

W49CZ-D POST REPACK IX TVSTUDY

tvstudy v2.2.5 (4uoc83)

Database: 127.0.0.1, Study: BLANK0000053241 #1447, Model: Longley-Rice

Start: 2018.08.25 10:57:26

Study created: 2018.08.25 10:57:26

Study build station data: LMS TV 2018-08-18

Proposal: W49CZ-D D16 LD APP *P AGUADA, PR

File number: BLANK0000053241

Facility ID: 168241

Station data: LMS TV 2018-08-18

Record ID: 25076ff362bbf2a10162f2e39ee06bb8

Country: U.S.

Search options:

Baseline record excluded if station has CP

All records for new LPTV stations excluded

User records included:

587 W44DW-D D15 LD APP MAYAGUEZ, PR BLANK0000054901

Individual records excluded:

0000054901 W44DW-D D15 LD APP *P MAYAGUEZ, PR BLANK0000054901

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WMTJ	D15	DT	CP	FAJARDO, PR	BLANK0000028080	145.1 km
Yes	W44DW-D	D15	LD	APP	MAYAGUEZ, PR	BLANK0000054901	2.5
No	WUSP-LD	D15	LD	CP	PONCE, PR	BLANK0000052581	67.8
Yes	WRUA	D16	DT	CP	FAJARDO, PR	BLANK0000025646	145.1
Yes	W16CW-D	D16	LD	LIC	VILLALBA, PR	BLDTL20140916ACI	67.8
No	WVEO	D17	DT	LIC	AGUADILLA, PR	BLCDT20071116ACV	1.2
No	W32DV-D	D17	LD	CP	ARROYO, PR	BLANK0000053616	118.2
No	W17DL-D	D17	LD	CP	TOA BAJA, PR	BLANK0000036597	111.9
No	W17DL-D	D17	LD	LIC	TOA BAJA, PR	BLDTL20140404AAW	112.1
No	WPRU-LP	N20z	TX	LIC	AQUADILLA, PR	BLTTL20101020ABE	9.2
No	WSJX-LP	N24z	TX	LIC	AQUADILLA, PR	BLTTL20050407AAH	9.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D16
Mask: Full Service
Latitude: 18 19 23.80 N (NAD83)
Longitude: 67 10 11.60 W
Height AMSL: 363.0 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: PSI-PSILP8BC (ID 1003167) 180.0 deg
Elev Pattn: Generic
Elec Tilt: 1.50

48.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	1.26 kW	351.5 m	47.2 km
45.0	0.726	250.2	39.2
90.0	0.542	221.3	36.2
135.0	5.05	255.8	49.7
180.0	15.0	361.4	61.2
225.0	5.05	358.7	55.2
270.0	0.542	331.4	41.4
315.0	0.726	341.2	43.5

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 309 m

Distance to Canadian border: 2939.9 km

Distance to Mexican border: 3170.9 km

Conditions at FCC monitoring station: Santa Isabel PR

Bearing: 112.7 degrees Distance: 91.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 311.9 degrees Distance: 4364.6 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

Study cell size: 0.50 km

Profile point spacing: 0.10 km

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

Maximum new IX to LPTV: 2.00%

Interference to BLANK0000054901 APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W44DW-D	D15	LD	APP	MAYAGUEZ, PR	BLANK0000054901	
Undesireds:	W49CZ-D	D16	LD	APP	AGUADA, PR	BLANK0000053241	2.5 km
	WTIN-TV	D14	DT	CP	PONCE, PR	BLANK0000028558	66.8
	WMTJ	D15	DT	CP	FAJARDO, PR	BLANK0000028080	147.2
	WUSP-LD	D15	LD	CP	PONCE, PR	BLANK0000052581	69.5
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	4330.9	523,565	3904.2	443,133	3498.0	440,619	3492.8 438,688 0.15 0.44
Undesired				Total IX	Unique IX, before	Unique IX, after	
W49CZ-D	D16	LD	APP	5.7	1,938	5.2	1,931
WTIN-TV	D14	DT	CP	86.4	974	48.5	0
WMTJ	D15	DT	CP	284.9	2,370	256.4	1,395
WUSP-LD	D15	LD	CP	77.2	707	61.4	115

