

tvstudy v2.2.5 (4uoc83)
Database: 127.0.0.1, Study: BLANK0000130803 #1288, Model: Longley-Rice
Start: 2023.08.06 18:46:19

Study created: 2023.08.06 18:46:18

Study build station data: LMS TV 2023-08-05

Proposal: W17DL-D D17 LIC MOD APP.
File number: BLANK0000130803
Facility ID: 181820
Station data: User record
Record ID: 774
Country: U.S.

Individual records excluded:
0000131123 W17EP-D D17 LD CP YABUCOA, PR BLANK0000131123

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	W16DX-D	D16	LD	LIC	AGUADA, PR	BLANK0000080992	113.8 km
No	DW16EG-D	D16	LD	APP	CIDRA, PR	BLANK0000143636	50.5
Yes	WRUA	D16	DT	LIC	FAJARDO, PR	BLANK0000185617	31.7
No	W16CW-D	D16	LD	LIC	VILLALBA, PR	BLANK0000140666	65.9
No	W16CW-D	D16	LD	CP	VILLALBA, PR	BLANK0000215280	50.5
Yes	WVEO	D17	DT	LIC	AGUADILLA, PR	BLANK0000125650	113.8
No	W17EA-D	D17	LD	LIC	ARROYO, PR	BLANK0000156040	27.0
Yes	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	121.3
No	W18DZ-D	D18	LD	LIC	CEIBA, PR	BLANK0000156038	44.7
No	WSTN-LD	D18	LD	LIC	ISABELA-MAYAGUEZ, PR	BLANK0000213847	95.0
Yes	WECN	D18	DT	LIC	NARANJITO, PR	BLCDT20090610ABG	18.5
No	W18EN-D	D18	LD	LIC	SION FARM, ST CROIX, VI	BLANK0000214203	145.2

No non-directional AM stations found within 0.8 km
No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D17
Mask: Full Service
Latitude: 18 16 22.80 N (NAD83)
Longitude: 66 5 34.50 W
Height AMSL: 481.0 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: MCX-7681 4.0 deg
Elev Pattn: Generic
Elec Tilt: 1.50

49.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	14.8 kW	418.6 m	63.9 km
45.0	10.6	383.9	60.2
90.0	0.013	365.2	22.1
135.0	0.013	343.9	21.6
180.0	0.013	97.1	11.5
225.0	0.013	55.6	8.8
270.0	0.013	106.6	12.0
315.0	7.31	378.2	57.9

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 269 m
Distance to Canadian border: 2946.8 km
Distance to Mexican border: 3279.1 km

Conditions at FCC monitoring station: Santa Isabel PR
Bearing: 225.1 degrees Distance: 42.1 km
Proposal is not within the West Virginia quiet zone area
Conditions at Table Mountain receiving zone:
Bearing: 311.4 degrees Distance: 4453.3 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%

Interference to BLANK0000185617 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WRUA	D16	DT	LIC	FAJARDO, PR	BLANK0000185617	
Undesireds:	W17DL-D	D17	LD	LIC	WQBS MCX7681 15KW, PR	BLANK0000130803	31.7 km
	WMTJ	D15	DT	LIC	FAJARDO, PR	BLANK0000065487	0.1
	WVEO	D17	DT	LIC	AGUADILLA, PR	BLANK0000125650	145.1
	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	89.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
31561.4	2,983,068	30358.0	2,740,335	30338.8	2,738,123	30338.3 2,738,119	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
W17DL-D	D17 LD LIC	0.5	4			0.5 4	
WMTJ	D15 DT LIC	16.5	1,669	16.5	1,669	16.5 1,669	
WVEO	D17 DT LIC	0.5	0	0.5	0	0.5 0	
WVXF	D17 DT LIC	2.2	543	2.2	543	2.2 543	

Interference to BLANK0000125650 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVEO	D17	DT	LIC	AGUADILLA, PR	BLANK0000125650	
Undesireds:	W17DL-D	D17	LD	LIC	WQBS MCX7681 15KW, PR	BLANK0000130803	113.8 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	14518.1	954,076	14399.8	946,453	13796.5 945,841	4.19 0.06
Undesired		Total IX		Unique IX, before		Unique IX, after	
W17DL-D	D17 LD LIC	699.0	2,489			603.3 612	
WRUA	D16 DT LIC	13.3	2,920	6.4	1,550	6.4 1,550	
WECN	D18 DT LIC	111.9	6,073	105.0	4,703	12.1 2,826	

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	WQBS MCX7681 15KW, PR	BLANK0000130803	121.3 km
	WRUA	D16	DT	LIC	FAJARDO, PR	BLANK0000185617	89.6
	WVEO	D17	DT	LIC	AGUADILLA, PR	BLANK0000125650	234.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
11226.5	84,402	11015.2	79,055	10980.2	79,055	10858.3 79,055	1.11 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
W17DL-D	D17 LD LIC	121.9	0			121.9 0	
WRUA	D16 DT LIC	25.6	0	25.6	0	25.6 0	
WVEO	D17 DT LIC	9.3	0	9.3	0	9.3 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	WQBS MCX7681 15KW, PR	BLANK0000130803	18.5 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	13642.7	2,726,696	0.05 0.13

Undesired		Total IX		Unique IX, before		Unique IX, after
W17DL-D D17 LD LIC	7.4	3,656			7.4	3,656
WVEO D17 DT LIC	4.2	1,112	4.2	1,112	4.2	1,112
WQTO D19 DD LIC	1.2	495	1.2	495	1.2	495

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W17DL-D	D17	LD	LIC	WQBS MCX7681 15KW, PR	BLANK0000130803	

Undesireds:	WRUA	D16	DT	LIC	FAJARDO, PR	BLANK0000185617	31.7 km
	W16CW-D	D16	LD	LIC	VILLALBA, PR	BLANK0000140666	65.9
	WVEO	D17	DT	LIC	AGUADILLA, PR	BLANK0000125650	113.8
	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	121.3
	WECN	D18	DT	LIC	NARANJITO, PR	BLCDT20090610ABG	18.5

Service area		Terrain-limited		IX-free		Percent IX
4849.3	1,730,339	4750.3	1,677,323	4679.7	1,646,097	1.49 1.86

Undesired		Total IX		Unique IX		Prcnt Unique IX
WRUA D16 DT LIC	31.7	18,459	14.5	14,124	0.31	0.84
WVEO D17 DT LIC	9.1	2,416	3.2	1,111	0.07	0.07
WVXF D17 DT LIC	4.7	2,138	4.2	2,138	0.09	0.13
WECN D18 DT LIC	46.7	13,539	28.3	8,644	0.60	0.52