

Engineering Statement.  
Application for Auxilliary Facility Construction Permit.  
Caguas Educational TV Inc.  
WUJA-DT Facility ID: 8156  
Channel 24  
Caguas, Puerto Rico

**I. Introduction**

Caguas Educational TV, Inc. ("Caguas") is the licensee of television station WUJA-DT Caguas, Puerto Rico, Facility ID No. 8156. Caguas herein proposes an Auxilliary facility for WUJA-DT. That facility will operate with an ERP of 40 kW horizontal and 25.0 meters antenna height above ground level. The proposed WUJA-DT Auxilliary facility is compliant with all interference protection requirements. The interference analysis result using FCC's *TVStudy version 2.2.5* predicted service and interference analysis tool, using a cell size of 1.0 Km and a profile point spacing of 0.1 km, is attached. In addition, the included noise-limited contour map demonstrates that, except for a small area over water, the proposed DTX facility noise-limited contour is contained within the WUJA-DT licensed contour.

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

The proposed WUJA-DTX facility is 41.4 KM from the FCC monitoring station at Santa Isabel, Puerto Rico. Because of the low ERP of the WUJA-DT radiation and the intervening terrain toward the Santa Isabel monitoring station, no adverse effect is expected on the monitoring station.

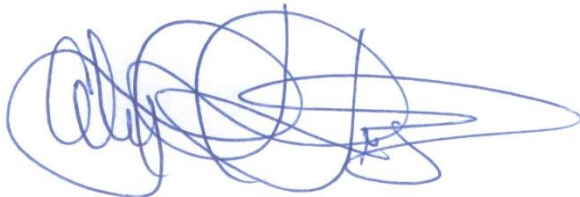
Notification to the Arecibo Observatory is believed unnecessary as the radiation toward de Arecibo Observatory is reduced, and the proposed auxiliary facility coverage contour is contained within the WUJA-DT authorized contour.

### III. **Statement Regarding Technical Parameters**

The applicant cannot modify specific technical parameters automatically entered into this application for an auxiliary facilities construction permit by the Commission's electronic filing system. Therefore the applicant will work with the Commission to ensure that this application for auxiliary facilities is processed to reflect the correct technical parameters.

The Applicant requests authority to operate its station with the following parameters, which differ from the automatically entered information reflected in the form as initially filed:

Channel: 24,                      Community of License: Caguas, PR.

A handwritten signature in blue ink, consisting of several overlapping loops and a long horizontal stroke extending to the right.

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06/12/2022