

tvstudy v2.2.4 (Z2Qqz3)

Database: 127.0.0.1, Study: BLDTL20140404AAW (481), Model: Longley-Rice

Start: 2017.12.17 21:14:24

Study created: 2017.12.17 21:14:24

Study build station data: LMS TV 2017-12-16 (47)

Proposal: W17DL-D D17 LD LIC TOA BAJA, PR

File number: BLDTL20140404AAW

Facility ID: 181820

Station data: User record

Record ID: 141

Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	WRUA	D16	DT	CP	FAJARDO, PR	BLANK0000025646	33.5 km
Yes	WMTJ	D16	DT	LIC	FAJARDO, PR	BLEDT20130708ABV	33.4
No	WQQZ-CD	D16	DC	CP	PONCE, PR	BLANK0000028131	71.2
No	W16CW-D	D16	LD	LIC	VILLALBA, PR	BLDTL20140916ACI	48.9
Yes	WVEO	D17	DT	LIC	AGUADILLA, PR	BLCDT20071116ACV	112.8
Yes	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	123.0
No	WSJP-LD	D18	LD	LIC	AQUADILLA, PR	BLDTL20120626AAB	110.8
No	W18DZ-D	D18	LD	LIC	CEIBA, PR	BLANK0000008489	46.0
Yes	WECN	D18	DT	LIC	NARANJITO, PR	BLCDT20090610ABG	16.6
No	W18DQ-D	D18	LD	LIC	SANTA ISABEL, PR	BLANK0000010493	63.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D17

Mask: Full Service

Latitude: 18 16 42.70 N (NAD83)

Longitude: 66 6 36.50 W

Height AMSL: 547.0 m

HAAT: 0.0 m

Peak ERP: 15.0 kW

Antenna: MCX-7681 9.0 deg

Elev Pattn: Generic

Elec Tilt: 1.50

49.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	14.5 kW	480.2 m	66.3 km
45.0	12.0	431.9	63.4
90.0	0.013	435.3	23.7
135.0	0.013	392.9	22.7
180.0	0.013	139.5	13.6
225.0	0.013	112.5	12.3
270.0	0.013	173.7	15.0
315.0	4.84	454.6	58.8

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 328 m

Distance to Canadian border: 2946.2 km

Distance to Mexican border: 3277.2 km

Conditions at FCC monitoring station: Santa Isabel PR

Bearing: 222.7 degrees Distance: 41.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 311.4 degrees Distance: 4451.5 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

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 BLANK0000025646 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WRUA	D16	DT	CP	FAJARDO, PR	BLANK0000025646			
Undesireds:	W17DL-D	D17	LD	LIC	TOA BAJA, PR	BLDTL20140404AAW	33.5 km		
	WMTJ	D15	DT	CP	FAJARDO, PR	BLANK0000028080	0.1		
	WQQZ-CD	D16	DC	CP	PONCE, PR	BLANK0000028131	104.2		
	WVEO	D17	DT	LIC	AGUADILLA, PR	BLCDT20071116ACV	146.0		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
27215.0	2,904,896	25700.2	2,600,738	25064.2	2,588,560	25061.0	2,585,906	0.01	0.10
Undesired				Total IX		Unique IX, before		Unique IX, after	
W17DL-D	D17	LD	LIC	3.2	2,654	3.2	2,654		
WMTJ	D15	DT	CP	50.5	11,941	30.8	11,941	30.8	11,941
WQQZ-CD	D16	DC	CP	604.3	237	584.5	237	584.5	237
WVEO	D17	DT	LIC	1.0	0	1.0	0	1.0	0

Interference to BLANK0000025646 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WRUA	D16	DT	CP	FAJARDO, PR	BLANK0000025646	
Undesireds:	W17DL-D	D17	LD	LIC	TOA BAJA, PR	BLDTL20140404AAW	33.5 km
	WMTJ	D15	DT	CP	FAJARDO, PR	BLANK0000028080	0.1
	WQQZ-CD	D16	DC	BL	PONCE, PR	DTVBL32142	104.1
	WVEO	D17	DT	LIC	AGUADILLA, PR	BLCDT20071116ACV	146.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
27215.0	2,904,896	25700.2	2,600,738	25064.2	2,588,560	25061.0	2,585,906	0.01	0.10

Undesired	Total IX	Unique IX, before	Unique IX, after
W17DL-D D17 LD LIC	3.2 2,654	3.2 2,654	
WMTJ D15 DT CP	50.5 11,941	31.0 11,941	
WQQZ-CD D16 DC BL	604.0 237	584.5 237	
WVEO D17 DT LIC	1.0 0	1.0 0	

