

Engineering Statement and Environmental Considerations

Application for Minor Change Construction Permit
W02CS-LD
DTV Channel 2
Ponce, Puerto Rico

With this application W02CS-LD, facility id 183169, is requesting to relocate to a site 43.941 Km. (27.304 miles) NE of the present site. That distance is within the allowed 30 miles for LPTV relocation. The proposed operation of W02CS-D will cause interference in excess of 2% to W02CT-LD, facility id 183171, both stations belong to Ramon Hernandez and the interference is accepted.

Environmental Considerations

The proposed channel 2 operation of W02CS-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 $4.81\mu\text{w}/\text{cm}^2$ or 2.41% of the $200\mu\text{w}/\text{cm}^2$ general population uncontrolled limit applicable to DTV channel 2.

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 W02CS-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 been notified of the proposed modification.

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