

W33DD-D PROPOSED FACILITY ON CH 31 PRE-TRANSITION TVSTUDY

tvstudy v2.2.5 (4uoc83)
Database: 127.0.0.1, Study: BLANK0000010483 #1192, Model: Longley-Rice
Start: 2018.05.08 12:50:54
Study created: 2018.05.08 12:50:53
Study build station data: LMS TV 2018-05-08

Proposal: W33DD-D D31 LD LIC TUTU, ST THOMAS, VI
File number: BLANK0000010483
Facility ID: 181829
Station data: User record
Record ID: 496
Country: U.S.

Build options:
Protect pre-transition records not on baseline channel
Search options:
Baseline record excluded if station has CP
All records for new LPTV stations excluded

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	W29CB	N29	TX	LIC	ST. THOMAS, VI	BLTTL19971105II	2.0 km
Yes	WDWL	D30	DT	LIC	BAYAMON, PR	BLCDT20091124ADX	122.9
Yes	WRFB	D30	DT	CP	CAROLINA, PR	BLANK0000034795	121.4
No	W44CS-D	D30	LD	APP	GUAYAMA, PR	BLANK0000053624	128.8
Yes	W31DV-D	D31	LD	CP	GUAYAMA, PR	BLANK0000036801	120.4
Yes	W31DV-D	D31	LD	LIC	GUAYAMA, PR	BLANK0000007268	128.9
Yes	WNJX-TV	D31	DT	CP	MAYAGUEZ, PR	BLANK0000029719	216.0
No	W31DL-D	D31	LD	LIC	PONCE, PR	BLDTL20090810ABM	180.1
Yes	WSJU-TV	D31	DT	LIC	SAN JUAN, PR	BLCDT20090217AEH	121.2
No	W32DV-D	D32	LD	LIC	ARROYO, PR	BLANK0000010684	128.9
No	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	216.1

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: Full Service
Latitude: 18 21 20.80 N (NAD83)
Longitude: 64 56 51.50 W
Height AMSL: 514.7 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: PSILP8ARA 150.0 deg
Elev Pattn: Generic
Elec Tilt: 1.00

50.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.013 kW	514.7 m	24.0 km
45.0	6.83	506.9	60.6
90.0	14.7	496.5	65.0
135.0	14.0	500.3	64.8
180.0	12.7	512.6	64.5
225.0	14.6	512.9	65.4
270.0	1.35	445.2	48.7
315.0	0.013	514.7	24.0

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 500 m
Conditions at FCC monitoring station: Santa Isabel PR
Bearing: 255.7 degrees Distance: 155.7 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 BLCDT20091124ADX LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WDWL	D30	DT	LIC	BAYAMON, PR	BLCDT20091124ADX	
Undesireds:	W33DD-D	D31	LD	LIC	TUTU, ST THOMAS, VI	BLANK0000010483	122.9 km
	WORA-TV	D29	DD	LIC	MAYAGUEZ, PR	BLANK0000003621	93.9
	WQQZ-CD	D30	DC	LIC	PONCE, PR	BLANK0000001465	71.3

WSJU-TV	D31	DT	LIC	SAN JUAN, PR		BLCDT20090217AEH		1.8	
Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
18491.9	2,852,290	15622.8	2,570,422	15517.2	2,569,737	15440.6	2,569,737	0.49	0.00
Undesired	Total IX		Unique IX, before		Unique IX, after				
W33DD-D	D31	LD	LIC	76.6	0	76.6	0		
WORA-TV	D29	DD	LIC	2.2	285	1.7	273		
WQQZ-CD	D30	DC	LIC	100.5	0	100.5	0		
WSJU-TV	D31	DT	LIC	3.4	412	3.0	400		

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	LIC	TUTU, ST THOMAS, VI	BLANK0000010483	121.4 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	16783.8	2,434,722	0.60	0.00
Undesired	Total IX		Unique IX, before		Unique IX, after				
W33DD-D	D31	LD	LIC	101.8	0	101.8	0		
WORA-TV	D29	DD	LIC	2.2	12	0.2	12		
WNJX-TV	D31	DT	CP	3.2	593	1.2	593		