Interference to BLANK0000025646 CP scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WRUA	D16	DT	CP	FAJARDO, PR	BLANK0000025646	
Undesireds:	W17DL-D	D17	LD	LIC	TOA BAJA, PR	BLDTL20140404AAW	33.5 km
	WMTJ	D15	DT	BL	FAJARDO, PR	DTVBL2174	0.1
	WQQZ-CD	D16	DC	CP	PONCE, PR	BLANK0000028131	104.2
	WVEO	D17	DT	LIC	AGUADILLA, PR	BLCDT20071116ACV	146.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
27215.0	2,904,896	25700.2	2,600,738	25063.4	2,588,762	25060.2	2,586,108	0.01	0.10

Undesired	Total IX	Unique IX, before	Unique IX, after
W17DL-D D17 LD LIC	3.2 2,654	3.2 2,654	
WMTJ D15 DT BL	51.8 11,739	31.5 11,739	
WQQZ-CD D16 DC CP	604.3 237	584.0 237	
WVEO D17 DT LIC	1.0 0	1.0 0	

Interference to BLANK0000025646 CP scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WRUA	D16	DT	CP	FAJARDO, PR	BLANK0000025646	
Undesireds:	W17DL-D	D17	LD	LIC	TOA BAJA, PR	BLDTL20140404AAW	33.5 km
	WMTJ	D15	DT	BL	FAJARDO, PR	DTVBL2174	0.1
	WQQZ-CD	D16	DC	BL	PONCE, PR	DTVBL32142	104.1

WVEO D17 DT LIC AGUADILLA, PR BLCDT20071116ACV 146.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
27215.0	2,904,896	25700.2	2,600,738	25063.4	2,588,762	25060.2	2,586,108	0.01	0.10

Undesired	Total IX	Unique IX, before	Unique IX, after
W17DL-D D17 LD LIC 3.2 2,654	3.2	2,654	
WMTJ D15 DT BL 51.8 11,739	31.8	11,739	31.8 11,739
WQQZ-CD D16 DC BL 604.0 237	584.0	237	584.0 237
WVEO D17 DT LIC 1.0 0	1.0	0	1.0 0

Interference to BLEDT20130708ABV LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WMTJ	D16	DT	LIC	FAJARDO, PR	BLEDT20130708ABV	
Undesireds:	W17DL-D	D17	LD	LIC	TOA BAJA, PR	BLDTL20140404AAW	33.4 km
	WTIN-TV	D15	DT	LIC	PONCE, PR	BLCDT20081029ABZ	84.0
	WRUA	D16	DT	CP	FAJARDO, PR	BLANK0000025646	0.1
	WQQZ-CD	D16	DC	CP	PONCE, PR	BLANK0000028131	104.1
	WVEO	D17	DT	LIC	AGUADILLA, PR	BLCDT20071116ACV	146.0
	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	89.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
34000.3	3,141,811	32755.2	2,882,097	4561.3	927,057	4561.1	926,874	0.01	0.02

Undesired	Total IX	Unique IX, before	Unique IX, after
W17DL-D D17 LD LIC 0.7 186	0.7	186	0.2 183
WTIN-TV D15 DT LIC 1284.9 82,607	17.2	2,363	17.2 2,363
WRUA D16 DT CP 28080.9 1,951,021	26492.3	1,867,025	26491.8 1,867,022
WQQZ-CD D16 DC CP 1515.7 46,145	62.0	1,216	62.0 1,216
WVEO D17 DT LIC 11.3 927	1.2	47	1.2 47
WVXF D17 DT LIC 4.2 1,077	0.0	0	0.0 0

Interference to BLCDT20071116ACV LIC scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
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Desired:	WVEO	D17	DT	LIC	AGUADILLA, PR	BLCDT20071116ACV	
Undesireds:	W17DL-D	D17	LD	LIC	TOA BAJA, PR	BLDTL20140404AAW	112.8 km
	WRUA	D16	DT	CP	FAJARDO, PR	BLANK0000025646	146.0
	WQQZ-CD	D16	DC	CP	PONCE, PR	BLANK0000028131	52.4
	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	235.4
	WECN	D18	DT	LIC	NARANJITO, PR	BLCDT20090610ABG	96.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
17642.0	1,152,154	16841.1	956,337	16775.4	947,202	16130.8	942,497	3.84	0.50

