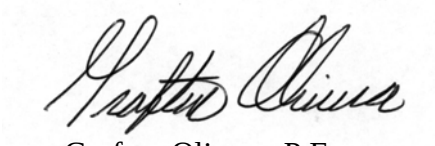
TECHNICAL EXHIBIT
HUMAN EXPOSURE TO RF ELECTROMAGNETIC ENERGY
STATION WDWL-DT
BAYAMON, PUERTO RICO
CH 30 100 KW (MAX-DA) 313 M

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 meters above ground level. The maximum DTV ERP is 100 kW (horizontal polarization). An analysis based on the antenna vertical pattern (included in Exhibit 7) shows that in the worst-case RF exposure scenario than can occur at any depression angle below 15°, for a maximum vertical plane relative field value of 0.07, the calculated power density at a point 2 meters above ground level will be less than 17.0 uW/cm2. This is 4.5% of the FCC's recommended limit of 379.3 uW/cm2 for channel 30 for an “uncontrolled” environment. From the proposed tower operates FM station WBRQ, with an ERP of 3 kW and antenna radiation center located 52.4 meters above ground level. Assuming a worst-case scenario of a relative field value of 1.0, the calculated power density at a point 2 meters above ground level is 39.4 uW/cm2. This is 19.7 % of the FCC's recommended limit of 200 uW/cm2 for the FM band for an “uncontrolled” environment. The maximum total RF exposure, for both facilities adds up to 24.2% of the MPE for general population/uncontrolled environments. This is much less than the 52.6 % of the MPE for general population/uncontrolled environments calculated for the antenna specified in the CP of WDWL Thus the proposed facility meets the FCC’s requirements for human exposure to RF energy.



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