

CHANNEL 256 LPFM WAIVER.

SECOND ADJACENT CHANNELS UNDER STUDY :

WUKQ FM , MAYAGUEZ PUERTO RICO OPERATES ON CHANNEL 254B WITH AN ERP POWER OF 25KW , HAAT 730.5 METERS AND A FIELD STRENGTH OF 93.668DBU AT PROPOSED SITE , WITH AN ESTIMATED OVERLAP OF 15 METERS AT RADIATING CENTER OF THE ANTENNA , 12 METERS AT GROUND LEVEL. DISTANCE FROM WUKQ AND PROPOSED LPFM SITE IS 15 KM.

WIDI FM , QUEBRADILLAS PUERTO RICO OPERATES ON CHANNEL 258B, DISTANCE OF 17.1 KM FROM PROPOSED SITE , ERP 22.4 KW , 754.5 HAAT AND 92.932 DBU SIGNAL STRENGTH. WITH ESTIMATED OVERLAP AT PROPOSED ANTENNA RADIATION CENTER OF 16 M AND AT GROUND LEVEL 13 M.

THIS SITE IS SHORT SPACE TO BOTH RADIO STATIONS IN MAYAGUEZ., CREATING A PROHIBITED OVERLAP WITHIN 133.668 DBU (50,10) WITH WUKQ FM AND 132.932 (50,10) WITH WIDI FM ON CHANNEL 254B. THE ESTIMATED OVERLAP IS AROUND 16 M FOR BOTH STATIONS .

THE PROPOSED SITE IS CLEAR OF STATIONS OPERATING ON THIRD ADJACENT CHANNELS , TV CHANNEL 6 IS NOT A FACTOR FOR LPFM STATIONS OPERATING BETWEEN CHANNELS 221 AND 300 (92.1---107.9).

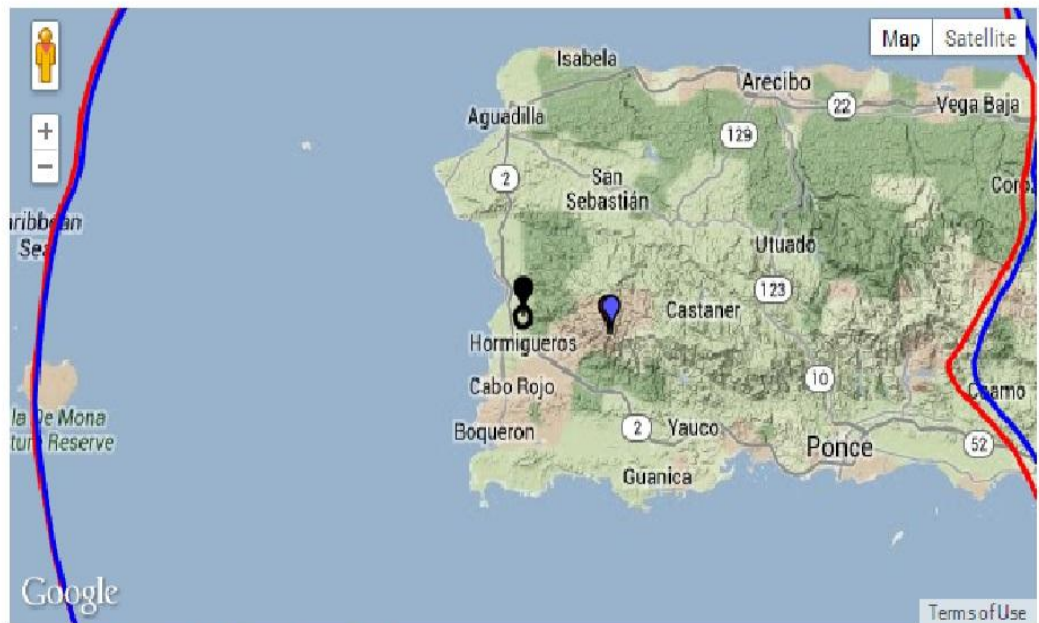
IT IS SUBMITTED THAT THE PROPOSED CHANNEL 256 LPFM WILL NOT CREATE ANY INTERFERENCE TO ANY LISTENERS OR POTENTIAL LISTENERS OF SECOND ADJACENT CHANNELS STATIONS WUKQ FM AND WIDI FM.

THERE ARE NO HOUSING , NO BUSINESS , NO HIGHWAYS . THE OVERLAP ZONE DOES NOT REACH ANY POTENTIAL LISTENERS IN ADJOINING HOMES OR FOUR LANE HIGHWAYS.