Undesired		Total IX		Unique IX, before		Unique IX, after	
W17DL-D	D17 LD LIC	676.6	8,586			644.7	4,705
WRUA	D16 DT CP	20.7	4,334	8.4	2,383	5.9	1,596
WQQZ-CD	D16 DC CP	4.9	0	4.7	0	4.7	0
WVXF	D17 DT LIC	0.2	0	0.0	0	0.0	0
WECN	D18 DT LIC	52.4	6,752	40.1	4,801	17.0	2,880

Interference to BLCDT20071116ACV LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVEO	D17	DT	LIC	AGUADILLA, PR	BLCDT20071116ACV	
Undesireds:	W17DL-D	D17	LD	LIC	TOA BAJA, PR	BLDTL20140404AAW	112.8 km
	WRUA	D16	DT	CP	FAJARDO, PR	BLANK0000025646	146.0
	WQQZ-CD	D16	DC	BL	PONCE, PR	DTVBL32142	52.4
	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	235.4
	WECN	D18	DT	LIC	NARANJITO, PR	BLCDT20090610ABG	96.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
17642.0	1,152,154	16841.1	956,337	16691.5	947,129	16046.8	942,424	3.86	0.50

Undesired		Total IX		Unique IX, before		Unique IX, after	
W17DL-D	D17 LD LIC	676.6	8,586			644.7	4,705
WRUA	D16 DT CP	20.7	4,334	8.4	2,383	5.9	1,596
WQQZ-CD	D16 DC BL	88.9	73	88.6	73	88.6	73
WVXF	D17 DT LIC	0.2	0	0.0	0	0.0	0
WECN	D18 DT LIC	52.4	6,752	40.1	4,801	17.0	2,880

Interference to BLCDT20071116ACV LIC scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WVEO	D17	DT	LIC	AGUADILLA, PR	BLCDT20071116ACV			
Undesireds:	W17DL-D	D17	LD	LIC	TOA BAJA, PR	BLDTL20140404AAW	112.8 km		
	WRUA	D16	DT	BL	FAJARDO, PR	DTVBL15320	146.0		
	WQQZ-CD	D16	DC	CP	PONCE, PR	BLANK0000028131	52.4		
	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	235.4		
	WECN	D18	DT	LIC	NARANJITO, PR	BLCDT20090610ABG	96.2		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
17642.0	1,152,154	16841.1		956,337	16775.2	947,160	16130.5	942,455	3.84 0.50
Undesired				Total IX		Unique IX, before		Unique IX, after	
W17DL-D	D17	LD	LIC	676.6	8,586		644.7	4,705	
WRUA	D16	DT	BL	21.2	4,457	8.6 2,425	6.2	1,638	
WQQZ-CD	D16	DC	CP	4.9	0	4.7 0	4.7	0	
WVXF	D17	DT	LIC	0.2	0	0.0 0	0.0	0	
WECN	D18	DT	LIC	52.4	6,752	39.8 4,720	17.0	2,880	

Interference to BLCDT20071116ACV LIC scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WVEO	D17	DT	LIC	AGUADILLA, PR	BLCDT20071116ACV			
Undesireds:	W17DL-D	D17	LD	LIC	TOA BAJA, PR	BLDTL20140404AAW	112.8 km		
	WRUA	D16	DT	BL	FAJARDO, PR	DTVBL15320	146.0		
	WQQZ-CD	D16	DC	BL	PONCE, PR	DTVBL32142	52.4		
	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	235.4		
	WECN	D18	DT	LIC	NARANJITO, PR	BLCDT20090610ABG	96.2		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
17642.0	1,152,154	16841.1		956,337	16691.3	947,087	16046.6	942,382	3.86 0.50
Undesired				Total IX	Unique IX, before		Unique IX, after		

W17DL-D D17 LD LIC	676.6	8,586			644.7	4,705
WRUA D16 DT BL	21.2	4,457	8.6	2,425	6.2	1,638
WQQZ-CD D16 DC BL	88.9	73	88.6	73	88.6	73
WVXF D17 DT LIC	0.2	0	0.0	0	0.0	0
WECN D18 DT LIC	52.4	6,752	39.8	4,720	17.0	2,880

Interference to BLCDT20090623ABB LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	
Undesireds:	W17DL-D	D17	LD	LIC	TOA BAJA, PR	BLDTL20140404AAW	123.0 km
	WRUA	D16	DT	CP	FAJARDO, PR	BLANK0000025646	89.6
	WVEO	D17	DT	LIC	AGUADILLA, PR	BLCDT20071116ACV	235.4

