

TECHNICAL EXHIBIT
DIGITAL FLASH-CUT APPLICATION FOR
CLASS A STATION WIMN-CA (FACILITY ID 2245)
ARECIBO, PUERTO RICO
CH 20 0.035 KW (DA)

Technical Narrative

This Technical Exhibit supports a flash-cut application for Class A station WIMN-CA. Class A Station WIMN-CA is licensed (BLTTL-20010102AAX) to operate on analog channel 20 with a Bogner B8UA antenna, a directional maximum (visual) effective radiated power (ERP) of 10 kW and an antenna height above mean sea level (RCAMSL) of 133 meters.

Proposed Facilities

This application proposes digital operation on the current channel (20), at the licensed WIMN-CA transmitter site. It is proposed to operate on the existing 35.1 meter (115 foot) structure. The FCC Tower Registration Number for the existing tower is 1211904. The transmitter site coordinates for the existing site are (NAD27): 18-27-14 N, 66-38-15 W. A Bogner B8UA antenna, with a maximum directional ERP of 0.035 kW and an antenna RCAMSL of 133 meters are proposed.

Figure 1 is a map showing the licensed 74 dBu (analog) and proposed 51 dBu (digital) coverage contours. As shown on the map the proposed 51 dBu does not extend beyond the licensed 74 dBu in compliance with the current FCC Freeze.

Allocation Considerations

A study has been conducted to assure that the proposal will not create prohibited interference with other licensed, authorized or pending analog or digital TV, LPTV/translator and Class A TV stations. Using the procedures outlined in the FCC's OET-69 Bulletin, a 1 kilometer cell size resolution and 1990 U.S. Census, the proposal complies with the current FCC policy (i.e., less than 0.5% new interference caused to other pertinent

assignments). If necessary, a waiver of the FCC rules is respectfully requested based on use of the procedures outlined in the FCC's OET-69 Bulletin to the remaining LPTV/translator stations.

The applicant recognizes the proposal is secondary to authorized full-service analog and DTV operations. The applicant understands that it must correct and/or eliminate prohibited interference that may result from its proposed operation.

Radiofrequency Electromagnetic Field Exposure

The proposed WIMN-CA digital facilities were evaluated in terms of potential radiofrequency radiation exposure at 2 meters above ground level in accordance with OST Bulletin No. 65, "Evaluating Compliance With FCC-Specified Guidelines for Human Exposure to Radiofrequency Radiation". This Bulletin provides assistance in determining whether FCC-regulated transmitting facilities, operations or devices comply with limits for human exposure to radiofrequency (RF) electromagnetic fields adopted by the Commission in 1996.¹

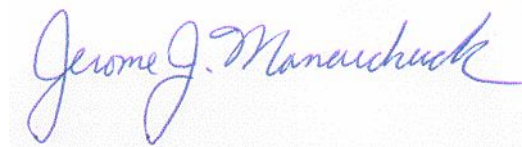
The calculated power density at 2 meters above ground level at the base of the tower was calculated using the appropriate equation contained in the Bulletin. As shown on Figure 2 (antenna vertical relative pattern), the maximum vertical relative field for depression angles towards the tower base (-60° to -90°) is less than 0.15. However, assuming a worst case vertical relative field value of 1.0, a maximum ERP of 0.035 kilowatts, and an antenna center of radiation height above ground level of 32.8 meters, the calculated power density at two meters above ground level at the base of the tower is only 0.0012 milliwatt per square centimeter (mW/cm^2), or 0.35 percent of the Commission's recommended limit applicable to general population/uncontrolled exposure areas ($0.34 \text{ mW}/\text{cm}^2$ for TV channel 20). Therefore, the facility complies with the FCC's RF emission rules.

¹ See *Report and Order* in ET Docket 93-62, FCC 96-326, adopted August 1, 1996, 11 FCC Rcd 15123 (1997). See also *First Memorandum Opinion and Order*, ET Docket 93-62, FCC 96-487, adopted December 23, 1996, 11 FCC Rcd 17512 (1997), and *Second Memorandum Opinion and Order and Notice of Proposed Rulemaking*, ET Docket 93-62, FCC 97-303, adopted August 25, 1997.

Access to the transmitting site will be restricted and appropriately marked with warning signs. Furthermore, in the event that workers or other authorized personnel enter the restricted area, appropriate measures shall be taken to limit RF energy exposure. Such measures include limiting the exposure time, wearing protective clothing, reducing power to an acceptable level or termination of transmitter output power all together until workers leave the restricted area.

It is noted that this statement only addresses the potential for radiofrequency electromagnetic field exposure. All other aspects of the environmental processing analysis will be or already have been provided to the FCC by the tower owner as part of the tower registration process.

