

TECHNICAL EXHIBIT  
APPLICATION FOR CONSTRUCTION PERMIT  
BORINQUEN BROADCASTING CO., INC.  
RADIO STATION WVJP-FM  
CAGUAS, PUERTO RICO  
FACILITY ID 6441

CH 277B 26 KW 592 M

Technical Narrative

The technical exhibit of which this narrative is part has been prepared on behalf of Borinquen Broadcasting Co., Inc, licensee of FM broadcast station WVJP-FM of Caguas, Puerto Rico. WVJP-FM is licensed as a Class B station for operation on Channel 277 with a power of 28 kilowatts and an antenna height above average terrain of 581 meters. By means of the present application, the licensee proposes to update the transmitter site location coordinates, antenna height above average terrain and the effective radiated power (ERP), as given on the existing license. No other changes are proposed with this application.

This update was recently found to be necessary by comparison of the licensed transmitter site coordinates, which date from many years ago, with the more recently determined coordinates found in an inspection by the San Juan FCC Office Resident Agent. The recently surveyed site location has an elevation above mean sea level that is higher than the licensed site elevation, thus the antenna height above average terrain (HAAT) for WVJP-FM has been recalculated using the FCC web site HAAT tool to conform to the actual site elevation. The correct HAAT for station WVJP-FM is 592 meters. The additional HAAT of the WVJP-FM transmitter site affects the maximum permissible ERP allowed to the station, reducing it to 26 KW to conform to the allowed 78 km distance for the 60 dBu contour of a Class B station in Puerto Rico.

FAA Notification and Tower Registration

The Federal Aviation Administration has been notified of the need to correct the coordinates and height of this existing tower. An FAA study has been done and the tower registration has been updated. Copies of the FAA Determination of No Hazard to Air Navigation and of the updated tower registration are included in Appendix 1.

The NAD27 coordinates as determined from a recent site survey are:

18-16-41 N

65-51-12 W

The current license state the station's NAD27 coordinates as:

18-16-41 N

65-51-09 W

When comparing the licensed with the surveyed coordinates, a discrepancy of 3 seconds in West Longitude exists. Figure 1, shows the coordinates plotted on a 7.5 minute topographical map and Figure 2 shows a satellite photo.

Quiet Zones and FCC Monitoring Stations

The National Astronomy and Ionosphere Center, located at Arecibo, Puerto Rico has been notified of this proposal. Copies of the notification letter and of letter of consent from the Arecibo Observatory are included herein in Appendix 2. There will be no effects on the FCC monitoring station located in Santa Isabel, Puerto Rico.

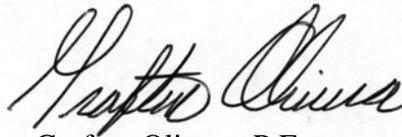
Response to Paragraph 17 - Environmental Protection Act

No actual physical or equipment change in the facilities of WVJP-FM is proposed, other than a slight reduction in ERP. Thus, the RF exposure will be somewhat lower than what the currently licensed facility cause.

Allocation Considerations

Figure 3 is an FM separation study from WVJP-FM's corrected transmitter site location for channel 277B operation based on the Commission's CDBS database. As shown, the proposed antenna location complies with the minimum distance separation requirements of Section 73.207 for Class B operation on channel 277 towards authorized stations and allotments.

WVJP-FM has operated from this site for many years and no actual changes, other than a slight reduction in power, are being proposed to the licensed transmission system. As the station's physical location has not changed and no changes are being made in the licensed antenna system, other than reducing the ERP to conform to applicable rules, it is respectfully requested that a construction permit be issued with the new set of coordinates, antenna height and ERP.



Grafton Olivera, P.E.

du Treil, Lundin & Rackley, Inc.

