

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: WUJA-DTX-AZ=30\_1X.1 40KW, Model: Longley-Rice

Start: 2022.06.12 18:05:47

Study created: 2022.06.12 18:05:47

Study build station data: LMS TV 2022-06-10

Proposal: WUJA D24 DT APP CAGUAS, PR  
File number: WUJA-AUX AZ=30  
Facility ID: 8156  
Station data: User record  
Record ID: 766  
Country: U.S.  
Zone: II

Search options:

Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	WVSN	D23	DT	LIC	HUMACAO, PR	BLANK0000077885	27.1 km
No	WQSJ-CD	D23	DC	LIC	QUEBRADILLAS, PR	BLANK0000060641	113.7
No	WCVI-TV	D23	DT	LIC	CHRISTIANSTED, VI	BLANK0000053850	157.4
No	WQQZ-CD	D24	DC	LIC	PONCE, PR	BLANK0000058704	71.3
No	WQQZ-CD	D24	DC	CP	PONCE, PR	BLANK0000127578	71.3
Yes	WQHA	D25	DT	CP	AGUADA, PR	BLANK0000187601	52.3
Yes	WQHA	D25	DT	LIC	AGUADA, PR	BLANK0000145869	69.1

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D24  
Latitude: 18 16 40.80 N (NAD83)  
Longitude: 66 6 31.60 W  
Height AMSL: 523.9 m  
HAAT: 305.4 m  
Peak ERP: 40.0 kW  
Antenna: Kathrein 75010402 30.0 deg  
Elev Pattn: Generic  
Elec Tilt: 2.00

39.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	30.9 kW	459.6 m	84.4 km
45.0	39.8	409.1	83.6
90.0	22.9	409.3	79.9
135.0	2.17	372.4	62.7
180.0	0.029	117.5	25.7
225.0	0.174	89.8	32.2
270.0	0.196	154.1	38.0
315.0	6.86	431.7	73.3

Distance to Canadian border: 2946.2 km

Distance to Mexican border: 3277.4 km

Conditions at FCC monitoring station: Santa Isabel PR

Bearing: 222.9 degrees Distance: 41.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 311.4 degrees Distance: 4451.7 km

Study cell size: 1.00 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%

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Interference to BLANK0000077885 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WVSN	D23	DT	LIC	HUMACAO, PR	BLANK0000077885	
Undesireds:	WUJA	D24	DT	BL	CAGUAS, PR	DTVBL8156	27.1 km
	WUJA	D24	DT	APP	CAGUAS, PR	WUJA-AUX AZ=30	27.1
	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
	WQQZ-CD	D24	DC	LIC	PONCE, PR	BLANK0000058704	97.4
Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX
26309.7	2,945,963		24050.4 2,634,755		23833.4 2,615,376		-0.01 -0.20

Undesired	Total IX	Unique IX, before	Unique IX, after
WUJA D24 DT BL	87.6 17,179	46.2 11,752	
WUJA D24 DT APP	80.7 6,454		43.3 6,454
WSJN-CD D22 DC LIC	48.2 8,937	7.9 3,510	11.8 8,937
WQSJ-CD D23 DC LIC	19.7 3,988	9.8 3,920	9.8 3,920
WCVI-TV D23 DT LIC	20.7 68	0.0 0	0.0 0
WQQZ-CD D24 DC LIC	113.6 0	107.7 0	107.7 0

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Interference to BLANK0000077885 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WVSN	D23	DT	LIC	HUMACAO, PR	BLANK0000077885	
Undesireds:	WUJA	D24	DT	BL	CAGUAS, PR	DTVBL8156	27.1 km
	WUJA	D24	DT	APP	CAGUAS, PR	WUJA-AUX AZ=30	27.1
	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
	WQQZ-CD	D24	DC	CP	PONCE, PR	BLANK0000127578	97.4
Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX
26309.7	2,945,963		24050.4 2,634,755		23778.1 2,610,078		-0.01 -0.20

Undesired	Total IX	Unique IX, before	Unique IX, after
WUJA D24 DT BL	87.6 17,179	46.2 11,752	
WUJA D24 DT APP	80.7 6,454		43.3 6,454
WSJN-CD D22 DC LIC	48.2 8,937	7.9 3,510	11.8 8,937
WQSJ-CD D23 DC LIC	19.7 3,988	9.8 3,920	9.8 3,920
WCVI-TV D23 DT LIC	20.7 68	0.0 0	0.0 0
WQQZ-CD D24 DC CP	166.0 0	160.0 0	160.0 0

