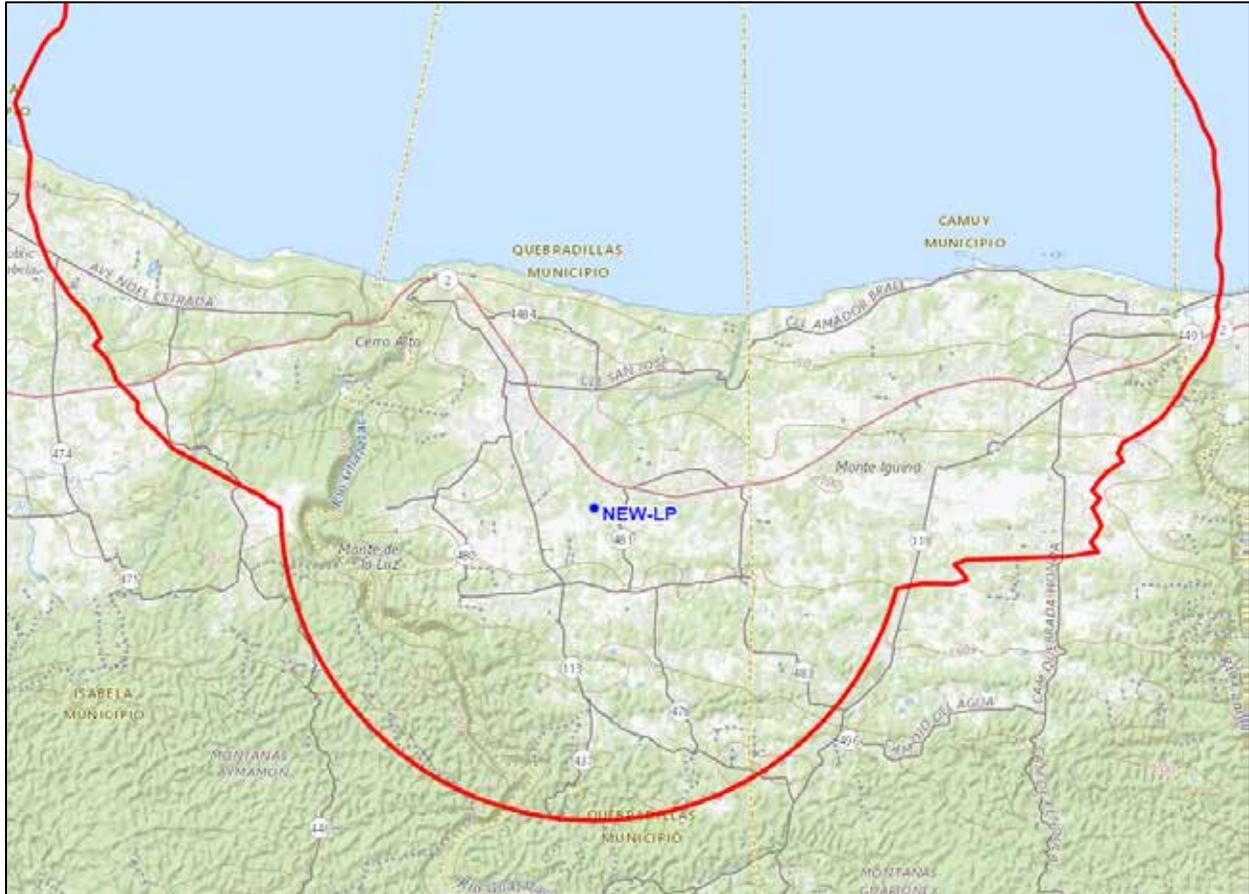




REC Networks/Michelle Bradley CBT
11541 Riverton Wharf Rd.
Mardela Springs, MD 21837
844.REC.LPFM/202.621.2355
recnet.com

Original Construction Permit Application
QUEBRADILLAS, PR
ALIMENTAME RESCATAME ADOPTAME CORP.
Facility ID: 778238

PROPOSED 60dBu F(50,50) SERVICE CONTOUR



QUEBRADILLAS, PR ~ Channel 207LP100 (89.3 MHz) ~ ERP **0.064 kW**
Elev: 151.86 meters ~ RCAGL: 18.8 meters ~ RCAMSL: 170.66 meters ~ HAAT: 30 meters
Overall tower height: 22.3 meters AGL ~ ASR: None (no airports within 8 km)
NAD83 Latitude: 18° 27' 21.5" NL ~ Longitude: 66° 55' 29.7" WL
No AM stations within 3 km.
Elevation and HAAT based on NED1 data from FCC Contours API.
New antenna and tower construction.
Consent received from licensee of W06DA-D.
Arecibo Observatory notified.

