

Federal Communications Commission Washington, D.C. 20554  <p style="text-align: center;"><b>FCC 340</b></p>	Approved by OMB 3060-0029 (July 2011)	FOR FCC USE ONLY   FOR COMMISSION USE ONLY FILE NO. BPED - 20130903AAZ
<p><b>APPLICATION FOR CONSTRUCTION PERMIT FOR RESERVED CHANNEL NONCOMMERCIAL EDUCATIONAL BROADCAST STATION</b></p> <p>Read INSTRUCTIONS Before Filling Out Form</p>		

**Section I - General Information**

1.	Legal Name of the Licensee/Permittee LA GIGANTE SIEMBRA INC.	
	Mailing Address P.O. BOX 846	
	City AGUADA	State or Country (if foreign address) PR
	Zip Code 00602 - 0846	
	Telephone Number (include area code) 7877988850	E-Mail Address (if available) MATOSSIEMBRA@GMAIL.COM
	FCC Registration Number: 0017896713	Call Sign WLUZ
		Facility Identifier 11620
2.	Contact Representative (if other than licensee/Permittee) FRANCISCO MONTERO, ESQ.	Firm or Company Name FLETCHER, HEALD & HILDRETH, PLC
	Mailing Address 1300 NORTH 17TH STREET 11TH FLOOR	
	City ARLINGTON	State or Country (if foreign address) VA
	ZIP Code 22209 -	
	Telephone Number (include area code) 7038120400	E-Mail Address (if available) MONTERO@FHHLAW.COM
3.	Is this application being filed in response to a window?	<input type="radio"/> Yes <input checked="" type="radio"/> No

	If Yes, specify closing date and/or window number:	
4	<p><b>Application Purpose</b></p> <p> <input type="radio"/> New station  <input type="radio"/> Major Change in licensed facility  <input checked="" type="radio"/> Minor Change in licensed facility                 </p> <p>(a) File number of original construction permit: -</p> <p>(b) Service Type: <input checked="" type="radio"/> FM <input type="radio"/> TV <input type="radio"/> DTV <input type="radio"/> DTS</p> <p>(c) DTV Type: <input type="radio"/> Pre-Transition <input type="radio"/> Post-Transition <input type="radio"/> Both</p> <p>(d) Community of License:                      City: LEVITTOWN State: PR</p> <p>(e) Facility Type <input checked="" type="radio"/> Main <input type="radio"/> Auxiliary</p> <p>If an amendment, <b>submit as an Exhibit</b> a listing by Section and Question Number the portions of the pending application that are being revised. <span style="float: right;">[Exhibit 1]</span></p>	

**NOTE: The failure to include an explanatory providing full particulars in connection with a "No" response may result in dismissal of the application. See Instructions, paragraph L for additional information regarding completion of explanatory exhibits.**

**SECTION II - Legal and Financial**

1.	<p><b>Certification.</b> Applicant certifies that it has answered each question in this application based on its review of the application instructions and worksheets. Applicant further certifies that where it has made an affirmative certification below, this certification constitutes its representation that the application satisfies each of the pertinent standards and criteria set forth in the application instructions and worksheets.</p>	<input checked="" type="radio"/> Yes <input type="radio"/> No
2.	<p><b>Eligibility.</b> Each application must answer "Yes" to one and "No" to two of the three following certifications. An applicant should not submit an explanatory exhibit in connection with these</p>	

	<p>Question 2 "No" responses.</p> <p>The applicant certifies that it is:</p> <p>a. a nonprofit educational institution; or</p> <p>b. a governmental entity other than a school; or</p> <p>c. a nonprofit educational organization, other than described in a. or b.</p>	<p><input type="radio"/> Yes <input type="radio"/> No</p> <p><input type="radio"/> Yes <input type="radio"/> No</p> <p><input type="radio"/> Yes <input type="radio"/> No</p>
3.	<p>For applicants checking "Yes" to question 2(c) and applying for a new noncommercial educational television station only, the applicant certifies that the applicant's officers, directors and members of its governing board are broadly representative of the educational, cultural, and civic segments of the principal community to be served.</p>	<p><input type="radio"/> Yes <input type="radio"/> No</p> <p><input type="radio"/> N/A</p>
4.	<p>a. The applicant certifies that the Commission has previously granted a broadcast application identified here by file number that found this applicant qualified as a noncommercial educational entity with a qualifying educational program, and that the applicant will use the proposed station to advance a program similar to that the Commission has found qualifying in applicant's previous application.</p> <p>b. Applicants who answered "No" to Question 4(a), must include an exhibit that describes the applicant's educational objective and how the proposed station will be used to advance an educational program that will further that objective according to 47 C.F.R. Section 73.503 (for radio applicants) and 47 C.F.R. Section 73.621 (for television applicants).</p>	<p><input type="radio"/> Yes <input type="radio"/> No</p> <p>FCC FileNumber</p> <p>-</p> <p>[Exhibit 2]</p>
5.	<p>The applicant certifies that its governing documents (e.g., articles of incorporation, by-laws, charter, enabling statute, and/or other pertinent organizational document) permit the applicant to advance an educational program and that there is no provision in any of those documents that would restrict the applicant from advancing an educational program or complying with any Commission rule, policy, or provision of the Communications Act of 1934, as amended.</p>	<p><input type="radio"/> Yes <input type="radio"/> No</p>
6.	<p>a. <b>Parties to the Application.</b> List separately each party to the application including, as applicable, the applicant, its officers, directors, five percent or greater stockholders, non-insulated partners, members, and all other persons and entities with attributable interests. If another entity hold an attributable interest in the applicant, list separately, as applicable, its officers, directors, five percent or greater stockholders, non-insulated partners, and board members. Create a separate row for each individual or entity. Attach additional pages if necessary.</p> <p>[Enter Parties/Owners Information]</p> <hr/> <hr/> <p>b. Applicant certifies that equity and financial interests not set forth above are non-attributable pursuant to 47 C.F.R. Section 73.3555 and that there are no agreements or understandings with any non-party that would</p>	<p><input type="radio"/> Yes <input type="radio"/> No</p> <p>[Exhibit 3]</p>