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Interference to BLANK0000187601 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WQHA	D25	DT	CP	AGUADA, PR	BLANK0000187601	
Undesired:	WUJA	D24	DT	BL	CAGUAS, PR	DTVBL8156	52.3 km
	WUJA	D24	DT	APP	CAGUAS, PR	WUJA-AUX AZ=30	52.3
	WQQZ-CD	D24	DC	LIC	PONCE, PR	BLANK0000058704	19.8
	WIPR-TV	D26	DT	CP	SAN JUAN, PR	BLANK0000034681	57.5

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
24200.9 3,325,001	23182.7 2,912,115	22938.4 2,778,720	22949.2 2,785,075	-0.05 -0.23

Undesired	Total IX	Unique IX, before	Unique IX, after
WUJA D24 DT BL	120.1 107,795	39.4 47,499	
WUJA D24 DT APP	102.4 98,624		28.6 41,144
WQQZ-CD D24 DC LIC	9.9 1,104	9.9 1,104	9.9 1,104
WIPR-TV D26 DT CP	195.1 84,792	114.4 24,496	121.3 27,312

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Interference to BLANK0000187601 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WQHA	D25	DT	CP	AGUADA, PR	BLANK0000187601	
Undesired:	WUJA	D24	DT	BL	CAGUAS, PR	DTVBL8156	52.3 km
	WUJA	D24	DT	APP	CAGUAS, PR	WUJA-AUX AZ=30	52.3
	WQQZ-CD	D24	DC	CP	PONCE, PR	BLANK0000127578	19.8
	WIPR-TV	D26	DT	CP	SAN JUAN, PR	BLANK0000034681	57.5

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
24200.9 3,325,001	23182.7 2,912,115	22530.0 2,743,269	22540.9 2,749,624	-0.05 -0.23

Undesired	Total IX	Unique IX, before	Unique IX, after
WUJA D24 DT BL	120.1 107,795	39.4 47,499	
WUJA D24 DT APP	102.4 98,624		28.6 41,144
WQQZ-CD D24 DC CP	424.1 37,139	418.2 36,555	418.2 36,555
WIPR-TV D26 DT CP	195.1 84,792	108.5 23,912	115.4 26,728

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Interference to BLANK0000145869 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WQHA	D25	DT	LIC	AGUADA, PR	BLANK0000145869	
Undesired:	WUJA	D24	DT	BL	CAGUAS, PR	DTVBL8156	69.1 km
	WUJA	D24	DT	APP	CAGUAS, PR	WUJA-AUX AZ=30	69.1
	WQQZ-CD	D24	DC	LIC	PONCE, PR	BLANK0000058704	17.3
	WIPR-TV	D26	DT	CP	SAN JUAN, PR	BLANK0000034681	76.3

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
16924.2 3,238,028	12639.1 2,487,395	11811.6 2,007,094	11823.4 2,019,782	-0.10 -0.63

Undesired	Total IX	Unique IX, before	Unique IX, after
WUJA D24 DT BL	122.1 313,731	34.5 69,568	
WUJA D24 DT APP	103.3 285,012		22.6 56,880
WQQZ-CD D24 DC LIC	611.9 30,959	123.3 18,476	123.3 18,476
WIPR-TV D26 DT CP	669.7 392,257	93.5 135,611	100.4 151,642

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Interference to BLANK0000145869 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WQHA	D25	DT	LIC	AGUADA, PR	BLANK0000145869	
Undesired:	WUJA	D24	DT	BL	CAGUAS, PR	DTVBL8156	69.1 km
	WUJA	D24	DT	APP	CAGUAS, PR	WUJA-AUX AZ=30	69.1
	WQQZ-CD	D24	DC	CP	PONCE, PR	BLANK0000127578	17.3
	WIPR-TV	D26	DT	CP	SAN JUAN, PR	BLANK0000034681	76.3

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
16924.2 3,238,028	12639.1 2,487,395	11805.7 2,007,094	11817.5 2,019,782	-0.10 -0.63

Undesired	Total IX	Unique IX, before	Unique IX, after
WUJA D24 DT BL	122.1 313,731	34.5 69,568	
WUJA D24 DT APP	103.3 285,012		22.6 56,880
WQQZ-CD D24 DC CP	631.6 31,982	129.2 18,476	129.2 18,476
WIPR-TV D26 DT CP	669.7 392,257	79.7 134,588	86.6 150,619