ALIMENTAME RESCATAME ADOPTAME CORP.

New(LP)
Quebradillas, Puerto Rico
Channel 207LP100 (89.3 MHz)

Distance separation	<i>§73.807</i>	3
Calculation of HAAT	<i>§73.313(d)</i>	4
Second-adjacent channel waiver request	<i>§73.807(a)</i>	6
Operation at reduced power	<i>§73.811(a)</i>	6
TV Channel 6 Protection	<i>§73.825</i>	10
Educational Statement	<i>§73.503(a)</i>	11
Evidence of Corporation Status	<i>§73.503(a)</i>	12
LPFM Point System factors	<i>§73.872</i>	13

R E C NETWORKS
CHANNEL REPORT

NAD83 LATITUDE: 18 - 27' 21.5" - LONGITUDE: 66 - 55' 29.7"
CHANNEL: 207 - CLASS: LP100(PR/VI)

CHAN	FREQ	CALL	LOCATION	CLS	DIST	REQ	CLEAR	BEAR
Channel-6	W06DA-D		AGUADA	PR	34.6	0.0	34.6	190.0
: > Short spaced - Consent letter included.								
Channel-6	W06DA-D		AGUADA	PR	30.2	0.0	30.2	145.3
: > Short spaced - Consent letter included.								
205	88.9	WPUC-FM	PONCE	PR B	47.0	92.0	-45.0	131.7
: PONTIFICAL CATHOLIC UNIV OF PUERTO RICO SERVICE ASSN, INC.								
: > See waiver request.								
206	89.1	W206AF	MAYAGUEZ	PR D8	34.7	28.0	6.7	190.0
: PONTIFICAL CATHOLIC UNIV OF PUERTO RICO SERVICE ASSN, INC.								
207	89.3	WJVP	CULEBRA	PR B	171.7	138.0	33.7	94.5
: TABERNACULO DE SANTIDAD INC.								
208	89.5	W208AE	MAYAGUEZ	PR D8	31.1	28.0	3.1	239.9
: LA GIGANTE SIEMBRA, INC.								
209	89.7	WRTU	SAN JUAN	PR B	91.3	92.0	-0.7	103.4
: UNIVERSITY OF PUERTO RICO								
: > See waiver request (no contour overlap)								
210	89.9		UTUADO	PR A	31.0	0.0	31.0	132.9
: * Does not meet third adjacent channel spacing under LCRA Sect 7.								
210	89.9	WMLG	GUAYANILLA	PR A	51.3	0.0	51.3	161.7
: CAGUAS EDUCATIONAL TV, INC.								

CALCULATION OF HEIGHT ABOVE AVERAGE TERRAIN
DETERMINATION OF PROPOSED LPFM EFFECTIVE RADIATED POWER

New(LP)
 Quebradillas, Puerto Rico
 Channel 207LP100 (89.3 MHz)

A conventional check of height above average terrain (HAAT) for this proposed facility utilizing the FCC Contours API using NED1 terrain data returns 51.12 meters, based on 8 radials. However, in this case, the proposed site is located within 16 kilometers of a large body of water (the Atlantic Ocean) along the 0, 45 and 315 degree radials.

§73.313(d)(2) of the Commission's Rules states that when calculating HAAT, where the 3 to 16 kilometers portion of a radial extends whole or in part over a large body of water or extends into a foreign country and where the 50 uV/m (34 dBu) contour does not encompass United States land area, only the part of the radial from 3 kilometers to the outermost portion of land in the United States covered by the radial must be used in the computation of the antenna HAAT.

