

Environmental Consideration
Application for Construction Permit Minor Modification
EASTERN TELEVISION CORPORATION.
WRUA-DT Facility ID: 15320
Channel 16
Fajardo, Puerto Rico


The proposed WRUA-DT facility minor change modification will operate at an ERP of 50.0 kW horizontal, 15.0 kW vertical, at a radiation center 22.8 meters above the ground. The proposed modification was evaluated for potential radiofrequency exposure to workers and the general public. Based on a radiation center at 22.8 meters above ground, a relative antenna field factor of 0.214 at 63 degrees depression from horizontal, and a total ERP of 65.0 kW, the calculated RF exposure at 2 meters above ground will not exceed $82.5 \mu\text{w}/\text{cm}^2$ or 25.5% of the $323.33 \mu\text{w}/\text{cm}^2$ general population uncontrolled limit applicable to DTV channel 16.

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 WRUA-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.



Alejandro Luciano PE
Consulting Engineer
PO Box 194528
San Juan, Puerto Rico 00919-4528
(787)717-6984