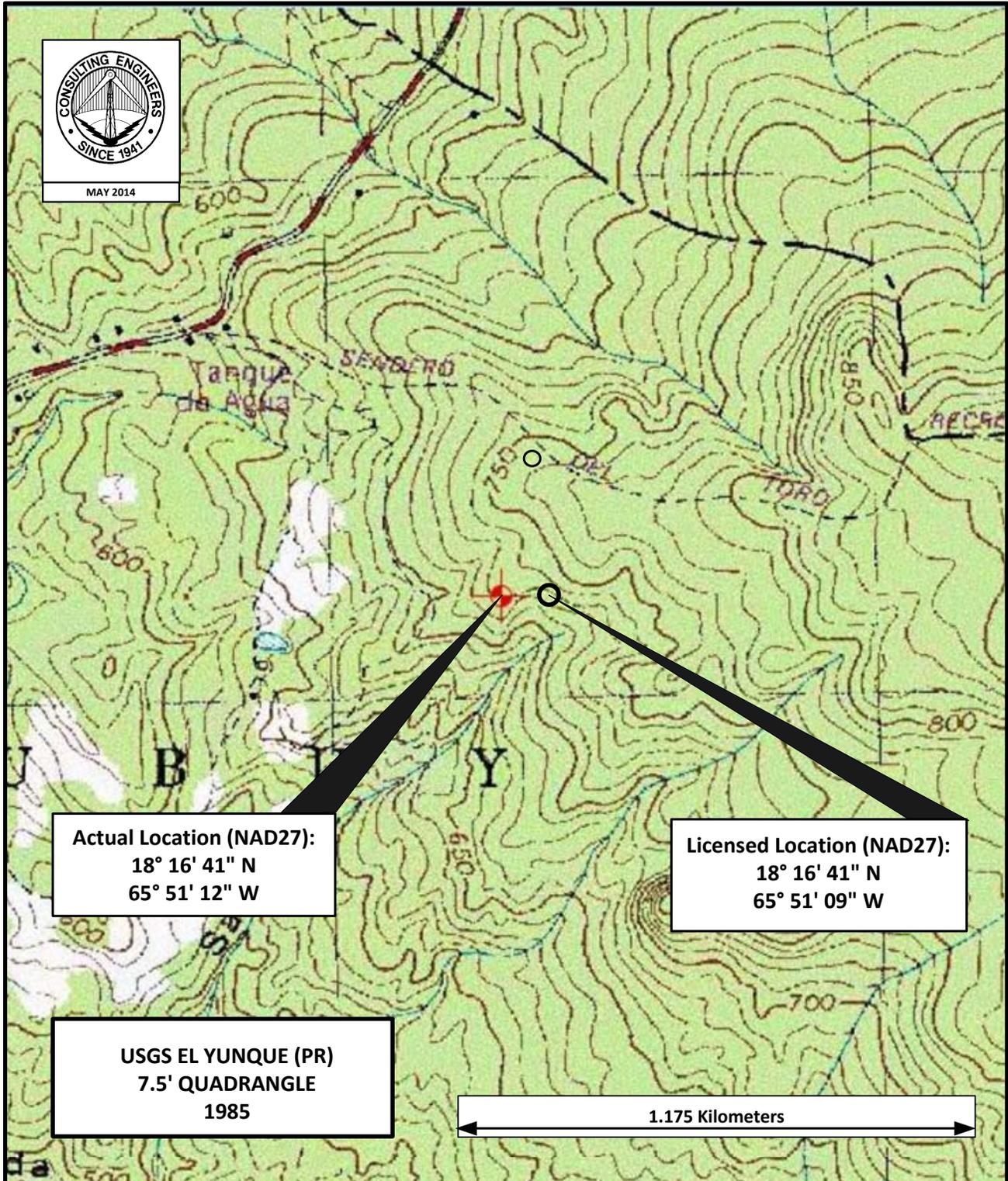
201 Fletcher Avenue

Sarasota, Florida 34237

(941) 329-6000

June 13, 2014

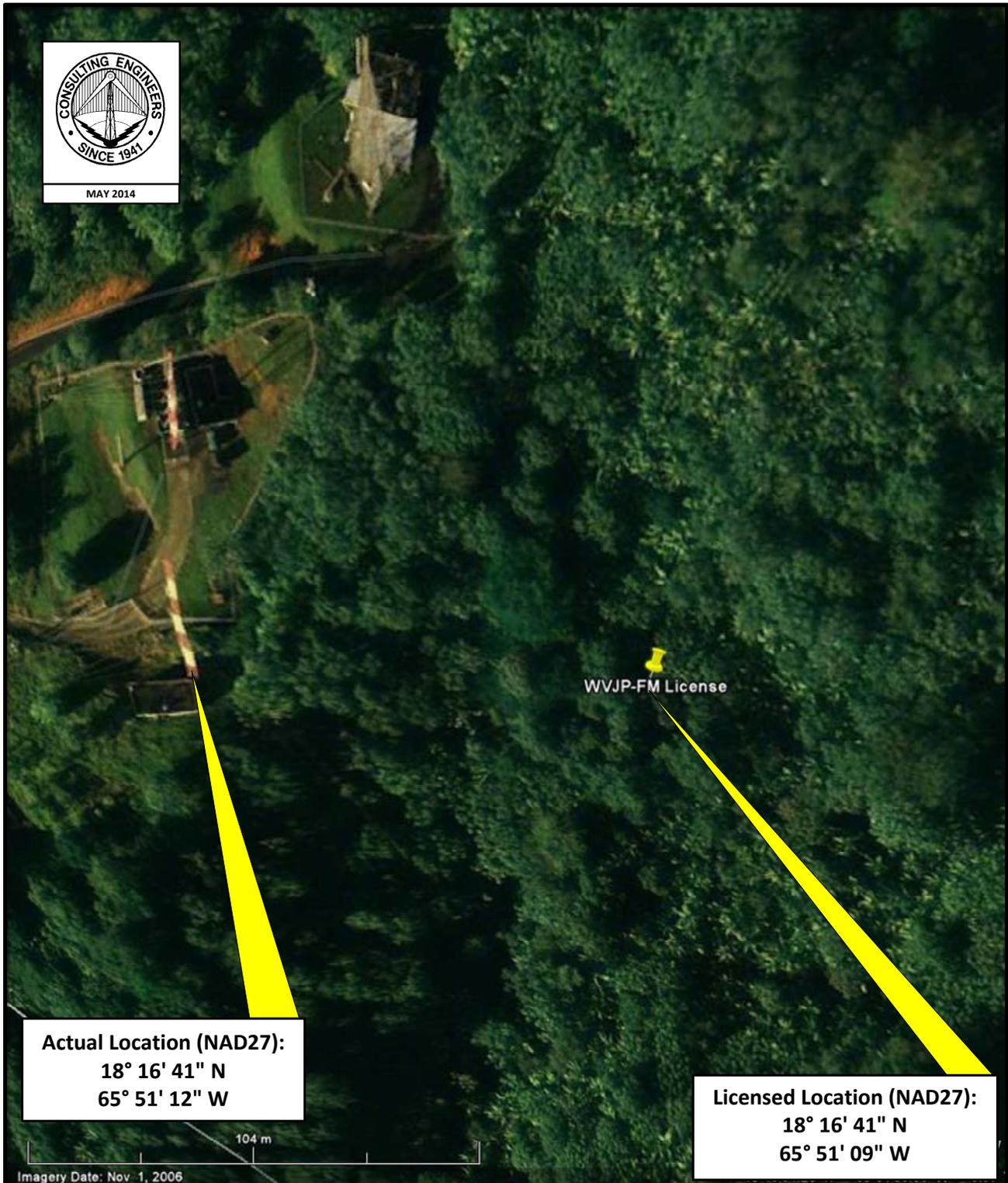
Figure 1



**SITE LOCATION**  
**RADIO STATION WVJP-FM**  
**CAGUAS, PUERTO RICO**  
**CH 277B 26 KW 592 M**

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

Figure 2



**SITE LOCATION**  
**RADIO STATION WVJP-FM**  
**CAGUAS, PUERTO RICO**  
**CH 277B 26 KW 592 M**

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

# FM Study

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



**Station Channel:** 277      **Station Coordinates:** 018-16-41 065-51-12 (NAD 27)

**Class:** B      **Buffer Distance:** 50 km

**Comment:**

Callsign	Status	Channel	Service	Freq.	City	State	Co.	Rec Type	Latitude	Dist. (km)	Sep. (km)	Spacing (km)		
Facility ID	ARN			Class	DA	Ant ID	ERP (kW)	HAAT (m)	73.215 Longitude	Bear. (deg)	73.215 (km)	Comment		
<b>WORO</b>	LIC	223	FM	92.5	COROZAL				PR US C	018-15-09	50.78	20	30.78	
9335	BLH	19900530KC		B	N		50	365		N	066-19-58	266.86	<b>CLEAR</b>	
