

**Station KSLX-FM • 100.7 MHz, Channel 264C • Scottsdale, Arizona
Analysis of Auxiliary Antenna RF Exposure Conditions**

Statement of Hammett & Edison, Inc., Consulting Engineers

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained to evaluate the permitted auxiliary operation for Station KSLX-FM, 100.7 MHz, Scottsdale, Arizona, for compliance with appropriate guidelines for limiting human exposure to radio frequency electromagnetic fields.

Background

KSLX-FM has been issued a construction permit for an auxiliary broadcast operation on the existing KSLX-FM broadcast tower at the South Mountain Broadcast site, at reference coordinates 33° 19' 52.8" N, 112° 03' 47.0" W (NAD27). The facility will operate at 12.0 kW at 543 m HAAT, 901 m HAMSL, 100 m HAGL, utilizing an ERI Model LPX-2E antenna. The South Mountain Communications Site is entirely encompassed by a chain-link fence, with access into the area controlled by two locked gates. Therefore, the site can be evaluated under FCC occupational exposure guidelines.

Analysis

Based upon the facilities specified above, in conjunction with digitized terrain data for the South Mountain site, the maximum calculated power density at 2 meters above ground is calculated to be 1.3% of the occupational MPE limit applicable to the frequency of the permitted operation. The KSLX-FM auxiliary operation is therefore categorically excluded under Section 1.1307(b)(3) of the Commission's rules from having to consider the contributions of other stations at the site. Nevertheless, based upon measurements made on March 26-27, 2003, the maximum ambient RF levels in the vicinity of the KSLX-FM tower measured less than 3% of the FCC occupational exposure limit. Therefore, the maximum ambient RF level from the proposed facility in conjunction with existing operations at the site is calculated to be less than 4.3% of the FCC occupational exposure limit.

It is reported that access to the site, to the structure on which the antenna is to be mounted, and to the associated radio frequency generating equipment is restricted and appropriately marked with warning signs, where required. It is reported that, in the event that workers or other authorized personnel need to enter restricted areas or climb the tower, appropriate measures will be taken to ensure worker safety with respect to radio frequency radiation exposure in accordance with power cut-back tables for on-tower access that have been developed for the South Mountain site.




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