

DISPLACEMENT QUALIFICATION OF W36EP-D

As shown in the included Post Repack TVStudy IX analysis of the existing facility of W36EP-D on Channel 36, it will cause impermissible interference of 11.44% to Full Service station WVOZ-TV, and is predicted to receive an IX level of 30.1%, thus the station qualifies for displacement application. The proposed new site is located 6.4 miles from the presently licensed site of W36EP-D.

As shown in the included Pre-Repack TVStudy interference analysis, the proposed W36EP-D facility on CH 35 is predicted to cause impermissible interference of 11.8% to WIPM-TV, CH 35. As shown in the Post Repack TVStudy interference analysis, no impermissible interference is predicted to any Class A or Full service station, thus this displacement application and its grant is conditioned to TV stations in Puerto Rico, and specifically WIPM-TV, completing their transition to their post repack channels; waiver of the FCC rules for the conditional CP grant is hereby requested.

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

Desired:	Call WXWZ-LD	Chan D36	Svc LD	Status APP	City, State GUAYAMA, PR	File Number BLANK0000052871	Distance
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

Desired:	Call WXWZ-LD	Chan D36	Svc LD	Status APP	City, State GUAYAMA, PR	File Number BLANK0000052871	Distance
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	0
WIMN-CD D36 DC CP		21.7		172	5.7	146	3.4 146
WTJX-TV D36 DT CP		4.9		854	3.9	828	3.4 781

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	0
WIMN-CD D36 DC LIC		3.0		26	0.5	0	0
WTJX-TV D36 DT CP		4.9		854	4.4	828	3.4 781

Interference to proposal scenario 1

30.16% interference received

Desired:	Call W36EP-D	Chan D36	Svc LD	Status LIC	City, State YAUCO, PR	File Number BLANK0000006960	Distance
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

Interference to proposal scenario 2
30.14% interference received

Desired:	Call W36EP-D	Chan D36	Svc LD	Status LIC	City, State YAUCO, PR	File Number BLANK0000006960	Distance
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

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

tvstudy v2.2.5 (4uoc83)

Database: 127.0.0.1, Study: BLANK0000006960 #989, Model: Longley-Rice

Start: 2018.04.27 12:08:21

Study created: 2018.04.27 12:08:20

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: 434

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	55.9 km
No	W28EQ-D	N32+	TX	LIC	UTUADO, PR	BLTT19890703IC	22.8
Yes	WELU	D34	DT	LIC	AGUADILLA, PR	BLANK0000001308	26.7
Yes	WIDP	D34	DT	CP	GUAYAMA, PR	BLANK0000025304	97.2
No	WWKQ-LD	D34-	LD	APP	QUEBRADILLAS, PR	BLANK0000051821	48.4
No	W34ED-D	D34	LD	LIC	TRUJILLO ALTO, PR	BLDTL20140404AAY	70.8
No	W34DY-D	D34	LD	LIC	VIEQUES, PR	BLANK0000010492	138.3
Yes	WCCV-TV	D35	DT	CP	ARECIBO, PR	BLANK0000026046	17.3
Yes	WIPM-TV	D35	DT	LIC	MAYAGUEZ, PR	BLEDT20060627ACQ	26.0
No	WIMN-CD	D36	DC	CP	ARECIBO, PR	BLANK0000036058	43.2
No	WIMN-CD	D36	DC	LIC	ARECIBO, PR	BLDTA20140225AAJ	43.2
No	WXWZ-LD	D36	LD	APP	GUAYAMA, PR	BLANK0000052871	70.8
Yes	WNTE-LD	D36	LD	LIC	MAYAGUEZ, PR	BLANK0000006958	26.0
Yes	WVOZ-TV	D36	DT	CP	PONCE, PR	BLANK0000028456	0.2
No	WTJX-TV	D36	DT	CP	CHARLOTTE AMALIE, VI	BLANK0000025655	192.6
No	WIVE-LP	N42-	TX	LIC	CEIBA, PR	BLTTL20030128ABW	116.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D35
Mask: Full Service
Latitude: 18 4 40.90 N (NAD83)
Longitude: 66 44 54.60 W
Height AMSL: 665.0 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	-71.6 m	13.8 km
45.0	0.552	-89.7	14.6
90.0	7.92	421.5	58.0
135.0	4.22	550.0	58.3
180.0	1.30	630.4	52.6
225.0	4.22	567.0	58.7
270.0	7.92	443.5	58.9
315.0	0.552	-97.3	14.6

