

**WWTV-DT, CADILLAC, MICHIGAN  
ENVIRONMENTAL CONSIDERATIONS  
CHANNEL 9, ERP 30 KW, HAAT 497 METERS**

The antenna for digital operation of WWTV is the existing Channel 9 top-mounted RCA Model TW-18-A9-P antenna. Use of this long established television transmitting site with no change in the existing tower assures the avoidance of a significant effect that would require the preparation of an environmental assessment. As discussed below, the operation would comply with maximum permitted RF exposure for the general population/uncontrolled environment.

Calculations made pursuant to OET Bulletin 65 show that the maximum RF exposure on channel 9 in the vicinity of the tower, at a height of two meters above ground would be only 0.018 microwatts per square centimeter ( $\mu\text{W}/\text{cm}^2$ ), 0.009 percent of the maximum permitted exposure of  $200 \mu\text{W}/\text{cm}^2$  at channel 9.

Procedures for avoiding excessive exposure during work on the tower assure that, with the digital system in use, maintenance tasks can be carried out without subjecting workmen to exposure in excess of that permitted by the rules. Power will be reduced, or the transmitter shut down as necessary to avoid over-exposure.