

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: W27DZ-D ANT CHG INC, Model: Longley-Rice
Start: 2022.04.21 09:01:47

Study created: 2022.04.21 09:01:47

Study build station data: LMS TV 2022-04-20

Proposal: W27DZ-D D27 LD APP MAYAGUEZ, PR
File number: BLANK0000068271W27DZ-D ANT CHG
Facility ID: 125245
Station data: User record
Record ID: 837
Country: U.S.

Build options:
Protect pre-transition records not on baseline channel

Search options:
Non-U.S. records included
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	WIPR-TV	D26	DT	CP	SAN JUAN, PR	BLANK0000034681	112.6 km
Yes	WAPA-TV	D27	DT	CP	SAN JUAN, PR	BLANK0000055015	112.4
Yes	WAPA-TV	D27	DT	LIC	SAN JUAN, PR	BLCDDT20060621ACQ	112.6
No	W28EH-D	D28	LD	LIC	ADJUNTAS, PR	BLDDTT20120726ACK	43.4
Yes	WTPM-LD	D28	LD	LIC	MAYAGUEZ-ANASCO, PR	BLANK0000129958	16.0
Yes	WKAQ-TV	D28	DT	LIC	SAN JUAN, PR	BLCDDT20110325AAP	112.4
No	W28EQ-D	D28+	LD	LIC	UTUADO, PR	BLANK0000024923	41.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D27
Mask: Stringent
Latitude: 18 13 39.10 N (NAD83)
Longitude: 67 6 35.20 W
Height AMSL: 259.1 m
HAAT: 0.0 m
Peak ERP: 1.00 kW
Antenna: KAT 2x1 750 10210 260.0 deg
Elev Pattn: Generic
Elec Tilt: 1.70

50.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.006 kW	179.5 m	11.8 km
45.0	0.002	150.7	8.0
90.0	0.007	-72.4	5.1
135.0	0.005	8.9	4.8
180.0	0.005	191.9	11.7
225.0	0.391	255.1	34.9
270.0	0.929	247.6	39.1
315.0	0.104	205.7	25.6

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 146 m

Distance to Canadian border: 2951.0 km

Distance to Mexican border: 3180.6 km

Conditions at FCC monitoring station: Santa Isabel PR
Bearing: 107.5 degrees Distance: 81.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 311.9 degrees Distance: 4376.5 km

Study cell size: 1.00 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 BLANK0000034681 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WIPR-TV	D26	DT	CP	SAN JUAN, PR	BLANK0000034681	
Undesireds:	W27DZ-D	D27	LD	APP	MAYAGUEZ, PR	BLANK0000068271W27DZ-D	112.6 km
	WQHA	D25	DT	APP	AGUADA, PR	BLANK0000187601	57.5
	WAPA-TV	D27	DT	CP	SAN JUAN, PR	BLANK0000055015	0.4
Service area	49529.4	3,747,978	Terrain-limited	48525.7	3,427,912	IX-free, before	48360.3 3,401,972
						IX-free, after	48359.3 3,401,972
						Percent New IX	0.00 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
W27DZ-D D27 LD APP		1.0		0		1.0	0
WQHA D25 DT APP		149.7		23,405	149.7	23,405	
WAPA-TV D27 DT CP		15.8		2,535	15.8	2,535	

Interference to BLANK0000034681 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WIPR-TV	D26	DT	CP	SAN JUAN, PR	BLANK0000034681	
Undesireds:	W27DZ-D	D27	LD	APP	MAYAGUEZ, PR	BLANK0000068271W27DZ-D	112.6 km
	WQHA	D25	DT	LIC	AGUADA, PR	BLANK0000145869	76.3
	WAPA-TV	D27	DT	CP	SAN JUAN, PR	BLANK0000055015	0.4
Service area	49529.4	3,747,978	Terrain-limited	48525.7	3,427,912	IX-free, before	48451.8 3,413,157
						IX-free, after	48450.8 3,413,157
						Percent New IX	0.00 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
W27DZ-D D27 LD APP		1.0		0		1.0	0
WQHA D25 DT LIC		58.1		12,220	58.1	12,220	
WAPA-TV D27 DT CP		15.8		2,535	15.8	2,535	