	give influence over the applicant's programming, personnel, or finances to that non-party.	
7.	<b>Other Authorizations.</b> List call signs, locations, and facility identifiers of all other broadcast stations in which applicant or any party to the application has an attributable interest pursuant to the notes to 47 C.F.R. Section 73.3555.	<input type="checkbox"/> N/A [Exhibit 4]
8.	<b>Character Issues.</b> Applicant certifies that neither applicant nor any party to the application has or has had any interest in or connection with: a. any broadcast application in any proceeding where character issues were left unresolved or were resolved adversely against the applicant or party to the application; or b. any pending broadcast application in which character issues have been raised.	<input checked="" type="radio"/> Yes <input type="radio"/> No  See Explanation in [Exhibit 5]
9.	<b>Adverse Findings.</b> Applicant certifies that, with respect to the applicant, any party to the application, and any non-party equity owner in the applicant, no adverse finding has been made, nor has an adverse final action been taken by any court or administrative body in a civil or criminal proceeding brought under the provisions of any law related to any of the following: any felony; mass media-related antitrust or unfair competition; fraudulent statements to another government unit; or discrimination.  If the answer is "No," attach as an Exhibit a full disclosure concerning the persons and matters involved, including an identification of the the court or administrative body and the proceeding (by dates and file numbers), and a description of the disposition of the matter. Where the requisite information has been earlier disclosed in connection with another application or as required by 47 C.F.R. Section 1.65, the applicant need only provide: (i) an identification of that previous submission by reference to the file number in the case of an application, the call letters of the station regarding which the application or Section 1.65 information was filed, and the date of filing; and (ii) the disposition of the previously reported matter.	<input checked="" type="radio"/> Yes <input type="radio"/> No  See Explanation in [Exhibit 6]
10.	<b>Alien Ownership and Control.</b> Applicant certifies that it complies with the provisions of Section 310 of the Communications Act of 1934, as amended, relating to interests of aliens and foreign governments.	<input type="radio"/> Yes <input type="radio"/> No  See Explanation in [Exhibit 7]
11.	<b>Program Service Certification.</b> Applicant certifies that it is cognizant of and will comply with its obligations as a commission licensee to present a program service responsive to the issues of public concern facing the station's community of license and service area.	<input type="radio"/> Yes <input type="radio"/> No
12.	<b>Local Public Notice.</b> Applicant certifies compliance with the public notice requirements of 47 C.F.R. Section 73.3580.	<input type="radio"/> Yes <input type="radio"/> No
13.	<b>Anti-Drug Abuse Act Certification.</b> Applicant certifies that neither applicant nor any party to the application is subject to denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C.	<input checked="" type="radio"/> Yes <input type="radio"/> No

	Section 862.	
14.	<b>Equal Employment Opportunity (EEO).</b> If the applicant proposes to employ five or more full-time employees, applicant certifies that it is filing simultaneously with this application a Model EEO Program Report on FCC Form 396-A.	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A

**QUESTIONS 15, 16 AND 17 APPLY ONLY TO APPLICANTS FOR NEW STATIONS. OTHER APPLICANTS CAN PROCEED TO QUESTION 18.**

15.	<b>Financial.</b> The applicant certifies that sufficient net liquid assets are on hand or that sufficient funds are available from committed sources to construct and operate the requested facilities for three months without revenue.  If "No" to 15., answer question 16. and 17.	<input type="radio"/> Yes <input type="radio"/> No  See Explanation in [Exhibit 8]
16.	Is this application contingent upon receipt of a grant from the National Telecommunications and Information Administration?	<input type="radio"/> Yes <input type="radio"/> No
17.	Is this application contingent upon receipt of a grant from a charitable organization, the approval of the budget of a school or university, or an appropriation from a state, county, municipality or other political subdivision?	<input type="radio"/> Yes <input type="radio"/> No

NOTE: If Yes to 16. **or** 17., the application cannot be granted unconditionally until all of the necessary funds are committed or appropriated. In the case of grants from the National Telecommunications and Information Administration, no further action on the applicant's part is required. If the applicant relies on funds from a source specified in Question 17., **the applicant must advise the Commission when the funds are committed or appropriated.** This should be accomplished by letter amendment to the application. Applicants should take note that the Commission's construction period is not considered "tolled" by funding difficulties and that any permit granted conditionally on funding will expire if the station is not constructed for any reason, including lack of funding.

**QUESTIONS 18 AND 19 DO NOT APPLY TO APPLICATIONS FOR NEW STATIONS. APPLICANTS FOR NEW FM STATIONS CAN PROCEED TO SECTION III. APPLICANTS FOR NEW TV STATIONS CAN PROCEED TO SECTION IV.**

**Holding Period.**

18.	Applicant certifies that this application does not propose a modification to an authorization that was awarded on the basis of a preference for fair distribution of service pursuant to 47 U.S.C. Section 307(b).  If "No," answer a. and b. below. If applicant answers "No" to 18. above and cannot answer "Yes" to either a. or b. below, the application is unacceptable.	<input checked="" type="radio"/> Yes <input type="radio"/> No
a.	Applicant certifies that the proposed modification will not downgrade service to the area on which the Section 307(b) preference was based.	<input type="radio"/> Yes <input type="radio"/> No
b.	Applicant certifies that although it proposes to downgrade service to the area on which the Section 307(b) preference was based, applicant has provided full service to that area for a period of four years of on-air operations.	<input type="radio"/> Yes <input type="radio"/> No



<p>1. <b>Established Local Applicant:</b> Applicant certifies that for at least the 24 months immediately prior to application, and continuing through the present, it qualifies as a local applicant pursuant to 47 C.F.R. Section 73.7000, that its governing documents require that such localism be maintained, and that it has placed documentation of its qualifications as an established local applicant in a local public inspection file and has submitted to the Commission copies of the documentation.</p>	<p><input type="radio"/> Yes <input type="radio"/> No</p>
<p>2. <b>Diversity of Ownership:</b> (a) Applicant certifies that the principal community (city grade) contour of the proposed station does not overlap the principal community contour of any other authorized station (comparing radio and television to television, including non-fill-in translator stations other than those identified in 2(b) below) in which any party to the application has an attributable interest as defined in 47 C.F.R. Section 73.3555, that its governing documents require that such diversity be maintained, and that it has placed documentation of its diversity qualification in a local public inspection file and has submitted to the Commission copies of the documentation.</p>	<p><input type="radio"/> Yes <input type="radio"/> No</p>
<p>(b) Is the application's certification to 2(a) based on its exclusion of translator station(s) that will be replaced with a full service station pursuant to the authorization requested here?</p> <p>If Yes, applicant must include an exhibit identifying the translator station authorization for which it will request cancellation upon commencement of operation of the proposed full service station (i.e., upon its filing of a license application and receipt of program test authority).</p>	<p><input type="radio"/> Yes <input type="radio"/> No</p> <p>[Exhibit 14]</p>
<p>3. <b>State-wide Network:</b> Applicant certifies that (a) it has NOT claimed a credit for diversity of ownership above: (b) it is one of the three specific types of organizations described in 47 C.F.R. Section 73.7003(b)(3); and (c) it has placed documentation of its qualifications in a local public inspection file and has submitted to the Commission copies of the documentation.</p>	<p><input type="radio"/> Yes <input type="radio"/> No</p>
<p>4. <b>Technical Parameters:</b> Applicant certifies that the numbers in the boxes below accurately reflect the new area and population that its proposal would serve with a 60 dBu (FM) or Grade B (TV) signal measured in accordance with the standard predicted contours in 47 C.F.R. Section 73.713(c) (FM) and 73.683(TV) and that it has documented the basis for its calculations in the local public inspection file and has submitted copies to the Commission. Major modification applicants should include the area of proposed increase only (exclude any area already within the station's existing service area). (Points, if any, will be determined by FCC)</p>	<p><input type="radio"/> Yes <input type="radio"/> No</p>
<p>New area served in square kilometers (excluding areas of water):</p>	
<p>Population served based on the most recent census block data from the United States Bureau of Census using the centroid method:</p>	
<p><b>SECTION V - Tie Breakers - New and Major Change Applications Only</b> (used to choose among competing radio and television applications receiving the same number of points in Section IV)</p>	
<p>1. <b>Existing Authorizations.</b> By placing a number in the box, the applicant certifies that it and other parties to the application have, as of the date of filing and pursuant to 47 C.F.R. Section 73.3555, attributable interests in the stated number of relevant broadcast station authorizations.</p>	