<b>WDIN</b>	LIC	275	FM	102.9	CAMUY				PR US C	018-17-27	85.39	74	11.39	
27954	BLH	20030728AFW		B	N		50	321		N	066-39-39	271.08	68	<b>CLEAR</b>
<b>WIUJ</b>	LIC	275	FM	102.9	CHARLOTTE AMALIE				VI US C	018-21-26	96.19	69	27.19	
70026	BLED	19970220KA		A	N		1.5	435		N	064-56-50	84.6	63	<b>CLEAR</b>
<b>WVJP-FM</b>	LIC	277	FM	103.3	CAGUAS				PR US C	018-16-41	0.09	241	-240.91	
6441	BLH	19890331KI		B			28	581		N	065-51-09	90.05	211	<b>SHORT</b>
<b>WAXJ</b>	LIC	278	FM	103.5	FREDERIKSTED				VI US C	017-43-28	119.54	113	6.54	
8888	BLH	19990819KB		A	N		6	-10		N	064-53-03	120.84	96	<b>CLOSE</b>

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FAA Determination of No Hazard and ASR Amendment

*{seven sheets follow}*



Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
2601 Meacham Boulevard  
Fort Worth, TX 76193

Aeronautical Study No.  
2014-ASO-4840-OE  
Prior Study No.  
1987-ASO-37-OE

Issued Date: 06/11/2014

Raymond Hernandez  
Borinquen Broadcasting Co. Inc.  
PO Box 207  
Caguas, PR 00726

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Antenna Tower WVJP-FM Tower at Cubuy
Location:	RIO GRANDE, PR
Latitude:	18-16-33.80N NAD 83
Longitude:	65-51-10.34W
Heights:	2395 feet site elevation (SE) 306 feet above ground level (AGL) 2701 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

As a condition to this Determination, the structure should continue to be marked/lighted utilizing paint/red lights.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

This aeronautical study included evaluation of a structure that exists at this time. Action will be taken to ensure aeronautical charts are updated to reflect the most current coordinates, elevation and height as indicated in the case description.

A copy of this determination will be forwarded to the Federal Communications Commission (FCC) because the structure is subject to their licensing authority.

If we can be of further assistance, please contact our office at (847) 294-7575. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2014-ASO-4840-OE.

**Signature Control No: 215490167-220649667**

( DNE )

