

WNTE CH. 36 Displacement study.

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: WNTE Displacement 06-2022 1x1, Model: Longley-Rice
Start: 2022.06.25 17:09:03

Study created: 2022.06.25 17:09:03

Study build station data: LMS TV 2022-06-24

Proposal: WNTE-LD D36 LD LIC MAYAGUEZ, PR
File number: BLANK0000006958
Facility ID: 185272
Station data: LMS TV 2022-06-24
Record ID: 25076f915117bf590151407c6ef01fcb
Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Search options:

Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	W28EQ-D	N32+	TX	LIC	UTUADO, PR	BLTT19890703IC	31.0 km
Yes	WCCV-TV	D35	DT	LIC	ARECIBO, PR	BLANK0000076642	25.5
No	WIPM-TV	D35	DT	LIC	MAYAGUEZ, PR	BLEDT20060627ACQ	0.0
Yes	W36EP-D	D35	LD	CP	YAUCO, PR	BLANK0000170098	26.0
Yes	WIMN-CD	D36	DC	LIC	ARECIBO, PR	BLANK0000129598	49.7
No	WXWZ-LD	D36	LD	LIC	GUAYAMA, PR	BLANK0000068229	98.5
Yes	WXWZ-LD	D36	LD	CP	GUAYAMA, PR	BLANK0000170054	98.5
Yes	WVOZ-TV	D36	DT	LIC	PONCE, PR	BLANK0000073609	26.1
Yes	W36EP-D	D36	LD	LIC	YAUCO, PR	BLANK0000006960	19.2
No	WTJX-TV	D36	DT	LIC	CHARLOTTE AMALIE, VI	BLANK0000187024	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: D36
Mask: Full Service
Latitude: 18 8 52.80 N (NAD83)
Longitude: 66 58 58.60 W
Height AMSL: 929.8 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: PSI-PSILP8ARA (ID 40190) 240.0 deg
Elev Pattn: Generic
Elec Tilt: 2.50

50.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	1.35 kW	605.4 m	52.3 km
45.0	0.013	497.7	23.1
90.0	0.013	143.7	12.5
135.0	6.83	647.2	63.6
180.0	14.7	826.8	72.5
225.0	14.0	820.2	72.0
270.0	12.7	792.3	70.8
315.0	14.6	641.8	68.5

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 622 m

Distance to Canadian border: 2959.8 km

Distance to Mexican border: 3196.3 km

Conditions at FCC monitoring station: Santa Isabel PR
Bearing: 103.8 degrees Distance: 66.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 311.9 degrees Distance: 4392.3 km

Study cell size: 1.00 km
Profile point spacing: 1.00 km

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

Interference to BLANK0000076642 LIC scenario 1
***IX: 2.20% interference caused**

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WCCV-TV	D35	DT	LIC	ARECIBO, PR	BLANK0000076642	
Undesireds:	WNTE-LD	D36	LD	LIC	MAYAGUEZ, PR	BLANK0000006958	25.5 km
	WIDP	D34	DT	LIC	GUAYAMA, PR	BLANK0000078426	95.9
	WIMN-CD	D36	DC	LIC	ARECIBO, PR	BLANK0000129598	27.5
	WVOZ-TV	D36	DT	LIC	PONCE, PR	BLANK0000073609	17.3
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
22841.1	3,399,625	18262.4	2,517,830	17104.0	2,462,235	16680.2 2,408,002	2.48 2.20
Undesired		Total IX		Unique IX, before		Unique IX, after	
WNTE-LD	D36 LD LIC	1102.7	63,438			423.8 54,233	
WIDP	D34 DT LIC	22.7	6,939	21.7	6,939	21.7 6,939	
WIMN-CD	D36 DC LIC	29.5	7,127	28.6	7,127	28.6 7,127	
WVOZ-TV	D36 DT LIC	1107.2	41,529	1107.2	41,529	428.3 32,324	

Interference to BLANK0000170098 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W36EP-D	D35	LD	CP	YAUCO, PR	BLANK0000170098	
Undesireds:	WNTE-LD	D36	LD	LIC	MAYAGUEZ, PR	BLANK0000006958	26.0 km
	W34FK-D	D34	LD	LIC	ANASCO, PR	BLANK0000148547	26.0
	WCCV-TV	D35	DT	LIC	ARECIBO, PR	BLANK0000076642	17.3
	WXWZ-LD	D36	LD	LIC	GUAYAMA, PR	BLANK0000068229	73.7
	WVOZ-TV	D36	DT	LIC	PONCE, PR	BLANK0000073609	0.2
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
7657.9	737,601	7155.2	590,787	6870.1	575,877	6837.5 572,050	0.47 0.66
Undesired		Total IX		Unique IX, before		Unique IX, after	
WNTE-LD	D36 LD LIC	119.3	10,586			32.5 3,827	
W34FK-D	D34 LD LIC	41.4	9,149	16.8	6,593	5.9 2,492	
WCCV-TV	D35 DT LIC	256.6	6,389	230.9	3,723	180.6 3,723	
WVOZ-TV	D36 DT LIC	12.8	2,038	11.8	1,928	10.8 1,826	