- Radio applicants should count all attributable full service radio stations, AM and FM, commercial and noncommercial, and FM translator stations other than fill-in stations or those identified in IV (2)(b) above. TV applicants should count all attributable full service TV stations, commercial and noncommercial and TV translator stations other than fill-in stations or those identified in IV(2)(b) above.  
(number of commercial and non-commercial licenses and construction permits)
2. **Pending Applications.** By placing a number in the box, the applicant certifies that it and other parties to the application have, as of the date of filing and pursuant to 47 C.F.R. Section 73.3555, attributable interests in the stated number of pending applications for new or major changes to relevant broadcast stations. Radio applicants should count all attributable full service radio stations, AM and FM, commercial and noncommercial, and FM translator stations other than fill-in stations or those identified in IV(2)(b) above. TV applicants should count all attributable full service TV stations, commercial and noncommercial, and TV translator stations other than fill-in stations or those identified in IV(2)(b) above.  
(number of pending commercial and non-commercial applications)

### Section VI -- Certification

I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith. I acknowledge that all certifications and attached Exhibits are considered material representations. I hereby waive any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and request an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

Typed or Printed Name of Person Signing AURIO A. MATOS BARRETO	Typed or Printed Title of Person Signing PRESIDENT AND DIRECTOR
Signature	Date 09/02/2013

### Section VII Preparer's Certification

I certify that I have prepared Section VII (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name DOUG VERNIER	Relationship to Applicant (e.g., Consulting Engineer) ENGINEERING CONSULTANT	
Signature	Date 09/02/2013	
Mailing Address TELECOMMUNICATIONS CONSULTANTS 721 W. FIRST ST, SUITE A		
City CEDAR FALLS	State or Country (if foreign address) IA	Zip Code 50613-

Telephone Number (include area code) 3192668402	E-Mail Address (if available) DVERNIER@V-SOFT.COM
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WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

<b>Section VII - FM Engineering</b>	
<b>TECHNICAL SPECIFICATIONS</b>	
Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.	
<b>TECH BOX</b>	
1.	Channel Number: 203
2.	Class (select one): <input type="radio"/> D <input checked="" type="radio"/> A <input type="radio"/> B1 <input type="radio"/> B <input type="radio"/> C3 <input type="radio"/> C2 <input type="radio"/> C1 <input type="radio"/> C0 <input type="radio"/> C
3.	Antenna Location Coordinates: (NAD 27) Latitude: Degrees 18 Minutes 17 Seconds 59.8 <input checked="" type="radio"/> North <input type="radio"/> South  Longitude: Degrees 66 Minutes 15 Seconds 48.1 <input checked="" type="radio"/> West <input type="radio"/> East
4.	Proposed Assignment Coordinates: (NAD 27) - RESERVED CHANNELS ABOVE 220 ONLY <input checked="" type="checkbox"/> Not Applicable Latitude: Degrees Minutes Seconds <input type="radio"/> North <input type="radio"/> South  Longitude: Degrees Minutes Seconds <input type="radio"/> West <input type="radio"/> East
5.	Antenna Structure Registration Number: 1223161 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Notification filed with FAA
6.	Overall Tower Height Above Ground Level: 57.3 meters

7.	Height of Radiation Center Above Mean Sea Level:					468.2 meters(H) 468.2 meters(V)						
8.	Height of Radiation Center Above Ground Level:					36.6 meters(H) 36.6 meters(V)						
9.	Height of Radiation Center Above Average Terrain:					166.6 meters(H) 166.6 meters(V)						
10.	Effective Radiated Power:					0.38 kW(H) 0.38 kW(V)						
11.	Maximum Effective Radiated Power: (Beam-Tilt Antenna ONLY)					<input checked="" type="checkbox"/> Not Applicable      kW(H)      kW(V)						
12.	Directional Antenna Relative Field Values: <input type="checkbox"/> Not applicable (Nondirectional) Rotation (Degrees): <input checked="" type="checkbox"/> No Rotation											
	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value
	0	0.966	10	0.986	20	0.927	30	0.823	40	0.677	50	0.537
	60	0.427	70	0.339	80	0.278	90	0.247	100	0.217	110	0.199
	120	0.199	130	0.199	140	0.199	150	0.199	160	0.199	170	0.199
	180	0.199	190	0.199	200	0.198	210	0.197	220	0.193	230	0.188
	240	0.199	250	0.199	260	0.199	270	0.207	280	0.235	290	0.265
	300	0.309	310	0.389	320	0.49	330	0.617	340	0.765	350	0.892
	Additional Azimuths		7	1								

[Relative Field Polar Plot](#)

<p><b>NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.</b></p> <p><b>CERTIFICATION</b></p> <p><b>AUXILIARY ANTENNA APPLICANTS ARE NOT REQUIRED TO RESPOND TO ITEMS 13-17. PROCEED TO ITEM 18.</b></p>	
13.	<p><b>Main Studio Location.</b> The proposed main studio location complies with 47 C.F.R. Section 73.1125.</p> <p style="text-align: right;"> <input checked="" type="radio"/> Yes   <input type="radio"/> No                       See Explanation in [Exhibit 15]                 </p>
14.	<p><b>Community Coverage.</b> The proposed facility complies with 47 C.F.R. Section 73.315. (Channels 221 and above) or 47 C.F.R. Section 73.515 (Channels 220 and below).</p> <p style="text-align: right;"> <input checked="" type="radio"/> Yes   <input type="radio"/> No                      See Explanation in [Exhibit 16]                 </p>

