

W36EP-D PROPOSED FACILITY ON CH 35 PRE-REPACK TVSTUDY

tvstudy v2.2.5 (4uoc83)

Database: 127.0.0.1, Study: BLANK0000006960 #983, Model: Longley-Rice

Start: 2018.04.26 14:03:07

Study created: 2018.04.26 14:03:07

Study build station data: LMS TV 2018-04-25

Proposal: W36EP-D D35 LD LIC YAUCO, PR

File number: BLANK0000006960

Facility ID: 188722

Station data: User record

Record ID: 431

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	WPRU-LP	N20z	TX	LIC	AQUADILLA, PR	BLTTL20101020ABE	52.1 km
No	W28EQ-D	N32+	TX	LIC	UTUADO, PR	BLTT19890703IC	29.3
Yes	WELU	D34	DT	LIC	AGUADILLA, PR	BLANK0000001308	19.8
No	WIDP	D34	DT	CP	GUAYAMA, PR	BLANK0000025304	107.5
No	WWKQ-LD	D34-	LD	APP	QUEBRADILLAS, PR	BLANK0000051821	49.5
No	W34ED-D	D34	LD	LIC	TRUJILLO ALTO, PR	BLDTL20140404AAY	80.9
No	W34DY-D	D34	LD	LIC	VIEQUES, PR	BLANK0000010492	148.2
Yes	WCCV-TV	D35	DT	CP	ARECIBO, PR	BLANK0000026046	22.9
Yes	WIPM-TV	D35	DT	LIC	MAYAGUEZ, PR	BLEDT20060627ACQ	19.2
No	WIMN-CD	D36	DC	CP	ARECIBO, PR	BLANK0000036058	50.4
No	WIMN-CD	D36	DC	LIC	ARECIBO, PR	BLDTA20140225AAJ	50.4
No	WXWZ-LD	D36	LD	APP	GUAYAMA, PR	BLANK0000052871	80.9
Yes	WNTE-LD	D36	LD	LIC	MAYAGUEZ, PR	BLANK0000006958	19.2
Yes	WVOZ-TV	D36	DT	CP	PONCE, PR	BLANK0000028456	10.7
No	WTJX-TV	D36	DT	CP	CHARLOTTE AMALIE, VI	BLANK0000025655	202.8
No	WIVE-LP	N42-	TX	LIC	CEIBA, PR	BLTTL20030128ABW	126.5

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:

WENA 1330 L DA1 D YAUCO, PR BL19990816DE

WENA 1330 L DA1 N YAUCO, PR BL19990816DE

Record parameters as studied:

Channel: D35

Mask: Full Service

Latitude: 18 2 30.00 N (NAD83)

Longitude: 66 50 23.90 W

Height AMSL: 222.2 m

HAAT: 0.0 m

Peak ERP: 10.0 kW

Antenna: PSILP8BG 180.0 deg

Elev Pattn: Generic

Elec Tilt: 0.50

50.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.441 kW	-345.7 m	13.8 km
45.0	0.552	-326.9	14.6
90.0	7.92	80.6	37.3
135.0	4.22	209.6	44.1
180.0	1.30	196.7	37.2
225.0	4.22	200.0	43.5
270.0	7.92	146.1	43.5
315.0	0.552	-176.2	14.6

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: -2 m

Distance to Canadian border: 2971.6 km

Distance to Mexican border: 3214.7 km

Conditions at FCC monitoring station: Santa Isabel PR

Bearing: 94.6 degrees Distance: 49.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
 Bearing: 312.0 degrees Distance: 4411.5 km

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

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

 Interference to BLANK0000001308 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WELU	D34	DT	LIC	AGUADILLA, PR	BLANK0000001308			
Undesireds:	W36EP-D	D35	LD	LIC	YAUCO, PR	BLANK0000006960	19.8 km		
	WRUA	D33	DT	LIC	FAJARDO, PR	BLCDDT20090610ABH	127.4		
	WIPM-TV	D35	DT	LIC	MAYAGUEZ, PR	BLEDT20060627ACQ	0.7		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
26599.0 1,475,048		26046.5 1,300,822		25689.9 1,214,380		25686.9 1,214,078	0.01 0.02		
Undesired				Total IX	Unique IX, before	Unique IX, after			
W36EP-D D35 LD LIC				3.5 455	3.0 302				
WRUA D33 DT LIC				45.3 19,570	42.6 17,492	42.6 17,492			
WIPM-TV D35 DT LIC				314.0 68,950	311.3 66,872	310.8 66,719			

