 2.1) as referenced in "Supplement A Edition 97-01 to OET Bulletin 65 Edition 97-01" was used to predict the RF power density at various distances from the tower. A total of 500 data points were used over a total distance of 500 meters from the tower. This distance was deemed sufficient since the power density decays to extremely small levels beyond this distance.

The proposed antenna system is an EPA type 3, two element, full wave spaced antenna, mounted with its center of radiation 39.3 meters above ground level, and will operate with an effective radiated power of 1.0 kilowatt in both the horizontal and vertical planes. The maximum RF exposure level of 6.9 uW/cm^2 is predicted to occur 25 meters from the base of the tower. This corresponds to 0.7% of the allowable ANSI limit for controlled exposure, and 3.5% 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 assure appropriate cautionary signs are posted in the vicinity of the tower warning of potential radio frequency hazards at the site. The applicant will cooperate with other users of the site to reduce power or discontinue operation, as necessary, to protect persons having access to the site, including the towers or antennas, from RF exposure in excess of Federal Communications Commission guidelines.