15.	<p><b>Interference.</b> The proposed facility complies with all of the following applicable rule sections. Check all that apply:</p> <p><b>Contour Overlap Requirements.</b> a. <input checked="" type="checkbox"/> 47 C.F.R. Section 73.509 <b>Exhibit Required.</b></p> <p><b>Spacing Requirements.</b> b. <input checked="" type="checkbox"/> 47 C.F.R. Section 73.207 with respect to station(s)</p> <p><b>Grandfathered Short-Spaced.</b> c. <input type="checkbox"/> 47 C.F.R. Section 73.213(a) with respect to station(s) <b>Exhibit Required.</b></p> <p><b>Contour Protection.</b> d. <input type="checkbox"/> 47 C.F.R. Section 73.215(a) with respect to station(s) <b>Exhibit Required.</b></p> <p><b>Television Channel 6 Protection.</b> e. <input type="checkbox"/> 47 C.F.R. Section 73.525 with respect to station(s) <b>Exhibit Required.</b></p>	<p><input type="radio"/> Yes <input checked="" type="radio"/> No</p> <p>See Explanation in [Exhibit 17]</p> <p>[Exhibit 18]</p> <p>[Exhibit 19]</p> <p>[Exhibit 20]</p> <p>[Exhibit 21]</p>
16.	<p><b>Reserved Channels Above 220.</b> a. <b>Availability of Channels.</b> The proposed facility complies with the assignment requirements of 47 C.F.R. Section 73.203.</p>	<p><input type="radio"/> Yes <input type="radio"/> No</p> <p>See Explanation in [Exhibit 22]</p>
17.	<p><b>International Borders.</b> The proposed antenna location is not within 320 kilometers of the common border between the United States and Canada or Mexico.</p> <p>If "No," specify the country and provide an exhibit of compliance with all provisions of the relevant International Agreement.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p><input type="radio"/> Canada</p> <p><input type="radio"/> Mexico</p> <p>[Exhibit 23]</p>
18.	<p><b>Environmental Protection Act.</b> The proposed facility is excluded from environmental processing under 47 C.F.R. Section 1.1306 (i.e., The facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments). Unless the applicant can determine compliance through the use of the RF worksheets in Worksheet #7, an <b>Exhibit is required.</b></p> <p>By checking "Yes" above, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>See Explanation in [Exhibit 24]</p>

	radiofrequency electromagnetic exposure in excess of FCC guidelines.	
19.	<b>Community of License Change - Section 307(b).</b> If the application is being submitted to change the facility's community of license, then the applicant certifies that it has attached an exhibit containing information demonstrating that the proposed community of license change comports with the fair distribution of service policies underlying Section 307(b) of the Communications Act of 1934, as amended (47 U.S.C. Section 307(b)).	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> N/A
	<b>An exhibit is required</b> unless this question is not applicable.	[Exhibit 25]
<b>PREPARER'S CERTIFICATION ON PAGE 8 MUST BE COMPLETED AND SIGNED.</b>		

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## Exhibits

### Exhibit 1

**Description:** CHANGES PROPOSED

APPLICANT PROPOSES TO CHANGE SITE, EMPLOY A DIRECTIONAL ANTENNA AND INCREASE MAXIMUM ERP.

### Attachment 1

### Exhibit 15

**Description:** MAIN STUDIO

THE APPLICANT COMPLIES WITH THE MAIN STUDIO RULES.

### Attachment 15

### Exhibit 16

**Description:** 60 DBU COVERAGE TO PRINCIPAL CITY

THE ENTIRE PRINCIPAL CITY, LEVITTOWN IS COVERED BY THE PROPOSED 60 DBU SERVICE CONTOUR. THE ATTACHED COVERAGE MAP AND TABLES DOCUMENT THIS COVERAGE.

**Attachment 16**

Description
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<a href="#">Coverage to the Community of License</a>
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**Exhibit 17****Description:** ALLOCATIONS STUDY

THE APPLICANT HAS RECEIVED A WAIVER FROM THE COMMISSION TO CAUSE 2ND ADJACENT INTERFERENCE TO CLASS B STATIONS WCRP AND WPUC-FM. THE OVERLAP MAP AND DISTANCE TO CONTOUR TABLES ATTACHED TO THE ALLOCATIONS EXHIBIT SHOWS THE EXISTING 2ND ADJACENT 94 DBU CONTOUR OVERLAP WITH EACH OF THESE STATIONS. THE MAP ALSO SHOWS THE LOCATION OF THE PROPOSED OVERLAP. THE EXHIBIT PROVIDES THE FOLLOWING FIGURES:  
EXISTING OVERLAP FOR WHICH WAIVER HAS BEEN GRANTED:

POPULATION: 20,670, AREA: 6 SQ KM

THE INSTANT PROPOSAL SIGNIFICANTLY REDUCES THE POPULATION WITHIN THE OVERLAP AREA. THE AREA IS ALSO REDUCED BY THE PROPOSAL.

POPULATION: 2,628, AREA: 5 SQ KM.

THIS PROPOSAL REDUCES THE 94 DBU POPULATION OVERLAP BY 18,042 PEOPLE WHICH IS APPROXIMATELY 300 PERCENT. THE AREA OF OVERLAP IS REDUCED BY 1 KILOMETER.

THE APPLICANT RESPECTFULLY REQUESTS THE TRANSFER/CONTINUATION OF ITS CURRENT WAIVER FOR ITS LICENSED FACILITIES TO THE OPERATION AS DESCRIBED ABOVE AND IN THIS APPLICATION. SUCH A WAIVER WOULD CLEARLY BE IN THE PUBLIC INTEREST SINCE IT SIGNIFICANTLY REDUCES THE POPULATION WITHIN THE 2ND ADJACENT CONTOUR OVERLAP CAUSED UNDER ITS CURRENT OPERATION.

THE ATTACHMENTS WITHIN THIS EXHIBIT ALSO CONTAIN THE DIRECTIONAL ANTENNA PATTERNS AND A DESCRIPTION ON HOW THE DIRECTIONALITY WILL BE OBTAINED.

THIS APPLICATION IS BEING COORDINATED WITH ARECIBO OBSERVATORY AS REQUIRED UNDER THE RULES.

**Attachment 17**

Description
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[Allocations Study and request for waiver continuation](#)

[Directional Antenna Exhibit](#)

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**Exhibit 18**

**Description:** ALLOCATIONS STATEMENT

PLEASE SEE EXHIBIT 17.

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**Attachment 18**

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**Exhibit 24**

**Description:** ENVIRONMENTAL EXHIBIT

THE CONSTRUCTION OF THE EXISTING TOWER, PROPOSED TO BE USED IN THIS APPLICATION, WAS COMPLETED IN 2002. THE TOWER RECORD IN THE ULS SHOWS THAT THE REGISTRANT OWNER OF THE TOWER INDICATED THAT THERE WERE NO NEPA CONCERNS. WITH REGARD TO RADIO FREQUENCY EMISSIONS. USING THE FORMULAS EXPRESSED IN OET-65, UNDER 'WORST CASE', WITHOUT REGARD FOR REDUCTION OF THE R.F. FIELD AT THE NADIR, AT HEAD HEIGHT, THE CALCULATED R.F. EMISSIONS LEVEL IS 21.2 MICROWATTS PER SQUARE CENTIMETER. THIS AMOUNTS TO 2.1% OF THE MAXIMUM FOR A CONTROLLED AREA AND 10.6% FOR AN UNCONTROLLED AREA,(SUCH AS ONE THAT IS NOT FENCED.) A CHECK OF THE BROADCAST DATABASE FINDS NO OTHER R.F. SOURCES ON THE TOWER. THERE ARE OTHER COMMUNICATIONS SERVICE RADIATORS ON THE TOWER WHICH DUE TO THEIR HEIGHT AND POWER LEVELS ARE CATEGORICALLY EXCLUDED.

