

WSJP-LD Proposed Operation Interference Study

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: WSJP CH.26 10kW ALIVBCE04D RC-379M AZ=170 0.5X.12, Model: Longley-Rice

Start: 2024.04.10 21:56:12

Study created: 2024.04.10 21:56:12

Study build station data: LMS TV 2024-04-09

Proposal: WSJP-LD D26 LD LIC AQUADILLA, PR
File number: WSJP CH.26 10kW ALIVBCE04D RC-379M AZ=170
Facility ID: 127507
Station data: User record
Record ID: 821
Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Search options:

Baseline record excluded if station has CP

Individual records excluded:

0000193691 WCL0-TV D25 DT LIC AGUADA, PR BLANK0000193691 **(WCL0-TV is a Distributed Transmission System Licensee since 10/05/2023)**

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	WCL0-TV	D25	DD	LIC	AGUADA, PR	BLANK0000221872	64.3 km
Yes	WIPR-TV	D26	DT	CP	SAN JUAN, PR	BLANK0000213734	121.6
Yes	W27DZ-D	D27	LD	LIC	MAYAGUEZ, PR	BLANK0000190332	12.2
Yes	WAPA-TV	D27	DT	LIC	SAN JUAN, PR	BLANK0000191707	121.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D26
Mask: Full Service
Latitude: 18 18 45.80 N (NAD83)
Longitude: 67 10 56.00 W
Height AMSL: 379.0 m
HAAT: 328.0 m
Peak ERP: 10.0 kW
Antenna: ALIV-BCE04D-V5S-26 170.0 deg
Elev Pattn: Generic
Elec Tilt: 0.50

50.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.576 kW	355.4 m	41.4 km
45.0	0.471	278.7	37.0
90.0	0.697	221.1	36.3
135.0	1.42	286.7	43.3
180.0	9.01	378.7	57.9
225.0	0.513	379.0	41.6
270.0	0.676	372.5	43.1

315.0 0.491 351.6 40.3

Distance to Canadian border: 2940.5 km

Distance to Mexican border: 3170.1 km

Conditions at FCC monitoring station: Santa Isabel PR
Bearing: 111.7 degrees Distance: 91.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 311.9 degrees Distance: 4364.4 km

Study cell size: 0.50 km **(Higher resolution cell size processing is requested.)**
Profile point spacing: 0.12 km **(Higher resolution profile point spacing processing is requested.)**

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

Interference to BLANK0000221872 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCLO-TV	D25	DD	LIC	AGUADA, PR	BLANK0000221872	
Undesireds:	WSJP-LD	D26	LD	LIC	AQUADILLA, PR	WSJP CH.26 10kW ALIVBC	64.3 km
	WUJA	D24	DT	LIC	CAGUAS, PR	BLANK0000233439	52.3
	WQQZ-CD	D24	DC	LIC	PONCE, PR	BLANK0000058704	19.8
	WIPR-TV	D26	DT	CP	SAN JUAN, PR	BLANK0000213734	57.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
28222.0 3,713,160	26843.1 3,415,288	25661.7 3,336,452	25449.2 3,320,356	0.83 0.48

Undesired	Total IX	Unique IX, before	Unique IX, after
WSJP-LD D26 LD LIC 212.6	16,096	212.6 16,096	
WUJA D24 DT LIC 6.2	1,774	3.4 1,408	3.4 1,408
WQQZ-CD D24 DC LIC 7.1	2,230	6.9 2,230	6.9 2,230
WIPR-TV D26 DT CP 1171.0	75,198	1168.1 74,832	1168.1 74,832

Interference to BLANK0000221872 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCLO-TV	D25	DD	LIC	AGUADA, PR	BLANK0000221872	
Undesireds:	WSJP-LD	D26	LD	LIC	AQUADILLA, PR	WSJP CH.26 10kW ALIVBC	64.3 km
	WUJA	D24	DT	LIC	CAGUAS, PR	BLANK0000212420	52.3
	WQQZ-CD	D24	DC	LIC	PONCE, PR	BLANK0000058704	19.8
	WIPR-TV	D26	DT	CP	SAN JUAN, PR	BLANK0000213734	57.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
28222.0 3,713,160	26843.1 3,415,288	25661.7 3,336,452	25449.2 3,320,356	0.83 0.48

