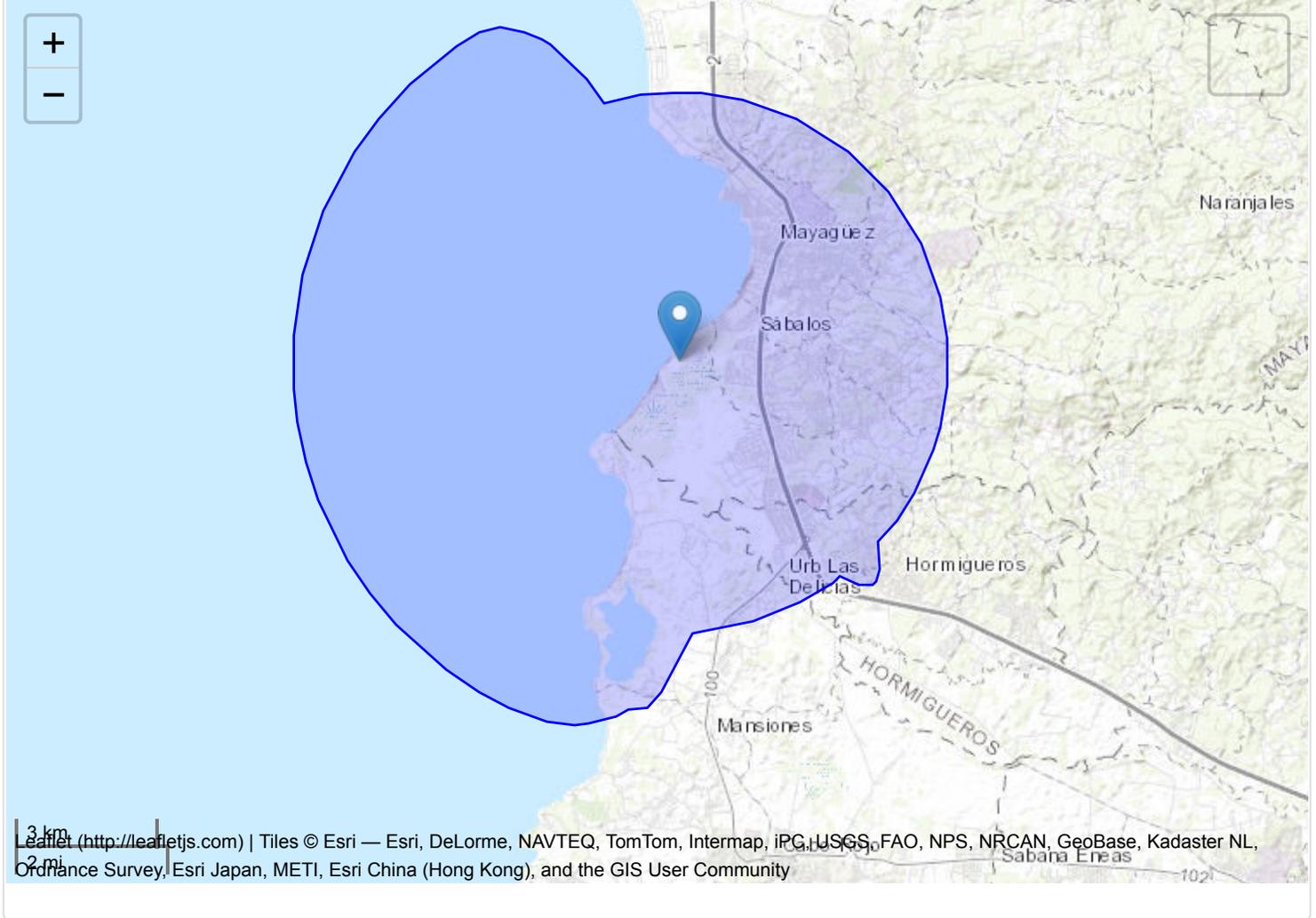


LPFM-38
100W@11m HAAT 60m AGL

Mayagüez, PR, US
1m elevation
NAD83: 18 10 52.84 N,
67 10 2.65 W

60 dBμ f(50,50)



