

TECHNICAL EXHIBIT  
CONCERNING HUMAN EXPOSURE TO RF ELECTROMAGNETIC ENERGY  
PREPARED FOR  
STATION WBUP-DT  
ISHPEMING, MICHIGAN  
CH 10 4.8 KW-ND 105 M

Technical Statement

The proposed facilities were evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. The radiation center for the proposed DTV antenna is located 94.5 meters above ground level. The maximum DTV ERP is 4.8 kW (horizontal polarization). A “conservative” vertical plane relative field value of 0.3 (for angles below 60 degrees downward) is assumed for the antenna's downward radiation. The calculated power density at a point 2 meters above ground level is less than  $0.0066 \text{ mW/cm}^2$ . This is less than 3.3% of the FCC's recommended limit of  $0.2 \text{ mW/cm}^2$  for channel 10 for an “uncontrolled” environment. Therefore, based on the responsibility threshold of 5%, the proposal will comply with the RF emission rules.

Access to the transmitting site is restricted by fencing and appropriately marked with RFR warning signs. Furthermore, as this is a multi-user site, a protocol is in effect with the other stations in the event that workers or other authorized personnel enter the restricted area or climb the tower to ensure that appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure. Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing “accepted” RFR protective clothing and/or RFR exposure.

Finally, it is noted that this technical exhibit only addresses the potential for radio frequency electromagnetic field exposure. All other aspects of the

environmental processing analysis have already has been provided to the FCC by the tower owner as part of the tower registration process.

A handwritten signature in black ink, appearing to read 'T. Howell', with a wavy underline.

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