Undesired	Total IX	Unique IX, before	Unique IX, after
WSJP-LD D26 LD LIC 212.6	16,096	212.6 16,096	
WUJA D24 DT LIC 6.2	1,774	3.4 1,408	3.4 1,408
WQQZ-CD D24 DC LIC 7.1	2,230	6.9 2,230	6.9 2,230
WIPR-TV D26 DT CP 1171.0	75,198	1168.1 74,832	1168.1 74,832

Interference to BLANK0000221872 LIC scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCLO-TV	D25	DD	LIC	AGUADA, PR	BLANK0000221872	
Undesireds:	WSJP-LD	D26	LD	LIC	AQUADILLA, PR	WSJP CH.26 10kW ALIVBC	64.3 km
	WUJA	D24	DT	LIC	CAGUAS, PR	BLANK0000233439	52.3
	WQQZ-CD	D24	DC	CP	PONCE, PR	BLANK0000127578	19.8
	WIPR-TV	D26	DT	CP	SAN JUAN, PR	BLANK0000213734	57.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
28222.0 3,713,160	26843.1 3,415,288	25259.3 3,302,462	25067.2 3,286,919	0.76 0.47

Undesired	Total IX	Unique IX, before	Unique IX, after
WSJP-LD D26 LD LIC	212.6 16,096	192.1 15,543	
WUJA D24 DT LIC	6.2 1,774	3.4 1,408	
WQQZ-CD D24 DC CP	413.0 36,361	409.3 36,220	
WIPR-TV D26 DT CP	1171.0 75,198	1164.6 74,691	

Interference to BLANK0000221872 LIC scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCLO-TV	D25	DD	LIC	AGUADA, PR	BLANK0000221872	
Undesireds:	WSJP-LD	D26	LD	LIC	AQUADILLA, PR	WSJP CH.26 10kW ALIVBC	64.3 km
	WUJA	D24	DT	LIC	CAGUAS, PR	BLANK0000212420	52.3
	WQQZ-CD	D24	DC	CP	PONCE, PR	BLANK0000127578	19.8
	WIPR-TV	D26	DT	CP	SAN JUAN, PR	BLANK0000213734	57.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
28222.0 3,713,160	26843.1 3,415,288	25259.3 3,302,462	25067.2 3,286,919	0.76 0.47

Undesired	Total IX	Unique IX, before	Unique IX, after
WSJP-LD D26 LD LIC	212.6 16,096	192.1 15,543	
WUJA D24 DT LIC	6.2 1,774	3.4 1,408	
WQQZ-CD D24 DC CP	413.0 36,361	409.3 36,220	
WIPR-TV D26 DT CP	1171.0 75,198	1164.6 74,691	

Interference to BLANK0000213734 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WIPR-TV	D26	DT	CP	SAN JUAN, PR	BLANK0000213734	
Undesireds:	WSJP-LD	D26	LD	LIC	AQUADILLA, PR	WSJP CH.26 10kW ALIVBC	121.6 km
	WCLO-TV	D25	DD	LIC	AGUADA, PR	BLANK0000221872	57.6
	WAPA-TV	D27	DT	LIC	SAN JUAN, PR	BLANK0000191707	0.5

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
46412.2 3,692,631	45393.7 3,352,978	45063.6 3,275,669	44874.8 3,262,394	0.42 0.41

Undesired	Total IX	Unique IX, before	Unique IX, after
WSJP-LD D26 LD LIC	255.7 28,114	188.7 13,275	
WCLO-TV D25 DD LIC	157.5 30,809	90.6 15,970	
WAPA-TV D27 DT LIC	172.6 46,500	172.6 46,500	