Vivian Vilaro  
Specialist

Attachment(s)  
Frequency Data

cc: FCC

Frequency Data for ASN 2014-ASO-4840-OE

<b>LOW FREQUENCY</b>	<b>HIGH FREQUENCY</b>	<b>FREQUENCY UNIT</b>	<b>ERP</b>	<b>ERP UNIT</b>
103.2	103.4	MHz	27	kW

**FCC Form 854  
 Main Form**

Approved by OMD – 3060-0139  
 See instructions for public burden estimate

**Application for Antenna Structure Registration**

**Purpose of Filing**

1) Enter the application purpose: <b>(MD)</b>	
<b>AM</b> – Amendment of a Pending Application <b>AU</b> – Administrative Update <b>CA</b> – Cancellation of an Antenna Structure Registration <b>DI</b> – Notification of an Antenna Structure Dismantlement <b>DU</b> – Request for a Duplicate Antenna Structure Registration <b>MD</b> – Modification of a Antenna Structure Registration	<b>NE</b> – Registration of a New Antenna Structure <b>NT</b> – Required Construction/Alteration Notification <b>OC</b> – Ownership Change <b>RE</b> – Registration of a Replacement Antenna Structure <b>WD</b> – Withdrawal of a Pending Application
2a) If the answer to 1 is AU, CA, DI, DU, MD, NT, OC or RE, provide the FCC Antenna Structure Registration (ASR) Number.	FCC ASR Number: <b>1011423</b>
2b) If the answer to 1 is AM or WD, provide the File Number of the pending application on file.	File Number:
2c) If the answer to 1 is MD or NT, provide the date the Antenna Structure was constructed or the date it was last altered (mm/dd/yyyy).	Date: <b>01/01/1987</b>
2d) If the answer to 1 is DI, provide the date the Antenna Structure was dismantled (mm/dd/yyyy).	Date:

**Antenna Structure Ownership Information**

3) Select one of the entity types:			
( ) Individual	( ) Unincorporated Association	( ) Trust	( ) Government Entity
( <b>X</b> ) Corporation	( ) Limited Liability Company	( ) General Partnership	( ) Limited Partnership
( ) Consortium	( ) Limited Liability Partnership	( ) Other: _____	
4) FCC Registration Number (FRN): <b>0005022116</b>		5) Assignor FCC Registration Number (FRN):	
6) First Name (if individual):	MI:	Last Name:	Suffix:
7) Legal Entity Name (if not an individual): <b>BORINQUEN BROADCASTING CO WVJP FM</b>			
8) Attention To: <b>SANDRA RODRIGUEZ</b>		9) P.O. Box: <b>207</b>	<b>And/Or</b>
10a) Street Address 1:		10b) Street Address 2:	
11) City: <b>CAGUAS</b>	12) State: <b>PR</b>	13) Zip Code: <b>00726</b>	
14) Telephone Number (xxx-xxx-xxxx): <b>(787) 743-5790</b>		15) Fax Number: (xxx-xxx-xxxx):	
16) E-mail Address: <b>SANDRARODRIGUEZ2008@YAHOO.COM</b>			

### Contact Representative Information

17) First Name (if individual): <b>SANDRA</b>	MI:	Last Name: <b>RODRIGUEZ</b>	Suffix:
18) Business Name: <b>BORINQUEN BROADCASTING CO WVJP FM</b>			
19) Attention To: <b>SANDRA RODRIGUEZ</b>	20) P.O. Box <b>207</b>		And/Or
21a) Street Address 1:		21b) Street Address 2:	
22) City: <b>CAGUAS</b>	23) State: <b>PR</b>	24) Zip Code: <b>00726</b>	
25) Telephone Number (xxx-xxx-xxxx): <b>(787) 743-5790</b>		26) Fax Number: (xxx-xxx-xxxx):	
27) E-mail Address: <b>SANDRARODRIGUEZ2008@YAHOO.COM</b>			

