

TECHNICAL EXHIBIT  
CONCERNING HUMAN EXPOSURE TO RF ELECTROMAGNETIC ENERGY  
PREPARED FOR  
STATION WIPM-DT  
MAYAGUEZ, PUERTO RICO  
CH 35 784 KW 674 M

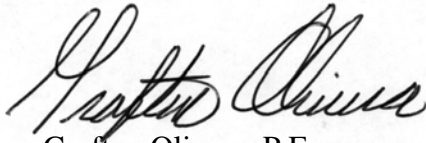
Technical Statement

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 99 meters above ground level. The maximum DTV ERP is 784 kW. 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  $58^\circ$ , for vertical plane relative field value of 0.104, where the calculated power density at a point 2 meters above ground level is  $21.6 \text{ uW/cm}^2$ . This is 5.4 % of the FCC's recommended limit of  $399.3 \text{ uW/cm}^2$  for channel 35 for an "uncontrolled" environment. This is considerably below the MPE for an uncontrolled environment.

Access to the transmitting site will be restricted and appropriately marked with RFR warning signs. Furthermore, as this is a multi-user site, an agreement will be in effect with the other stations in the event that workers or other authorized personnel enter the restricted area or climb the tower, so 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 stations.

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.

A handwritten signature in black ink, appearing to read "Grafton Olivera", is centered on the page. The signature is fluid and cursive.

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