THE APPLICANT WILL REDUCE POWER OR TERMINATE TRANSMISSION TO PROTECT WORKERS AT THE SITE OR ON THE TOWER. CONSEQUENTLY, THIS PROPOSAL COMPLIES WITH THE FCC'S RULES WITH REGARD TO PROTECTION OF THE PUBLIC AND WORKERS AT THE SITE.

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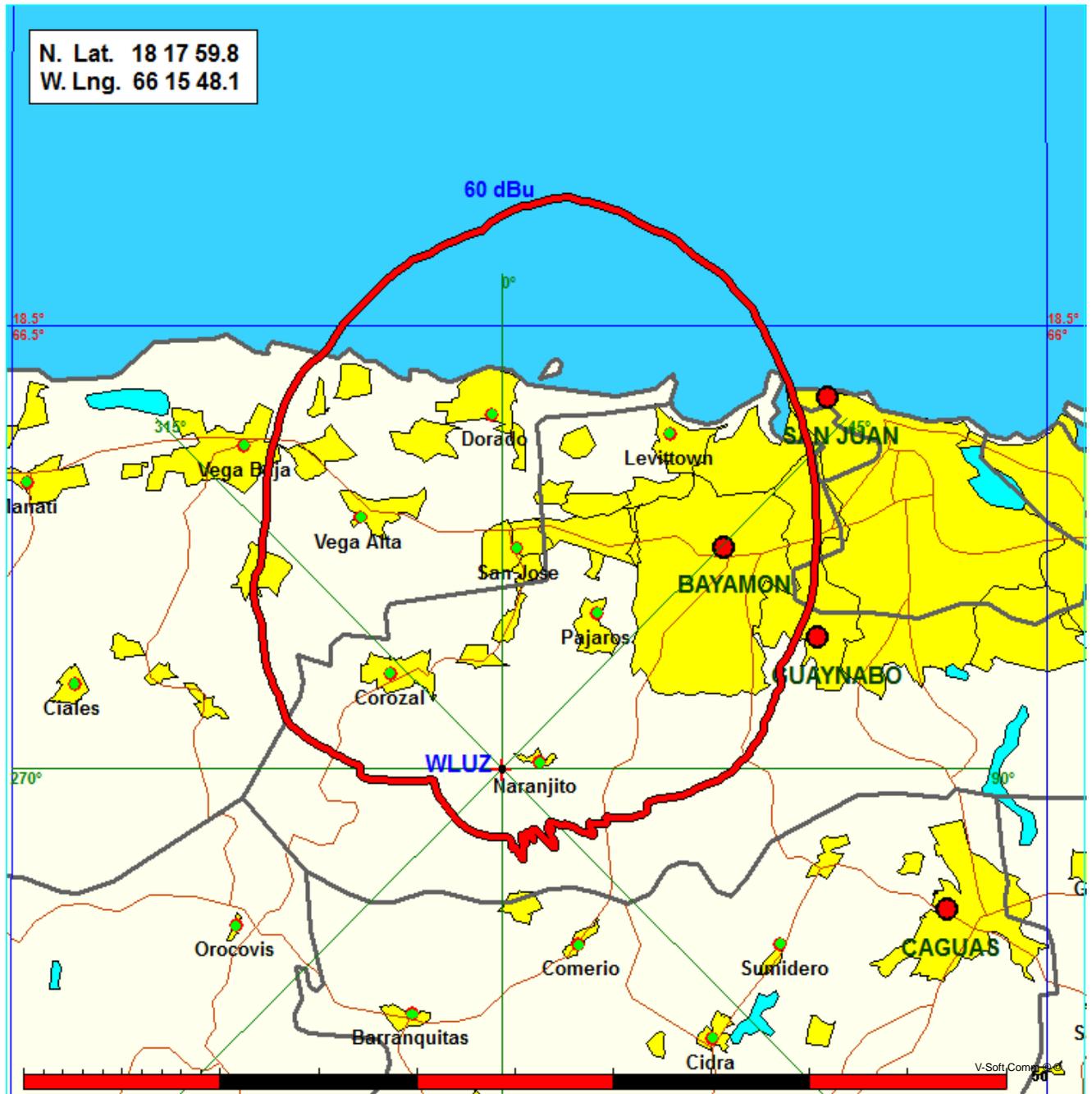
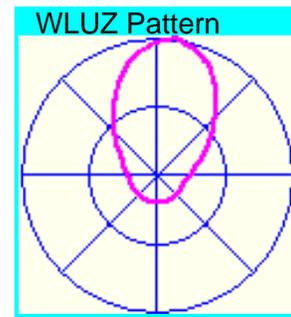
**Attachment 24**

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60 dBu Coverage to Principal City - Levittown, Puerto Rico  
Aurio A Matos Barreto

Coverage Study - USGS 03 SEC  
08-30-2013

WLUZ CH203 A , 0.38 kW, 166.6M HAAT, 468.2M COR AMSL  
Service Contour = 60 dBu. Population = 582,946



N. Lat. = 18-17-59.8 W. Lng. = 66-15-48.1  
HAAT and Distance to Contour,  
FCC, FM 2-10 Mi, 51 pts Method - USGS 03 SEC

Principal City, 60 dBu, Distance to Contour Table

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	77.2	391.0	0.3549	-4.50	0.966	27.84
045	73.4	394.8	0.1379	-8.60	0.602	22.24
090	194.5	273.7	0.0231	-16.36	0.247	11.91
135	431.2	37.0	0.0150	-18.24	0.199	3.86
180	517.0	-48.8	0.0150	-18.24	0.199	3.48
225	621.3	-153.1	0.0137	-18.65	0.190	3.40
270	348.9	119.3	0.0162	-17.90	0.207	7.17
315	149.0	319.2	0.0723	-11.41	0.436	17.10

Ave El= 301.55 M HAAT= 166.65 M AMSL= 468.2

Doug Vernier, Telecommunications Consultants  
 401 Main St., Ste 213, Cedar Falls, IA 50613

Contour-to-Contour Tabular Allocations Study  
 Aurio A Matos Barreto  
 REFERENCE CH# 203A - 88.5 MHz, Pwr= 0.38 kW DA, HAAT= 166.6 M, COR= 468.2 M  
 18 17 59.8 N. Average Protected F(50-50)= 18.88 km  
 66 15 48.1 W. Standard Directional