### Antenna Structure Information

28a) Latitude (DD-MM-SS.S): <b>18- 16- 33.8</b>		28b) North or South: <b>North</b>	
29a) Longitude (DDD-MM-SS.S): <b>065- 51- 10.3</b>		29b) East or West: <b>West</b>	
30) Street Address or Geographic Location: <b>1.67 KM at 191.5° True of center of the city of Rio Grande.</b>		31) City: <b>RIO GRANDE</b>	
32) County: <b>CANOVANAS</b>	33) State: <b>PUERTO RICO</b>		34) Zip Code: <b>00729</b>
35) Elevation of site above mean sea level (meters):			<b>730.0 meters</b>
36) Overall height above ground level (AGL) of the supporting structure without appurtenances:			<b>90.3 meters</b>
37) Overall height above ground level (AGL) of the antenna structure including all appurtenances:			<b>93.3 meters</b>
38) Overall height above mean sea level (add items 35 and 37 together):			<b>823.3 meters</b>
39a) Enter the type of structure on which the antenna will be mounted: ( <b>GTOWER</b> )			
<b>B</b> – Building <b>BANT</b> – Building with Antenna on Top <b>BMAST</b> – Building with Mast <b>BPIPE</b> – Building with Pipe <b>BPOLE</b> – Building with Pole <b>BRIDG</b> – Bridge <b>BTWR</b> – Building with Tower <b>GTOWER</b> – Guyed Structure Used For Communication Purposes <b>LTOWER</b> – Lattice Tower <b>MAST</b> – Mast <b>MTOWER</b> – Monopole <b>NNGTANN</b> – Guyed Tower Array		<b>NNLTANN</b> – Lattice Tower Array <b>NNMTANN</b> – Monopole Array <b>PIPE</b> – Any type of Pipe <b>POLE</b> – Any type of Pole <b>RIG</b> – Oil or Other Type of Rig <b>SIGN</b> – Any type of Sign or Billboard <b>SILO</b> – Any type of Silo <b>STACK</b> – Smoke Stack <b>TANK</b> – Any type of Tank (water, gas, etc.) <b>TREE</b> – When used as a support for an antenna <b>UPOLE</b> – Utility Pole/Tower used to provide service (electric, telephone, etc.)	
39b) Number of Towers in Array:		39c) Position of this Tower in the Array:	
40a) Array Center Latitude (DD-MM-SS.S):		40b) North or South	
41a) Array Center Longitude (DDD-MM-SS.S):		41b) East or West:	

**Proposed Marking and/or Lighting**

42) Enter the proposed marking and/or lighting: ( 9 )		
<b>Tier 1 - No Lights</b>	<b>Tier 2 – No Red Steady Lights</b>	<b>Tier 3 – Red Steady Lights</b>
1) None	4) FAA Style B (L-856)	7) FAA Style E (L-864/L-865/L-810)
2) Paint Only	5) FAA Style D (L-865)	8) FAA Style F (L-856/L-864/L-810)
3) Other _____	6) FAA Style C (L-856/L-865)	9) FAA Style A (L-864/L-810)

**FAA Notification**

43) FAA Study Number: <b>2014-ASO-4840-OE</b>	44) Date Issued: <b>06/11/2014</b>
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**Environmental Compliance**

45) Does the applicant request a waiver of the Commission's rules for environmental notice prior to construction due to an emergency situation?	( ) Yes or No
46a) If the answer to 45 is No, is another federal agency taking responsibility for environmental review of the Antenna Structure?	( ) Yes or No
46b) If the answer to 46a is Yes, indicate why:  1) The Antenna Structure is on Federal Land and the landholding agency is taking responsibility for the environmental review of the Antenna Structure.  2) Another federal agency has agreed with the FCC in writing to take responsibility for the environmental review of the Antenna Structure.	( ) 1 or 2
46c) If the answer to 46a is Yes, provide the name of the federal agency taking responsibility for the environmental review of the Antenna Structure.	Name:
47) If the answers to 45 and 46a are No, provide the National Notice Date for the application to be posted on the FCC's website (mm/dd/yyyy).	Date:
48) Is the applicant submitting an environmental assessment?	( No ) Yes or No
49) Does the applicant certify that grant of Authorizations at this location would not have a significant environmental effect pursuant to Section 1.1307 of the FCC's rules?	( Yes ) Yes or No
50) If the answer to 49 is Yes, select the basis for this certification.  1) The construction is exempt from environmental notification (other than due to another agency's review) and it does not fall within one of the categories in Section 1.1307(a) or (b) of the FCC's rules?  2) The construction is exempt from environmental notification due to another agency's review, and the other agency has issued a Finding of No Significant Impact.  3) The environmental notification has been completed, and the FCC has notified the applicant that an Environmental Assessment is not required under Section 1.1307(c) or (d) of the FCC's rules, and the Construction does not fall within one of the categories in Section 1.1307(a) or (b) of the FCC's rules.  4) The FCC has issued a Finding of No Significant Impact.	( 1 ) 1, 2, 3, 4
51) If the answer to 50 is 3 or 4, enter the date that Local Notice was provided (mm/dd/yyyy).	Date:

