

tvstudy v2.2.5 (4uoc83)
Database: 127.0.0.1, Study: BLANK0000153238 #993, Model: Longley-Rice
Start: 2022.09.01 13:01:13

Study created: 2022.09.01 13:01:13

Study build station data: LMS TV 2022-07-17

Proposal: W31EJ-D D31 LD APP ST THOMAS WZIN SITE, VI
File number: BLANK0000153238
Facility ID: 181829
Station data: User record
Record ID: 581
Country: U.S.

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	WRFB	D30	DT	CP	CAROLINA, PR	BLANK0000034795	118.9 km
No	W30ED-D	D30	LD	LIC	GUAYAMA, PR	BLANK0000080993	126.5
No	WNTE-LD	D30	LD	CP	MAYAGUEZ, PR	BLANK0000193941	213.6
Yes	W31DV-D	D31	LD	LIC	GUAYAMA, PR	BLANK0000190789	117.9
Yes	WNJX-TV	D31	DT	LIC	MAYAGUEZ, PR	BLANK0000152412	213.6
No	WSJU-LD	D32-	LD	LIC	CEIBA, PR	BLANK0000152502	74.2
No	W32FB-D	D32	LD	LIC	CEIBA, PR	BLANK0000156352	114.8
No	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	213.6

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D31
Mask: Simple
Latitude: 18 21 27.80 N (NAD83)
Longitude: 64 58 17.40 W
Height AMSL: 454.0 m
HAAT: 0.0 m
Peak ERP: 3.00 kW
Antenna: KAT-75010210 (ID 1003083) 110.0 deg
Elev Pattn: Generic

50.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.017 kW	451.3 m	23.8 km
45.0	0.109	454.0	33.8
90.0	2.17	416.0	50.8
135.0	1.88	453.7	51.0
180.0	0.065	454.0	30.8
225.0	0.025	454.0	25.6
270.0	0.008	431.8	19.3
315.0	0.006	454.0	18.4

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 446 m

Distance to Canadian border: 2941.9 km

Distance to Mexican border: 3386.7 km

Conditions at FCC monitoring station: Santa Isabel PR

Bearing: 255.4 degrees Distance: 153.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 310.9 degrees Distance: 4536.2 km

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 BLANK0000034795 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WRFB	D30	DT	CP	CAROLINA, PR	BLANK0000034795	
Undesireds:	W31EJ-D	D31	LD	APP	ST THOMAS WZIN SITE, VI	BLANK00000153238	118.9 km
	WORA-TV	D29	DD	LIC	MAYAGUEZ, PR	BLANK0000003621	95.4
	WNJX-TV	D31	DT	LIC	MAYAGUEZ, PR	BLANK00000152412	94.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
21013.8 2,706,681	16889.0 2,435,327	16885.5 2,434,722	16885.3 2,434,722	0.00 0.00
Undesired	Total IX	Unique IX, before	Unique IX, after	
W31EJ-D D31 LD APP	0.2 0		0.2 0	
WORA-TV D29 DD LIC	2.2 12	0.2 12	0.2 12	
WNJX-TV D31 DT LIC	3.2 593	1.2 593	1.2 593	

Interference to BLANK0000190789 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W31DV-D	D31	LD	LIC	GUAYAMA, PR	BLANK0000190789	
Undesireds:	W31EJ-D	D31	LD	APP	ST THOMAS WZIN SITE, VI	BLANK0000153238	117.9 km
	WRFB	D30	DT	CP	CAROLINA, PR	BLANK0000034795	1.4
	WNJX-TV	D31	DT	LIC	MAYAGUEZ, PR	BLANK0000152412	95.7
	WSJU-LD	D32-	LD	LIC	CEIBA, PR	BLANK0000152502	43.8
	W32FB-D	D32	LD	LIC	CEIBA, PR	BLANK0000156352	3.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
6576.2 2,224,840	5287.1 2,067,482	4777.7 1,938,443	4777.5 1,938,443	0.01 0.00
Undesired	Total IX	Unique IX, before	Unique IX, after	
W31EJ-D D31 LD APP	10.8 0		0.2 0	
WRFB D30 DT CP	145.0 123,247	115.9 119,031	115.9 119,031	
WNJX-TV D31 DT LIC	353.1 5,643	337.6 3,689	336.4 3,689	
WSJU-LD D32- LD LIC	38.9 0	7.4 0	7.1 0	
W32FB-D D32 LD LIC	14.3 4,365	10.1 2,103	10.1 2,103	

