

# INTERFERENCE ANALYSIS FOR PROPOSED W06DA-D, AGUADA, PR (CHANNEL 6, 3 kW-ND, 937 M AMSL)

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: w06da011 #5193, Model: Longley-Rice

Study build station data: LMS TV 2021-12-22

Proposal: W06DA011 D6 LD APP AGUADA, PR  
File number: w06da011  
Facility ID: 188724  
Station data: User record  
Record ID: 4354  
Country: U.S.

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	W05DA-D	D5	LD	LIC	FAJARDO, PR	BLDVL20140530AND	115.3 km
Yes	W05CY-D	D5	LD	LIC	MAYAGUEZ, PR	BLDVL20150205AAD	25.7
No	W05DB-D	D5	LD	LIC	PONCE, PR	BLDVL20140530ANF	32.2
No	NEW	D5	LD	CP	SAN JUAN, PR	BNPDVL20090825AVT	63.3
No	WFIG-LD	D5	LD	LIC	CHARLOTTE AMALIE, VI	BLANK0000068282	195.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D6  
Mask: Full Service  
Latitude: 18 13 56.50 N (NAD83)  
Longitude: 66 45 42.00 W  
Height AMSL: 937.0 m  
HAAT: 446.0 m  
Peak ERP: 3.00 kW  
Antenna: Omnidirectional  
Elev Pattnr: Generic

43.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	3.00 kW	575.5 m	82.8 km
45.0	3.00	733.4	87.4
90.0	3.00	559.7	82.2
135.0	3.00	260.9	64.4
180.0	3.00	164.2	57.1
225.0	3.00	239.8	62.9
270.0	3.00	501.5	79.3
315.0	3.00	530.0	80.8

Distance to Canadian border: 2950.4 km

Distance to Mexican border: 3214.7 km

Conditions at FCC monitoring station: Santa Isabel PR  
Bearing: 121.7 degrees Distance: 48.0 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 311.8 degrees Distance: 4403.5 km

Study cell size: 0.50 km (Higher resolution cell size requested.)  
Profile point spacing: 0.10 km (Higher resolution terrain profile point spacing requested.)

Maximum new IX to full-service and Class A: 0.50%  
Maximum new IX to LPTV: 2.00%

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Interference to BLDVLA20150205AAD LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W05CY-D	D5	LD	LIC	MAYAGUEZ, PR	BLDVLA20150205AAD	
Undesireds:	W06DA011	D6	LD	APP	AGUADA, PR	w06da011	25.7 km
	W05DB-D	D5	LD	LIC	PONCE, PR	BLDVLA20140530ANF	44.0
	NEW	D5	LD	CP	SAN JUAN, PR	BNPDVLA20090825AVT	88.4
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
17050.3	856,984	17035.7		851,484	16846.6	850,419	16784.3 836,437 0.37 1.64
Undesired		Total IX		Unique IX, before		Unique IX, after	
W06DA011	D6 LD APP	67.9		14,040		62.2 13,982	
W05DB-D	D5 LD LIC	179.6		1,065	179.6 1,065	178.6 1,007	
NEW	D5 LD CP	9.6		0	9.6 0	4.9 0	

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Interference to proposal scenario 1

6.42% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W06DA011	D6	LD	APP	AGUADA, PR	w06da011	
Undesireds:	W05CY-D	D5	LD	LIC	MAYAGUEZ, PR	BLDVLA20150205AAD	25.7 km
	W05DB-D	D5	LD	LIC	PONCE, PR	BLDVLA20140530ANF	32.2
	NEW	D5	LD	CP	SAN JUAN, PR	BNPDVLA20090825AVT	63.3
Service area		Terrain-limited		IX-free		Percent IX	
17886.6	3,027,093	17574.7		2,840,268	16432.7	2,657,987	6.50 6.42
Undesired		Total IX		Unique IX		Prct Unique IX	
W05CY-D	D5 LD LIC	966.9		106,268	966.9 106,268	5.50 3.74	
W05DB-D	D5 LD LIC	174.9		75,986	174.9 75,986	1.00 2.68	
NEW	D5 LD CP	0.2		27	0.2 27	0.00 0.00	

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