W44DH-D PROPOSED FACILITY ON CH. 33 POST-TRANSITION TVSTUDY

tvstudy v2.2.5 (4uoc83)
Study build station data: LMS TV 2019-05-22

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    Proposal: W44DH-D D33 LD APP, PSILP8BB 190°, 15KW, CAGUAS, PR
 File number: BLANK0000053906
 Facility ID: 184034
Station data: User record
   Record ID: 953
     Country: U.S.
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Search options:
Baseline record excluded if station has CP

Individual records excluded:
0000010483 W33DD-D D33 LD LIC TUTU, ST THOMAS, VI BLANK0000010483 - DISPLACED TO CH. 31
0000010492 W34DY-D D34 LD LIC VIEQUES, PR BLANK0000010492 - DISPLACED TO CH. 33 (CONSIDERED IN THIS STUDY)
0000010684 W32DV-D D32 LD LIC ARROYO, PR BLANK0000010684 - DISPLACED TO CH. 17
20090610ABH WRUA D33 DT LIC FAJARDO, PR BLCDT20090610ABH - DISPLACED TO CH. 16
20140404AAY W34ED-D D34 LD LIC Cayey, PR BLDTL20140404AAY - DISPLACED TO CH. 35
20140916ACJ W32DZ-D D32 LD LIC MAYAGUEZ, PR BLDTL20140916ACJ - DISPLACED TO CH. 22

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	W29CB	N29	TX	LIC	ST. THOMAS, VI	BLTTL19971105II	112.1 km
No	W23EM-D	D32	LD	CP	CEIBA, PR	BLANK0000054704	0.0
Yes	WIVE-LP	D32-	LD	CP	CEIBA, PR	BLANK0000072008	37.4
No	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	102.0
No	W28EQ-D	N32+	TX	LIC	UTUADO, PR	BLTT19890703IC	74.2
No	W33CY-D	D33	LD	LIC	ANASCO, PR	BLDTL20140404AAX	122.2
Yes	WJWN-TV	D33	DT	CP	SAN SEBASTIAN, PR	BLANK0000027870	102.0
Yes	W34DY-D	D33	LD	CP	VIEQUES, PR	BLANK0000071836	37.4
No	W33CY-D	D34	LD	CP	ANASCO, PR	BLANK0000053622	102.0
Yes	WIDP	D34	DT	CP	GUAYAMA, PR	BLANK0000025304	18.2
No	WWKQ-LD	D34-	LD	CP	QUEBRADILLAS, PR	BLANK0000051821	98.4

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

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    Channel: D33
       Mask: Full Service
   Latitude:  18 15 19.80 N (NAD83)
  Longitude:  66  1 24.50 W
Height AMSL: 161.5 m
       HAAT: 0.0 m
   Peak ERP: 15.0 kW
    Antenna: PSI-PSILP8BB (ID 1003599) 190.0 deg
Elev Pattrn: Generic
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50.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.864 kW	86.9 m	27.2 km
45.0	0.630	15.5	15.3
90.0	0.864	5.9	16.5
135.0	13.0	17.6	29.0
180.0	14.4	-167.2	29.5
225.0	14.1	-120.0	29.4
270.0	4.06	-98.5	23.7
315.0	0.726	63.4	23.1

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: -25 m

Distance to Canadian border: 2948.9 km

Distance to Mexican border: 3286.7 km

Conditions at FCC monitoring station: Santa Isabel PR
Bearing: 233.2 degrees Distance: 46.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 311.4 degrees Distance: 4460.1 km

Study cell size: 0.50 km
Profile point spacing: 0.04 km

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

Interference to BLANK0000072008 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WIVE-LP	D32-	LD	CP	CEIBA, PR	BLANK0000072008	
Undesireds:	W44DH-D	D33	LD	APP	CAGUAS PSIBB190 15KW, PR	BLANK0000053906	37.4 km
	W31DV-D	D31	LD	LIC	GUAYAMA, PR	BLANK0000007268	56.1
	W23EM-D	D32	LD	CP	CEIBA, PR	BLANK0000054704	37.4
	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	139.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
7065.9	525,051	6397.2	325,917	6011.7	319,159	6011.7	319,159	0.00	0.00

Undesired	Total IX	Unique IX, before		Unique IX, after	
W44DH-D D33 LD APP	0.5	19		0.0	0
W31DV-D D31 LD LIC	13.3	0	11.1	0	11.1	0
W23EM-D D32 LD CP	6.9	1,557	6.9	1,557	6.4	1,538
WIPM-TV D32 DT CP	367.5	5,201	365.3	5,201	365.3	5,201