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 294 m

Distance to Canadian border: 2967.6 km

Distance to Mexican border: 3222.2 km

Conditions at FCC monitoring station: Santa Isabel PR

Bearing: 101.5 degrees Distance: 40.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 311.9 degrees Distance: 4416.0 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

**IX: 4.86% interference caused

	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	26.7 km
	WRUA	D33	DT	LIC	FAJARDO, PR	BLCDT20090610ABH	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	25604.8 1,155,304	0.33 4.86
Undesired		Total IX		Unique IX, before		Unique IX, after	
W36EP-D	D35 LD LIC	111.2	66,854	85.1	59,076		
WRUA	D33 DT LIC	45.3	19,570	42.6	17,492		
WIPM-TV	D35 DT LIC	314.0	68,950	311.3	66,872	285.2	59,094

Interference to BLANK0000025304 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WIDP	D34	DT	CP	GUAYAMA, PR	BLANK0000025304	
Undesireds:	W36EP-D	D35	LD	LIC	YAUCO, PR	BLANK0000006960	97.2 km
	WJWN-TV	D33	DT	CP	SAN SEBASTIAN, PR	BLANK0000027870	120.2
	WCCV-TV	D35	DT	CP	ARECIBO, PR	BLANK0000026046	95.9
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
24002.1	2,561,120	21754.5	2,325,306	21502.2	2,319,202	21498.9 2,319,202	0.01 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
W36EP-D	D35 LD LIC	16.0	0	3.2	0		

WJWN-TV D33 DT CP	238.3	0	238.3	0	225.5	0
WCCV-TV D35 DT CP	14.0	6,104	14.0	6,104	14.0	6,104

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	17.3 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	16707.9	2,549,865
				4.51	0.49

Undesired	Total IX	Unique IX, before	Unique IX, after
W36EP-D D35 LD LIC	1581.3	47,385	789.4
WIDP D34 DT CP	10.3	4,847	10.1
WIMN-CD D36 DC CP	14.8	3,011	14.5
WVOZ-TV D36 DT CP	788.4	34,677	788.4
			2,992
			14.0
			2,985
			2.2
			74

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	D35	LD	LIC	YAUCO, PR	BLANK0000006960	17.3 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	16687.5	2,543,906
				4.52	0.49

Undesired	Total IX	Unique IX, before	Unique IX, after
W36EP-D D35 LD LIC	1581.3	47,385	789.2
WIDP D34 DT CP	10.3	4,847	10.1
WIMN-CD D36 DC LIC	35.7	8,970	35.2
WVOZ-TV D36 DT CP	788.4	34,677	788.2
			4,828
			5.2
			4,683
			34.5
			8,944
			2.2
			74

Interference to BLEDT20060627ACQ LIC scenario 1

**IX: 11.08% 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	26.0 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	41147.8 1,632,848	5.87 11.08
Undesired				Total IX	Unique IX, before	Unique IX, after	
W36EP-D D35 LD LIC				2566.6 203,854		2565.6 203,423	
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	56.8 22,372	

Interference to BLEDT20060627ACQ LIC scenario 2

**IX: 11.79% 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	26.0 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	40901.9 1,521,297	5.90 11.79
Undesired				Total IX	Unique IX, before	Unique IX, after	
W36EP-D D35 LD LIC				2566.6 203,854		2565.3 203,407	
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	302.8 133,923	

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	26.0 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	4669.1	554,876	0.01	0.00

Undesired				Total IX	Unique IX, before	Unique IX, after
W36EP-D D35 LD LIC	3.0			125		0.2 12
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	5573.3 45,990

Interference to BLANK0000006958 LIC scenario 2

	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	26.0 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	4673.4	559,446	0.01	0.00

Undesired				Total IX	Unique IX, before	Unique IX, after
W36EP-D D35 LD LIC	3.0			125		0.2 12
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	5573.5 45,990

Interference to BLANK0000028456 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVOZ-TV	D36	DT	CP	PONCE, PR	BLANK0000028456	
Undesireds:	W36EP-D	D35	LD	LIC	YAUCO, PR	BLANK0000006960	0.2 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	12925.0	920,719	0.06	0.11

Undesired		Total IX		Unique IX, before		Unique IX, after	
W36EP-D D35 LD LIC	8.9	1,186				8.4	1,045
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	5.2	5
WTJX-TV D36 DT CP	4.9	854		3.9	828	3.9	828

