

## Engineering Statement and Environmental Considerations

Application Minor Change  
Displacement and Relocation  
WSJP-LD Facility ID: 127507  
Aguadilla, Puerto Rico

Through this minor change application, WSJP-LD requests to relocate to a site 10.66 Km (6.62 miles) south of the present site and displacement relief for a change in the output channel; that 10.66 km distance is within the allowed distance for displacement relocation. WSJP-LD proposes to move from TV Channel 14 to TV Channel 26 due to causing prohibited interference to WTIN-TV Facility ID: 26681.

On its present channel and location, WSJP-LD causes 0.51% interference to WTIN-TV. Attached hereto is the interference study result for the WSJP-LD present operation.

The proposed WSJP-LD minor change complies with the FCC Rules regarding displacement and interference protection requirements. The result of the interference analysis using a cell size of 0.5 km and a profile spacing of 0.12 km, with FCC's *TVStudy version 2.2.5*. is attached hereto.

An included coverage map shows ample overlap between the proposed and present operations of WSJP-LD.

### **I. Environmental Considerations**

The undersigned evaluated the proposed channel 26 operations of WSJP-LD for potential radio frequency exposure to workers and the general public. Based on a radiation center at 21.11 meters above ground, a maximum relative antenna field of 0.28 between 60 and 90 degrees down from horizontal, and a total ERP of 13kW, the calculated RF exposure at two meters above ground will not exceed  $77.82\mu\text{w}/\text{cm}^2$  or 21.42% of the  $363.3\mu\text{w}/\text{cm}^2$  general population uncontrolled limit applicable to DTV channel 26.

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

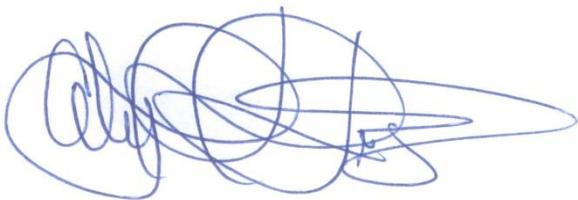
If workers are required to climb the tower, the WSJP-LD site emission will be reduced or terminated to prevent RF radiation exposure above the FCC limits.

As described above, the proposed modifications will not have a significant environmental effect.

## II. Protection of FCC Monitoring Station and Arecibo Observatory

The proposed WSJP-LD facility is 91.8 Km from the FCC monitoring station at Santa Isabel, Puerto Rico. Because of the low ERP of the proposed WSJP-LD radiation toward the Santa Isabel monitoring station and the intervening terrain, no adverse effects to the monitoring station are expected.

According to Section 73.1030 of the FCC Rules, concurrently with filling this application, the Arecibo Observatory is notified of the proposed facility.

A handwritten signature in blue ink, appearing to read 'Alejandro Luciano', with a stylized flourish extending to the right.

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