

# **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. Cornerstone Community Radio, Inc., permittee of FM translator W248CA seeks to modify construction permit BNPFT-20130819AFP for W248CA (Facility ID# 156011), licensed to Bradenton, Florida. The proposed W248CA facility would operate with an effective radiated power of 20 watts directional at 9 meters HAAT. The transmitting site will be an existing building with pole. The proposed antenna location is at 27° 32' 41" N ~ 82° 34' 28" W (NAD 27). The proposed antenna is a Kathrein-Scala FMVMP one bay vertically polarized directional antenna with a center of radiation of 10 meters AGL and oriented at an azimuth of 326 degrees true. Because W248CA proposes to operate from an existing site, 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 FM Model Program does not provide an exact match for the Kathrein-Scala FMVMP antenna. Therefore the FM Model Program shows a worst case scenario by using the Phelps-Dodge "Ring-Stub" or dipole (EPA) antenna. Using this antenna, the maximum calculated signal density near the tower at two meters above ground level attributable to the proposed facility is 9.95  $\mu\text{W}/\text{cm}$  at 2 meters, which is 4.98 percent of the general population/uncontrolled maximum permitted exposure limit. This is 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.