

RADIOFREQUENCY IMPACT

Effective October 15, 1997, the FCC adopted its current guidelines and procedures for evaluating environmental effects of radiofrequency emissions. The current guidelines are generally based on recommendations by the National Council on Radiation Protection and Measurements (NCRP) in NCRP Report No. 86 (1986), and by the American National Standards Institute and the Institute of Electrical and Electronic Engineers, Inc. (IEEE) in ANSI/IEEE C95.1-1992 (IEEE C95.1-1991). The FCC guidelines provide a maximum permissible exposure (MPE) level for occupational or "controlled" situations, as well as "uncontrolled" situations that apply in cases that affect the general public. The FCC's Office of Engineering and Technology (OET) Commission issued a technical bulletin (OET Bulletin No. 65) entitled, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields" (Edition 97-01, August 1997), to aid in the determination of whether FCC-regulated transmitting facilities, operations or devices comply with limits for human exposure to radiofrequency electromagnetic fields as adopted by the Commission in 1996. The Bulletin contains updated and additional technical information for evaluating compliance with the current FCC policies and guidelines.

The current FCC MPE level for "uncontrolled" environments is 0.2 milliwatts per centimeter squared (mW/cm^2) or $200 \mu\text{W}/\text{cm}^2$ for FM facilities. The MPE level for FM facilities in a "controlled" environment is $1.0 \text{mW}/\text{cm}^2$.

Based on worst-case calculations, the proposed translator facility is predicted to produce a maximum power density at two meters above ground level of $0.012 \text{mW}/\text{cm}^2$ which is 6.0% of the FCC guideline value for "uncontrolled" environments. Because this value is less than 100% the shared transmitter site complies with the FCC guideline value for "uncontrolled" environments.

OCCUPATIONAL SAFETY

Based on the calculations discussed above, the predicted power density is 1.2% of the FCC guideline value for “controlled” environments. The applicant will insure the protection of station personnel or tower contractors working in the vicinity of the proposed transmitting antenna. The proposed station will reduce power and/or cease operation during times of service or maintenance of the transmission systems as necessary to avoid potentially harmful exposure to personnel.

In light of the above, the proposed facility should be categorically excluded from RF environmental processing under Section 1.1307(b) of the Commission's Rules.