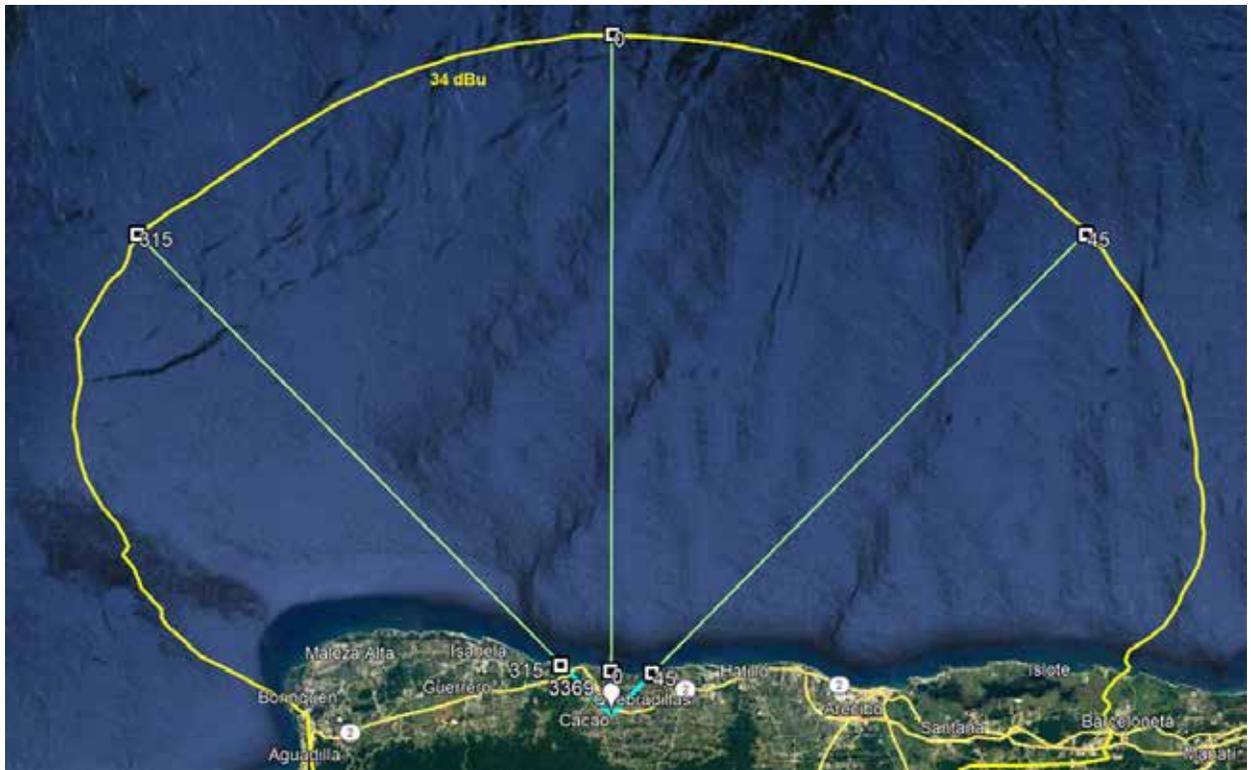
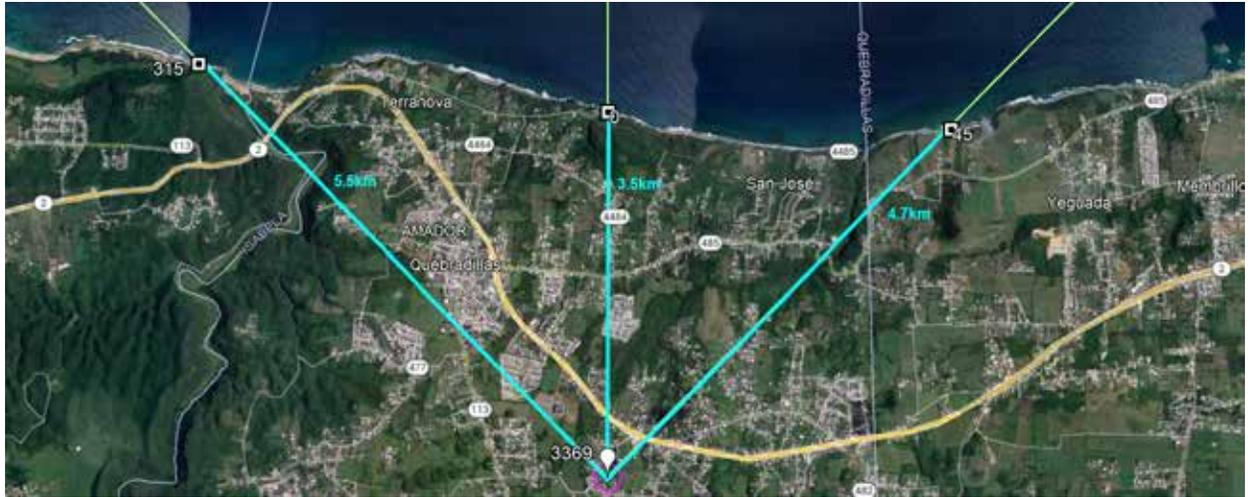
Utilizing the profile functionality of the FCC Contours API, we have recalculated the average elevations along the 0, 45 and 315 degree radials, each utilizing 50 evenly-spaced points utilizing NED1 terrain data. In addition, a contour study demonstrates that there is no other United States land area along those radials within the 34 dBu interfering contour. As such, the calculation of HAAT along each of the 8 radials is calculated as follows:

