

**Human Exposure to Radiofrequency Electromagnetic Field
&
Section 106 Compliance
(Environmental)**

A study has been made to determine whether this proposal is in compliance with 47 C.F.R. 1.1307 of the Commission's rules and with OET Bulletin #65, dated August 1997, regarding human exposure to radio frequency radiation in the vicinity of broadcast towers. Emmis Austin Radio Broadcasting Company, L.P. , licensee of KROX-FM seeks to modify the license of KROX-FM (Facility ID# 54569) licensed to Buda, Texas by upgrading to Channel 268C1 (101.5 MHz). The transmitting site is an existing tower 374 meters in overall height. This tower is registered with the FCC's Antenna Structure Registration (ASR) #1042431. The tower is located at 30° 02' 42" N ~ 97° 52' 50" W (NAD 27). The proposed antenna is a side mounted ERI Model SHPX-10C ten bay full wave circularly polarized antenna. KROX-FM will operate with 86 kilowatts ERP at 305 meters above ground level and 320 meters HAAT. The use of existing transmitting locations has been characterized as being environmentally preferable by the Commission, according to Note 1 of § 1.1306 of the FCC Rules.

The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the Commission's OET Bulletin Number 65. Using the Commission's FM Model Program, the maximum calculated signal density near the tower at two meters above ground level attributable to the proposed facility is 3.241 $\mu\text{W}/\text{cm}$ at 73 meters, which is 1.621 percent of the general population/uncontrolled maximum permitted exposure limit. This is well below the five percent threshold limit described in 1.1307(b) regarding sites with multiple emitters, which excludes applicant from responsibility for taking any corrective action in areas where the proposal's contribution is less than five percent.

The applicant will see that 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 tower to reduce power of the facility, or discontinue operation, as necessary to limit human exposure to levels less than specified by the Federal Communications Commission should anyone be required to climb the tower for maintenance or inspection.