

tvstudy v2.2.5 (4uoc83)
Database: 127.0.0.1, Study: BLANK0000129958 #1284, Model: Longley-Rice
Start: 2023.07.02 17:45:55

Study created: 2023.07.02 17:45:55

Study build station data: LMS TV 2023-07-01

Proposal: WTPM-LD D28 LD APP, PR
File number: BLANK0000129958
Facility ID: 20271
Station data: User record
Record ID: 771
Country: U.S.

Individual records excluded:
0000129958 WTPM-LD D28 LD LIC MAYAGUEZ-ANASCO, PR BLANK0000129958

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	W27DZ-D	D27	LD	LIC	MAYAGUEZ, PR	BLANK0000190332	12.2 km
Yes	WAPA-TV	D27	DT	LIC	SAN JUAN, PR	BLANK0000191707	121.5
Yes	W28EH-D	D28	LD	LIC	ADJUNTAS, PR	BLD TT20120726ACK	53.2
Yes	WKAQ-TV	D28	DT	LIC	SAN JUAN, PR	BLCDT20110325AAP	121.5
Yes	W28EQ-D	D28+	LD	LIC	UTUADO, PR	BLANK0000024923	48.5
Yes	WORA-TV	D29	DD	LIC	MAYAGUEZ, PR	BLANK0000003621	27.5
No	W29EE-D	D29	LD	LIC	SAN LORENZO, PR	BLD TL20140530ANG	115.1
No	W28EQ-D	N32+	TX	LIC	UTUADO, PR	BLTT19890703IC	48.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D28
Mask: Full Service
Latitude: 18 18 39.90 N (NAD83)
Longitude: 67 11 4.30 W
Height AMSL: 400.0 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: PSILP8BB (ID 1003316) 165.0 deg
Elev Pattern: Generic
Elec Tilt: 1.50

50.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.794 kW	376.7 m	44.0 km
45.0	0.794	302.2	40.6
90.0	5.77	236.8	48.0
135.0	13.8	313.8	56.8
180.0	14.0	399.8	61.1
225.0	11.9	400.0	60.2
270.0	0.864	394.3	45.1
315.0	0.662	372.1	42.7

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 349 m

Distance to Canadian border: 2940.6 km
Distance to Mexican border: 3169.9 km

Conditions at FCC monitoring station: Santa Isabel PR
Bearing: 111.6 degrees Distance: 92.0 km
Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 311.9 degrees Distance: 4364.4 km

Study cell size: 1.00 km
Profile point spacing: 0.05 km

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

Interference to BLANK0000190332 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W27DZ-D	D27	LD	LIC	MAYAGUEZ, PR	BLANK0000190332	
Undesireds:	WTPM-LD	D28	LD	APP	FM TWR15KWPSI8BB165, PR	BLANK0000129958	12.2 km
	WAPA-TV	D27	DT	LIC	SAN JUAN, PR	BLANK0000191707	112.4
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
1503.5	189,323	1465.2	180,035	1426.7	179,819	1404.0 177,644	1.59 1.21
Undesired		Total IX		Unique IX, before		Unique IX, after	
WTPM-LD	D28 LD APP	27.6	2,391			22.6 2,175	
WAPA-TV	D27 DT LIC	38.5	216	38.5	216	33.5 0	

Interference to BLANK0000191707 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WAPA-TV	D27	DT	LIC	SAN JUAN, PR	BLANK0000191707	
Undesireds:	WTPM-LD	D28	LD	APP	FM TWR15KWPSI8BB165, PR	BLANK0000129958	121.5 km
	WIPR-TV	D26	DT	CP	SAN JUAN, PR	BLANK0000213734	0.5
	WKAQ-TV	D28	DT	LIC	SAN JUAN, PR	BLCDT20110325AAP	0.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
47932.4	3,758,510	46921.8	3,434,464	46661.3	3,398,721	46635.7 3,395,053	0.05 0.11
Undesired		Total IX		Unique IX, before		Unique IX, after	
WTPM-LD	D28 LD APP	25.6	3,668			25.6 3,668	
WIPR-TV	D26 DT CP	37.5	2,292	20.7	0	20.7 0	
WKAQ-TV	D28 DT LIC	239.8	35,743	223.0	33,451	223.0 33,451	

Interference to BLANK0000191707 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WAPA-TV	D27	DT	LIC	SAN JUAN, PR	BLANK0000191707	
Undesireds:	WTPM-LD	D28	LD	APP	FM TWR15KWPSI8BB165, PR	BLANK0000129958	121.5 km
	WIPR-TV	D26	DT	BL	SAN JUAN, PR	DTVBL53859	0.4
	WKAQ-TV	D28	DT	LIC	SAN JUAN, PR	BLCDT20110325AAP	0.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
47932.4	3,758,510	46921.8	3,434,464	46672.2	3,398,721	46646.5 3,395,053	0.05 0.11
Undesired		Total IX		Unique IX, before		Unique IX, after	
WTPM-LD	D28 LD APP	25.6	3,668			25.6 3,668	
WIPR-TV	D26 DT BL	31.6	379	9.8	0	9.8 0	
WKAQ-TV	D28 DT LIC	239.8	35,743	218.0	35,364	218.0 35,364	