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Interference to proposal scenario 1  
1.76% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WUJA	D24	DT	APP	CAGUAS, PR	WUJA-AUX AZ=30	
Undesired:	WVSN	D23	DT	LIC	HUMACAO, PR	BLANK0000077885	27.1 km
	WQQZ-CD	D24	DC	LIC	PONCE, PR	BLANK0000058704	71.3
	WQHA	D25	DT	CP	AGUADA, PR	BLANK0000187601	52.3

Service area	Terrain-limited	IX-free	Percent IX
12841.6 2,355,165	11481.5 2,239,579	11098.0 2,200,053	3.34 1.76

Undesired	Total IX	Unique IX	Percent Unique IX
WVSN D23 DT LIC	382.5 39,437	342.1 39,437	2.98 1.76
WQQZ-CD D24 DC LIC	40.5 0	0.0 0	0.00 0.00
WQHA D25 DT CP	1.0 89	1.0 89	0.01 0.00

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Interference to proposal scenario 2  
1.77% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WUJA	D24	DT	APP	CAGUAS, PR	WUJA-AUX AZ=30	
Undesired:	WVSN	D23	DT	LIC	HUMACAO, PR	BLANK0000077885	27.1 km
	WQQZ-CD	D24	DC	LIC	PONCE, PR	BLANK0000058704	71.3
	WQHA	D25	DT	LIC	AGUADA, PR	BLANK0000145869	69.

Service area	Terrain-limited	IX-free	Percent IX
12841.6 2,355,165	11481.5 2,239,579	11096.0 2,199,848	3.36 1.77

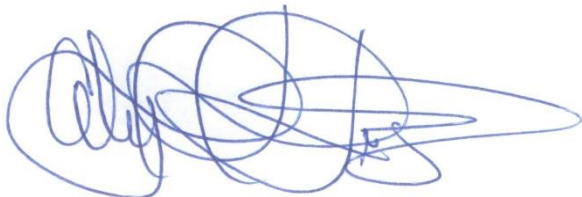
Undesired	Total IX	Unique IX	Percent Unique IX
WVSN D23 DT LIC	382.5 39,437	342.1 39,437	2.98 1.76
WQQZ-CD D24 DC LIC	40.5 0	0.0 0	0.00 0.00
WQHA D25 DT LIC	3.0 294	3.0 294	0.03 0.01

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Interference to proposal scenario 3  
1.76% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WUJA	D24	DT	APP	CAGUAS, PR	WUJA-AUX AZ=30	
Undesired:	WVSN	D23	DT	LIC	HUMACAO, PR	BLANK0000077885	27.1 km
	WQQZ-CD	D24	DC	CP	PONCE, PR	BLANK0000127578	71.3
	WQHA	D25	DT	CP	AGUADA, PR	BLANK0000187601	52.3
Service area		Terrain-limited		IX-free		Percent IX	
12841.6 2,355,165		11481.5 2,239,579		11097.0 2,200,053		3.35 1.76	
Undesired		Total IX		Unique IX		Percent Unique IX	
WVSN D23 DT LIC		382.5 39,437		272.0 39,437		2.37 1.76	
WQQZ-CD D24 DC CP		111.5 0		1.0 0		0.01 0.00	
WQHA D25 DT CP		1.0 89		1.0 89		0.01 0.00	

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Interference to proposal scenario 4  
1.77% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WUJA	D24	DT	APP	CAGUAS, PR	WUJA-AUX AZ=30	
Undesired:	WVSN	D23	DT	LIC	HUMACAO, PR	BLANK0000077885	27.1 km
	WQQZ-CD	D24	DC	CP	PONCE, PR	BLANK0000127578	71.3
	WQHA	D25	DT	LIC	AGUADA, PR	BLANK0000145869	69.1
Service area		Terrain-limited		IX-free		Percent IX	
12841.6 2,355,165		11481.5 2,239,579		11095.0 2,199,848		3.37 1.77	
Undesired		Total IX		Unique IX		Percent Unique IX	
WVSN D23 DT LIC		382.5 39,437		272.0 39,437		2.37 1.76	
WQQZ-CD D24 DC CP		111.5 0		1.0 0		0.01 0.00	
WQHA D25 DT LIC		3.0 294		3.0 294		0.03 0.01	



Alejandro Luciano PE  
Consulting Engineer  
PO Box 194528  
San Juan, Puerto Rico 00919-4528  
03/29/2022