DISPLAY DATES  
 DATA 08-28-13  
 SEARCH 08-28-13

CH CITY	CALL	TYPE STATE	ANT	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT (M)	INT (km) COR (M)	PRO (km) LICENSEE	*IN* (Overlap in km)	*OUT* (Overlap in km)
203A Levittown	WLUZ	LIC_VX PR		29.7 209.7	19.03 BLED20060505ACP	18 26 55.0 66 10 26.0	0.100 21	18.6 62	5.6 La Gigante Siembra Inc.	-25.7*	-68.1
201B Guayama	WCRP	LIC_DCN PR		132.9 313.0	30.47 BLED19880411KD	18 06 47.0 66 03 08.0	27.000 576	6.7 933	64.8 Ministerio Radial Cristo V	17.0	-34.6* <--
205B Ponce	WPUC-FM	LIC_CN PR		248.1 68.0	37.43 BLED19840522BZ	18 10 27.0 66 35 32.0	11.000 888	6.2 1390	69.4 Pontifical Catholic Univ O	22.5	-32.3* <--
203B Vieques	1208023	APP_DVX PR		88.5 268.8	101.72 BNPED20071019AZH	18 19 18.6 65 17 59.4	50.000 152	87.4 154	31.4 Vieques Youth Leadership I	0.1	24.7
256B San Juan	WPRM-FM	LIC_C_ PR		132.9 312.9	30.48 BLH20130607AAY	18 06 47.0 66 03 06.0	25.000 581	0.0 938	0.0 Arso Radio Corporation	14.5R	16.0M
202A Mayaguez	WRUO	LIC_DC_ PR		271.8 91.5	95.76 BLED19981229KE	18 19 31.0 67 10 13.0	2.000 306	27.3 354	16.6 University Of Puerto Rico	56.1	61.7

Terrain database is USGS 03 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM  
 In & Out distances between contours are shown at closest points. Reference zone= - Zone 1A, Co to 3rd adjacent.  
 All separation margins (if shown) include rounding  
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)  
 "\*"affixed to 'IN' or 'OUT' values = site inside protected contour.  
 < = Station meets FCC minimum distance spacing for its class.  
 Reference station has protected zone issue: Arecibo Observatory  
 <-- Applicant requests continuation of waiver - see exhibit

## HOW TO READ THE FM COMPUTER PRINT-OUT

The computer printout should be self-explanatory for the most part. The parameters of the station being checked, (reference station) are printed in the heading. Contour distances are in kilometers and are predicted using the Commission's TVFMINT FORTRAN subroutine. When interference contour distances are less than 16 kilometers the F(50-50) tables are used. If signal contour distances are less than 1.6 km the free-space equation is used.

The column listed "IN " is the difference in kilometers between of the reference station's protected contour and the data file station's interference contour at the closest point between the contours. (All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket 80-90.) Therefore, "IN" column is a measure of incoming interference. Negative distances in this column indicate the presence of contour overlap. Listed antenna heights and power are those given in the FCC database. The column labeled "OUT " shows the greatest distance in kilometers of overlap or smallest of clearance between the reference station's interference contour and the database station's protected contour. Negative distance figures in this column indicate outgoing contour overlap.

Under the "AZI" column, the first row of numbers indicate the True North bearings from the reference station toward the database stations, while the numbers in the second row indicate the reverse bearings from the database stations to the reference station.

The columns labeled "INT" and "PRO" contain the distance in kilometers of the appropriate interference contour and the protected contour of a data base station.

For I.F. relationships, some channel-six TV relationships and relationships with commercial channel stations providing clearance the minimum spacings values the "IN" and "OUT" columns can change their significance. The letter "R" stands for the minimum **required** distance in kilometers, while the letter "M" in the next column follows the **available clear space** (or lack of it) in kilometers. Minimum separation distances when displayed are taken from Sec 73.207 of the rules as amended. Canadian and Mexican separation distances, U/D ratios and protected contour values are from the US/Mexican Working Agreement and the US/Canada Working Agreement".

The call letters of stations meeting the minimum separation distances under the rules will be flagged by the characters "<<" appended to the right-hand side of the call sign. The "^" character appended to the call sign means the station has been "max-classed" according to the provisions of section 73.525 of the Rules.

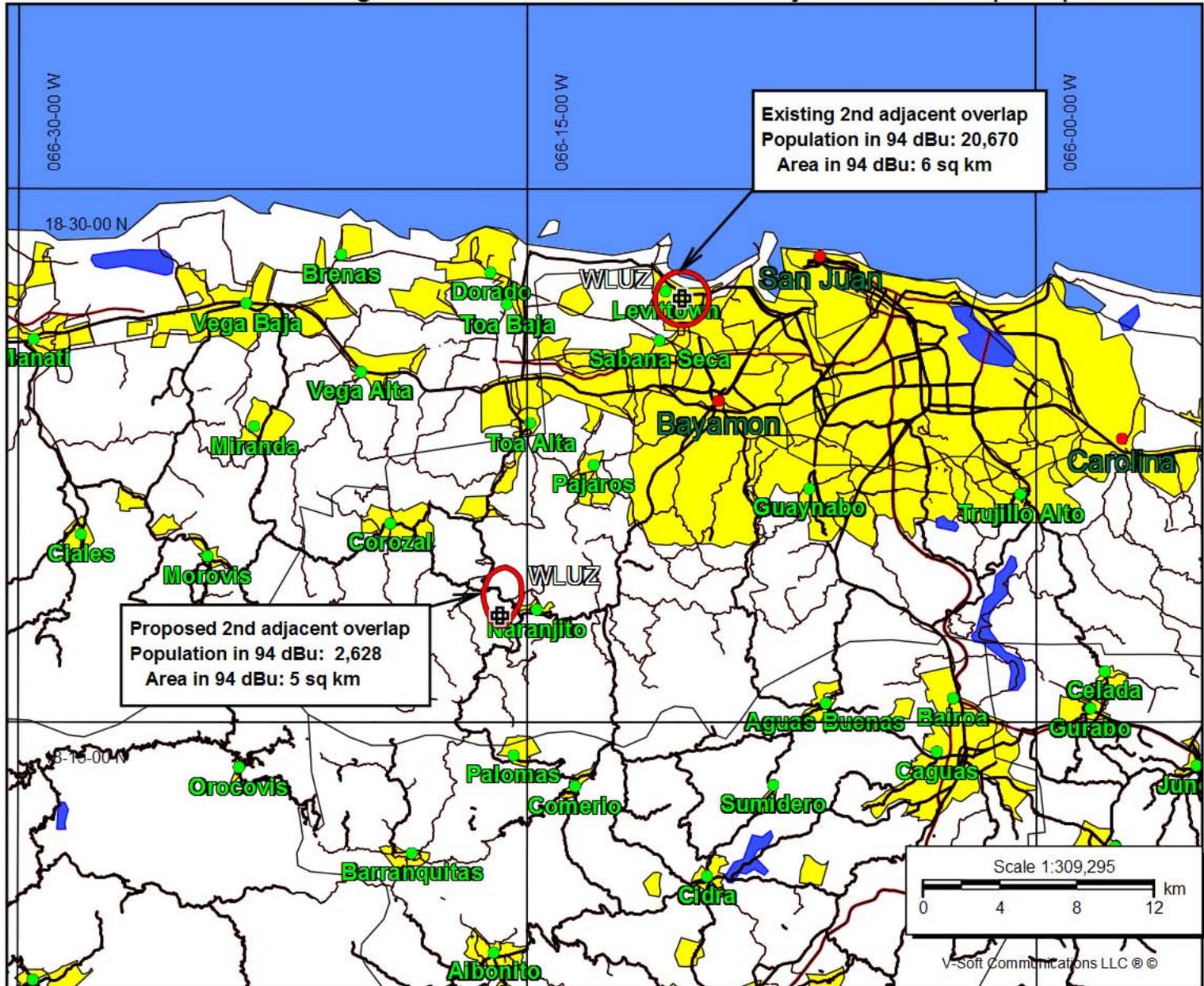
# Significant Reduction in 2nd Adjacent Overlap Population

