Attachment 49
Environmental Considerations
WLII/WSUR License Partnership
WLII-DT Caguas, PR
Channel 11 48 kW-DA 306 m

This application proposes installation of a new, short tower and antenna at the present WLII-DT transmitter site, which is a multiple-user facility atop Cerro Marquesa, in Aguas Buenas, Puerto Rico. This tower is proposed for auxiliary operation, primarily to ensure continued operation of WLII-DT in the event of damage to its main antenna and/or tower by hurricanes and other serious tropical storms, which threaten the island annually. The adjacent main WLII-DT tower is 68 meters in overall height above ground, but this tower is only 31.5 meters in overall height. Use of existing, shared sites is environmentally preferred over new site construction.

Operation is proposed on channel 11, with a radiofrequency radiation (RFR) exposure guideline value of 200 $\mu W/cm^2$ for the general population. The instant proposal involves operation at an effective radiated power of 48 kW at a radiation center elevation of 26 meters above ground level. There is an elevated parking area near the tower. The radiation center elevation above the parking area is 21.7 meters. The maximum downward relative field value from the ERI ESR-6H4 antenna, at downward angles of 50° and higher is 0.061. Accordingly, the calculated electric strength field at 2 meters above the parking area does not exceed 15.4 μW/cm2, which is 7.7% of the permissible exposure level.

The site is fenced on all sides and its access road is protected by a locked gate. The tower will be marked by RFR warning signs. Above-ground work on the tower will be governed by a formal RFR protection protocol. Consequently, it may be concluded that implementation of this proposal will result in compliance with the Commission's RFR standards.

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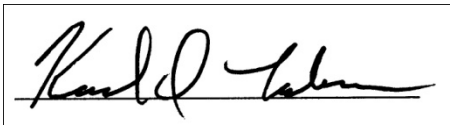

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