Azimuth	Original HAAT	Distance checked	Average Elevation	Adjusted HAAT
0	467.95	3 ~ 3.5 km	55.36 m	96.5
45	465.86	3 ~ 4.7 km	33.86 m	118
90	76.1			
135	-77.67			
180	-83.69			
225	-32.27			
270	30.19			
315	462.5	3 ~ 5.5 km	38.8 m	113.06

Taking these adjustments along the 0, 45 and 315 degree radials into consideration, the adjusted HAAT is **30.03 meters** (rounded to 30 meters). Pursuant to §73.811(a) of the Commission's Rules, to achieve a 5.6 kilometer service contour, an effective radiated power of **100 watts** (0.1 kW) must be utilized. Therefore, the minimum ERP from this site is 50 watts and the maximum ERP is 100 watts.

Prepared by,

Michelle Bradley, CBT
 November 1, 2023



REQUEST FOR WAIVER OF §73.807(a)
SHORT-SPACED SECOND-ADJACENT CHANNEL

New(LP)
Quebradillas, Puerto Rico
Channel 207LP100 (89.3 MHz)

The instant application meets all §73.807 distance separation requirements with the exception of second-adjacent channel stations WPUC-FM, Ponce, Puerto Rico (Facility ID No. 9351) and WRTU, San Juan, Puerto Rico (Facility ID No. 69090). To address these shortcomings, we propose the following as set forth:

In respect to WRTU

WRTU operates on Channel 209B in the noncommercial educational (NCE) reserved band with 50 kW effective radiated power at 244 meters height above terrain (HAAT). Due to intervening terrain, the 100 dBu interfering contour of the proposed LPFM station does not overlap the 60 dBu protected contour of WRTU. Therefore, the proposed facility will not cause any interference to listeners or potential listeners of WRTU.

In respect to WPUC-FM

WPUC operates on Channel 205B in the NCE reserved band with 12 kW ERP at 827 meters HAAT. WPUC-FM places a 75 dBu service contour at the proposed LPFM site.