**WLUZ License**  
**BLED20060505ACP**  
 Latitude: 18-26-55.00 N  
 Longitude: 066-10-26.00 W  
 ERP: 0.10 kW  
 Channel: 203  
 Frequency: 88.5 MHz  
 AMSL Height: 468.2 m  
 Horiz. Pattern: Omni

**WLUZ Proposed**  
 Latitude: 18-17-59.80 N  
 Longitude: 066-15-48.10 W  
 ERP: 0.38 kW  
 Channel: 203  
 Frequency: 88.5 MHz  
 AMSL Height: 468.2 m  
 Horiz. Pattern: Directional  
 Prop Model: FCC

U.S. 2010 Census  
 USGS 3-arc sec


**Doug Vernier**  
 401 Main Street, Suite 213  
 Cedar Falls, Iowa 50613  
 Telecommunication Consultants  
dvernier@tsc.com (319)266-8482



N. Lat. = 182655.0 W. Lng. = 661026.0  
HAAT and Distance to Contour,  
FCC, FM 2-10 Mi, 51 pts Method - USGS 03 SEC

WLUZ Licensed 2nd adjacent Interference Contour Table

Azi.	AV EL	HAAT	ERP kW	dBk	Field	94-F1
000	0.0	468.2	0.1000	-10.00	1.000	1.40
045	0.0	468.2	0.1000	-10.00	1.000	1.40
090	4.3	463.9	0.1000	-10.00	1.000	1.40
135	47.0	421.2	0.1000	-10.00	1.000	1.40
180	98.2	370.0	0.1000	-10.00	1.000	1.40
225	74.9	393.3	0.1000	-10.00	1.000	1.40
270	21.1	447.1	0.1000	-10.00	1.000	1.40
315	0.0	468.2	0.1000	-10.00	1.000	1.40

Ave El= 30.69 M HAAT= 437.51 M AMSL= 468.2 M

N. Lat. = 181759.8 W. Lng. = 661548.1  
HAAT and Distance to Contour,  
FCC, FM 2-10 Mi, 51 pts Method - USGS 03 SEC

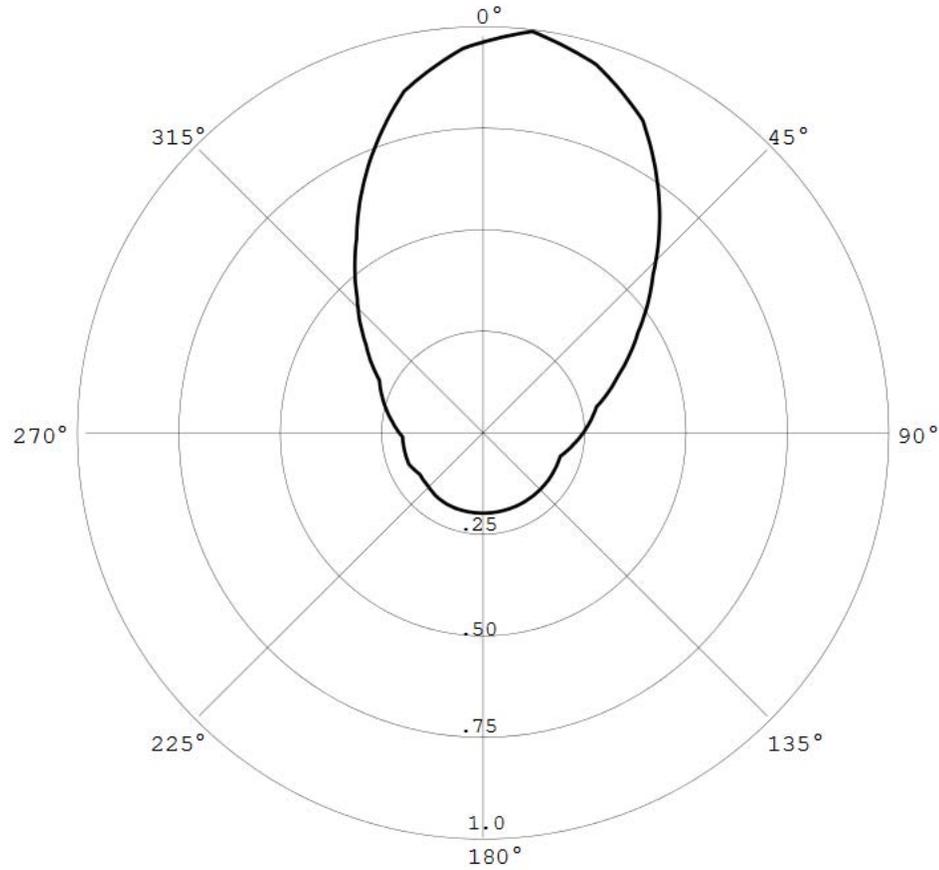
Proposed WLUZ 94 dBu 2nd Adjacent Interference Contour

Azi.	AV EL	HAAT	ERP kW	dBk	Field	94-F1
000	77.2	391.0	0.3546	-4.50	0.966	2.43
045	73.4	394.8	0.1377	-8.61	0.602	1.51
090	194.5	273.7	0.0232	-16.35	0.247	0.67
135	431.2	37.0	0.0150	-18.23	0.199	0.54
180	517.0	-48.8	0.0150	-18.23	0.199	0.54
225	621.3	-153.1	0.0137	-18.63	0.190	0.52
270	348.9	119.3	0.0163	-17.88	0.207	0.56
315	149.0	319.2	0.0722	-11.41	0.436	1.19

Ave El= 301.55 M HAAT= 166.65 M AMSL= 468.2 M

Graph is Relative Field

Azi	Field	dBk	kW
000	0.966	-04.499	0.355
010	0.986	-04.326	0.369
020	0.927	-04.861	0.327
030	0.823	-05.893	0.257
040	0.677	-07.596	0.174
050	0.537	-09.596	0.110
060	0.427	-11.596	0.069
070	0.339	-13.596	0.044
080	0.278	-15.331	0.029
090	0.247	-16.358	0.023
100	0.217	-17.458	0.018
110	0.199	-18.243	0.015
120	0.199	-18.243	0.015
130	0.199	-18.243	0.015
140	0.199	-18.243	0.015
150	0.199	-18.243	0.015
160	0.199	-18.243	0.015
170	0.199	-18.243	0.015
180	0.199	-18.243	0.015
190	0.199	-18.243	0.015
200	0.198	-18.255	0.015
210	0.197	-18.322	0.015
220	0.193	-18.509	0.014
230	0.188	-18.710	0.013
240	0.190	-18.605	0.014
250	0.199	-18.243	0.015
260	0.199	-18.243	0.015
270	0.207	-17.898	0.016
280	0.235	-16.798	0.021
290	0.265	-15.731	0.027
300	0.309	-14.393	0.036
310	0.389	-12.393	0.058
320	0.490	-10.393	0.091
330	0.617	-08.393	0.145
340	0.765	-06.531	0.222
350	0.892	-05.191	0.303

