

Engineering and Environmental Considerations
Application for Construction Permit
Displacement
Héctor Marcano Martínez
WWXY-LD
DTV Channel 2 (54-60 MHz)
San Juan, Puerto Rico

As a result of the broadcast television incentive auction, WWXY-LD Ch.38, facility ID 64856, was displaced by being located in the spectrum that was cleared by auction 1001 and later auctioned to the wireless companies, therefore WWXY-LD qualifies for displacement.

With this application, WWXY-LD is requesting displacement to TV Channel 2 (54 – 60 MHz). The proposed WWXY-LD channel 2 operation is compliant with the FCC Rules interference protection requirements. The results of the interference analysis, using a cell size of 1.0 km and a profile spacing of 0.14 km, with FCC's *TVStudy version 2.2.5*. are attached hereto.

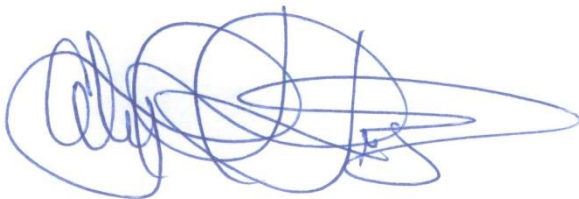
The proposed WWXY-LD channel 2 operation was evaluated for potential radiofrequency exposure to workers and the general public. Based on a radiation center at 20 meters above ground, a maximum relative antenna field of 0.38 between 60 and 90 degrees from horizontal and a total ERP of 3.0kW, the calculated RF exposure at two meters above ground will not exceed 33.5 $\mu\text{W}/\text{cm}^2$ or 16.75% of the 200 $\mu\text{W}/\text{cm}^2$ general population uncontrolled exposure applicable to the 30-300 MHz band.

The transmitter site is restricted from access.

The tower is not located in a flood plain, a wilderness area, or in a wildlife preserve that might affect threatened and endangered species or their habitat, it is not located in an Indian religious and/or cultural site. No significant changes in surface features will take place.

If workers are required to climb the tower the WWXY-LD site emission shall be reduced or terminated as necessary to prevent RF radiation exposure above the FCC limits.

As described above the proposed modifications will not have a significant environmental effect.



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12/18/2021