Version 2.0pre2 , CDBS Version 2018-06-28 04:00:00

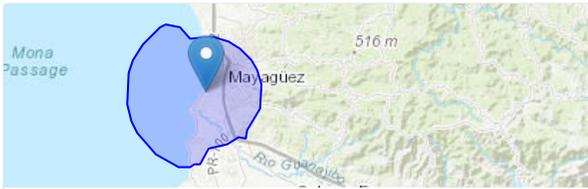


RCR BROADCAST CONSULTANT
& COMMUNICATION SERVICE

TECHNICAL NARRATIVE

WGZA-LP MAYAGUEZ PUERTO RICO REQUESTS A CHANGE OF SITE FOR THE OLD FACILITIES OF WTIL-AM (ASR: 1013203) IN THE TOWER TO 60 METERS OF HEIGHT, IT IS REQUIRED TO ELIMINATE CP # BPL-20180111AEF BY GRANTING THIS NEW CONSTRUCTION PERMIT FOR THE STATION WGZA-LP. LA QUALIFYING STATION ACCORDING TO THE ATTACHMENTS FOR AN ERP OF 0.1KW WITH A HAAT OF 11 METERS, DOES NOT HAVE ADJACENT SECONDS OR ANOTHER TYPE OF PROTECTION, ALSO SEND LETTER FROM THE OBSERVATORY OF ARECIBO. WGZA DOES NOT REQUIRE ANY OTHER PROTECTION RECALLING THAT THE TOWER IS EXISTING.

Ricardo Cruz Rios
Broadcast technical consultant
787-667-4283
rcr.broadcasts.app.status@gmail.com



LPFM-38
100W@11m HAAT 60m AGL

Mayagüez, PR, US
1m elevation
NAD83: 18 10 52.84 N,
67 10 2.65 W

Site Elevation, Antenna Height

All heights in meters

	AMSL	AGL	HAAT	
Antenna height	<input type="text" value="61.0"/>	<input type="text" value="60"/>	<input type="text" value="11"/>	
30-meters HAAT	<input type="text" value="80.1"/>	<input type="text" value="79.1"/>	<input type="text" value="30"/>	
Ground level elevation	<input type="text" value="1"/>	<input type="text" value="0"/>	<input type="text" value="-49.1"/>	

	Min	Max	
Permitted Power (ERP) (watts)	<input type="text" value="50"/>	<input type="text" value="100"/>	

Percent of maximum power % (LPFM generally allowed between 50% and 100%)
If your waiver depends on a reduced power you choose here, be sure to clearly state that in your engineering exhibit.

Effective Radiated Power ("ERP") watts

FMpower Results

NOTE: [47 CFR 73.313\(e\)](#) requires that, for an Antenna Height Above Average Terrain [HAAT] of less than 30 meters, the HAAT must be set to 30 meters for calculations. Calculations will continue with a HAAT of 30 meters.

'100 watt' LPFM facilities for equivalency determination:

Reference ERP = 0.100 kW ERP

Reference HAAT = 30 meters HAAT

F(50,50) 60 dBu protected contour at 5.6 km distance

Equivalent ERP = 0.100 kilowatts (kW)
(rounded per [47 CFR 73.212](#))

Unrounded ERP = 0.099 kW for 11 meters HAAT

Low Power FM (LPFM) stations are authorized throughout the United States.

[New Calculation?](#)

Alternate Format

18 11 0 N	61 m RCAMSL		Mayagüez PR	LPFM-38
67 10 4 W	0.1 kW	CH 215	L1	11 m HAAT

Call	Type	Ch	Location	Azi	Dist	FCC	Margin	FM-Over In dB	FM-Over Out dB	
WLYM-LP	CP	215L1	Mayaguez	PR	4	10.05	24.5	-14*	24.0*	24.3*
WLYM-LP	LIC	215L1	Mayaguez	PR	19	5.04	24.5	-19*	20.0*	
WIPR-FM	APP	217B	San Juan	PR	77	119.66	93.5	26.7	-79.7	-86.2
WIPR-FM	LIC	217B	San Juan	PR	94	118.40	93.5	25.4	-36.9	-60.3
LPFM-41		215L1	Añasco	PR	4	10.05	24.5	-14*	33.2*	60.5*
Wifredo G. Blanco-Pi	APP	268D	Ponce	PR	110	61.85	5.5	56.9	-140.7	-126.6
W06DA-D	CP MOD	6L	Aguada	PR		19.86	90.5	-70.1*		
W268BK	LIC	268D	San Juan	PR	84	112.42	5.5	107.4	-146.0	-135.0
Rafael Porrás	APP	6L	San Juan	PR		139.52	90.5	49.5		
WIDA-FM	LIC	213B	Carolina	PR	94	118.33	92.5	26.3	-59.7	-78.7
Mako Communications LLC	APP	6L	San Juan	PR		106.73	90.5	16.7		
WSKX	LIC	214B1	Christiansted VI	VI	100	268.21	82.5	186.2	-42.6	-60.9
WLYM-LP	APP	215L1	Mayaguez	PR	186	0.03	24.5	-24*	20.0*	

** FM-Over dB: 0 means contours touch, positive means overlap

ARECIBO OBSERVATORY

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



March 22, 2018

Mr. Eng. Ricardo Cruz Ríos
Broadcast Engineering Consultant
superq98@gmail.com

Re: Feeding Homeless Corp
WGZA-LP in Mayagüez PR

Dear Eng. Ricardo Cruz Rios:

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 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 #00180030064]