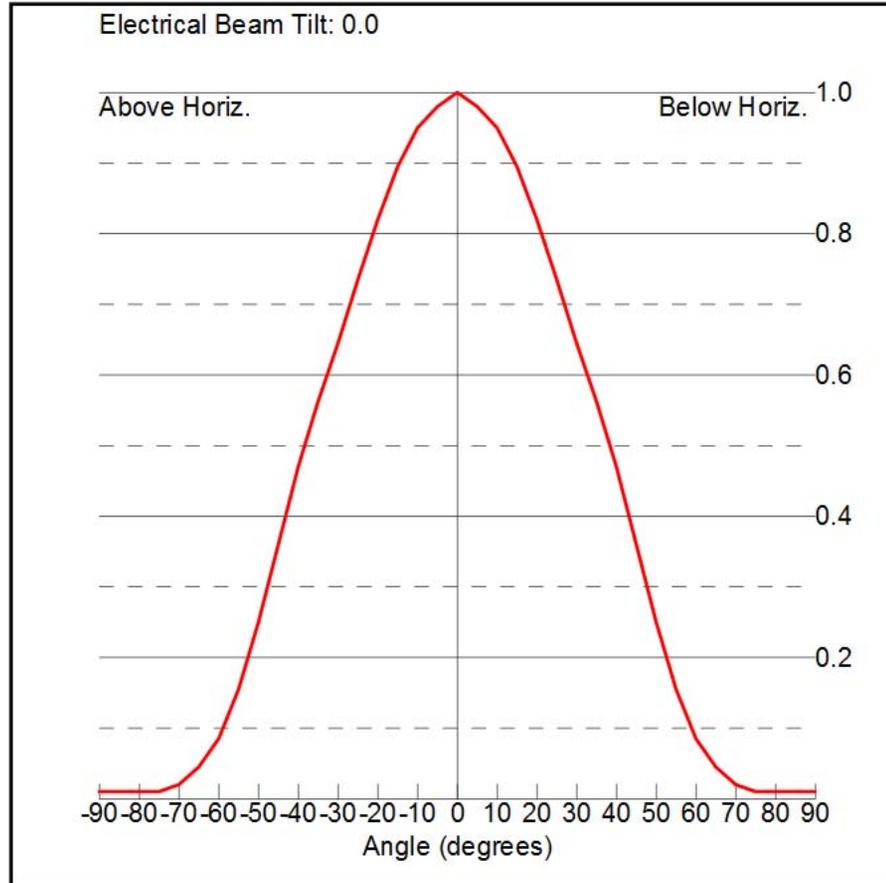


Extra Radials:

007	1.000	-04.202	0.380
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# Vertical Elevation Pattern

Angle (deg)	Relative Field
-90.0	0.01
-89.0	0.01
-88.0	0.01
-87.0	0.01
-86.0	0.01
-85.0	0.01
-84.0	0.01
-83.0	0.01
-82.0	0.01
-81.0	0.01
-80.0	0.01
-79.0	0.01
-78.0	0.01
-77.0	0.01
-76.0	0.01
-75.0	0.01
-74.0	0.012
-73.0	0.014
-72.0	0.016
-71.0	0.018
-70.0	0.02
-69.0	0.025
-68.0	0.03
-67.0	0.035
-66.0	0.04
-65.0	0.045
-64.0	0.053
-63.0	0.061
-62.0	0.069
-61.0	0.077
-60.0	0.085
-59.0	0.099
-58.0	0.113
-57.0	0.127
-56.0	0.141
-55.0	0.155
-54.0	0.174
-53.0	0.193
-52.0	0.212



-42.0	0.426
-41.0	0.448
-40.0	0.47
-39.0	0.489
-38.0	0.507
-37.0	0.525
-36.0	0.544
-35.0	0.563
-34.0	0.579
-33.0	0.596
-32.0	0.612
-31.0	0.629
-30.0	0.645

-20.0	0.82	32.0	0.612
-19.0	0.835	33.0	0.596
-18.0	0.85	34.0	0.579
-17.0	0.865	35.0	0.563
-16.0	0.88	36.0	0.544
-15.0	0.895	37.0	0.525
-14.0	0.906	38.0	0.507
-13.0	0.917	39.0	0.489
-12.0	0.928	40.0	0.47
-11.0	0.939	41.0	0.448
-10.0	0.95	42.0	0.426
-9.0	0.956	43.0	0.404
-8.0	0.962	44.0	0.382
-7.0	0.968	45.0	0.36
-6.0	0.974	46.0	0.338
-5.0	0.98	47.0	0.316
-4.0	0.984	48.0	0.294
-3.0	0.988	49.0	0.272
-2.0	0.992	50.0	0.25
-1.0	0.996	51.0	0.231
0.0	1.0	52.0	0.212
1.0	0.996	53.0	0.193
2.0	0.992	54.0	0.174
3.0	0.988	55.0	0.155
4.0	0.984	56.0	0.141
5.0	0.98	57.0	0.127
6.0	0.974	58.0	0.113
7.0	0.968	59.0	0.099
8.0	0.962	60.0	0.085
9.0	0.956	61.0	0.077
10.0	0.95	62.0	0.069
11.0	0.939	63.0	0.061
12.0	0.928	64.0	0.053
13.0	0.917	65.0	0.045
14.0	0.906	66.0	0.04
15.0	0.895	67.0	0.035
16.0	0.88	68.0	0.03
17.0	0.865	69.0	0.025
18.0	0.85	70.0	0.02
19.0	0.835	71.0	0.018
20.0	0.82	72.0	0.016
21.0	0.803	73.0	0.014
22.0	0.786	74.0	0.012

## **Directional Antenna**

The proposed custom directional antenna pattern meets the Commission's rules in that the radio frequency emission does not change more than two dB for each ten degrees of azimuthal variation. Also, the maximum pattern attenuation in the deepest null is less than 15 dB. The pattern shown is a composite of the maximum field values in the horizontal and vertical planes.

The proposed antenna will be mounted on the side of a tower using mountings that have been specified by the antenna manufacturer in accordance with the instructions provided by the manufacturer. The antenna will not be mounted on the top of a tower that includes a top mounted platform larger than the nominal cross-sectional area of the tower in the horizontal plane. No other antennas of any type will be mounted at the same tower level as the directional antenna nor within the horizontal or vertical distance specified by the manufacturer as being necessary to maintain proper directional operation. The antenna will be designed and tested by a major manufacturer of broadcast antennas known to the Commission. The pattern will be achieved through traditional methods including power-splitting, resonators and phasing.