**Certification Statements**

- 1) The applicant certifies that all statements made in this application and in the exhibits, attachments, or documents incorporated by reference are material, are part of this application, and are true, complete, correct, and made in good faith.
- 2) The applicant certifies that neither the applicant nor any other party to the application is subject to a denial of Federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. § 862, because of a conviction for possession or distribution of a controlled substance. See Section 1.2002(b) of the rules, 47 CFR § 1.2002(b), for the definition of "party to the application" as used in this certification

**Signature** (Typed or Printed Name of Party Authorized to Sign)

52) First Name: <b>ISABEL</b>	MI:	Last Name: <b>RUIZ-RODRIGUEZ</b>	Suffix:
53) Title: <b>PRESIDENT</b>			
54) Signature: <b>ISABEL RUIZ-RODRIGUEZ</b>			55) Date: <b>Jun 13, 2014</b>

**WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS 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).**

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FACILITY ID 6441

CH 277B 26 KW 592 M

Notification and Letter of Consent - National Astronomy and Ionosphere Center

*{two sheets follow}*



201 Fletcher Ave.  
Sarasota, FL 34237-6019  
941-329-6000  
941-329-6031 FAX

**Grafton Olivera**  
Direct Dial 941-329-6001  
e-mail: [grifton@dlr.com](mailto:grifton@dlr.com)

June 12 2014

Via email ([prcz@naic.edu](mailto:prcz@naic.edu))

Angel M. Vázquez, Spectrum Manager  
National Astronomy and Ionosphere Center  
Arecibo Observatory  
HC3 Box 53995  
Arecibo, PR 00612

Gentleman:

On behalf of our client, Borinquen Broadcasting Co., Inc., licensee of radio station WVJP-FM, Caguas, Puerto Rico, in accordance with Section 73.1030 of the FCC Rules, we hereby notify the proposed correction in parameters of WVJP-FM - no actual physical change is proposed, other than a slight reduction in ERP. This update was recently found to be necessary by comparison of the licensed transmitter site coordinates, which date from many years, with more recently determined coordinates. The particulars are as follows:

Presently Licensed Facility

Geographical coordinates of antenna location (NAD27): 18-16-41 / 65-51-09  
Antenna height: 87 m AGL; 813 m AMSL  
Antenna directivity: ND  
Operating channel: 277B (103.3 MHz)  
Type of emission: F3E  
Effective isotropic radiated power: 45.92 kW – Circular Polarization

Proposed Facility

Geographical coordinates of antenna location (NAD27): 18-16-41 / 65-51-12  
Antenna height: 87 m AGL; 817 m AMSL  
Antenna directivity: ND  
Operating channel: 277B (103.3 MHz)  
Type of emission: F3E  
Effective isotropic radiated power: 42.64 kW – Circular Polarization

Please review this proposal and let us know your findings; feel free to communicate via email (<mailto:Grafton@dlr.com>), telefax (941-329-6030) or regular mail.

Very truly yours,

Grafton Olivera, P.E.

# ARECIBO OBSERVATORY

The William E. Gordon Telescope  
The Angel Ramos Foundation Visitor Center



June 13, 2014

Mr. Grafton Olivera, P.E.  
du Treil, Lundin & Rackley, Inc.  
201 Fletcher Ave.  
Sarasota, FL 34237-6019

Re: Borinquén Broadcasting Co.  
Call Sign WVJP-FM

Dear Grafton Olivera:

Thank you very much for the copy of your FCC application sent to us in accordance with the Puerto Rico Coordination zone agreements. We have considered the technical aspects of your application and find that your installation/path originating in Caguas is unlikely to cause harmful interference to the passive use of the Radio Astronomy bands at the Observatory. We therefore have no objection to your proposed installation.

Sincerely yours,

Angel M. Vázquez  
Spectrum Manager

AV:ws

Cc: PRCZ files [File #00140060028]