Interference to BLDTT20120726ACK LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W28EH-D	D28	LD	LIC	ADJUNTAS, PR	BLDTT20120726ACK	
Undesireds:	WTPM-LD	D28	LD	APP	FM TWR15KWPSI8BB165, PR	BLANK0000129958	53.2 km
	WKAQ-TV	D28	DT	LIC	SAN JUAN, PR	BLCDT20110325AAP	69.0
	W28EQ-D	D28+	LD	LIC	UTUADO, PR	BLANK0000024923	12.8
	WORA-TV	D29	DD	LIC	MAYAGUEZ, PR	BLANK0000003621	30.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
1107.9 178,462	1005.3 149,313	998.4 149,019	998.4 149,019	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WTPM-LD D28 LD APP	2.0 0		0.0 0
WKAQ-TV D28 DT LIC	3.9 151	3.9 151	3.0 151
W28EQ-D D28+ LD LIC	1.0 47	1.0 47	1.0 47
WORA-TV D29 DD LIC	2.0 96	2.0 96	1.0 96

Interference to BLCDT20110325AAP LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WKAQ-TV	D28	DT	LIC	SAN JUAN, PR	BLCDT20110325AAP	

Undesireds:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTPM-LD	D28	LD	APP	FM TWR15KWPSI8BB165, PR	BLANK0000129958	121.5 km
	WORA-TV	D29	DD	LIC	MAYAGUEZ, PR	BLANK0000003621	98.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
44912.6 3,696,376	43239.1 3,388,386	42786.6 3,345,404	42504.7 3,330,997	0.66 0.43

Undesired	Total IX	Unique IX, before	Unique IX, after
WTPM-LD D28 LD APP	536.2 31,068		281.9 14,407
WORA-TV D29 DD LIC	452.4 42,982	452.4 42,982	198.1 26,321

Interference to BLANK0000024923 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W28EQ-D	D28+	LD	LIC	UTUADO, PR	BLANK0000024923	

Undesireds:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTPM-LD	D28	LD	APP	FM TWR15KWPSI8BB165, PR	BLANK0000129958	48.5 km

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
467.8 54,577	451.1 49,864	451.1 49,864	446.2 49,609	1.09 0.51

Undesired	Total IX	Unique IX, before	Unique IX, after
WTPM-LD D28 LD APP	4.9 255		4.9 255

Interference to BLANK0000003621 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WORA-TV	D29	DD	LIC	MAYAGUEZ, PR	BLANK0000003621	

Undesireds:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTPM-LD	D28	LD	APP	FM TWR15KWPSI8BB165, PR	BLANK0000129958	27.5 km
	WKAQ-TV	D28	DT	LIC	SAN JUAN, PR	BLCDT20110325AAP	98.9
	WRFB	D30	DT	CP	CAROLINA, PR	BLANK0000203288	95.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
47923.8 3,594,690	47087.7 3,349,455	45962.6 2,785,775	45961.6 2,785,323	0.00 0.02

Undesired	Total IX	Unique IX, before	Unique IX, after
WTPM-LD D28 LD APP	1.0 452		1.0 452
WKAQ-TV D28 DT LIC	306.6 106,529	252.4 80,998	252.4 80,998
WRFB D30 DT CP	872.7 482,682	818.6 457,151	818.6 457,151

Interference to BLANK0000003621 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WORA-TV	D29	DD	LIC	MAYAGUEZ, PR	BLANK0000003621	

Undesireds:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTPM-LD	D28	LD	APP	FM TWR15KWPSI8BB165, PR	BLANK0000129958	27.5 km
	WKAQ-TV	D28	DT	LIC	SAN JUAN, PR	BLCDT20110325AAP	98.9
	WRFB	D30	DT	BL	CAROLINA, PR	DTVBL54443	120.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
47923.8 3,594,690	47087.7 3,349,455	46760.5 3,226,434	46759.5 3,225,982	0.00 0.01

Undesired	Total IX	Unique IX, before	Unique IX, after
WTPM-LD D28 LD APP	1.0 452	1.0 452	
WKAQ-TV D28 DT LIC	306.6 106,529	279.0 97,490	279.0 97,490
WRFB D30 DT BL	48.3 25,531	20.7 16,492	20.7 16,492

Interference to proposal scenario 1
4.14% interference received

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: WTPM-LD	D28	LD	APP	FM TWR15KWPSI8BB165, PR	BLANK0000129958	
Undesireds: W27DZ-D	D27	LD	LIC	MAYAGUEZ, PR	BLANK0000190332	12.2 km
WAPA-TV	D27	DT	LIC	SAN JUAN, PR	BLANK0000191707	121.5
W28EH-D	D28	LD	LIC	ADJUNTAS, PR	BLDTT20120726ACK	53.2
WKAQ-TV	D28	DT	LIC	SAN JUAN, PR	BLCDT20110325AAP	121.5
WORA-TV	D29	DD	LIC	MAYAGUEZ, PR	BLANK0000003621	27.5

Service area	Terrain-limited	IX-free	Percent IX
8041.3 774,985	7247.2 623,598	5203.0 597,757	28.21 4.14

Undesired	Total IX	Unique IX	Prcnt Unique IX
W27DZ-D D27 LD LIC	2.0 0	0.0 0	0.00 0.00
WAPA-TV D27 DT LIC	18.8 983	0.0 0	0.00 0.00
W28EH-D D28 LD LIC	2.0 228	0.0 0	0.00 0.00
WKAQ-TV D28 DT LIC	1224.6 15,598	569.5 7,616	7.86 1.22
WORA-TV D29 DD LIC	1473.6 17,997	818.5 10,243	11.29 1.64