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
11226.5	84,402	11066.6	79,469	11050.8	79,469	10737.5	79,469	2.84	0.00

Undesired			Total IX		Unique IX, before		Unique IX, after	
W17DL-D D17 LD LIC	313.4	0			313.4	0		
WRUA D16 DT CP	5.7	0	5.7	0	5.7	0		
WVEO D17 DT LIC	10.1	0	10.1	0	10.1	0		

Interference to BLCDT20090623ABB LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	
Undesireds:	W17DL-D	D17	LD	LIC	TOA BAJA, PR	BLDTL20140404AAW	123.0 km
	WRUA	D16	DT	BL	FAJARDO, PR	DTVBL15320	89.6
	WVEO	D17	DT	LIC	AGUADILLA, PR	BLCDT20071116ACV	235.4

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
11226.5	84,402	11066.6	79,469	11050.8	79,469	10737.5	79,469	2.84	0.00

Undesired			Total IX		Unique IX, before		Unique IX, after	
W17DL-D D17 LD LIC	313.4	0			313.4	0		

WRUA D16 DT BL	5.7	0	5.7	0	5.7	0
WVEO D17 DT LIC	10.1	0	10.1	0	10.1	0

Interference to BLCDT20090610ABG LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WECN	D18	DT	LIC	NARANJITO, PR	BLCDT20090610ABG	
Undesireds:	W17DL-D	D17	LD	LIC	TOA BAJA, PR	BLDTL20140404AAW	16.6 km
	WVEO	D17	DT	LIC	AGUADILLA, PR	BLCDT20071116ACV	96.2
	WQTO	D19	DD	CP	PONCE, PR	BLANK0000028318	56.1

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
	14279.5	2,887,611	13334.9	2,642,485	13321.4	2,640,274	13305.6	2,633,726	0.12	0.25

Undesired			Total IX		Unique IX, before		Unique IX, after	
W17DL-D D17 LD LIC	15.8		6,548				15.8	6,548
WVEO D17 DT LIC	11.1		1,860		10.8	1,860	10.8	1,860
WQTO D19 DD CP	2.7		351		2.5	351	2.5	351

Interference to BLCDT20090610ABG LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WECN	D18	DT	LIC	NARANJITO, PR	BLCDT20090610ABG	
Undesireds:	W17DL-D	D17	LD	LIC	TOA BAJA, PR	BLDTL20140404AAW	16.6 km
	WVEO	D17	DT	LIC	AGUADILLA, PR	BLCDT20071116ACV	96.2
	WQTO	D19	DD	BL	PONCE, PR	DTVBL2175	56.1

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
	14279.5	2,887,611	13334.9	2,642,485	13321.6	2,640,274	13305.8	2,633,726	0.12	0.25

Undesired			Total IX		Unique IX, before		Unique IX, after	
W17DL-D D17 LD LIC	15.8		6,548				15.8	6,548
WVEO D17 DT LIC	11.1		1,860		10.8	1,860	10.8	1,860
WQTO D19 DD BL	2.5		351		2.2	351	2.2	351

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W17DL-D	D17	LD	LIC	TOA BAJA, PR	BLDTL20140404AAW	
Undesireds:	WRUA	D16	DT	CP	FAJARDO, PR	BLANK0000025646	33.5 km
	WVEO	D17	DT	LIC	AGUADILLA, PR	BLCDT20071116ACV	112.8
	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	123.0
	W18DZ-D	D18	LD	LIC	CEIBA, PR	BLANK0000008489	46.0
	WECN	D18	DT	LIC	NARANJITO, PR	BLCDT20090610ABG	16.6

Service area		Terrain-limited		IX-free		Percent IX	
5443.1	1,769,033	5335.5	1,714,548	5281.1	1,698,346	1.02	0.94

Undesired	Total IX		Unique IX		Prcnt Unique IX	
WRUA D16 DT CP	8.9	6,338	4.7	3,451	0.09	0.20
WVEO D17 DT LIC	10.3	1,633	5.2	732	0.10	0.04
WVXF D17 DT LIC	11.8	4,435	10.6	2,443	0.20	0.14
W18DZ-D D18 LD LIC	6.2	0	1.7	0	0.03	0.00
WECN D18 DT LIC	28.0	8,569	22.4	5,789	0.42	0.34