

tvstudy v2.2.5 (4uoc83)
Database: 127.0.0.1, Study: BLANK0000148546 #1124, Model: Longley-Rice
Start: 2023.02.16 16:15:20

Study created: 2023.02.16 16:15:20

Study build station data: LMS TV 2023-02-12

Proposal: W22FA-D D22 LD APP WIDI PSILP8OI15KW30°, PR
File number: BLANK0000148546
Facility ID: 183054
Station data: User record
Record ID: 662
Country: U.S.

Individual records excluded:
0000156399 W22FF-D D22 LD CP CAMUY, PR BLANK0000156399

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	W21CX-D	D21	LD	LIC	MAYAGUEZ, PR	BLDTL20100526ACU	28.6 km
Yes	WJPX	D21	DD	CP	SAN JUAN, PR	BLANK0000189830	120.1
No	WZVI	D21	DT	LIC	CHARLOTTE AMALIE, VI	BLANK0000067338	219.7
Yes	WSJN-CD	D22	DC	LIC	SAN JUAN, PR	BLANK0000160694	87.7
No	WMNS-LD	D22	LD	LIC	CHARLOTTE AMALIE, VI	BLANK0000075602	219.7
Yes	WVSN	D23	DT	LIC	HUMACAO, PR	BLANK0000077885	120.3
Yes	WQSJ-CD	D23	DC	LIC	QUEBRADILLAS, PR	BLANK0000060641	28.0
No	WCVI-TV	D23	DT	LIC	CHRISTIANSTED, VI	BLANK0000053850	242.6

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D22
Mask: Full Service
Latitude: 18 8 51.80 N (NAD83)
Longitude: 66 58 59.50 W
Height AMSL: 930.5 m
HAAT: 0.0 m
Peak ERP: 15.0 kW

Antenna: PSILP8OI 30.0 deg
Elev Pattn: Generic
Elec Tilt: 1.50

49.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	13.5 kW	605.2 m	69.1 km
45.0	14.7	498.4	66.2
90.0	10.1	148.2	46.3
135.0	5.77	651.2	64.6
180.0	6.14	828.6	68.5
225.0	6.63	821.8	68.9
270.0	5.40	794.4	67.0
315.0	8.10	645.4	66.7

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 624 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

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 BLDTL20100526ACU LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W21CX-D	D21	LD	LIC	MAYAGUEZ, PR	BLDTL20100526ACU	

Undesireds:	W22FA-D	D22	LD	APP	WIDI PSILP80I15KW30°, PR	BLANK0000148546	28.6 km
	W20DS-D	D20	LD	CP	CAGUAS, PR	BLANK0000194674	120.0
	WOST	D20	DT	LIC	MAYAGUEZ, PR	BLANK0000058703	28.0
	WJPX	D21	DD	CP	SAN JUAN, PR	BLANK0000189830	141.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
5154.5 514,308	4793.6 451,953	4192.0 434,756	4190.3 434,593	0.04 0.04

Undesired	Total IX	Unique IX, before	Unique IX, after
W22FA-D D22 LD APP	18.2 1,181		1.7 163
WOST D20 DT LIC	18.4 1,636	1.5 1,411	0.5 518
WJPX D21 DD CP	600.1 15,786	583.1 15,561	579.2 15,441

Interference to BLANK0000189830 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WJPX	D21	DD	CP	SAN JUAN, PR	BLANK0000189830	
Undesireds:	W22FA-D	D22	LD	APP	WIDI PSILP80I15KW30°, PR	BLANK0000148546	120.1 km
	WOST	D20	DT	LIC	MAYAGUEZ, PR	BLANK0000058703	120.7
	WZVI	D21	DT	LIC	CHARLOTTE AMALIE, VI	BLANK0000067338	99.7
	WSJN-CD	D22	DC	LIC	SAN JUAN, PR	BLANK0000160694	33.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
40261.0 3,251,477	39577.0 3,158,101	39460.8 3,148,939	39060.2 3,142,732	1.02 0.20