Interference to BLANK0000034681 CP scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WIPR-TV	D26	DT	CP	SAN JUAN, PR	BLANK0000034681	
Undesireds:	W27DZ-D	D27	LD	APP	MAYAGUEZ, PR	BLANK0000068271W27DZ-D	112.6 km
	WQHA	D25	DT	APP	AGUADA, PR	BLANK0000187601	57.5
Service area	49529.4	3,747,978	Terrain-limited	48525.7	3,427,912	IX-free, before	48376.0 3,404,507
						IX-free, after	48375.0 3,404,507
						Percent New IX	0.00 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
W27DZ-D D27 LD APP		1.0		0		1.0	0
WQHA D25 DT APP		149.7		23,405	149.7	23,405	

Interference to BLANK0000034681 CP scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WIPR-TV	D26	DT	CP	SAN JUAN, PR	BLANK0000034681	
Undesireds:	W27DZ-D	D27	LD	APP	MAYAGUEZ, PR	BLANK0000068271W27DZ-D	112.6 km
	WQHA	D25	DT	LIC	AGUADA, PR	BLANK0000145869	76.3
Service area	49529.4	3,747,978	Terrain-limited	48525.7	3,427,912	IX-free, before	48467.6 3,415,692
						IX-free, after	48466.6 3,415,692
						Percent New IX	0.00 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
W27DZ-D D27 LD APP		1.0		0		1.0	0
WQHA D25 DT LIC		58.1		12,220	58.1	12,220	

Interference to BLANK0000055015 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WAPA-TV	D27	DT	CP	SAN JUAN, PR	BLANK0000055015	
Undesireds:	W27DZ-D	D27	LD	APP	MAYAGUEZ, PR	BLANK0000068271W27DZ-D	112.4 km
	WIPR-TV	D26	DT	CP	SAN JUAN, PR	BLANK0000034681	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	46895.2	3,428,641	46612.1	3,388,873	46591.4 3,387,241	0.04 0.05
Undesired				Total IX	Unique IX, before	Unique IX, after	
W27DZ-D D27 LD APP				20.7 1,632		20.7 1,632	
WIPR-TV D26 DT CP				140.0 13,962	56.2 5,959	56.2 5,959	
WKAQ-TV D28 DT LIC				226.9 33,809	143.1 25,806	143.1 25,806	

Interference to BLCDT20060621ACQ LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WAPA-TV	D27	DT	LIC	SAN JUAN, PR	BLCDT20060621ACQ	
Undesireds:	W27DZ-D	D27	LD	APP	MAYAGUEZ, PR	BLANK0000068271W27DZ-D	112.6 km
	WIPR-TV	D26	DT	CP	SAN JUAN, PR	BLANK0000034681	0.0
	WKAQ-TV	D28	DT	LIC	SAN JUAN, PR	BLCDT20110325AAP	0.4
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
54925.8	3,764,414	53839.4	3,453,253	53714.2	3,424,259	53678.7 3,422,736	0.07 0.04
Undesired				Total IX	Unique IX, before	Unique IX, after	
W27DZ-D D27 LD APP				35.5 1,523		35.5 1,523	
WIPR-TV D26 DT CP				21.7 1,278	7.9 0	7.9 0	
WKAQ-TV D28 DT LIC				117.4 28,994	103.6 27,716	103.6 27,716	

Interference to BLANK0000129958 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WTPM-LD	D28	LD	LIC	MAYAGUEZ-ANASCO, PR	BLANK0000129958	
Undesireds:	W27DZ-D	D27	LD	APP	MAYAGUEZ, PR	BLANK0000068271W27DZ-D	16.0 km
	WAPA-TV	D27	DT	CP	SAN JUAN, PR	BLANK0000055015	98.4
	W28EH-D	D28	LD	LIC	ADJUNTAS, PR	BLDTT20120726ACK	29.7
	WKAQ-TV	D28	DT	LIC	SAN JUAN, PR	BLCDT20110325AAP	98.4
	WORA-TV	D29	DD	LIC	MAYAGUEZ, PR	BLANK0000003621	0.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
9722.9	989,785	9065.3	735,149	4926.7	631,923	4921.8 623,793	0.10 1.29
Undesired				Total IX	Unique IX, before	Unique IX, after	
W27DZ-D D27 LD APP				8.9 8,154		4.9 8,130	
WAPA-TV D27 DT CP				5.9 73	0.0 0	0.0 0	
W28EH-D D28 LD LIC				8.9 131	1.0 8	1.0 8	
WKAQ-TV D28 DT LIC				3463.2 14,746	2913.6 2,266	2913.6 2,266	
WORA-TV D29 DD LIC				1220.9 100,952	672.3 88,349	669.4 88,325	