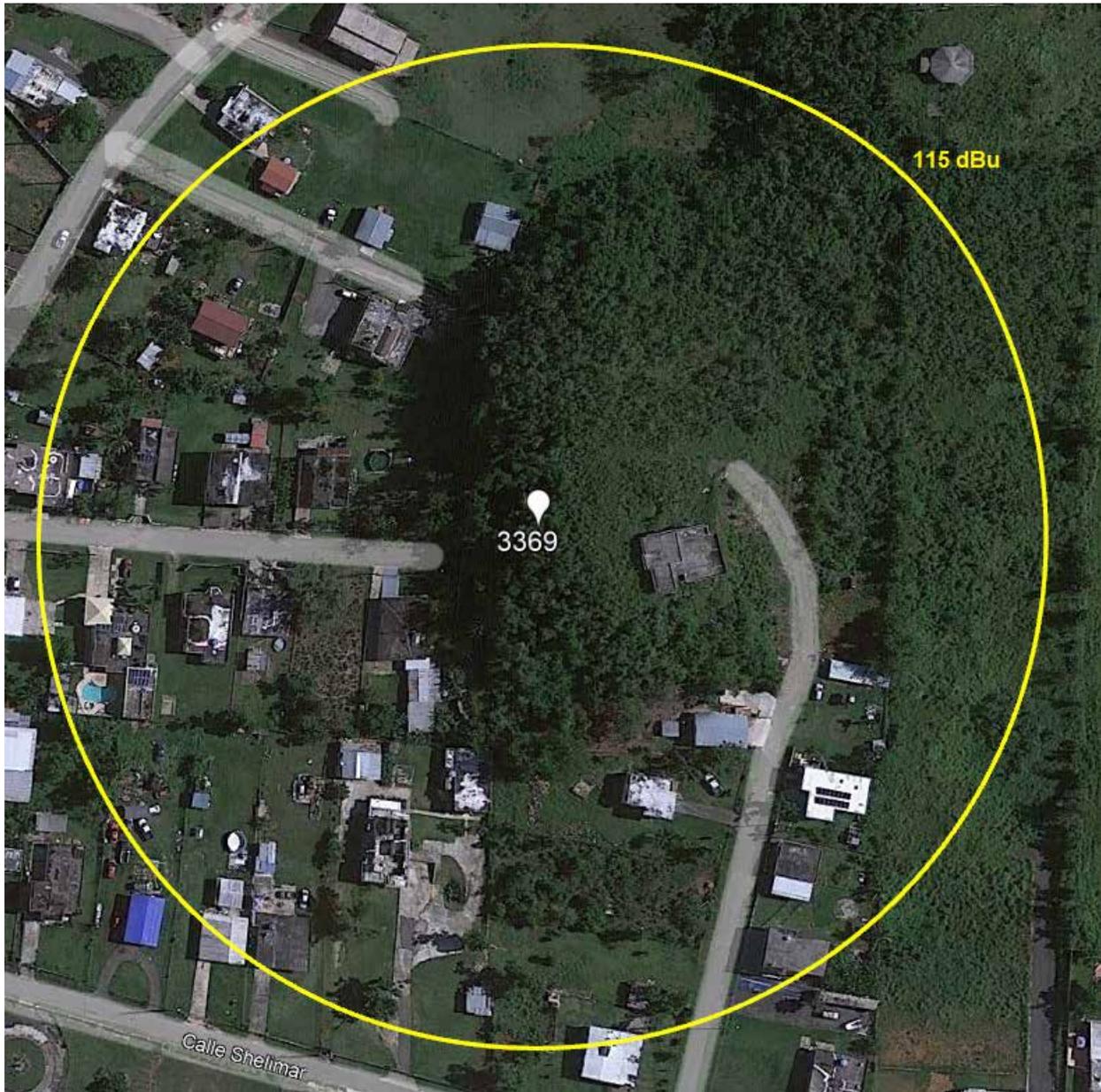
Using the U/D method¹, the proposed LPFM station is predicted to produce an undesired interference overlap in respect to WPUC-FM to the proposed LPFM station's 115 dBu interfering contour ("overlap zone"). At 100 watts ERP, the overlap zone extends to 125 meters from the base of the antenna structure. The overlap zone reaches the ground and includes several nearby occupied structures. To address the occupied structures, the applicant will use a combination of a reduced proposed ERP and a 3-bay OMB MP circular polarized antenna at 3/4 wave spacing. Based on the manufacturer's specifications, the 115 dBu interfering contour will not penetrate into any occupied area of nearby structures as long as the ERP is reduced to 64 watts (0.064 kW).

As we have determined that the proposed facility will not cause any interference, the applicant is requesting to **propose operation at 64 watts** (0.064 kW) and a waiver of §73.807(a) in respect to WPUC-FM, Ponce, Puerto Rico and WRTU, San Juan, Puerto Rico.

Prepared by,
/S/
Michelle Bradley, CBT
REC Networks
November 1, 2023

¹ See *Living Way Ministries, Inc.* Memorandum Opinion and Order, 17 FCC Rcd 17054, 17056 (2002) at 5. *Recon denied* 23 FCC Rcd 15070 (2008).

