

## **EXHIBIT 17-A**

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

Radio Training Network, Inc. seeks to modify FM translator K227AO, Facility ID No. 156972, Morrisville, Missouri by relocating to a new transmit location at Springfield, MO. The new location is an existing tower associated with FCC Antenna Structure Registration (ASR) number 1028722. The application site coordinates are 37 Degrees 13 Minutes 25 Seconds North Latitude, 93 Degrees 14 Minutes 30 Seconds West Longitude (NAD 27). Because it is relocating on an existing tower and no modifications to the structure are being made, it is believed to be exempt from a Section 106 review by the SHPO/THPO.

The K227AO transmitting antenna will be a side mounted Kathrein-Scala Model CA2-FM vertically polarized directional antenna mounted at 203 degrees azimuth true north. K227AO will operate with 250 watts ERP at 175 meters above ground level and 203 meters HAAT.

The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the Commission's OET Bulletin Number 65. The Kathrein-Scala CA2-FM antenna is not listed in the FCC FM Model Program. Therefore the Phelps-Dodge "Ring Stub" or Dipole (EPA) worst case antenna was selected. The predicted power density for K227AO near the tower at two meters above ground level attributable to the proposed facility is  $0.266 \mu\text{W}/\text{cm}^2$  at 40 meters, which is 0.133 percent of the general population/uncontrolled maximum permitted exposure limit and 0.027 percent of the limit for "controlled" environments.

The applicant will cooperate with other users of the transmit location 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 during times of maintenance or inspection.