Interference to BLANK0000152412 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WNJX-TV	D31	DT	LIC	MAYAGUEZ, PR	BLANK0000152412	
Undesireds:	W31EJ-D	D31	LD	APP	ST THOMAS WZIN SITE, VI	BLANK0000153238	213.6 km
	WRFB	D30	DT	CP	CAROLINA, PR	BLANK0000034795	94.8
	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	0.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
39378.4 1,629,023	38910.2 1,447,351	38899.3 1,441,146	38899.3 1,441,146	0.00 0.00

Undesired			Total IX	Unique IX, before	Unique IX, after	
W31EJ-D D31 LD APP	0.2		38		0.0	0
WRFB D30 DT CP	7.4		5,189	7.4 5,189	7.1	5,151
WIPM-TV D32 DT CP	3.4		1,016	3.4 1,016	3.4	1,016

Interference to BLANK0000152412 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WNJX-TV	D31	DT	LIC	MAYAGUEZ, PR	BLANK0000152412	
Undesireds:	W31EJ-D	D31	LD	APP	ST THOMAS WZIN SITE, VI	BLANK0000153238	213.6 km
	WRFB	D30	DT	CP	CAROLINA, PR	BLANK0000034795	94.8
	WIPM-TV	D32	DT	BL	MAYAGUEZ, PR	DTVBL53863	0.1
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	39378.4 1,629,023		38910.2 1,447,351		38899.8 1,441,580	38899.8 1,441,580	0.00 0.00

Undesired			Total IX	Unique IX, before	Unique IX, after	
W31EJ-D D31 LD APP	0.2		38		0.0	0
WRFB D30 DT CP	7.4		5,189	7.4 5,189	7.1	5,151
WIPM-TV D32 DT BL	3.0		582	3.0 582	3.0	582

Interference to BLANK0000152412 LIC scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WNJX-TV	D31	DT	LIC	MAYAGUEZ, PR	BLANK0000152412	
Undesireds:	W31EJ-D	D31	LD	APP	ST THOMAS WZIN SITE, VI	BLANK0000153238	213.6 km
	WRFB	D30	DT	BL	CAROLINA, PR	DTVBL54443	120.1
	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	0.1
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	39378.4 1,629,023		38910.2 1,447,351		38903.0 1,444,253	38903.0 1,444,253	0.00 0.00

Undesired			Total IX	Unique IX, before	Unique IX, after	
W31EJ-D D31 LD APP	0.2		38		0.0	0
WRFB D30 DT BL	3.7		2,082	3.7 2,082	3.4	2,044
WIPM-TV D32 DT CP	3.4		1,016	3.4 1,016	3.4	1,016

Interference to BLANK0000152412 LIC scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WNJX-TV	D31	DT	LIC	MAYAGUEZ, PR	BLANK0000152412			
Undesireds:	W31EJ-D	D31	LD	APP	ST THOMAS WZIN SITE, VI	BLANK0000153238	213.6 km		
	WRFB	D30	DT	BL	CAROLINA, PR	DTVBL54443	120.1		
	WIPM-TV	D32	DT	BL	MAYAGUEZ, PR	DTVBL53863	0.1		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
39378.4	1,629,023	38910.2	1,447,351	38903.5	1,444,687	38903.5	1,444,687	0.00	0.00
Undesired				Total IX		Unique IX, before		Unique IX, after	
W31EJ-D	D31	LD	APP	0.2	38	0.0	0		
WRFB	D30	DT	BL	3.7	2,082	3.4	2,044		
WIPM-TV	D32	DT	BL	3.0	582	3.0	582		

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W31EJ-D	D31	LD	APP	ST THOMAS WZIN SITE, VI	BLANK0000153238	
	Service area		Terrain-limited		IX-free		Percent IX
	3588.5	55,804	3430.8	55,765	3430.8	55,765	0.00 0.00