115 dBu (125 meter) overlap zone surrounding proposed site



Proposed Power:				0.064 kW				
Antenna Height AGL:				18.8 m				
Interference Contour:				115 dBu				
Artificial RX Antenna Height:				2 m				
Antenna Type:				OMB MP - 3 bay 3/4-wave spacing				
Angle Below Horizon	Antenna Relative Field	ERP in kW	ERP in dBk	Distance from Ant to Interference Contour	Distance from Ant to Artificial Plane	Field Strength in dBu @ Artificial Plane	Distance from Ant to Ground Level	Field Strength in dBu @ Ground Level
5	0.956	0.058	-12.33	95.40	192.76	108.89	215.71	107.91
10	0.832	0.044	-13.54	83.03	96.75	113.67	108.26	112.69
15	0.648	0.027	-15.71	64.66	64.91	114.97	72.64	113.99
20	0.436	0.012	-19.15	43.51	49.12	113.95	54.97	112.97
25	0.225	0.003	-24.89	22.45	39.75	110.04	44.48	109.06
30	0.043	0.000	-39.27	4.29	33.60	97.12	37.60	96.15
35	0.094	0.001	-32.48	9.38	29.29	105.11	32.78	104.13
40	0.180	0.002	-26.83	17.96	26.14	111.74	29.25	110.77
45	0.218	0.003	-25.17	21.75	23.76	114.23	26.59	113.26
50	0.217	0.003	-25.21	21.65	21.93	114.89	24.54	113.91
55	0.191	0.002	-26.32	19.06	20.51	114.36	22.95	113.39
60	0.152	0.001	-28.30	15.17	19.40	112.86	21.71	111.89
65	0.110	0.001	-31.11	10.98	18.54	110.45	20.74	109.47
70	0.072	0.000	-34.79	7.18	17.88	107.08	20.01	106.11
75	0.043	0.000	-39.27	4.29	17.39	102.84	19.46	101.87
80	0.023	0.000	-44.70	2.30	17.06	97.58	19.09	96.60
85	0.010	0.000	-51.94	1.00	16.86	90.44	18.87	89.47
90	0.001	0.000	-71.94	0.10	16.80	70.48	18.80	69.50

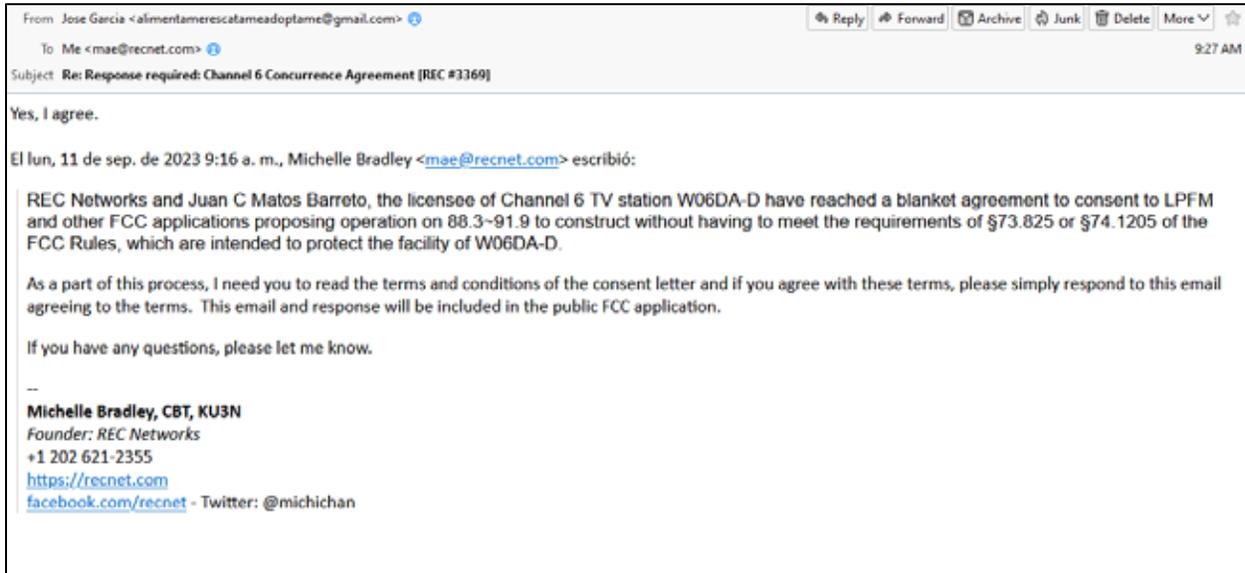
TV CHANNEL 6 PROTECTION \$73.825

New(LP)
Quebradillas, Puerto Rico
Channel 207LP100 (89.3 MHz)

The proposed facility does not meet the \$73.825 required minimum distance separation in respect to Low Power TV (LPTV) station W06DA-D, Augada, Puerto Rico.

