

TECHNICAL EXHIBIT  
CONCERNING HUMAN EXPOSURE TO RF ELECTROMAGNETIC ENERGY  
PREPARED FOR  
STATION WORO-DT  
FAJARDO, PUERTO RICO  
CH 13 38.0 KW (MAX-DA) 855 M

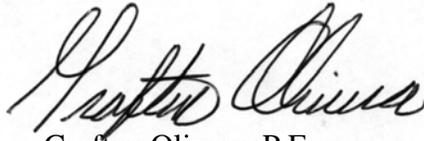
Technical Statement

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 56 meters above ground level. The maximum DTV ERP is 38 kW (circular polarization). A detailed analysis at every half of degree of depression angle (below the horizon), based on the antenna vertical pattern (included in Exhibit 43), shows that the maximum RF exposure at any depression angle at a point 2 meters above ground level would be  $7.4 \text{ uW/cm}^2$ . This is 3.7 % of the FCC's recommended limit of  $200 \text{ uW/cm}^2$  for channel 13 for an "uncontrolled" environment. This is considerably below the MPE for an uncontrolled environment and based on the responsibility threshold of 5 % , the proposed facility meets the FCC's requirements for human exposure to RF energy.

Access to the transmitting site will be restricted and appropriately marked with RFR warning signs. Furthermore, in the event that workers or other authorized personnel enter the restricted area or climb the tower, 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 or completely turning off the station.

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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