Interference to BLANK0000129958 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WTPM-LD	D28	LD	LIC	MAYAGUEZ-ANASCO, PR	BLANK0000129958	
Undesireds:	W27DZ-D	D27	LD	APP	MAYAGUEZ, PR	BLANK0000068271W27DZ-D	16.0 km
	WAPA-TV	D27	DT	LIC	SAN JUAN, PR	BLCDT20060621ACQ	98.5
	W28EH-D	D28	LD	LIC	ADJUNTAS, PR	BLDTT20120726ACK	29.7
	WKAQ-TV	D28	DT	LIC	SAN JUAN, PR	BLCDT20110325AAP	98.4
	WORA-TV	D29	DD	LIC	MAYAGUEZ, PR	BLANK0000003621	0.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
9722.9	989,785	9065.3	735,149	4926.7	631,923	4921.8 623,793	0.10 1.29
Undesired				Total IX	Unique IX, before	Unique IX, after	
W27DZ-D D27 LD APP				8.9 8,154		4.9 8,130	
WAPA-TV D27 DT LIC				6.9 73	0.0 0	0.0 0	

W28EH-D	D28	LD	LIC	8.9	131	1.0	8	1.0	8
WKAQ-TV	D28	DT	LIC	3463.2	14,746	2913.6	2,266	2913.6	2,266
WORA-TV	D29	DD	LIC	1220.9	100,952	672.3	88,349	669.4	88,325

Interference to BLCDT20110325AAP LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WKAQ-TV	D28	DT	LIC	SAN JUAN, PR	BLCDT20110325AAP	
Undesireds:	W27DZ-D	D27	LD	APP	MAYAGUEZ, PR	BLANK0000068271W27DZ-D	112.4 km
	WAPA-TV	D27	DT	CP	SAN JUAN, PR	BLANK0000055015	0.0
	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	43218.4	3,375,451	42743.3	3,326,206	42743.3 3,326,206	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
W27DZ-D	D27 LD APP	2.0	0	475.1	49,245	0.0 0	
WORA-TV	D29 DD LIC	475.1	49,245	475.1	49,245	473.1 49,245	

Interference to BLCDT20110325AAP LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WKAQ-TV	D28	DT	LIC	SAN JUAN, PR	BLCDT20110325AAP	
Undesireds:	W27DZ-D	D27	LD	APP	MAYAGUEZ, PR	BLANK0000068271W27DZ-D	112.4 km
	WAPA-TV	D27	DT	LIC	SAN JUAN, PR	BLCDT20060621ACQ	0.4
	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	43218.4	3,375,451	42720.6	3,319,538	42720.6 3,319,538	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
W27DZ-D	D27 LD APP	2.0	0	475.1	49,245	0.0 0	
WAPA-TV	D27 DT LIC	22.7	6,668	475.1	49,245	22.7 6,668	
WORA-TV	D29 DD LIC	475.1	49,245	475.1	49,245	473.1 49,245	

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W27DZ-D	D27	LD	APP	MAYAGUEZ, PR	BLANK0000068271W27DZ-D	
Undesireds:	WAPA-TV	D27	DT	CP	SAN JUAN, PR	BLANK0000055015	112.4 km
	WTPM-LD	D28	LD	LIC	MAYAGUEZ-ANASCO, PR	BLANK0000129958	16.0
Service area		Terrain-limited		IX-free		Percent IX	
1503.5	189,323	1466.1	180,122	1405.0	179,962	4.17 0.09	
Undesired		Total IX		Unique IX		Prcnt Unique IX	
WAPA-TV	D27 DT CP	40.4	0	34.5	0	2.35 0.00	
WTPM-LD	D28 LD LIC	26.6	160	20.7	160	1.41 0.09	

Interference to proposal scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W27DZ-D	D27	LD	APP	MAYAGUEZ, PR	BLANK0000068271W27DZ-D	
Undesireds:	WAPA-TV	D27	DT	LIC	SAN JUAN, PR	BLCDT20060621ACQ	112.6 km
	WTPM-LD	D28	LD	LIC	MAYAGUEZ-ANASCO, PR	BLANK0000129958	16.0
Service area		Terrain-limited		IX-free		Percent IX	
1503.5	189,323	1466.1	180,122	1395.2	179,602	4.84 0.29	
Undesired		Total IX		Unique IX		Prcnt Unique IX	
WAPA-TV	D27 DT LIC	50.3	360	44.4	360	3.03 0.20	
WTPM-LD	D28 LD LIC	26.6	160	20.7	160	1.41 0.09	