

## Engineering Statement and Environmental Considerations

Application for Construction Permit  
Displacement  
W24EI-LD  
DTV Channel 4  
Naranjito, Puerto Rico

As result of the broadcast television repacking process W24EI-LD Ch.24, facility id 148881, is displaced by the assignment of WUJA-DT to Ch. 24 on the same geographic area, see attached W24EI-LD Displacement TVIXStudy.

With this application W24EI-LD is requesting to relocate to a site 23.77 Km (22.85 miles) west of the present site and displacement to TV Channel 4. That distance is within the allowed 30 miles for LPTV relocation. The proposed operation of W24EI-D will cause interference of 3.43% to WVDO-LD, facility id 183026, channel 4 displacement application and receive interference of 6.14% from the WVDO-LD application, both stations belong to Ramon Hernandez and the interference is accepted.

### Environmental Considerations

The proposed channel 4 operation of W24EI-LD was evaluated for potential radio frequency exposure to workers and general public. Based on a radiation center at 30 meters above ground, a maximum relative antenna field of 0.20 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  $3.84\mu\text{w}/\text{cm}^2$  or 1.92% of the  $200\mu\text{w}/\text{cm}^2$  general population uncontrolled limit applicable to DTV channel 4.

The transmitter site is restricted from access. The tower is not located in 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.

In the event that workers are required to climb the tower the W24EI-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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05/13/2018