

Environmental Considerations

Application for Construction Permit
Caguas Educational TV, Inc.
WUJA-DT
Channel 24
Caguas, Puerto Rico

The proposed WUJA-DT antenna will remain at the present tower, same radiation center above ground and will operate with an elliptically polarized antenna at an ERP of 100 kW horizontal, 30 kW vertical. The proposed modification was evaluated for potential radio frequency exposure to workers and general public.

Based on a radiation center at 31 meters above ground, a relative antenna field factor of 0.21 at 74 degrees depression from horizontal and a total ERP of 130kW, the calculated RF exposure at two meters above ground will not exceed 210.38 $\mu\text{W}/\text{cm}^2$ or 59.26% of the 355.33 $\mu\text{W}/\text{cm}^2$ general population uncontrolled limit applicable to DTV channel 24.

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 WUJA-DT 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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