Interference to BLANK0000190332 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W27DZ-D	D27	LD	LIC	MAYAGUEZ, PR	BLANK0000190332	
Undesireds:	WSJP-LD	D26	LD	LIC	AQUADILLA, PR	WSJP CH.26 10kW ALIVBC	12.2 km
	WAPA-TV	D27	DT	LIC	SAN JUAN, PR	BLANK0000191707	112.4
	WTPM-LD	D28	LD	CP	MAYAGUEZ-ANASCO, PR	BLANK0000217713	12.2
Service area	1503.8	189,664	Terrain-limited	1461.2	179,246	IX-free, before	1399.6 176,369
						IX-free, after	1399.4 176,369
						Percent New IX	0.02 0.00
Undesired					Total IX	Unique IX, before	Unique IX, after
WSJP-LD D26 LD LIC		18.5			2,875		0.2 0
WAPA-TV D27 DT LIC		40.9			227	36.5 0	36.5 0
WTPM-LD D28 LD CP		25.1			2,877	20.7 2,650	5.4 2

Interference to BLANK0000190332 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W27DZ-D	D27	LD	LIC	MAYAGUEZ, PR	BLANK0000190332	
Undesireds:	WSJP-LD	D26	LD	LIC	AQUADILLA, PR	WSJP CH.26 10kW ALIVBC	12.2 km
	WAPA-TV	D27	DT	LIC	SAN JUAN, PR	BLANK0000191707	112.4
	WTPM-LD	D28	LD	LIC	MAYAGUEZ-ANASCO, PR	BLANK0000129958	16.0
Service area	1503.8	189,664	Terrain-limited	1461.2	179,246	IX-free, before	1402.1 179,007
						IX-free, after	1396.6 176,359
						Percent New IX	0.39 1.48
Undesired					Total IX	Unique IX, before	Unique IX, after
WSJP-LD D26 LD LIC		18.5			2,875		5.4 2,648
WAPA-TV D27 DT LIC		40.9			227	37.0 227	36.2 0
WTPM-LD D28 LD LIC		22.1			12	18.2 12	8.1 12

Interference to BLANK0000191707 LIC scenario 1

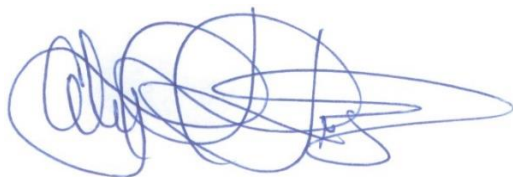
	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WAPA-TV	D27	DT	LIC	SAN JUAN, PR	BLANK0000191707	
Undesireds:	WSJP-LD	D26	LD	LIC	AQUADILLA, PR	WSJP CH.26 10kW ALIVBC	121.3 km
	WIPR-TV	D26	DT	CP	SAN JUAN, PR	BLANK0000213734	0.5
	WKAQ-TV	D28	DT	LIC	SAN JUAN, PR	BLC DT20110325AAP	0.0
Service area	47922.5	3,757,835	Terrain-limited	46846.1	3,421,318	IX-free, before	46604.6 3,388,742
						IX-free, after	46597.2 3,387,770
						Percent New IX	0.02 0.03
Undesired					Total IX	Unique IX, before	Unique IX, after
WSJP-LD D26 LD LIC		7.4			972		7.4 972
WIPR-TV D26 DT CP		48.6			4,228	23.4 182	23.4 182
WKAQ-TV D28 DT LIC		218.0			32,394	192.9 28,348	192.9 28,348

Interference to proposal scenario 1
2.41% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WSJP-LD	D26	LD	LIC	AQUADILLA, PR	WSJP CH.26 10kW ALIVBC	
Undesireds:	WIPR-TV	D26	DT	CP	SAN JUAN, PR	BLANK0000213734	121.6 km
	W27DZ-D	D27	LD	LIC	MAYAGUEZ, PR	BLANK0000190332	12.2
	WAPA-TV	D27	DT	LIC	SAN JUAN, PR	BLANK0000191707	121.3

Service area	Terrain-limited	IX-free	Percent IX
5900.9 625,984	5312.0 521,556	4658.1 508,976	12.31 2.41

Undesired	Total IX	Unique IX	Prcnt Unique IX
WIPR-TV D26 DT CP	653.4 12,580	648.0 11,972	12.20 2.30
W27DZ-D D27 LD LIC	0.7 0	0.5 0	0.01 0.00
WAPA-TV D27 DT LIC	5.2 608	0.0 0	0.00 0.00



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