Interference to BLANK0000129598 LIC scenario 1

****IX: 2.52% interference caused**

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WIMN-CD	D36	DC	LIC	ARECIBO, PR	BLANK0000129598	
Undesireds:	WNTE-LD	D36	LD	LIC	MAYAGUEZ, PR	BLANK0000006958	49.7 km
	WCCV-TV	D35	DT	LIC	ARECIBO, PR	BLANK0000076642	27.5
	WTJX-TV	D36	DT	LIC	CHARLOTTE AMALIE, VI	BLANK0000187024	178.5
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
3793.2 615,331		3613.0 564,655		3595.3 560,049		3518.6 545,958	2.13 2.52
Undesired		Total IX		Unique IX, before		Unique IX, after	
WNTE-LD	D36 LD LIC	82.7	15,692			76.8 14,091	
WCCV-TV	D35 DT LIC	12.8	2,851	11.8	2,597	5.9 996	
WTJX-TV	D36 DT LIC	5.9	2,009	4.9	1,755	4.9 1,755	

Interference to BLANK0000170054 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WXWZ-LD	D36	LD	CP	GUAYAMA, PR	BLANK0000170054	
Undesireds:	WNTE-LD	D36	LD	LIC	MAYAGUEZ, PR	BLANK0000006958	98.5 km
	WIMN-CD	D36	DC	LIC	ARECIBO, PR	BLANK0000129598	72.5
	WVOZ-TV	D36	DT	LIC	PONCE, PR	BLANK0000073609	73.5
	W36EP-D	D36	LD	LIC	YAUCO, PR	BLANK0000006960	83.6
	WTJX-TV	D36	DT	LIC	CHARLOTTE AMALIE, VI	BLANK0000187024	119.7
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
9630.4 2,373,203		7911.3 1,945,395		4754.9 1,757,516		4754.9 1,757,516	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
WNTE-LD	D36 LD LIC	49.4	0			0.0 0	
WIMN-CD	D36 DC LIC	257.8	101,507	237.1	80,727	237.1 80,727	
WVOZ-TV	D36 DT LIC	2239.4	8,116	2162.4	8,113	2127.9 8,113	
W36EP-D	D36 LD LIC	10.9	0	0.0	0	0.0 0	
WTJX-TV	D36 DT LIC	746.0	99,039	660.2	78,256	660.2 78,256	

Interference to BLANK0000170054 CP scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WXWZ-LD	D36	LD	CP	GUAYAMA, PR	BLANK0000170054	
Undesireds:	WNTE-LD	D36	LD	LIC	MAYAGUEZ, PR	BLANK0000006958	98.5 km
	WIMN-CD	D36	DC	LIC	ARECIBO, PR	BLANK0000129598	72.5
	WVOZ-TV	D36	DT	LIC	PONCE, PR	BLANK0000073609	73.5
	WTJX-TV	D36	DT	LIC	CHARLOTTE AMALIE, VI	BLANK0000187024	119.7
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
9630.4 2,373,203		7911.3 1,945,395		4754.9 1,757,516		4754.9 1,757,516	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
WNTE-LD	D36 LD LIC	49.4	0			0.0 0	
WIMN-CD	D36 DC LIC	257.8	101,507	237.1	80,727	237.1 80,727	
WVOZ-TV	D36 DT LIC	2239.4	8,116	2172.3	8,113	2127.9 8,113	
WTJX-TV	D36 DT LIC	746.0	99,039	660.2	78,256	660.2 78,256	

Interference to BLANK0000073609 LIC scenario 1

****IX: 19.00% interference caused**

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WVOZ-TV	D36	DT	LIC	PONCE, PR	BLANK0000073609	
Undesireds:	WNTE-LD	D36	LD	LIC	MAYAGUEZ, PR	BLANK0000006958	26.1 km
	WCCV-TV	D35	DT	LIC	ARECIBO, PR	BLANK0000076642	17.3
	WIMN-CD	D36	DC	LIC	ARECIBO, PR	BLANK0000129598	43.1
	WTJX-TV	D36	DT	LIC	CHARLOTTE AMALIE, VI	BLANK0000187024	192.4
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
13765.4		1,133,356		12854.9		884,978	66.54
				12760.3		881,652	19.00
						4269.0	
						714,104	
Undesired		Total IX		Unique IX, before		Unique IX, after	
WNTE-LD	D36 LD LIC	8566.2		167,720		8491.3	167,548
WCCV-TV	D35 DT LIC	73.9		172		0.0	0
WIMN-CD	D36 DC LIC	23.7		1,484		7.9	1,312
WTJX-TV	D36 DT LIC	11.8		1,842		11.8	1,842