Interference to BLANK0000054901 APP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W44DW-D	D15	LD	APP	MAYAGUEZ, PR	BLANK0000054901	
Undesireds:	W49CZ-D	D16	LD	APP	AGUADA, PR	BLANK0000053241	2.5 km
	WTIN-TV	D14	DT	APP	PONCE, PR	BLANK0000034579	66.8
	WMTJ	D15	DT	CP	FAJARDO, PR	BLANK0000028080	147.2
	WUSP-LD	D15	LD	CP	PONCE, PR	BLANK0000052581	69.5
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX

4330.9	523,565	3904.2	443,133	3545.7	440,619	3540.5	438,688	0.15	0.44
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Undesired			Total IX	Unique IX, before	Unique IX, after
W49CZ-D D16 LD APP	5.7	1,938	5.2	1,931	
WTIN-TV D14 DT APP	17.0	974	0.7	0	
WMTJ D15 DT CP	284.9	2,370	273.6	1,402	
WUSP-LD D15 LD CP	77.2	707	66.4	115	

Interference to BLANK0000025646 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WRUA	D16	DT	CP	FAJARDO, PR	BLANK0000025646	
Undesireds:	W49CZ-D	D16	LD	APP	AGUADA, PR	BLANK0000053241	145.1 km
	WMTJ	D15	DT	CP	FAJARDO, PR	BLANK0000028080	0.1
	WQQZ-CD	D16	DC	BL	PONCE, PR	DTVBL32142	104.1
	WVEO	D17	DT	LIC	AGUADILLA, PR	BLCDDT20071116ACV	146.0
	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDDT20090623ABB	89.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
27215.0 2,904,896	25846.9 2,639,737	25327.3 2,634,156	25325.3 2,633,916	0.01 0.01

Undesired			Total IX	Unique IX, before	Unique IX, after
W49CZ-D D16 LD APP	2.5	240	2.0	240	
WMTJ D15 DT CP	23.4	5,573	13.1	5,573	
WQQZ-CD D16 DC BL	505.0	0	494.7	0	
WVEO D17 DT LIC	0.7	0	0.7	0	
WVXF D17 DT LIC	0.7	8	0.7	8	

Interference to BLDTL20140916ACI LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W16CW-D	D16	LD	LIC	VILLALBA, PR	BLDTL20140916ACI	
Undesireds:	W49CZ-D	D16	LD	APP	AGUADA, PR	BLANK0000053241	67.8 km
	WRUA	D16	DT	CP	FAJARDO, PR	BLANK0000025646	82.0
	W32DV-D	D17	LD	CP	ARROYO, PR	BLANK0000053616	50.5
	W17DL-D	D17	LD	CP	TOA BAJA, PR	BLANK0000036597	48.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
8525.6 660,592	8260.2 587,700	7517.9 584,468	7514.9 584,198	0.04 0.05

Undesired		Total IX	Unique IX, before	Unique IX, after
W49CZ-D D16 LD APP	4.2	270		3.0 270
WRUA D16 DT CP	738.9	2,490	738.9 2,490	737.6 2,490
W32DV-D D17 LD CP	3.5	742	3.5 742	3.5 742

Interference to proposal scenario 1
4.32% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W49CZ-D	D16	LD	APP	AGUADA, PR	BLANK0000053241	
Undesireds:	W44DW-D	D15	LD	APP	MAYAGUEZ, PR	BLANK0000054901	2.5 km
	WRUA	D16	DT	CP	FAJARDO, PR	BLANK0000025646	145.1
	W16CW-D	D16	LD	LIC	VILLALBA, PR	BLDTL20140916ACI	67.8
	WVEO	D17	DT	LIC	AGUADILLA, PR	BLCDT20071116ACV	1.2
	W17DL-D	D17	LD	CP	TOA BAJA, PR	BLANK0000036597	111.9

Service area	Terrain-limited	IX-free	Percent IX
7008.4 685,439	6405.3 574,811	5684.1 549,989	11.26 4.32

Undesired		Total IX	Unique IX	Prcnt Unique IX
W44DW-D D15 LD APP	0.2	0	0.2 0	0.00 0.00
WRUA D16 DT CP	420.5	18,379	303.5 17,473	4.74 3.04
W16CW-D D16 LD LIC	339.3	939	278.4 780	4.35 0.14
WVEO D17 DT LIC	81.9	6,569	19.9 5,504	0.31 0.96