

W36EP-D EXISTING FACILITY CH 36 POST REPACK TVSTUDY

tvstudy v2.2.5 (4uoc83)

Database: 127.0.0.1, Study: BLANK0000006960 #984, Model: Longley-Rice

Start: 2018.04.26 14:04:30

Study created: 2018.04.26 14:04:22

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

Proposal: W36EP-D D36 LD LIC YAUCO, PR

File number: BLANK0000006960

Facility ID: 188722

Station data: LMS TV 2018-04-25

Record ID: 25076f915117bf590151409f8d362060

Country: U.S.

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	W28EQ-D	N32+	TX	LIC	UTUADO, PR	BLTT19890703IC	29.3 km
Yes	WCCV-TV	D35	DT	CP	ARECIBO, PR	BLANK0000026046	22.9
No	WIMN-CD	D36	DC	CP	ARECIBO, PR	BLANK0000036058	50.4
No	WIMN-CD	D36	DC	LIC	ARECIBO, PR	BLDTA20140225AAJ	50.4
Yes	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	W29CB	D36	LD	CP	ST. THOMAS, VI	BDISDTL20091027ABC	200.9

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: D36

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: 15.0 kW
Antenna: ANT-ACS8A (ID 17788) 240.0 deg
Elev Pattn: Generic
Elec Tilt: 0.50

50.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	5.95 kW	-345.7 m	25.2 km
45.0	0.693	-326.9	15.2
90.0	0.794	80.6	25.6
135.0	10.1	209.6	48.5
180.0	14.1	196.7	49.5
225.0	14.1	200.0	49.6
270.0	13.0	146.1	45.9
315.0	14.6	-176.2	29.3

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 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	D36	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	17496.6 2,562,474 0.00 0.00
Undesired			Total IX		Unique IX, before		Unique IX, after
W36EP-D D36 LD LIC	140.2		2,390		0.7		2
WIDP D34 DT CP	10.3		4,847		10.1 4,828		10.1 4,828
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		649.0 32,289

Interference to BLANK0000026046 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCCV-TV	D35	DT	CP	ARECIBO, PR	BLANK0000026046	
Undesireds:	W36EP-D	D36	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	17475.9 2,556,515 0.00 0.00
Undesired			Total IX		Unique IX, before		Unique IX, after
W36EP-D D36 LD LIC	140.2		2,390		0.7		2
WIDP D34 DT CP	10.3		4,847		10.1 4,828		10.1 4,828
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		648.7 32,289

Interference to BLANK0000052871 APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WXWZ-LD	D36	LD	APP	GUAYAMA, PR	BLANK0000052871	
Undesireds:	W36EP-D	D36	LD	LIC	YAUCO, PR	BLANK0000006960	80.9 km
	WIMN-CD	D36	DC	CP	ARECIBO, PR	BLANK0000036058	67.0
	WVOZ-TV	D36	DT	CP	PONCE, PR	BLANK0000028456	70.6
	WTJX-TV	D36	DT	CP	CHARLOTTE AMALIE, VI	BLANK0000025655	122.0
	W29CB	D36	LD	CP	ST. THOMAS, VI	BDISDTL20091027ABC	120.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
7103.8	2,286,976	5719.3	1,784,179	4836.1	1,641,739	4835.8 1,641,739	0.01 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
W36EP-D	D36 LD LIC	0.5	0			0.2 0	
WIMN-CD	D36 DC CP	186.7	87,573	149.8	69,552	149.8 69,552	
WVOZ-TV	D36 DT CP	7.4	910	3.9	543	3.9 543	
WTJX-TV	D36 DT CP	726.6	72,076	348.9	47,914	348.9 47,914	
W29CB	D36 LD CP	353.1	6,570	3.0	269	3.0 269	

Interference to BLANK0000052871 APP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WXWZ-LD	D36	LD	APP	GUAYAMA, PR	BLANK0000052871	
Undesireds:	W36EP-D	D36	LD	LIC	YAUCO, PR	BLANK0000006960	80.9 km
	WIMN-CD	D36	DC	LIC	ARECIBO, PR	BLDTA20140225AAJ	67.0
	WVOZ-TV	D36	DT	CP	PONCE, PR	BLANK0000028456	70.6
	WTJX-TV	D36	DT	CP	CHARLOTTE AMALIE, VI	BLANK0000025655	122.0
	W29CB	D36	LD	CP	ST. THOMAS, VI	BDISDTL20091027ABC	120.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
7103.8	2,286,976	5719.3	1,784,179	4851.8	1,671,518	4851.6 1,671,518	0.01 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
W36EP-D	D36 LD LIC	0.5	0			0.2 0	
WIMN-CD	D36 DC LIC	160.1	55,096	134.0	39,773	134.0 39,773	
WVOZ-TV	D36 DT CP	7.4	910	3.9	543	3.9 543	
WTJX-TV	D36 DT CP	726.6	72,076	352.3	50,122	352.3 50,122	
W29CB	D36 LD CP	353.1	6,570	3.0	269	3.0 269	

