

# **Exhibit 17-A**

## **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. Frank G. McCoy, licensee of FM translator W277CV (Facility ID# 156555), licensed to Waukegan, Illinois seeks to modify W277CV construction permit BPFT-20160106ABI, South Milwaukee, WI, by relocating to an existing tower 373.7 meters (1,225.7 ft.) overall height and registered with ASR Registration Number 1047092. W277CV would operate with an effective radiated power of 250 watts circular polarization non-directional with service to Milwaukee, WI. The tower is located at 43° 06' 42" N ~ 87° 55' 50" W (NAD 27). The proposed antenna is a side mounted ERI Model 100A one bay antenna mounted at a center of radiation of 269 meters AGL. 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. Because W277CV proposes to operate from an existing tower and no changes are being made to the tower, it is believed to be exempt from a Section 106 review by the SHPO/THPO.

The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the Commission's OET Bulletin Number 65. The proposed FM transmit antenna is an ERI 100A. This antenna is included in the Commission's recently revised FM Model for Windows program as a Type 2 Opposed "V" dipole. Using this antenna type, the maximum calculated signal density near the tower at two meters above ground level attributable to the proposed facility was calculated to be 0.064  $\mu\text{W}/\text{cm}$  at 273 meters, which is 0.032 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.