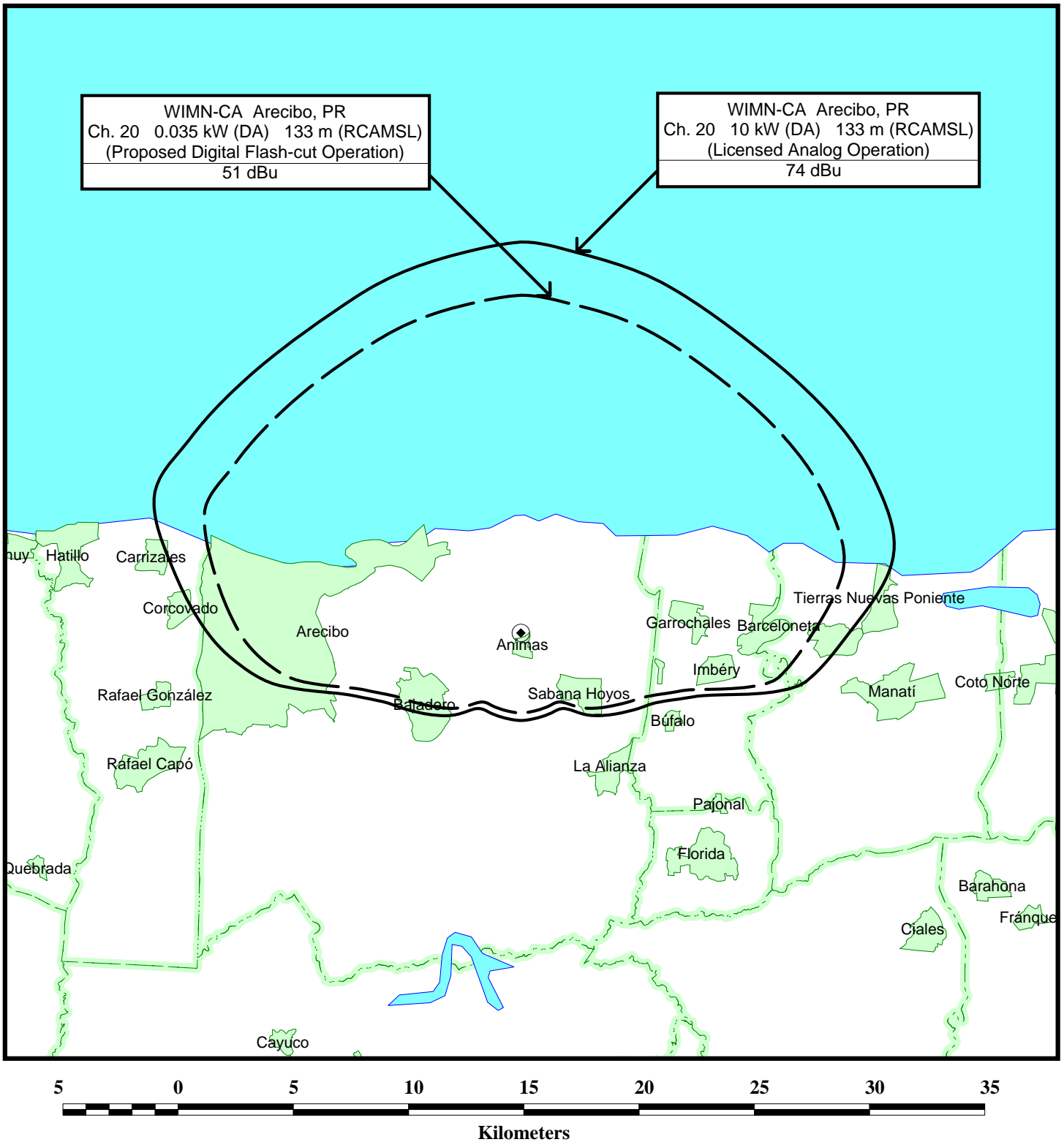
If there are questions concerning the technical portion of this application, please contact the office of the undersigned.



Jerome J. Manarchuck

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May 2, 2008



FCC PREDICTED COVERAGE CONTOURS

CLASS A STATION WIMN-CA
ARECIBO, PUERTO RICO

CH 20 0.035 KW(DA) 133 M (RCAMSL)

du Treil, Lundin & Rackley, Inc. Sarasota, Florida 34237

Figure 2

BOGNER BROADCASTS EQUIPMENT CORP.

603 Cantlagu, Rock Road
WESTBURY, NEW YORK 11590

BOGNER VERTICAL PLANE RADIATION PATTERN B8U()

LOW & MEDIUM POWER

