

tvstudy v2.2.5 (4uoc83)  
Database: 127.0.0.1, Study: BLANK0000036597 #1618, Model: Longley-Rice  
Start: 2019.02.25 01:01:04

Study created: 2019.02.25 01:01:03

Study build station data: LMS TV 2019-02-15

Proposal: W17DL-D D17 LD EXP TOA BAJA, PR  
File number: BLANK0000036597  
Facility ID: 181820  
Station data: User record  
Record ID: 708  
Country: U.S.

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	W49CZ-D	D16	LD	CP	AGUADA, PR	BLANK0000053241	111.9 km
No	WRUA	D16	DT	CP	FAJARDO, PR	BLANK0000025646	33.5
No	WQQZ-CD	D16	DC	BL	PONCE, PR	DTVBL32142	71.2
No	W16CW-D	D16	LD	LIC	VILLALBA, PR	BLDTL20140916ACI	48.9
Yes	WVEO	D17	DT	APP	AGUADILLA, PR	BLANK0000067930	111.9
Yes	WVEO	D17	DT	LIC	AGUADILLA, PR	BLCDT20071116ACV	112.8
No	W32DV-D	D17	LD	CP	ARROYO, PR	BLANK0000053616	31.9
No	W32DV-D	D17	LD	APP	ARROYO, PR	BLANK0000067521	31.9
No	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
No	WECN	D18	DT	LIC	NARANJITO, PR	BLCDT20090610ABG	16.6
No	W18DQ-D	D18	LD	LIC	SANTA ISABEL, PR	BLANK0000010493	63.0
No	W18DQ-D	D18	LD	CP	SANTA ISABEL, PR	BLANK0000036646	62.7
No	W18DQ-D	D18	LD	APP	SANTA ISABEL, PR	BLANK0000064431	62.7
No	W24DO-D	D18	LD	CP	SION FARM, ST CROIX, VI	BLANK0000053905	150.4
No	WPRU-LP	N20z	TX	LIC	AQUADILLA, PR	BLTTL20101020ABE	110.8
No	WSJX-LP	N24z	TX	LIC	AQUADILLA, PR	BLTTL20050407AAH	110.8

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: 1.50 kW  
Antenna: SCALA 75010012 9.0 deg  
Elev Pattn: Generic  
Elec Tilt: 1.50

49.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	1.41 kW	480.2 m	52.1 km
45.0	0.587	431.9	45.3
90.0	0.005	435.3	19.1
135.0	0.008	392.9	20.2
180.0	0.018	139.5	14.8
225.0	0.003	112.5	8.3
270.0	0.006	173.7	12.3
315.0	0.191	454.6	39.1

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: 2.00 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%

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Interference to BLANK0000067930 APP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	WVEO	D17	DT	APP	AGUADILLA, PR	BLANK0000067930			
Undesireds:	W17DL-D	D17	LD	EXP	TOA BAJA, PR	BLANK0000036597	111.9 km		
	WRUA	D16	DT	CP	FAJARDO, PR	BLANK0000025646	145.1		
	WQQZ-CD	D16	DC	BL	PONCE, PR	DTVBL32142	52.1		
	WECN	D18	DT	LIC	NARANJITO, PR	BLCDT20090610ABG	95.4		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
15112.0		1,091,825		14254.7		912,128	14142.7		
						902,593	13975.0		
						901,412	1.19		
							0.13		
Undesired				Total IX	Unique IX, before	Unique IX, after			
W17DL-D D17 LD EXP				227.7	2,301	167.7	1,181		
WRUA D16 DT CP				12.0	3,052	4.0	449		
WQQZ-CD D16 DC BL				20.1	0	20.1	0		
WECN D18 DT LIC				87.9	9,086	79.9	6,483		
						20.0	5,363		

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Interference to BLCDT20071116ACV LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	WVEO	D17	DT	LIC	AGUADILLA, PR	BLCDT20071116ACV			
Undesireds:	W17DL-D	D17	LD	EXP	TOA BAJA, PR	BLANK0000036597	112.8 km		
	WRUA	D16	DT	CP	FAJARDO, PR	BLANK0000025646	146.0		
	WQQZ-CD	D16	DC	BL	PONCE, PR	DTVBL32142	52.4		
	WECN	D18	DT	LIC	NARANJITO, PR	BLCDT20090610ABG	96.2		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
17684.8		1,153,382		16735.3		916,310	16563.1		
						906,642	16347.4		
						906,184	1.30		
							0.05		
Undesired				Total IX	Unique IX, before	Unique IX, after			
W17DL-D D17 LD EXP				243.6	1,674	215.7	458		
WRUA D16 DT CP				20.0	4,027	4.0	167		
WQQZ-CD D16 DC BL				96.3	0	96.3	0		
WECN D18 DT LIC				72.0	9,501	56.0	5,641		
						32.0	5,534		

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Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W17DL-D	D17	LD	EXP	TOA BAJA, PR	BLANK0000036597	
Undesireds:	WRUA	D16	DT	CP	FAJARDO, PR	BLANK0000025646	33.5 km
	WVEO	D17	DT	APP	AGUADILLA, PR	BLANK0000067930	111.9
	W32DV-D	D17	LD	CP	ARROYO, PR	BLANK0000053616	31.9
	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	123.0
	WECN	D18	DT	LIC	NARANJITO, PR	BLCDT20090610ABG	16.6
	W18DQ-D	D18	LD	LIC	SANTA ISABEL, PR	BLANK0000010493	63.0

Service area	Terrain-limited	IX-free	Percent IX
2941.5 1,580,146	2849.5 1,540,246	2829.5 1,534,320	0.70 0.38
Undesired	Total IX	Unique IX	Prcnt Unique IX
WRUA D16 DT CP	8.0 2,696	0.0 0	0.00 0.00
WVEO D17 DT APP	4.0 2,378	0.0 0	0.00 0.00
WVXF D17 DT LIC	8.0 2,696	0.0 0	0.00 0.00
WECN D18 DT LIC	20.0 5,926	12.0 3,230	0.42 0.21

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Interference to proposal scenario 2

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: W17DL-D	D17	LD	EXP	TOA BAJA, PR	BLANK0000036597	
Undesireds: WRUA	D16	DT	CP	FAJARDO, PR	BLANK0000025646	33.5 km
WVEO	D17	DT	LIC	AGUADILLA, PR	BLCDT20071116ACV	112.8
W32DV-D	D17	LD	CP	ARROYO, PR	BLANK0000053616	31.9
WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	123.0
WECN	D18	DT	LIC	NARANJITO, PR	BLCDT20090610ABG	16.6
W18DQ-D	D18	LD	LIC	SANTA ISABEL, PR	BLANK0000010493	63.0

Service area	Terrain-limited	IX-free	Percent IX
2941.5 1,580,146	2849.5 1,540,246	2829.5 1,534,320	0.70 0.38
Undesired	Total IX	Unique IX	Prcnt Unique IX
WRUA D16 DT CP	8.0 2,696	0.0 0	0.00 0.00
WVEO D17 DT LIC	4.0 2,378	0.0 0	0.00 0.00
WVXF D17 DT LIC	8.0 2,696	0.0 0	0.00 0.00
WECN D18 DT LIC	20.0 5,926	12.0 3,230	0.42 0.21