

tvstudy v2.2.5 (4uoc83)
Database: 127.0.0.1, Study: BLANK0000148546 #1120, Model: Longley-Rice
Start: 2023.02.15 00:38:39

Study created: 2023.02.15 00:38:39

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: 0.03 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	4788.5	450,938	4191.8	434,903	4190.6	434,766	0.03 0.03

Undesired					Total IX		Unique IX, before		Unique IX, after
W22FA-D	D22	LD	APP		18.4	1,155		1.2	137
WOST	D20	DT	LIC		17.5	1,416	1.5	1,411	518
WJPX	D21	DD	CP		595.2	14,624	579.2	14,619	573.8 14,499

Interference to BLANK0000189830 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	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	39586.6	3,155,624	39470.7	3,145,664	39072.7	3,140,077	1.01 0.18

Undesired					Total IX		Unique IX, before		Unique IX, after
W22FA-D	D22	LD	APP		405.8	8,231		397.9	5,587
WOST	D20	DT	LIC		7.9	2,725	7.9	2,725	0.5 81
WZVI	D21	DT	LIC		64.7	5,363	26.6	5,363	26.1 5,363
WSJN-CD	D22	DC	LIC		81.4	1,872	43.3	1,872	43.3 1,872

Interference to BLANK0000160694 LIC scenario 1

	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	DD	CP	SAN JUAN, PR	BLANK0000189830	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	7637.6 2,087,172	7567.2 2,050,492	7062.0 2,047,069	6.68 0.17

Undesired	Total IX	Unique IX, before	Unique IX, after
W22FA-D D22 LD APP	512.5 5,227		505.1 3,423
WJPX D21 DD CP	68.4 35,627	47.5 25,323	43.3 24,505
WVSN D23 DT LIC	22.9 11,357	2.0 1,053	1.2 911

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	7637.6 2,087,172	7566.9 2,049,121	7061.8 2,045,698	6.68 0.17

Undesired	Total IX	Unique IX, before	Unique IX, after
W22FA-D D22 LD APP	512.5 5,227		505.1 3,423
WJPX D21 DT BL	68.2 36,914	47.7 26,694	43.6 25,876
WVSN D23 DT LIC	22.9 11,357	2.5 1,137	1.5 874

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	24067.0 2,630,070	23836.1 2,593,579	23835.6 2,593,579	0.00 0.00

Undesired					Total IX	Unique IX, before	Unique IX, after
W22FA-D D22 LD APP	1.5				0		0.5 0
WSJN-CD D22 DC LIC	50.9				8,225	10.6 5,229	10.6 5,229
WQSJ-CD D23 DC LIC	23.4				4,205	12.1 4,135	11.6 4,135
WCVI-TV D23 DT LIC	22.4				153	3.2 83	3.2 83
WUJA D24 DT CP	104.3				26,974	63.7 23,978	63.7 23,978
WQQZ-CD D24 DC LIC	100.3				0	92.9 0	92.6 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	24067.0	2,630,070	23853.5	2,603,979	23853.1 2,603,979	0.00 0.00

Undesired					Total IX	Unique IX, before	Unique IX, after
W22FA-D D22 LD APP	1.5				0		0.5 0
WSJN-CD D22 DC LIC	50.9				8,225	11.1 5,229	11.1 5,229
WQSJ-CD D23 DC LIC	23.4				4,205	12.1 4,135	11.6 4,135
WCVI-TV D23 DT LIC	22.4				153	3.2 83	3.2 83
WUJA D24 DT BL	86.3				16,574	46.2 13,578	46.2 13,578
WQQZ-CD D24 DC LIC	100.3				0	92.9 0	92.6 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	24067.0	2,630,070	23787.4	2,593,579	23787.0	2,593,579	0.00	0.00
Undesired	Total IX		Unique IX, before		Unique IX, after				
W22FA-D D22 LD APP	1.5	0			0.5	0			
WSJN-CD D22 DC LIC	50.9	8,225	10.6	5,229	10.6	5,229			
WQSJ-CD D23 DC LIC	23.4	4,205	12.1	4,135	11.6	4,135			
WCVI-TV D23 DT LIC	22.4	153	3.2	83	3.2	83			
WUJA D24 DT CP	104.3	26,974	63.7	23,978	63.7	23,978			
WQQZ-CD D24 DC CP	148.9	0	141.5	0	141.3	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	24067.0	2,630,070	23804.9	2,603,979	23804.4	2,603,979	0.00	0.00
Undesired	Total IX		Unique IX, before		Unique IX, after				
W22FA-D D22 LD APP	1.5	0			0.5	0			
WSJN-CD D22 DC LIC	50.9	8,225	11.1	5,229	11.1	5,229			
WQSJ-CD D23 DC LIC	23.4	4,205	12.1	4,135	11.6	4,135			
WCVI-TV D23 DT LIC	22.4	153	3.2	83	3.2	83			
WUJA D24 DT BL	86.3	16,574	46.2	13,578	46.2	13,578			
WQQZ-CD D24 DC CP	148.9	0	141.5	0	141.3	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	7212.4 602,510	6791.2 593,109	6709.3 591,958	1.21 0.19

Undesired	Total IX	Unique IX, before	Unique IX, after
W22FA-D D22 LD APP	110.5 1,151		81.9 1,151
WVSN D23 DT LIC	421.2 9,401	421.2 9,401	392.7 9,401

Interference to BLANK0000060641 LIC scenario 2

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	CP	PONCE, PR	BLANK0000127578	52.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
7794.9 719,859	7212.4 602,510	6788.2 592,232	6708.8 591,958	1.17 0.05

Undesired	Total IX	Unique IX, before	Unique IX, after
W22FA-D D22 LD APP	110.5 1,151		79.5 274
WVSN D23 DT LIC	421.2 9,401	420.3 9,401	392.4 9,401
WQQZ-CD D24 DC CP	3.9 877	3.0 877	0.5 0

Interference to proposal scenario 1
8.77% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	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	13143.4	1,037,602	12256.9	946,609	6.75	8.77
Undesired			Total IX		Unique IX	Prcnt Unique IX	
W21CX-D D21 LD LIC	79.5	17,789	37.4		6,215	0.28	0.60
WJPX D21 DD CP	25.6	6,765	0.7		0	0.01	0.00
WSJN-CD D22 DC LIC	802.1	72,035	777.3		65,270	5.91	6.29
WMNS-LD D22 LD LIC	0.2	2	0.0		0	0.00	0.00
WQSJ-CD D23 DC LIC	46.3	12,743	4.2		1,169	0.03	0.11