Interference to BLANK0000028456 CP scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WVOZ-TV	D36	DT	CP	PONCE, PR	BLANK0000028456	
Undesireds:	W36EP-D	D35	LD	LIC	YAUCO, PR	BLANK0000006960	0.2 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	12929.7	920,724	0.07	0.13

Undesired		Total IX		Unique IX, before		Unique IX, after	
W36EP-D D35 LD LIC	8.9	1,186				8.9	1,186
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
3.36% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W36EP-D	D35	LD	LIC	YAUCO, PR	BLANK0000006960	
Undesireds:	WCCV-TV	D35	DT	CP	ARECIBO, PR	BLANK0000026046	17.3 km
	WIMN-CD	D36	DC	CP	ARECIBO, PR	BLANK0000036058	43.2
	WNTE-LD	D36	LD	LIC	MAYAGUEZ, PR	BLANK0000006958	26.0
	WVOZ-TV	D36	DT	CP	PONCE, PR	BLANK0000028456	0.2

Service area		Terrain-limited			IX-free		Percent IX
6652.9	697,478	6247.0	578,351	5836.0	558,914	6.58	3.36
Undesired			Total IX		Unique IX	Prcnt Unique IX	
WCCV-TV D35 DT CP		342.3	4,354	284.6	1,569	4.56	0.27
WNTE-LD D36 LD LIC		118.8	15,763	60.9	13,016	0.97	2.25
WVOZ-TV D36 DT CP		8.4	2,914	7.2	1,258	0.11	0.22

W36EP-D PROPOSED FACILITY ON CH 35 POST REPACK TVSTUDY

tvstudy v2.2.5 (4uoc83)

Database: 127.0.0.1, Study: BLANK0000006960 #990, Model: Longley-Rice

Start: 2018.04.27 12:09:20

Study created: 2018.04.27 12:09:20

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: 434

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	WPRU-LP	N20z	TX	LIC	AQUADILLA, PR	BLTTL20101020ABE	55.9 km
No	W28EQ-D	N32+	TX	LIC	UTUADO, PR	BLTT19890703IC	22.8
Yes	WIDP	D34	DT	CP	GUAYAMA, PR	BLANK0000025304	97.2
No	WWKQ-LD	D34-	LD	APP	QUEBRADILLAS, PR	BLANK0000051821	48.4
No	W34ED-D	D34	LD	LIC	TRUJILLO ALTO, PR	BLDTL20140404AAY	70.8
No	W34DY-D	D34	LD	LIC	VIEQUES, PR	BLANK0000010492	138.3
Yes	WCCV-TV	D35	DT	CP	ARECIBO, PR	BLANK0000026046	17.3
No	WIMN-CD	D36	DC	CP	ARECIBO, PR	BLANK0000036058	43.2
No	WIMN-CD	D36	DC	LIC	ARECIBO, PR	BLDTA20140225AAJ	43.2
No	WXWZ-LD	D36	LD	APP	GUAYAMA, PR	BLANK0000052871	70.8
Yes	WNTE-LD	D36	LD	LIC	MAYAGUEZ, PR	BLANK0000006958	26.0
Yes	WVOZ-TV	D36	DT	CP	PONCE, PR	BLANK0000028456	0.2
No	WTJX-TV	D36	DT	CP	CHARLOTTE AMALIE, VI	BLANK0000025655	192.6
No	WIVE-LP	N42-	TX	LIC	CEIBA, PR	BLTTL20030128ABW	116.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D35
Mask: Full Service
Latitude: 18 4 40.90 N (NAD83)
Longitude: 66 44 54.60 W
Height AMSL: 665.0 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	-71.6 m	13.8 km
45.0	0.552	-89.7	14.6
90.0	7.92	421.5	58.0
135.0	4.22	550.0	58.3
180.0	1.30	630.4	52.6
225.0	4.22	567.0	58.7
270.0	7.92	443.5	58.9
315.0	0.552	-97.3	14.6

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 294 m

Distance to Canadian border: 2967.6 km

Distance to Mexican border: 3222.2 km

Conditions at FCC monitoring station: Santa Isabel PR

Bearing: 101.5 degrees Distance: 40.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 311.9 degrees Distance: 4416.0 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 BLANK0000025304 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WIDP	D34	DT	CP	GUAYAMA, PR	BLANK0000025304	
Undesireds:	W36EP-D	D35	LD	LIC	YAUCO, PR	BLANK0000006960	97.2 km
	WJWN-TV	D33	DT	CP	SAN SEBASTIAN, PR	BLANK0000027870	120.2
	WCCV-TV	D35	DT	CP	ARECIBO, PR	BLANK0000026046	95.9

