

## Engineering Statement and Environmental Considerations

Application for Construction Permit  
Minor Change  
W20DS-LD  
DTV Channel 20  
Caguas, Puerto Rico

With this application, Ramon Hernandez W20DS-D, licensee, facility id 188781, requests to relocate W20DS-D to a site 30.65 Km (19.05 miles) south of the present site. That distance is within the allowed 30 miles for LPTV relocation. Additionally, W20DS-D requests TVStudy processing using a cell size of 1.0 km. and profile increments of 0.14 km. As proposed, this application is compliant with all interference requirements. Ramon Hernandez has previously authorized the same facilities parameters but could not complete construction within the terms of the construction permit, file number 0000059818. Therefore, that permit expired. With this application, Ramon Hernandez requests the same facilities.

### Environmental Considerations

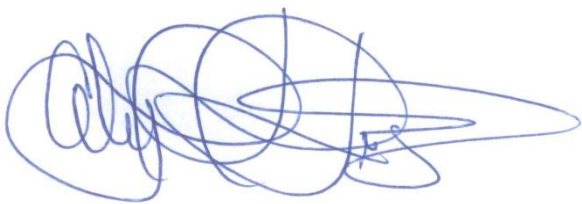
The undersigned evaluated The proposed channel 20 operations of W20DS-LD for potential radio frequency exposure to workers and the general public. Based on a radiation center at 53.7 meters above ground, a maximum relative antenna field of 0.20 between 60 and 90 degrees from horizontal, and a total ERP of 10.0kW, the calculated RF exposure at two meters above ground will not exceed  $4.67\mu\text{w}/\text{cm}^2$  or 1.376% of the  $339.33\mu\text{w}/\text{cm}^2$  general uncontrolled population limit applicable to DTV channel 20.

Access to the transmitter site is restricted. The tower is not located in a flood plain, a wilderness area, or a wildlife preserve that might affect threatened and endangered species or their habitat. In addition, it is not located in an Indian religious or cultural site. Therefore, no significant changes in surface features will take place.

If workers are required to climb the tower, the W20DS-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.

With this application, the Arecibo Observatory at Arecibo, PR is notified of the proposed modification.

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07/05/2022