Interference to BLANK0000036801 CP scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance			
Desired: W31DV-D	D31	LD	CP	GUAYAMA, PR	BLANK0000036801				
Undesireds: W33DD-D	D31	LD	LIC	TUTU, ST THOMAS, VI	BLANK0000010483	120.4 km			
WRFB	D30	DT	CP	CAROLINA, PR	BLANK0000034795	1.4			
WNJX-TV	D31	DT	CP	MAYAGUEZ, PR	BLANK0000029719	95.7			
Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
2898.4	1,186,380	1982.7	991,531	1754.1	755,360	1595.4	753,025	9.05	0.31
Undesired	Total IX		Unique IX, before		Unique IX, after				
W33DD-D	D31	LD	LIC	214.1	8,749	158.7	2,335		
WRFB	D30	DT	CP	224.2	234,731	164.1	226,857		
WNJX-TV	D31	DT	CP	28.8	3,994	2.5	1,433		

Interference to BLANK000007268 LIC scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance			
Desired: W31DV-D	D31	LD	LIC	GUAYAMA, PR	BLANK000007268				
Undesireds: W33DD-D	D31	LD	LIC	TUTU, ST THOMAS, VI	BLANK0000010483	128.9 km			
WNJX-TV	D31	DT	CP	MAYAGUEZ, PR	BLANK0000029719	94.2			
W31DL-D	D31	LD	LIC	PONCE, PR	BLDTL20090810ABM	53.6			
WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	94.2			
Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
4890.1	229,895	4600.6	206,387	2040.6	195,541	2000.1	195,541	1.98	0.00
Undesired	Total IX		Unique IX, before		Unique IX, after				
W33DD-D	D31	LD	LIC	40.7	0	40.5	0		
WNJX-TV	D31	DT	CP	2558.8	10,681	2490.2	8,712		
W31DL-D	D31	LD	LIC	69.6	2,134	1.2	165		
WIPM-TV	D32	DT	CP	2.5	0	0.0	0		

Interference to BLANK0000029719 CP scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance			
Desired: WJNX-TV	D31	DT	CP	MAYAGUEZ, PR	BLANK0000029719				
Undesireds: W33DD-D	D31	LD	LIC	TUTU, ST THOMAS, VI	BLANK0000010483	216.0 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	38896.1	1,439,727	0.01	0.10
Undesired	Total IX		Unique IX, before		Unique IX, after				
W33DD-D	D31	LD	LIC	6.6	3,179	3.2	1,419		
WRFB	D30	DT	CP	7.4	5,189	3.9	3,429		
WIPM-TV	D32	DT	CP	3.4	1,016	3.4	1,016		

Interference to BLCDT20090217AEH LIC scenario 1

**IX: 0.93% interference caused

Call	Chan	Svc	Status	City, State	File Number	Distance			
Desired: WSJU-TV	D31	DT	LIC	SAN JUAN, PR	BLCDT20090217AEH				
Undesireds: W33DD-D	D31	LD	LIC	TUTU, ST THOMAS, VI	BLANK0000010483	121.2 km			
WDWL	D30	DT	LIC	BAYAMON, PR	BLCDT20091124ADX	1.8			
Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
15501.9	2,664,895	13284.4	2,443,217	13260.5	2,412,485	11955.1	2,389,941	9.84	0.93

Undesired		Total IX	Unique IX, before		Unique IX, after	
W33DD-D D31 LD LIC	1307.4	22,660			1305.4	22,544
WDWL D30 DT LIC	23.9	30,732	23.9	30,732	21.9	30,616

Interference to proposal scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: W33DD-D	D31	LD	LIC	TUTU, ST THOMAS, VI	BLANK0000010483	
Undesireds: W31DV-D	D31	LD	CP	GUAYAMA, PR	BLANK0000036801	120.4 km
Service area	Terrain-limited			IX-free	Percent IX	
9242.3	66,791	8990.6	66,253	8986.4	66,015	0.05 0.36
Undesired	Total IX			Unique IX	Prct Unique IX	
W31DV-D D31 LD CP	4.2		238	4.2	238	0.05 0.36

Interference to proposal scenario 2

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: W33DD-D	D31	LD	LIC	TUTU, ST THOMAS, VI	BLANK0000010483	
Service area	Terrain-limited			IX-free	Percent IX	
9242.3	66,791	8990.6	66,253	8990.6	66,253	0.00 0.00