LPFM Channel Report - channel 256

[illegible]





Second adjacent stations impacted								
Call Sign	Community	Chan Class	Dist	ERP	Effective HAAT	Field Strength	Est. Overlap	
							Radiation Center	@Ground Level
WUKQ-FM	MAYAGUEZ PR	254B	15.0	25	691.1	93.668 dBu	15 m	12 m
WIDI	QUEBRADILLAS PR	258B	15.5	22.4	713.8	92.932 dBu	16 m	13 m

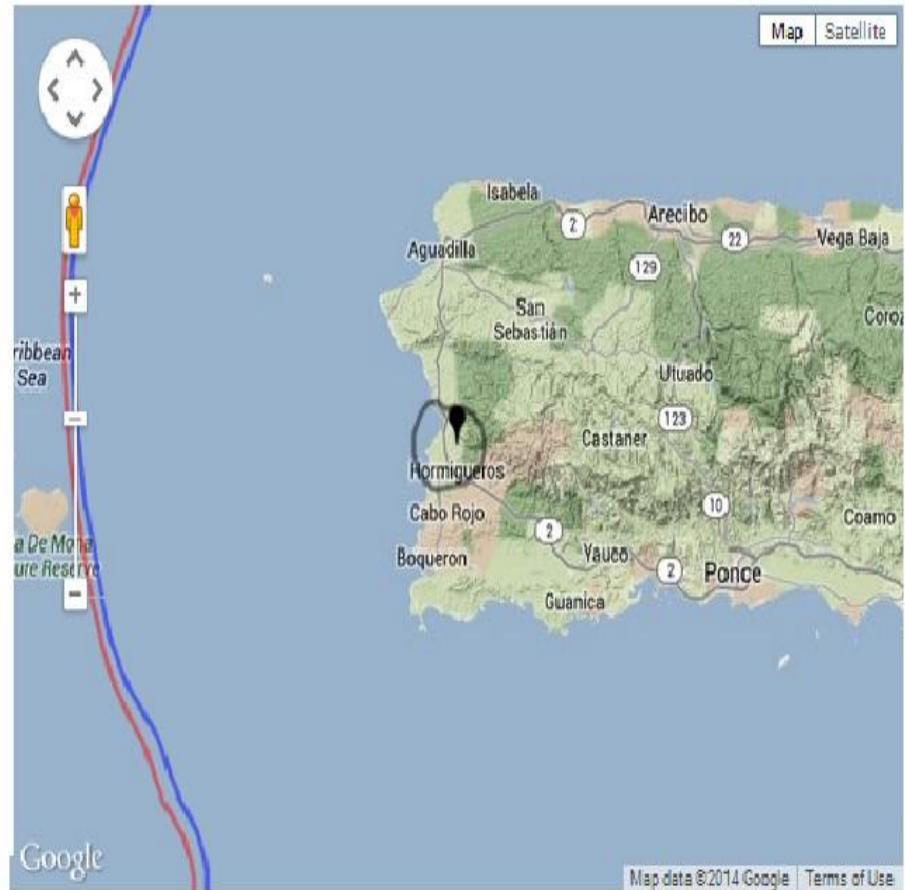
Map of Mayaguez, Puerto Rico, showing the location of the 'site' marked with a red pin. The map includes geographical features like Bahía de Mayaguez, Bahía Brumadero, and Bahía Agüada, as well as roads and landmarks like Mayaguez Zoo and Mayaguez Hormigueros. A red box highlights the coordinates: NL 18-10-32.5, WL 67-7-39.8.

Effective Radiated Power (ERP): 0.1 kW

Estimated HAAT & contour size in each direction

Azi	HAAT	km	Azi	HAAT	km	Azi	HAAT	km	Azi	HAAT	km
0	-0.7	5.65	90	-237.9	5.65	180	22.6	5.65	270	64.6	8.32
10	-4.5	5.65	100	-309.6	5.65	190	33.5	5.91	280	64.5	8.31
20	-64.6	5.65	110	-145.4	5.65	200	40.0	6.44	290	64.7	8.33
30	-81.8	5.65	120	-78.6	5.65	210	48.4	7.12	300	64.8	8.34
40	-60.0	5.65	130	-18.5	5.65	220	55.6	7.66	310	64.5	8.31
50	-149.0	5.65	140	4.3	5.65	230	50.4	8.00	320	62.8	8.19
60	-184.8	5.65	150	8.2	5.65	240	53.1	8.21	330	53.5	7.60
70	-221.4	5.65	160	-0.1	5.65	250	53.9	8.27	340	24.2	5.65
80	-274.9	5.65	170	13.1	5.65	260	64.5	8.31	350	24.7	5.65

Interference Report - channel 256



Call Sign	Community	Chan Class	Dist	Min Req'd	ERP	Effective HAAT	Max Interf. Contour	Est. Field Strength
WPRM-FM	SAN JUAN PR	256B	114.1	112	25	489.5	34	51.628
WPRM-FM	SAN JUAN PR	256B	114.1	112	25	489.5	34	50.932

DETERMINATION Results

Structure does not require registration. There are no airports within 8 kilometers (5 miles) of the coordinates you provided.

Your Specifications

NAD83 Coordinates

Latitude 18-10-32.5 north

Longitude 067-07-39.8 west

Measurements (Meters)

Overall Structure Height (AGL) 10

Support Structure Height (AGL) 10

Site Elevation (AMSL) 56

Structure Type

POLE - Any type of Pole