

# 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. Old Northwest Broadcasting, Inc. seeks a new FM translator at Washington, IN. The FM translator will simulcast AM primary station WAOV, Facility ID No. 50238, licensed to Vincennes, IN. The transmit location tower is located at 38° 39' 04" N ~ 87° 09' 55" W (NAD 27). The tower is 83 meters in overall height and is registered with the Antenna Registration Structure system ("ASR") number 1029781. The proposed transmit antenna is a side mounted Nicom Model BKG77 1 bay circularly polarized directional antenna with a center of radiation of 61 meters AGL. The antenna will be mounted at 50 degrees true azimuth. The new FM translator will operate with 240 watts ERP directional at 80 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. Because the proposed new facility proposes to operate from an existing tower, is 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 Nicom BKG77 antenna is included in the recently revised OET FM Model Program under Type 2, Opposed "V" dipole. Using this antenna, the maximum calculated signal density near the tower at two meters above ground level attributable to the proposed facility is 1.267  $\mu\text{W}/\text{cm}$  at 60.4 meters, which is 0.634 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.