

tvstudy v2.2.5 (4uoc83)  
Database: 127.0.0.1, Study: BLANK0000156038 #1315, Model: Longley-Rice  
Start: 2024.01.01 16:33:36

Study created: 2024.01.01 16:33:36

Study build station data: LMS TV 2023-12-27

Proposal: W18DZ-D D18 LD LIC. MOD. APP. ASRN 1283788  
File number: BLANK0000156038  
Facility ID: 183415  
Station data: User record  
Record ID: 787  
Country: U.S.

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WVEO	D17	DT	LIC	AGUADILLA, PR	BLANK0000125650	158.4 km
No	W17EA-D	D17	LD	LIC	ARROYO, PR	BLANK0000156040	54.9
No	W17DL-D	D17	LD	LIC	TOA BAJA, PR	BLANK0000130803	44.7
No	W17DL-D	D17	LD	CP	TOA BAJA, PR	BLANK0000218993	44.7
No	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	76.7
No	WSTN-LD	D18	LD	LIC	ISABELA-MAYAGUEZ, PR	BLANK0000213847	139.5
Yes	WECN	D18	DT	LIC	NARANJITO, PR	BLCDT20090610ABG	63.1
Yes	W18EN-D	D18	LD	LIC	SION FARM, ST CROIX, VI	BLANK0000214203	106.2
Yes	W19EP-D	D19	LD	LIC	CULEBRA, PR	BLANK0000156190	0.2
No	WQTO	D19	DD	LIC	PONCE, PR	BLANK0000082201	116.2
No	W19EY-D	D19	LD	LIC	TOA BAJA, PR	BLANK0000133282	44.7
No	W19EY-D	D19	LD	CP	TOA BAJA, PR	BLANK0000219028	44.7
No	WVGN-LD	D19	LD	LIC	CHARLOTTE AMALIE, VI	BLANK0000048749	76.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D18  
Mask: Full Service  
Latitude: 18 16 47.90 N (NAD83)  
Longitude: 65 40 9.00 W  
Height AMSL: 300.3 m

HAAT: 0.0 m  
Peak ERP: 3.00 kW  
Antenna: KAT-75010210 (ID 1003083) 140.0 deg  
Elev Pattn: Generic

49.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.006 kW	281.2 m	15.4 km
45.0	0.009	295.0	18.3
90.0	0.442	300.1	38.6
135.0	2.88	293.3	48.5
180.0	0.917	279.3	41.6
225.0	0.015	257.8	19.1
270.0	0.019	-236.9	7.0
315.0	0.022	188.2	18.0

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m    Computed HAAT: 207 m

Distance to Canadian border: 2947.3 km

Distance to Mexican border: 3320.7 km

Conditions at FCC monitoring station: Santa Isabel PR  
Bearing: 247.8 degrees    Distance: 80.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 311.2 degrees    Distance: 4486.3 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: 0.05 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 BLCDT20090610ABG LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WECN	D18	DT	LIC	NARANJITO, PR	BLCDT20090610ABG	
Undesireds:	W18DZ-D	D18	LD	LIC	SITE A VAZQUEZ 3KW, PR	BLANK0000156038	63.1 km
	WVEO	D17	DT	LIC	AGUADILLA, PR	BLANK0000125650	95.4
	WQTO	D19	DD	LIC	PONCE, PR	BLANK0000082201	56.1
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	14279.5	2,887,611	13655.5	2,731,959	13650.1	2,730,352	13578.2
							2,729,572
							0.53
							0.03
Undesired				Total IX	Unique IX, before	Unique IX, after	
W18DZ-D D18 LD LIC			71.8	780		71.8	780
WVEO D17 DT LIC			4.2	1,112	4.2	1,112	
WQTO D19 DD LIC			1.2	495	1.2	495	

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Interference to BLANK0000214203 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W18EN-D	D18	LD	LIC	SION FARM, ST CROIX, VI	BLANK0000214203	
Undesireds:	W18DZ-D	D18	LD	LIC	SITE A VAZQUEZ 3KW, PR	BLANK0000156038	106.2 km
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	2842.6	50,601	2803.1	48,769	2803.1	48,769	2791.3
							48,105
							0.42
							1.36
Undesired				Total IX	Unique IX, before	Unique IX, after	
W18DZ-D D18 LD LIC			11.9	664		11.9	664

