

TECHNICAL EXHIBIT
CONCERNING HUMAN EXPOSURE TO RF ELECTROMAGNETIC ENERGY
PREPARED FOR
STATION WIPR-DT
SAN JUAN, PUERTO RICO
CH 43 1000 KW (MAX-DA) 776 M

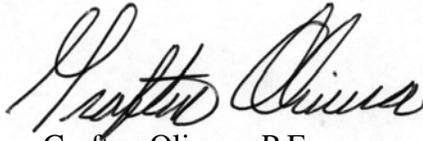
Technical Statement

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 222 meters above ground level. The maximum DTV ERP is 1200 kW, 1000 kW horizontal polarization and 200 kW vertical polarization. A detailed analysis at every one degree of depression angle (below the horizon), based on the antenna vertical pattern (included in Exhibit 34) shows that the maximum RF exposure would occur at a depression angle of 51.5°, for vertical plane relative field value of 0.084, where the calculated power density at a point 2 meters above ground level is 3.6 uW/cm². This is 0.8 % of the FCC's recommended limit of 431.3 uW/cm² for channel 43 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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