	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX					
	24002.1	2,561,120	21754.5	2,325,306	21502.2	2,319,202	21498.9	2,319,202	0.01	0.00

Undesired	Total IX	Unique IX, before	Unique IX, after			
W36EP-D D35 LD LIC	16.0	0	3.2	0		
WJWN-TV D33 DT CP	238.3	0	238.3	0	225.5	0
WCCV-TV D35 DT CP	14.0	6,104	14.0	6,104	14.0	6,104

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	17.3 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	16707.9	2,549,865	4.51	0.49

Undesired	Total IX	Unique IX, before	Unique IX, after			
W36EP-D D35 LD LIC	1581.3	47,385	789.4	12,611		
WIDP D34 DT CP	10.3	4,847	10.1	4,828	5.2	4,683
WIMN-CD D36 DC CP	14.8	3,011	14.5	2,992	14.0	2,985
WVOZ-TV D36 DT CP	788.4	34,677	788.4	34,677	2.2	74

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	D35	LD	LIC	YAUCO, PR	BLANK0000006960	17.3 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	16687.5	2,543,906	4.52	0.49
Undesired		Total IX		Unique IX, before		Unique IX, after			
W36EP-D	D35 LD LIC	1581.3	47,385			789.2	12,611		
WIDP	D34 DT CP	10.3	4,847	10.1	4,828	5.2	4,683		
WIMN-CD	D36 DC LIC	35.7	8,970	35.2	8,951	34.5	8,944		
WVOZ-TV	D36 DT CP	788.4	34,677	788.2	34,677	2.2	74		

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	26.0 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	4669.1	554,876	0.01 0.00
Undesired				Total IX	Unique IX, before		Unique IX, after		
W36EP-D	D35	LD	LIC	3.0	125		0.2	12	
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	5573.3	45,990

Interference to BLANK0000006958 LIC scenario 2

Call	Chan	Svc	Status	City, State	File Number	Distance
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Desired:	WNTE-LD	D36	LD	LIC	MAYAGUEZ, PR	BLANK0000006958	
Undesireds:	W36EP-D	D35	LD	LIC	YAUCO, PR	BLANK0000006960	26.0 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	4673.4	559,446	0.01 0.00

Undesired				Total IX	Unique IX, before	Unique IX, after
W36EP-D D35 LD LIC		3.0		125		0.2 12
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	5573.5 45,990

Interference to BLANK0000028456 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVOZ-TV	D36	DT	CP	PONCE, PR	BLANK0000028456	
Undesireds:	W36EP-D	D35	LD	LIC	YAUCO, PR	BLANK0000006960	0.2 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	12925.0	920,719	0.06 0.11

Undesired				Total IX	Unique IX, before	Unique IX, after
W36EP-D D35 LD LIC		8.9		1,186		8.4 1,045
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	5.2 5
WTJX-TV D36 DT CP		4.9		854	3.9 828	3.9 828

Interference to BLANK0000028456 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVOZ-TV	D36	DT	CP	PONCE, PR	BLANK0000028456	
Undesireds:	W36EP-D	D35	LD	LIC	YAUCO, PR	BLANK0000006960	0.2 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	12929.7 920,724	0.07 0.13

Undesired	Total IX	Unique IX, before	Unique IX, after
W36EP-D D35 LD LIC	8.9 1,186	8.9 1,186	
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
3.36% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W36EP-D	D35	LD	LIC	YAUCO, PR	BLANK0000006960	
Undesireds:	WCCV-TV	D35	DT	CP	ARECIBO, PR	BLANK0000026046	17.3 km
	WIMN-CD	D36	DC	CP	ARECIBO, PR	BLANK0000036058	43.2
	WNTE-LD	D36	LD	LIC	MAYAGUEZ, PR	BLANK0000006958	26.0
	WVOZ-TV	D36	DT	CP	PONCE, PR	BLANK0000028456	0.2

Service area	Terrain-limited	IX-free	Percent IX
6652.9 697,478	6247.0 578,351	5836.0 558,914	6.58 3.36

Undesired	Total IX	Unique IX	Prcnt Unique IX
WCCV-TV D35 DT CP	342.3 4,354	284.6 1,569	4.56 0.27
WNTE-LD D36 LD LIC	118.8 15,763	60.9 13,016	0.97 2.25
WVOZ-TV D36 DT CP	8.4 2,914	7.2 1,258	0.11 0.22