

tvstudy v2.2.5 (4uoc83)

Database: 127.0.0.1, Study: BLANK0000130998 #969, Model: Longley-Rice

Start: 2022.07.31 01:53:14

Study created: 2022.07.31 01:53:13

Study build station data: LMS TV 2022-07-17

Proposal: W18DQ-D MINOR LIC MOD

File number: BLANK0000130998

Facility ID: 181871

Station data: User record

Record ID: 565

Country: U.S.

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	WVEO	D17	DT	LIC	AGUADILLA, PR	BLANK0000125650	27.8 km
No	W17EA-D	D17	LD	LIC	ARROYO, PR	BLANK0000156040	92.2
No	W17DL-D	D17	LD	LIC	TOA BAJA, PR	BLANK0000130803	95.0
No	W17EP-D	D17	LD	CP	YABUCOA, PR	BLANK0000131123	95.0
No	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	216.2
No	W18DZ-D	D18	LD	LIC	CEIBA, PR	BLANK0000156038	139.4
Yes	WECN	D18	DT	LIC	NARANJITO, PR	BLCDT20090610ABG	77.3
No	W18EN-D	D18	LD	LIC	SION FARM, ST CROIX, VI	BLANK0000153259	243.8
No	W18EN-D	D18	LD	CP	SION FARM, ST CROIX, VI	BLANK0000189941	231.4
No	W19EP-D	D19	LD	LIC	CULEBRA, PR	BLANK0000156190	139.4
Yes	WQTO	D19	DD	LIC	PONCE, PR	BLANK0000082201	26.0
No	W19EY-D	D19	LD	LIC	TOA BAJA, PR	BLANK0000133282	95.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D18

Mask: Full Service

Latitude: 18 8 51.80 N (NAD83)

Longitude: 66 58 59.50 W

Height AMSL: 920.5 m

HAAT: 0.0 m

Peak ERP: 15.0 kW

Antenna: PSIUP UHP Panel 300.0 deg
Elev Pattn: Generic

49.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.998 kW	595.2 m	52.7 km
45.0	0.070	488.4	33.9
90.0	0.029	138.2	16.0
135.0	0.144	641.2	41.4
180.0	0.089	818.6	41.3
225.0	0.302	811.8	48.9
270.0	7.80	784.4	70.0
315.0	12.5	635.4	70.0

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 614 m

Distance to Canadian border: 2959.8 km

Distance to Mexican border: 3196.3 km

Conditions at FCC monitoring station: Santa Isabel PR
Bearing: 103.8 degrees Distance: 66.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 311.9 degrees Distance: 4392.3 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: 0.10 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Interference to BLANK0000125650 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVEO	D17	DT	LIC	AGUADILLA, PR	BLANK0000125650	
Undesireds:	W18DQ-D	D18	LD	LIC	WIDI15KWPSIPNL300d, PR	BLANK0000130998	27.8 km
	WRUA	D16	DT	LIC	FAJARDO, PR	BLANK0000185617	145.1
	WECN	D18	DT	LIC	NARANJITO, PR	BLCDT20090610ABG	95.4
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
15133.2	1,094,285	14506.0		950,562	14394.4	941,934	14362.9 941,616 0.22 0.03
Undesired		Total IX		Unique IX, before		Unique IX, after	
W18DQ-D	D18 LD LIC	31.5		318		31.5 318	
WRUA	D16 DT LIC	13.8		3,034	6.2 1,664	6.2 1,664	
WECN	D18 DT LIC	105.5		6,964	97.9 5,594	97.9 5,594	

Interference to BLCDT20090610ABG LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WECN	D18	DT	LIC	NARANJITO, PR	BLCDT20090610ABG	
Undesireds:	W18DQ-D	D18	LD	LIC	WIDI15KWPSIPNL300d, PR	BLANK0000130998	77.3 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	13609.4		2,718,991	13603.7	2,717,457	13586.0 2,712,381 0.13 0.19
Undesired		Total IX		Unique IX, before		Unique IX, after	
W18DQ-D	D18 LD LIC	20.4		5,642		17.7 5,076	
WVEO	D17 DT LIC	3.7		987	3.7 987	1.0 421	
WQTO	D19 DD LIC	2.0		547	2.0 547	2.0 547	

Interference to BLANK0000082201 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WQTO	D19	DD	LIC	PONCE, PR	BLANK0000082201	
Undesireds:	W18DQ-D	D18	LD	LIC	WIDI15KWPSIPNL300d, PR	BLANK0000130998	26.0 km
	WECN	D18	DT	LIC	NARANJITO, PR	BLCDT20090610ABG	56.1

WOST	D20	DT	LIC	MAYAGUEZ, PR	BLANK0000058703	26.6
Service area	Terrain-limited		IX-free, before		IX-free, after	
30343.6	2,884,539	29027.4	2,199,777	27476.0	2,190,403	27475.2
						Percent New IX
						0.00
						0.00
Undesired		Total IX		Unique IX, before		Unique IX, after
W18DQ-D D18 LD LIC		17.0		3,321		0.7
WECN D18 DT LIC		45.0		491		7.9
WOST D20 DT LIC		1543.5		8,883		1490.2
						5,604

Interference to proposal scenario 1
6.46% interference received

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: W18DQ-D	D18	LD	LIC	WIDI15KWPSIPNL300d, PR	BLANK0000130998	
Undesireds: WVEO	D17	DT	LIC	AGUADILLA, PR	BLANK0000125650	27.8 km
WECN	D18	DT	LIC	NARANJITO, PR	BLCDT20090610ABG	77.3
W18EN-D	D18	LD	LIC	SION FARM, ST CROIX, VI	BLANK0000153259	243.8
WQTO	D19	DD	LIC	PONCE, PR	BLANK0000082201	26.0

Service area	Terrain-limited		IX-free		Percent IX	
7597.3	808,326	7259.7	703,291	6507.2	657,840	10.37
						6.46
Undesired		Total IX		Unique IX		Prct Unique IX
WVEO D17 DT LIC		56.3		15,407		20.4
WECN D18 DT LIC		289.3		18,179		275.0
WQTO D19 DD LIC		455.8		21,163		420.9
						12,108
						5.80
						1.72