Undesired	Total IX	Unique IX, before	Unique IX, after
W22FA-D D22 LD APP	407.8 8,454		400.6 6,207
WOST D20 DT LIC	7.4 2,247	7.1 2,221	0.5 0
WZVI D21 DT LIC	66.7 4,876	28.1 4,850	27.8 4,850
WSJN-CD D22 DC LIC	80.6 2,065	42.3 2,065	42.3 2,065

Interference to BLANK0000160694 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WSJN-CD	D22	DC	LIC	SAN JUAN, PR	BLANK0000160694	
Undesireds:	W22FA-D	D22	LD	APP	WIDI PSILP80I15KW30°, PR	BLANK0000148546	87.7 km
	WJPX	D21	DD	CP	SAN JUAN, PR	BLANK0000189830	33.1
	WWSN	D23	DT	LIC	HUMACAO, PR	BLANK0000077885	33.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
8030.9 2,312,859	7648.4 2,090,878	7578.2 2,052,140	7070.9 2,048,515	6.69 0.18

Undesired	Total IX	Unique IX, before	Unique IX, after
W22FA-D D22 LD APP	514.5 4,884		507.4 3,625
WJPX D21 DD CP	68.4 38,479	48.0 27,427	44.1 27,033
WVSN D23 DT LIC	22.2 11,311	1.7 259	1.2 117

Interference to BLANK0000160694 LIC scenario 2

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: WSJN-CD	D22	DC	LIC	SAN JUAN, PR	BLANK0000160694	
Undesireds: W22FA-D	D22	LD	APP	WIDI PSILP80I15KW30°, PR	BLANK0000148546	87.7 km
WJPX	D21	DT	BL	SAN JUAN, PR	DTVBL58340	33.1
WVSN	D23	DT	LIC	HUMACAO, PR	BLANK0000077885	33.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
8030.9 2,312,859	7648.4 2,090,878	7578.2 2,052,280	7071.4 2,048,776	6.69 0.17

Undesired	Total IX	Unique IX, before	Unique IX, after
W22FA-D D22 LD APP	514.5 4,884		506.9 3,504
WJPX D21 DT BL	67.9 38,335	48.0 27,287	43.6 26,772
WVSN D23 DT LIC	22.2 11,311	2.2 263	1.5 121

Interference to BLANK0000077885 LIC scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: WVSN	D23	DT	LIC	HUMACAO, PR	BLANK0000077885	
Undesireds: W22FA-D	D22	LD	APP	WIDI PSILP80I15KW30°, PR	BLANK0000148546	120.3 km
WSJN-CD	D22	DC	LIC	SAN JUAN, PR	BLANK0000160694	33.2
WQSJ-CD	D23	DC	LIC	QUEBRADILLAS, PR	BLANK0000060641	140.7
WCVI-TV	D23	DT	LIC	CHRISTIANSTED, VI	BLANK0000053850	132.6
WUJA	D24	DT	CP	CAGUAS, PR	BLANK0000188175	27.1
WQQZ-CD	D24	DC	LIC	PONCE, PR	BLANK0000058704	97.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
26313.6 2,947,873	24029.7 2,634,671	23797.7 2,599,540	23797.5 2,599,540	0.00 0.00

Undesired					Total IX	Unique IX, before	Unique IX, after
W22FA-D D22 LD APP	1.0				68		0.2 0
WSJN-CD D22 DC LIC	50.4				7,744	9.4 4,507	9.4 4,507
WQSJ-CD D23 DC LIC	21.9				4,150	10.3 4,080	10.1 4,080
WCVI-TV D23 DT LIC	23.1				199	3.5 129	3.5 129
WUJA D24 DT CP	103.5				26,345	62.2 23,108	62.2 23,108
WQQZ-CD D24 DC LIC	104.7				0	96.8 0	96.6 0