Interference to BLANK0000006958 LIC scenario 1

**IX: 3.50% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WNTE-LD	D36	LD	LIC	MAYAGUEZ, PR	BLANK0000006958	
Undesireds:	W36EP-D	D36	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	4589.5 535,461 1.71 3.50

Undesired				Total IX	Unique IX, before		Unique IX, after
W36EP-D D36 LD LIC				3027.7	43,009	79.9	19,427
WCCV-TV D35 DT CP				38.6	8,471	20.4	2,448
WIMN-CD D36 DC CP				173.3	24,494	154.9	18,471
WVOZ-TV D36 DT CP				5576.2	46,103	5576.0	46,103
						2629.2	22,586

Interference to BLANK0000006958 LIC scenario 2

**IX: 3.48% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WNTE-LD	D36	LD	LIC	MAYAGUEZ, PR	BLANK0000006958	
Undesireds:	W36EP-D	D36	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	4593.5 539,997 1.71 3.48

Undesired				Total IX	Unique IX, before		Unique IX, after
W36EP-D D36 LD LIC				3027.7	43,009	80.1	19,461
WCCV-TV D35 DT CP				38.6	8,471	20.7	3,284
WIMN-CD D36 DC LIC				168.6	19,088	150.7	13,901
WVOZ-TV D36 DT CP				5576.2	46,103	5576.2	46,103
						2629.4	22,586

Interference to BLANK0000028456 CP scenario 1

**IX: 11.44% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVOZ-TV	D36	DT	CP	PONCE, PR	BLANK0000028456	
Undesireds:	W36EP-D	D36	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	7439.6 816,270 42.48 11.44
Undesired				Total IX	Unique IX, before		Unique IX, after
W36EP-D	D36	LD	LIC	5571.3	105,541	5493.7	105,494
WCCV-TV	D35	DT	CP	74.2	0	59.1	0
WIMN-CD	D36	DC	CP	21.7	172	5.7	146
WTJX-TV	D36	DT	CP	4.9	854	3.9	828

Interference to BLANK0000028456 CP scenario 2

**IX: 11.44% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVOZ-TV	D36	DT	CP	PONCE, PR	BLANK0000028456	
Undesireds:	W36EP-D	D36	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	7443.1 816,416 42.47 11.44
Undesired				Total IX	Unique IX, before		Unique IX, after
W36EP-D	D36	LD	LIC	5571.3	105,541	5495.4	105,494
WCCV-TV	D35	DT	CP	74.2	0	72.2	0
WIMN-CD	D36	DC	LIC	3.0	26	0.5	0
WTJX-TV	D36	DT	CP	4.9	854	4.4	828

Interference to proposal scenario 1

30.16% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W36EP-D	D36	LD	LIC	YAUCO, PR	BLANK0000006960	
Undesireds:	WIMN-CD	D36	DC	CP	ARECIBO, PR	BLANK0000036058	50.4 km
	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
4589.1	444,299	4115.9	284,226	1139.9	198,494	72.30	30.16

Undesired				Total IX		Unique IX	Prcnt Unique IX
WIMN-CD	D36	DC	CP	1.7	68	1.2	68
WNTE-LD	D36	LD	LIC	2860.1	61,244	71.3	6,926
WVOZ-TV	D36	DT	CP	2903.5	78,738	114.2	24,420
							2.77
							8.59

Interference to proposal scenario 2
30.14% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W36EP-D	D36	LD	LIC	YAUCO, PR	BLANK0000006960	
Undesireds:	WNTE-LD	D36	LD	LIC	MAYAGUEZ, PR	BLANK0000006958	19.2 km
	WVOZ-TV	D36	DT	CP	PONCE, PR	BLANK0000028456	10.7

	Service area		Terrain-limited		IX-free		Percent IX
4589.1	444,299	4115.9	284,226	1141.1	198,562	72.27	30.14

Undesired				Total IX		Unique IX	Prcnt Unique IX
WNTE-LD	D36	LD	LIC	2860.1	61,244	71.3	6,926
WVOZ-TV	D36	DT	CP	2903.5	78,738	114.6	24,420
							2.79
							8.59