Interference to BLANK0000006960 LIC scenario 1

****IX: 5.48% interference caused (W36EP-D is displaced to channel 35)**

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W36EP-D	D36	LD	LIC	YAUCO, PR	BLANK0000006960	
Undesireds:	WNTE-LD	D36	LD	LIC	MAYAGUEZ, PR	BLANK0000006958	19.2 km
	WCCV-TV	D35	DT	LIC	ARECIBO, PR	BLANK0000076642	22.9
	WIMN-CD	D36	DC	LIC	ARECIBO, PR	BLANK0000129598	50.4
	WXWZ-LD	D36	LD	LIC	GUAYAMA, PR	BLANK0000068229	83.6
	WVOZ-TV	D36	DT	LIC	PONCE, PR	BLANK0000073609	10.7
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
4587.9		444,868		4061.5		268,657	8.89
				1031.5		163,398	5.48
						939.7	
						154,441	
Undesired		Total IX		Unique IX, before		Unique IX, after	
WNTE-LD	D36 LD LIC	2961.0		76,444		91.7	8,957
WCCV-TV	D35 DT LIC	1.0		0		0.0	0
WIMN-CD	D36 DC LIC	3.9		68		2.0	0
WXWZ-LD	D36 LD LIC	4.0		0		0.0	0
WVOZ-TV	D36 DT LIC	3028.0		105,259		157.8	37,704

Interference to BLANK0000006960 LIC scenario 2

****IX: 5.48% interference caused (W36EP-D is displaced to channel 35)**

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W36EP-D	D36	LD	LIC	YAUCO, PR	BLANK0000006960	
Undesireds:	WNTE-LD	D36	LD	LIC	MAYAGUEZ, PR	BLANK0000006958	19.2 km
	WCCV-TV	D35	DT	LIC	ARECIBO, PR	BLANK0000076642	22.9
	WIMN-CD	D36	DC	LIC	ARECIBO, PR	BLANK0000129598	50.4
	WXWZ-LD	D36	LD	CP	GUAYAMA, PR	BLANK0000170054	83.6
	WVOZ-TV	D36	DT	LIC	PONCE, PR	BLANK0000073609	10.7
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
4587.9		444,868		4061.5		268,657	8.89
				1031.5		163,398	5.48
						939.7	
						154,441	
Undesired		Total IX		Unique IX, before		Unique IX, after	
WNTE-LD	D36 LD LIC	2961.0		76,444		91.7	8,957
WCCV-TV	D35 DT LIC	1.0		0		0.0	0
WIMN-CD	D36 DC LIC	3.9		68		2.0	0
WXWZ-LD	D36 LD CP	275.6		0		0.0	0
WVOZ-TV	D36 DT LIC	3028.0		105,259		157.8	37,704

Interference to proposal scenario 1

20.71% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WNTE-LD	D36	LD	LIC	MAYAGUEZ, PR	BLANK0000006958	
Undesireds:	WCCV-TV	D35	DT	LIC	ARECIBO, PR	BLANK0000076642	25.5 km
	WIMN-CD	D36	DC	LIC	ARECIBO, PR	BLANK0000129598	49.7
	WXWZ-LD	D36	LD	LIC	GUAYAMA, PR	BLANK0000068229	98.5
	WVOZ-TV	D36	DT	LIC	PONCE, PR	BLANK0000073609	26.1
	W36EP-D	D36	LD	LIC	YAUCO, PR	BLANK0000006960	19.2
Service area		Terrain-limited		IX-free		Percent IX	
10649.3	697,883	10445.4	634,678	4394.5	503,219	57.93	20.71
Undesired		Total IX		Unique IX		Prcnt Unique IX	
WCCV-TV	D35 DT LIC	55.1	14,633	22.6	2,713	0.22	0.43
WIMN-CD	D36 DC LIC	193.8	32,665	161.3	20,745	1.54	3.27
WVOZ-TV	D36 DT LIC	5718.1	75,258	2345.3	41,664	22.45	6.56
W36EP-D	D36 LD LIC	3489.2	54,417	116.4	20,823	1.11	3.28

Interference to proposal scenario 2

17.43% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WNTE-LD	D36	LD	LIC	MAYAGUEZ, PR	BLANK0000006958	
Undesireds:	WCCV-TV	D35	DT	LIC	ARECIBO, PR	BLANK0000076642	25.5 km
	W36EP-D	D35	LD	CP	YAUCO, PR	BLANK0000170098	26.0
	WIMN-CD	D36	DC	LIC	ARECIBO, PR	BLANK0000129598	49.7
	WXWZ-LD	D36	LD	LIC	GUAYAMA, PR	BLANK0000068229	98.5
	WVOZ-TV	D36	DT	LIC	PONCE, PR	BLANK0000073609	26.1
Service area		Terrain-limited		IX-free		Percent IX	
10649.3	697,883	10445.4	634,678	4509.9	524,042	56.82	17.43
Undesired		Total IX		Unique IX		Prcnt Unique IX	
WCCV-TV	D35 DT LIC	55.1	14,633	22.6	2,713	0.22	0.43
W36EP-D	D35 LD CP	9.9	1,317	1.0	0	0.01	0.00
WIMN-CD	D36 DC LIC	193.8	32,665	161.3	20,745	1.54	3.27
WVOZ-TV	D36 DT LIC	5718.1	75,258	5709.2	73,941	54.66	11.65