

tvstudy v2.2.5 (4uoc83)
Database: 127.0.0.1, Study: BLANK0000053904, Model: Longley-Rice
Start: 2021.06.30 22:31:30

Study created: 2021.06.30 22:31:30

Study build station data: LMS TV 2021-06-27

Proposal: W33DD-D D31 LD CP TUTU, ST THOMAS, VI
File number: BLANK0000053904
Facility ID: 181829
Station data: User record
Record ID: 361
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	125.1 km
No	W30ED-D	D30	LD	LIC	GUAYAMA, PR	BLANK0000080993	131.8
No	WNTE-LD	D30	LD	CP	MAYAGUEZ, PR	BLANK0000053300	219.7
No	W31DV-D	D31	LD	LIC	GUAYAMA, PR	BLANK0000007268	131.8
Yes	W31DV-D	D31	LD	CP	GUAYAMA, PR	BLANK0000059669	124.1
Yes	WNJX-TV	D31	DT	CP	MAYAGUEZ, PR	BLANK0000029719	219.7
No	W32DV-D	D32	LD	LIC	ARROYO, PR	BLANK0000010684	131.8
No	W23EM-D	D32	LD	CP	CEIBA, PR	BLANK0000073718	117.7
No	WSJU-LP	D32-	LD	CP	CEIBA, PR	BLANK0000143668	80.3
No	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	219.7
No	W32FQ-D	D32	LD	CP	CHRISTIANSTED, VI	BLANK0000112364	65.1

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 19 47.70 N (NAD83)
Longitude: 64 54 38.20 W
Height AMSL: 312.0 m
HAAT: 0.0 m
Peak ERP: 0.720 kW

Antenna: KAT-75010210 300.0 deg
Elev Pattn: Generic

50.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.046 kW	302.0 m	25.0 km
45.0	0.005	306.5	14.5
90.0	0.000	249.9	7.5
135.0	0.003	312.0	13.2
180.0	0.004	312.0	14.1
225.0	0.008	312.0	16.6
270.0	0.361	309.1	36.2
315.0	0.600	269.3	37.3

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 297 m

Distance to Canadian border: 2945.4 km

Distance to Mexican border: 3393.8 km

Conditions at FCC monitoring station: Santa Isabel PR
Bearing: 257.1 degrees Distance: 158.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 310.9 degrees Distance: 4543.1 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:	W33DD-D	D31	LD	CP	TUTU, ST THOMAS, VI	BLANK0000053904	125.1 km
	WORA-TV	D29	DD	LIC	MAYAGUEZ, PR	BLANK0000003621	95.4
	WNJX-TV	D31	DT	CP	MAYAGUEZ, PR	BLANK0000029719	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	16767.6	2,434,569	0.70 0.01

Undesired					Total IX	Unique IX, before	Unique IX, after
W33DD-D D31 LD CP		117.9			153		117.9 153
WORA-TV D29 DD LIC		2.2			12	0.2 12	0.2 12
WNJX-TV D31 DT CP		3.2			593	1.2 593	1.2 593

Interference to BLANK0000034795 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WRFB	D30	DT	CP	CAROLINA, PR	BLANK0000034795	
Undesireds:	W33DD-D	D31	LD	CP	TUTU, ST THOMAS, VI	BLANK0000053904	125.1 km
	WORA-TV	D29	DD	LIC	MAYAGUEZ, PR	BLANK0000003621	95.4
	WNJX-TV	D31	DT	BL	MAYAGUEZ, PR	DTVBL73336	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	16886.3	2,435,315	16768.3	2,435,162	0.70 0.01

Undesired					Total IX	Unique IX, before	Unique IX, after
W33DD-D D31 LD CP		117.9			153		117.9 153
WORA-TV D29 DD LIC		2.2			12	0.0 0	0.0 0
WNJX-TV D31 DT BL		2.7			12	0.5 0	0.5 0