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Interference to BLANK0000156190 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W19EP-D	D19	LD	LIC	CULEBRA, PR	BLANK0000156190	
Undesireds:	W18DZ-D	D18	LD	LIC	SITE A VAZQUEZ 3KW, PR	BLANK0000156038	0.2 km
	WQTO	D19	DD	LIC	PONCE, PR	BLANK0000082201	116.1
	W19EY-D	D19	LD	LIC	TOA BAJA, PR	BLANK0000133282	44.7
	WVGN-LD	D19	LD	LIC	CHARLOTTE AMALIE, VI	BLANK0000048749	76.8
	W20DS-D	D20	LD	CP	CAGUAS, PR	BLANK0000194674	56.1

W20DQ-D D20 LD LIC LUQUILLO, PR BLANK0000005901 5.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
2791.2	105,863	2675.0	87,888	2606.4	87,183	2606.1	87,183	0.01	0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W18DZ-D D18 LD LIC 0.5	0		0.2 0
WQTO D19 DD LIC 2.0	0	0.2 0	0.2 0
W19EY-D D19 LD LIC 22.6	0	0.0 0	0.0 0
WVGN-LD D19 LD LIC 20.7	705	2.7 705	2.7 705
W20DQ-D D20 LD LIC 63.7	0	39.9 0	39.6 0

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Interference to BLANK0000156190 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W19EP-D	D19	LD	LIC	CULEBRA, PR	BLANK0000156190	
Undesireds:	W18DZ-D	D18	LD	LIC	SITE A VAZQUEZ 3KW, PR	BLANK0000156038	0.2 km
	WQTO	D19	DD	LIC	PONCE, PR	BLANK0000082201	116.1
	W19EY-D	D19	LD	CP	TOA BAJA, PR	BLANK0000219028	44.7
	WVGN-LD	D19	LD	LIC	CHARLOTTE AMALIE, VI	BLANK0000048749	76.8
	W20DS-D	D20	LD	CP	CAGUAS, PR	BLANK0000194674	56.1
	W20DQ-D	D20	LD	LIC	LUQUILLO, PR	BLANK0000005901	5.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
2791.2	105,863	2675.0	87,888	1855.3	87,183	1855.0	87,183	0.01	0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W18DZ-D D18 LD LIC 0.5	0		0.2 0
WQTO D19 DD LIC 2.0	0	0.2 0	0.2 0
W19EY-D D19 LD CP 777.6	0	751.1 0	751.1 0
WVGN-LD D19 LD LIC 20.7	705	3.0 705	3.0 705
W20DQ-D D20 LD LIC 63.7	0	35.7 0	35.5 0

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Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W18DZ-D	D18	LD	LIC	SITE A VAZQUEZ 3KW, PR	BLANK0000156038	
Undesireds:	W17DL-D	D17	LD	LIC	TOA BAJA, PR	BLANK0000130803	44.7 km
	WECN	D18	DT	LIC	NARANJITO, PR	BLCDT20090610ABG	63.1

W18EN-D	D18	LD	LIC	SION FARM, ST CROIX, VI	BLANK0000214203	106.2
W19EP-D	D19	LD	LIC	CULEBRA, PR	BLANK0000156190	0.2
W19EY-D	D19	LD	LIC	TOA BAJA, PR	BLANK0000133282	44.7

Service area		Terrain-limited			IX-free		Percent IX
2727.7	122,487	2607.0	100,820	2464.5	100,632	5.47	0.19

Undesired			Total IX		Unique IX	Prcnt Unique IX
WECN D18 DT LIC	109.0	35	103.6	35	3.97	0.03
W18EN-D D18 LD LIC	38.2	153	33.5	153	1.29	0.15
W19EP-D D19 LD LIC	0.7	0	0.0	0	0.00	0.00