Interference to BLANK0000077885 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WWSN	D23	DT	LIC	HUMACAO, PR	BLANK0000077885	
Undesireds:	W22FA-D	D22	LD	APP	WIDI PSILP80I15KW30°, PR	BLANK0000148546	120.3 km
	WSJN-CD	D22	DC	LIC	SAN JUAN, PR	BLANK0000160694	33.2
	WQSJ-CD	D23	DC	LIC	QUEBRADILLAS, PR	BLANK0000060641	140.7
	WCVI-TV	D23	DT	LIC	CHRISTIANSTED, VI	BLANK0000053850	132.6
	WUJA	D24	DT	BL	CAGUAS, PR	DTVBL8156	27.1
	WQQZ-CD	D24	DC	LIC	PONCE, PR	BLANK0000058704	97.4
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	26313.6 2,947,873	24029.7	2,634,671	23815.2	2,611,358	23815.0 2,611,358	0.00 0.00

Undesired					Total IX	Unique IX, before	Unique IX, after
W22FA-D D22 LD APP	1.0				68		0.2 0
WSJN-CD D22 DC LIC	50.4				7,744	9.8 4,507	9.8 4,507
WQSJ-CD D23 DC LIC	21.9				4,150	10.3 4,080	10.1 4,080
WCVI-TV D23 DT LIC	23.1				199	3.5 129	3.5 129
WUJA D24 DT BL	85.6				14,527	44.8 11,290	44.8 11,290
WQQZ-CD D24 DC LIC	104.7				0	96.8 0	96.6 0

Interference to BLANK0000077885 LIC scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WWSN	D23	DT	LIC	HUMACAO, PR	BLANK0000077885	
Undesireds:	W22FA-D	D22	LD	APP	WIDI PSILP80I15KW30°, PR	BLANK0000148546	120.3 km
	WSJN-CD	D22	DC	LIC	SAN JUAN, PR	BLANK0000160694	33.2
	WQSJ-CD	D23	DC	LIC	QUEBRADILLAS, PR	BLANK0000060641	140.7
	WCVI-TV	D23	DT	LIC	CHRISTIANSTED, VI	BLANK0000053850	132.6
	WUJA	D24	DT	CP	CAGUAS, PR	BLANK0000188175	27.1

WQQZ-CD	D24	DC	CP	PONCE, PR	BLANK0000127578	97.4			
Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX			
26313.6	2,947,873	24029.7	2,634,671	23748.6	2,599,540	23748.4	2,599,540	0.00	0.00
Undesired	Total IX		Unique IX, before		Unique IX, after				
W22FA-D D22 LD APP	1.0	68			0.2	0			
WSJN-CD D22 DC LIC	50.4	7,744	9.4	4,507	9.4	4,507			
WQSJ-CD D23 DC LIC	21.9	4,150	10.3	4,080	10.1	4,080			
WCVI-TV D23 DT LIC	23.1	199	3.5	129	3.5	129			
WUJA D24 DT CP	103.5	26,345	62.2	23,108	62.2	23,108			
WQQZ-CD D24 DC CP	153.9	0	146.0	0	145.7	0			

Interference to BLANK0000077885 LIC scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WVSN	D23	DT	LIC	HUMACAO, PR	BLANK0000077885	
Undesireds:	W22FA-D	D22	LD	APP	WIDI PSILP80I15KW30°, PR	BLANK0000148546	120.3 km
	WSJN-CD	D22	DC	LIC	SAN JUAN, PR	BLANK0000160694	33.2
	WQSJ-CD	D23	DC	LIC	QUEBRADILLAS, PR	BLANK0000060641	140.7
	WCVI-TV	D23	DT	LIC	CHRISTIANSTED, VI	BLANK0000053850	132.6
	WUJA	D24	DT	BL	CAGUAS, PR	DTVBL8156	27.1
	WQQZ-CD	D24	DC	CP	PONCE, PR	BLANK0000127578	97.4

Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX			
26313.6	2,947,873	24029.7	2,634,671	23766.1	2,611,358	23765.8	2,611,358	0.00	0.00
Undesired	Total IX		Unique IX, before		Unique IX, after				
W22FA-D D22 LD APP	1.0	68			0.2	0			
WSJN-CD D22 DC LIC	50.4	7,744	9.8	4,507	9.8	4,507			
WQSJ-CD D23 DC LIC	21.9	4,150	10.3	4,080	10.1	4,080			
WCVI-TV D23 DT LIC	23.1	199	3.5	129	3.5	129			
WUJA D24 DT BL	85.6	14,527	44.8	11,290	44.8	11,290			
WQQZ-CD D24 DC CP	153.9	0	146.0	0	145.7	0			

Interference to BLANK0000060641 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WQSJ-CD	D23	DC	LIC	QUEBRADILLAS, PR	BLANK0000060641	

Undesireds:	W22FA-D	D22	LD	APP	WIDI PSILP80I15KW30°, PR	BLANK0000148546	28.0 km
	WVSN	D23	DT	LIC	HUMACAO, PR	BLANK0000077885	140.7
	WUJA	D24	DT	CP	CAGUAS, PR	BLANK0000188175	113.7
	WQQZ-CD	D24	DC	LIC	PONCE, PR	BLANK0000058704	52.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
7794.9 719,859	7224.0 604,273	6800.8 593,595	6719.9 592,416	1.19 0.20

Undesired	Total IX	Unique IX, before	Unique IX, after
W22FA-D D22 LD APP	111.2 1,179		80.9 1,179
WVSN D23 DT LIC	423.2 10,678	423.2 10,678	392.9 10,678

Interference to BLANK0000060641 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WQSJ-CD	D23	DC	LIC	QUEBRADILLAS, PR	BLANK0000060641	
Undesireds:	W22FA-D	D22	LD	APP	WIDI PSILP80I15KW30°, PR	BLANK0000148546	28.0 km
	WVSN	D23	DT	LIC	HUMACAO, PR	BLANK0000077885	140.7
	WUJA	D24	DT	CP	CAGUAS, PR	BLANK0000188175	113.7
	WQQZ-CD	D24	DC	CP	PONCE, PR	BLANK0000127578	52.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
7794.9 719,859	7224.0 604,273	6798.3 592,718	6719.6 592,416	1.16 0.05

Undesired	Total IX	Unique IX, before	Unique IX, after
W22FA-D D22 LD APP	111.2 1,179		78.7 302
WVSN D23 DT LIC	423.2 10,678	422.7 10,678	392.9 10,678
WQQZ-CD D24 DC CP	3.0 877	2.5 877	0.2 0

Interference to proposal scenario 1
8.64% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W22FA-D	D22	LD	APP	WIDI PSILP80I15KW30°, PR	BLANK0000148546	
Undesireds:	W21CX-D	D21	LD	LIC	MAYAGUEZ, PR	BLDTL20100526ACU	28.6 km
	WJPX	D21	DD	CP	SAN JUAN, PR	BLANK0000189830	120.1
	WSJN-CD	D22	DC	LIC	SAN JUAN, PR	BLANK0000160694	87.7
	WMNS-LD	D22	LD	LIC	CHARLOTTE AMALIE, VI	BLANK0000075602	219.7
	WQSJ-CD	D23	DC	LIC	QUEBRADILLAS, PR	BLANK0000060641	28.0

Service area		Terrain-limited			IX-free	Percent IX	
13599.0	1,252,466	13145.6	1,038,578	12259.6	948,841	6.74	8.64
Undesired			Total IX		Unique IX	Prcnt Unique IX	
W21CX-D D21 LD LIC	78.7	19,469	37.4	6,949	0.28	0.67	
WJPX D21 DD CP	25.6	6,755	0.5	0	0.00	0.00	
WSJN-CD D22 DC LIC	802.4	69,099	777.3	62,344	5.91	6.00	
WMNS-LD D22 LD LIC	0.2	2	0.0	0	0.00	0.00	
WQSJ-CD D23 DC LIC	45.8	13,689	4.4	1,169	0.03	0.11	