 Interference to BLANK0000026046 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCCV-TV	D35	DT	CP	ARECIBO, PR	BLANK0000026046	
Undesireds:	W36EP-D	D35	LD	LIC	YAUCO, PR	BLANK0000006960	22.9 km
	WIDP	D34	DT	CP	GUAYAMA, PR	BLANK0000025304	95.9
	WIMN-CD	D36	DC	CP	ARECIBO, PR	BLANK0000036058	27.5
	WVOZ-TV	D36	DT	CP	PONCE, PR	BLANK0000028456	17.2
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
22589.5 3,419,212		18310.6 2,604,992		17497.3 2,562,476		17306.5 2,551,809	1.09 0.42

Undesired				Total IX	Unique IX, before	Unique IX, after	
W36EP-D D35 LD LIC	784.3			41,828		190.8	10,667
WIDP D34 DT CP	10.3			4,847	10.1 4,828	7.4	4,748
WIMN-CD D36 DC CP	14.8			3,011	14.5 2,992	14.5	2,992
WVOZ-TV D36 DT CP	788.4			34,677	788.4 34,677	197.6	3,596

Interference to BLANK0000026046 CP scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WCCV-TV	D35	DT	CP	ARECIBO, PR	BLANK0000026046	
Undesireds:	W36EP-D	D35	LD	LIC	YAUCO, PR	BLANK0000006960	22.9 km
	WIDP	D34	DT	CP	GUAYAMA, PR	BLANK0000025304	95.9
	WIMN-CD	D36	DC	LIC	ARECIBO, PR	BLDTA20140225AAJ	27.5
	WVOZ-TV	D36	DT	CP	PONCE, PR	BLANK0000028456	17.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
22589.5 3,419,212	18310.6 2,604,992	17476.6 2,556,517	17285.8 2,545,850	1.09 0.42

Undesired				Total IX	Unique IX, before	Unique IX, after	
W36EP-D D35 LD LIC	784.3			41,828		190.8	10,667
WIDP D34 DT CP	10.3			4,847	10.1 4,828	7.4	4,748
WIMN-CD D36 DC LIC	35.7			8,970	35.2 8,951	35.2	8,951
WVOZ-TV D36 DT CP	788.4			34,677	788.2 34,677	197.6	3,596

Interference to BLEDT20060627ACQ LIC scenario 1

**IX: 4.88% interference caused

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WIPM-TV	D35	DT	LIC	MAYAGUEZ, PR	BLEDT20060627ACQ	
Undesireds:	W36EP-D	D35	LD	LIC	YAUCO, PR	BLANK0000006960	19.2 km
	WELU	D34	DT	LIC	AGUADILLA, PR	BLANK0000001308	0.7
	WIMN-CD	D36	DC	CP	ARECIBO, PR	BLANK0000036058	49.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
44290.7 2,196,427	43772.0 1,859,074	43713.4 1,836,271	43359.1 1,746,739	0.81 4.88

Undesired				Total IX	Unique IX, before	Unique IX, after	
W36EP-D D35 LD LIC	354.6			89,545		354.3	89,532
WELU D34 DT LIC	1.0			13	1.0 13	0.7	0

WIMN-CD D36 DC CP	57.6	22,790	57.6	22,790	57.6	22,790
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Interference to BLEDT20060627ACQ LIC scenario 2

**IX: 5.19% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WIPM-TV	D35	DT	LIC	MAYAGUEZ, PR	BLEDT20060627ACQ	
Undesireds:	W36EP-D	D35	LD	LIC	YAUCO, PR	BLANK0000006960	19.2 km
	WELU	D34	DT	LIC	AGUADILLA, PR	BLANK0000001308	0.7
	WIMN-CD	D36	DC	LIC	ARECIBO, PR	BLDTA20140225AAJ	49.7
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	44290.7	2,196,427	43772.0	1,859,074	43467.2	1,724,704	43112.9 1,635,172 0.82 5.19

Undesired	Total IX		Unique IX, before		Unique IX, after	
W36EP-D D35 LD LIC	354.6	89,545	354.3	89,532		
WELU D34 DT LIC	1.0	13	1.0	13	0.7	0
WIMN-CD D36 DC LIC	303.8	134,357	303.8	134,357	303.8	134,357

Interference to BLANK0000006958 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WNTE-LD	D36	LD	LIC	MAYAGUEZ, PR	BLANK0000006958	
Undesireds:	W36EP-D	D35	LD	LIC	YAUCO, PR	BLANK0000006960	19.2 km
	WCCV-TV	D35	DT	CP	ARECIBO, PR	BLANK0000026046	25.4
	WIMN-CD	D36	DC	CP	ARECIBO, PR	BLANK0000036058	49.7
	WVOZ-TV	D36	DT	CP	PONCE, PR	BLANK0000028456	26.1
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	10641.8	694,883	10439.2	627,933	4669.4	554,888	4668.6 553,945 0.02 0.17

Undesired	Total IX		Unique IX, before		Unique IX, after	
W36EP-D D35 LD LIC	3.2	1,232	0.7	943		
WCCV-TV D35 DT CP	38.6	8,471	20.4	2,448	20.4	2,448
WIMN-CD D36 DC CP	173.3	24,494	154.9	18,471	154.9	18,471
WVOZ-TV D36 DT CP	5576.2	46,103	5576.0	46,103	5573.5	45,814