To address this shortcoming, REC Networks ("REC") has reached an agreement with Juan C. Matos Barreto, licensee of W06DA-D in which blanket consent has been given to REC handled LPFM, FM Translator and FM Booster applications which propose operations on Channels 203 through 220.

A copy of this blanket consent letter is included as a separate PDF file in this application package. The following is an email response from the applicant, also consenting to the terms of the blanket agreement:



EDUCATIONAL STATEMENT

New(LP)
Quebradillas, Puerto Rico
Channel 207LP100 (89.3 MHz)

Alimentame Rescatame Adoptame Corp. ("ARAC") is a Puerto Rico nonprofit organization established March 12, 2019.

In Puerto Rico, it is estimated that there are over 200 thousand abandoned animals on the island.

ARAC has been rescuing and feeding abandoned animals, promoting animal adoption and providing instruction on animal care through radio programs and through social media. ARAC works with independent animal rescues and with their support has been able to send between 15 and 20 puppies to the United States mainland where they have been adopted and are living happy lives as well as providing resources supporting animal adoptions in Puerto Rico.

The radio station will advance ARAC's educational objectives by expanding the social media presence to the radio, which reaches many, especially those who may not be already aware of ARAC's programs nor who have easy access to social media. Programming on the station will educate the public on how to take care of their pets, including interviews with veterinarians and animal rescues, information on lost pets, raising awareness of animal abuse and providing information on animals available for adoption. The radio station will help ARAC's mission through being a voice for the pets through public awareness of animal welfare issues.

Other programming will include:

FRIENDS OF THE COMMUNITY – A program made up of volunteers where we will discuss current situations in the local community of those who may need assistance, such as the sick and the elderly. The program will also educate the community on various resources that are available and how to utilize those resources should the need arise.

In addition to the educational programming, the station will also feature local community information, local news, religious music, public service programs and provide the opportunity for the general public to call in or visit our studio to discuss community issues. The station will give the community a local voice that is responsive to their needs and will allow ARAC to reach people who are homebound and might otherwise remain isolated in the community.

EVIDENCE OF CURRENT CORPORATION STATUS

New(LP)
Quebradillas, Puerto Rico
Channel 207LP100 (89.3 MHz)



Government of Puerto Rico
Department of State

CORPORATIONS AND ENTITIES ▾

CORPORATION INFORMATION

Corporation Information

ALIMENTAME RESCATAME ADOPTAME CORP.

[Details](#)

[Articles](#)

[Annual Filings](#)

[Certificates](#)

General Information

Name	ALIMENTAME RESCATAME ADOPTAME CORP.
Register No.	424163
Status	ACTIVE
Class	Corporation
Type	Non-Profit
Jurisdiction	Domestic
Formation Date	12-Mar-2019 08:43 AM
Effective Date	12-Mar-2019 08:43 AM
Expiration Date	Does not expire
Category	Economic, Social and Community Development
Organization Form	Community Based Organization

LPFM POINT FACTORS

New(LP)
Quebradillas, Puerto Rico
Channel 207LP100 (89.3 MHz)

County of transmitting antenna	Market Name	Market Rank
Quebradillas, Puerto Rico	Puerto Rico	16

The proposed facility will claim 5 points as set forth:

Established Community Presence – 1 point

The organization's headquarters and at least 75% of the board members have been established within 10 miles of the proposed transmitting site since March 19, 2019.

Local Programming – 1 point

Applicant pledges to originate at least 8 hours of local programming, pursuant to Commission policies regarding the LPFM point system, pursuant to §73.872(b)(2).

Main Studio – 1 point

Applicant pledges to make available an accessible main studio, capable of program origination for a Applicant of 20 hours per week. Applicant claims the Main Studio point, pursuant to §73.872(b)(3).

Local Programming and Main Studio – 1 point

As both the Local Programming and Main Studio points are being claimed, the additional Local Programming and Main Studio "bonus" point is also claimed, pursuant to §73.872(b)(4).

Diversity of Ownership – 1 point

Applicant has no other attributable interests and therefore is eligible to claim the Diversity of Ownership point, pursuant to §73.872(b)(5) and Page 5 of the Second Window Notice.

Prepared by,

/S/
Michelle Bradley, CBT
REC Networks

November 1, 2023