Interference to BLANK0000059669 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W31DV-D	D31	LD	CP	GUAYAMA, PR	BLANK0000059669	
Undesireds:	W33DD-D	D31	LD	CP	TUTU, ST THOMAS, VI	BLANK0000053904	124.1 km
	WRFB	D30	DT	CP	CAROLINA, PR	BLANK0000034795	1.4
	WNJX-TV	D31	DT	CP	MAYAGUEZ, PR	BLANK0000029719	95.7
	W32DV-D	D32	LD	LIC	ARROYO, PR	BLANK0000010684	30.5
	W23EM-D	D32	LD	CP	CEIBA, PR	BLANK0000073718	6.6
	WSJU-LP	D32-	LD	CP	CEIBA, PR	BLANK0000143668	43.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
6624.0 2,226,291	5324.0 2,069,364	4823.3 1,941,787	4716.8 1,940,411	2.21 0.07

Undesired	Total IX	Unique IX, before	Unique IX, after
W33DD-D D31 LD CP	144.6 1,396		106.4 1,376
WRFB D30 DT CP	144.5 122,802	120.4 121,251	115.7 121,231
WNJX-TV D31 DT CP	353.6 6,119	338.3 4,568	336.9 4,568
W32DV-D D32 LD LIC	0.5 0	0.5 0	0.2 0
W23EM-D D32 LD CP	1.2 207	0.7 207	0.7 207
WSJU-LP D32- LD CP	37.6 0	7.6 0	1.5 0

Interference to BLANK0000029719 CP scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: WNJX-TV	D31	DT	CP	MAYAGUEZ, PR	BLANK0000029719	
Undesireds: W33DD-D	D31	LD	CP	TUTU, ST THOMAS, VI	BLANK0000053904	219.7 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
W33DD-D D31 LD CP	1.5 1,103		0.0 0
WRFB D30 DT CP	7.4 5,189	7.4 5,189	5.9 4,086
WIPM-TV D32 DT CP	3.4 1,016	3.4 1,016	3.4 1,016

Interference to BLANK0000029719 CP scenario 2

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: WNJX-TV	D31	DT	CP	MAYAGUEZ, PR	BLANK0000029719	
Undesireds: W33DD-D	D31	LD	CP	TUTU, ST THOMAS, VI	BLANK0000053904	219.7 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
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W33DD-D D31 LD CP	1.5	1,103			0.0	0
WRFB D30 DT CP	7.4	5,189	7.4	5,189	5.9	4,086
WIPM-TV D32 DT BL	3.0	582	3.0	582	3.0	582

Interference to BLANK0000029719 CP scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WNJX-TV	D31	DT	CP	MAYAGUEZ, PR	BLANK0000029719	
Undesireds:	W33DD-D	D31	LD	CP	TUTU, ST THOMAS, VI	BLANK0000053904	219.7 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	38902.5 1,444,253	0.00 0.00
Undesired	Total IX	Unique IX, before	Unique IX, after	
W33DD-D D31 LD CP	1.5 1,103		0.5 0	
WRFB D30 DT BL	3.7 2,082	3.7 2,082	2.7 979	
WIPM-TV D32 DT CP	3.4 1,016	3.4 1,016	3.4 1,016	

Interference to BLANK0000029719 CP scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WNJX-TV	D31	DT	CP	MAYAGUEZ, PR	BLANK0000029719	
Undesireds:	W33DD-D	D31	LD	CP	TUTU, ST THOMAS, VI	BLANK0000053904	219.7 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	38903.0 1,444,687	0.00 0.00
Undesired	Total IX	Unique IX, before	Unique IX, after	
W33DD-D D31 LD CP	1.5 1,103		0.5 0	
WRFB D30 DT BL	3.7 2,082	3.7 2,082	2.7 979	
WIPM-TV D32 DT BL	3.0 582	3.0 582	3.0 582	

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W33DD-D	D31	LD	CP	TUTU, ST THOMAS, VI	BLANK0000053904	
Undesireds:	W31DV-D	D31	LD	LIC	GUAYAMA, PR	BLANK0000007268	131.8 km
	WSJU-LP	D32-	LD	CP	CEIBA, PR	BLANK0000143668	80.3

Service area		Terrain-limited		IX-free		Percent IX	
1645.8	51,638	1561.4	51,634	1545.9	51,634	0.99	0.00
Undesired		Total IX		Unique IX		Prcnt Unique IX	
WSJU-LP	D32- LD CP	15.5	0	15.5	0	0.99	0.00