Interference to BLANK0000006958 LIC scenario 2

Desired:	Call WNTE-LD	Chan D36	Svc LD	Status LIC	City, State MAYAGUEZ, PR	File Number BLANK0000006958	Distance
Undesireds:	W36EP-D	D35	LD	LIC	YAUCO, PR	BLANK0000006960	19.2 km
	WCCV-TV	D35	DT	CP	ARECIBO, PR	BLANK0000026046	25.4
	WIMN-CD	D36	DC	LIC	ARECIBO, PR	BLDTA20140225AAJ	49.7
	WVOZ-TV	D36	DT	CP	PONCE, PR	BLANK0000028456	26.1

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
10641.8	694,883	10439.2		627,933	4673.6	559,458	4672.9	558,515	0.02 0.17
Undesired				Total IX		Unique IX, before		Unique IX, after	
W36EP-D D35 LD LIC		3.2		1,232			0.7	943	
WCCV-TV D35 DT CP		38.6		8,471	20.7	3,284	20.7	3,284	
WIMN-CD D36 DC LIC		168.6		19,088	150.7	13,901	150.7	13,901	
WVOZ-TV D36 DT CP		5576.2		46,103	5576.2	46,103	5573.8	45,814	

Interference to BLANK0000028456 CP scenario 1

Desired:	Call WVOZ-TV	Chan D36	Svc DT	Status CP	City, State PONCE, PR	File Number BLANK0000028456	Distance
Undesireds:	W36EP-D	D35	LD	LIC	YAUCO, PR	BLANK0000006960	10.7 km
	WCCV-TV	D35	DT	CP	ARECIBO, PR	BLANK0000026046	17.2
	WIMN-CD	D36	DC	CP	ARECIBO, PR	BLANK0000036058	43.1
	WTJX-TV	D36	DT	CP	CHARLOTTE AMALIE, VI	BLANK0000025655	192.4

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
13763.2	1,131,391	13018.1		922,764	12933.4	921,764	12927.7	919,138	0.04 0.28
Undesired				Total IX		Unique IX, before		Unique IX, after	
W36EP-D D35 LD LIC		5.7		2,626			5.7	2,626	
WCCV-TV D35 DT CP		74.2		0	59.1	0	59.1	0	
WIMN-CD D36 DC CP		21.7		172	5.7	146	5.7	146	
WTJX-TV D36 DT CP		4.9		854	3.9	828	3.9	828	

Interference to BLANK0000028456 CP scenario 2

Desired:	Call WVOZ-TV	Chan D36	Svc DT	Status CP	City, State PONCE, PR	File Number BLANK0000028456	Distance
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Undesireds:	W36EP-D	D35	LD	LIC	YAUCO, PR	BLANK0000006960	10.7 km
	WCCV-TV	D35	DT	CP	ARECIBO, PR	BLANK0000026046	17.2
	WIMN-CD	D36	DC	LIC	ARECIBO, PR	BLDTA20140225AAJ	43.1
	WTJX-TV	D36	DT	CP	CHARLOTTE AMALIE, VI	BLANK0000025655	192.4

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	13763.2	1,131,391	13018.1	922,764	12938.5	921,910	12932.9	919,284	0.04 0.28

Undesired				Total IX	Unique IX, before	Unique IX, after
W36EP-D D35 LD LIC	5.7			2,626		5.7 2,626
WCCV-TV D35 DT CP	74.2			0	72.2 0	72.2 0
WIMN-CD D36 DC LIC	3.0			26	0.5 0	0.5 0
WTJX-TV D36 DT CP	4.9			854	4.4 828	4.4 828

Interference to proposal scenario 1
9.16% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W36EP-D	D35	LD	LIC	YAUCO, PR	BLANK0000006960	
Undesireds:	WCCV-TV	D35	DT	CP	ARECIBO, PR	BLANK0000026046	22.9 km
	WIMN-CD	D36	DC	CP	ARECIBO, PR	BLANK0000036058	50.4
	WNTE-LD	D36	LD	LIC	MAYAGUEZ, PR	BLANK0000006958	19.2
	WVOZ-TV	D36	DT	CP	PONCE, PR	BLANK0000028456	10.7

	Service area		Terrain-limited		IX-free		Percent IX
	3530.8	457,665	2997.1	266,273	2547.3	241,885	15.01 9.16

Undesired				Total IX	Unique IX	Prcnt Unique IX
WCCV-TV D35 DT CP	68.3			1,970	8.6 105	0.29 0.04
WNTE-LD D36 LD LIC	257.4			11,200	31.3 6,326	1.04 2.38
WVOZ-TV D36 DT CP	397.3			16,373	164.8 12,921	5.50 4.85