

TECHNICAL EXHIBIT  
CONCERNING HUMAN EXPOSURE TO RF ELECTROMAGNETIC ENERGY  
PREPARED FOR  
STATION KFTU-DT  
DOUGLAS, ARIZONA  
CH 36 20.5 KW-DA 685 M

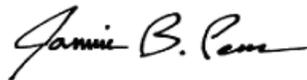
Technical Statement

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 33.5 meters above ground level. The maximum DTV ERP is 20.5 kW (horizontal polarization). A “conservative” vertical plane relative field value of 0.1 (for angles below 60 degrees downward) is presumed for the antenna's downward radiation (see Figure 6). The calculated power density at a point 2 meters above ground level is 0.0069 mW/cm<sup>2</sup>. This is 1.8% of the FCC's recommended limit of 0.40 mW/cm<sup>2</sup> for channel 36 for an “uncontrolled” environment. Therefore, based on the responsibility threshold of 5%, the proposal will comply with the RF emission rules.

Public access to the transmitting site is restricted and appropriately marked with RFR warning signs. Furthermore, as this is 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 are 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 will be or already has been provided to the FCC by the tower owner as part of the tower registration process.



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