Interference to BLANK0000072008 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WIVE-LP	D32-	LD	CP	CEIBA, PR	BLANK0000072008	
Undesireds:	W44DH-D	D33	LD	APP	CAGUAS PSIBB190 15KW, PR	BLANK0000053906	37.4 km
	W31DV-D	D31	LD	CP	GUAYAMA, PR	BLANK0000059669	43.8
	W23EM-D	D32	LD	CP	CEIBA, PR	BLANK0000054704	37.4
	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	139.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
7065.9	525,051	6397.2	325,917	6022.8	319,159	6022.8	319,159	0.00	0.00

Undesired	Total IX	Unique IX, before		Unique IX, after	
W44DH-D D33 LD APP	0.5	19		0.0	0
W31DV-D D31 LD CP	0.5	19	0.0	0	0.0	0
W23EM-D D32 LD CP	6.9	1,557	6.4	1,538	6.4	1,538
WIPM-TV D32 DT CP	367.5	5,201	367.5	5,201	367.5	5,201

Interference to BLANK0000027870 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WJWN-TV	D33	DT	CP	SAN SEBASTIAN, PR	BLANK0000027870	
Undesireds:	W44DH-D	D33	LD	APP	CAGUAS PSIBB190 15KW, PR	BLANK0000053906	102.0 km
	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	0.0
	WIDP	D34	DT	CP	GUAYAMA, PR	BLANK0000025304	120.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
35366.6	1,959,488	34995.4	1,732,211	34958.4	1,716,126	34951.8	1,709,885	0.02	0.36

Undesired	Total IX	Unique IX, before		Unique IX, after	
W44DH-D D33 LD APP	7.4	7,795		6.6	6,241
WIPM-TV D32 DT CP	29.8	2,552	29.8	2,552	29.8	2,552
WIDP D34 DT CP	7.1	13,533	7.1	13,533	6.4	11,979

Interference to BLANK0000071836 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W34DY-D	D33	LD	CP	VIEQUES, PR	BLANK0000071836	
Undesireds:	W44DH-D	D33	LD	APP	CAGUAS PSIBB190 15KW, PR	BLANK0000053906	37.4 km
	W23EM-D	D32	LD	CP	CEIBA, PR	BLANK0000054704	37.4
	WJWN-TV	D33	DT	CP	SAN SEBASTIAN, PR	BLANK0000027870	139.4
	W33CY-D	D34	LD	CP	ANASCO, PR	BLANK0000053622	139.4
	WIDP	D34	DT	CP	GUAYAMA, PR	BLANK0000025304	19.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
7036.6	521,632	6368.4	325,286	6009.7	316,940	6003.8	315,485	0.10	0.46

Undesired	Total IX		Unique IX, before		Unique IX, after	
W44DH-D D33 LD APP	9.6	2,644			5.9	1,455
W23EM-D D32 LD CP	0.5	19	0.0	0	0.0	0
WJWN-TV D33 DT CP	328.9	5,282	104.5	5,282	104.3	5,282
WIDP D34 DT CP	254.2	3,064	29.3	3,045	26.3	1,875

Interference to BLANK0000025304 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WIDP	D34	DT	CP	GUAYAMA, PR	BLANK0000025304	
Undesireds:	W44DH-D	D33	LD	APP	CAGUAS PSIBB190 15KW, PR	BLANK0000053906	18.2 km
	WJWN-TV	D33	DT	CP	SAN SEBASTIAN, PR	BLANK0000027870	120.2
	WCCV-TV	D35	DT	CP	ARECIBO, PR	BLANK0000067514	95.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
24002.1	2,561,120	22049.0	2,349,165	21781.3	2,343,036	21777.4	2,336,976	0.02	0.26

Undesired	Total IX		Unique IX, before		Unique IX, after	
W44DH-D D33 LD APP	3.9	6,060			3.9	6,060
WJWN-TV D33 DT CP	258.3	0	258.3	0	258.3	0
WCCV-TV D35 DT CP	9.3	6,129	9.3	6,129	9.3	6,129

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W44DH-D	D33	LD	APP	CAGUAS PSIBB190 15KW, PR	BLANK0000053906	
Undesireds:	WJWN-TV	D33	DT	CP	SAN SEBASTIAN, PR	BLANK0000027870	102.0 km
	W34DY-D	D33	LD	CP	VIEQUES, PR	BLANK0000071836	37.4
	W33CY-D	D34	LD	CP	ANASCO, PR	BLANK0000053622	102.0
	WIDP	D34	DT	CP	GUAYAMA, PR	BLANK0000025304	18.2

Service area		Terrain-limited		IX-free		Percent IX	
1945.5	1,407,949	1640.6	1,147,785	1619.2	1,141,042	1.31	0.59

Undesired	Total IX		Unique IX		Prcnt Unique IX	
WJWN-TV D33 DT CP	3.2	2,045	2.5	1,961	0.15	0.17
W34DY-D D33 LD CP	14.0	3,836	7.6	3,566	0.47	0.31
WIDP D34 DT CP	10.6	1,132	4.9	946	0.30	0.08