

INTERFERENCE ANALYSIS FOR MINOR CHANGE
WIPR-TV CH. 26 San Juan, PR.

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: WIPR-750kW La Santa az=350 RC 1109.4 1x1, Model: Longley-Rice
Start: 2023.03.28 22:57:37

Study last edited: 2023.03.28 22:57:23

Proposal: WIPR-TV D26 DT APP SAN JUAN, PR
File number: WIPR-750kW La Santa RC 1109.4
Facility ID: 53859
Station data: User record
Record ID: 795
Country: U.S.
Zone: II

Proposal "before": WIPR-TV D26 DT BL SAN JUAN, PR
File number: DTVBL53859
Facility ID: 53859
Station data: LMS TV 2023-03-25
Record ID: DTVBL53859
Country: U.S.

Study has been edited. Stations studied for impact of proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
WQHA	D25		DD CP	AGUADA, PR	BLANK0000194597	57.6 km
WAPA-TV	D27		DT LIC	SAN JUAN, PR	BLANK0000191707	0.5

Record parameters as studied:

Channel: D26
Latitude: 18 6 33.70 N (NAD83)
Longitude: 66 3 2.50 W
Height AMSL: 1109.4 m
HAAT: 761.4 m
Peak ERP: 750 kW
Antenna: DIE-26JSC-R CT150SP (ID 100935) 20.0 deg
Elev Pattn:
Elec Tilt: 1.50

40.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	722 kW	956.9 m	135.4 km
45.0	596	868.0	129.6
90.0	687	796.4	128.6
135.0	129	669.7	107.2
180.0	111	921.3	114.8
225.0	484	612.4	116.6
270.0	746	621.1	121.2
315.0	555	645.4	119.6

ERP exceeds maximum

ERP: 750 kW ERP maximum: 216 kW

Distance to Canadian border: 2965.1 km

Distance to Mexican border: 3289.8 km

**Proposal is within coordination distance of FCC monitoring station

**Proposal exceeds field strength limit at FCC monitoring station

Conditions at FCC monitoring station: Santa Isabel PR

Bearing: 251.4 degrees Distance: 36.2 km

ERP: 693 kW HAAT: 535.1 m Field strength: 88.4 dBu, 26.3 mV/m

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 311.6 degrees Distance: 4468.7 km

Study cell size: 1.00 km (Higher resolution cell size processing is requested.)

Profile point spacing: 1.00 km

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

Maximum new IX to LPTV: 2.00%

Interference to BLANK0000194597 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WQHA	D25	DD	CP	AGUADA, PR	BLANK0000194597	
Undesireds:	WIPR-TV	D26	DT	BL	SAN JUAN, PR	DTVBL53859	57.5 km
	WIPR-TV	D26	DT	APP	SAN JUAN, PR	WIPR-750kW La Santa RC	57.6
	WUJA	D24	DT	LIC	CAGUAS, PR	BLANK0000212420	52.3
	WQQZ-CD	D24	DC	LIC	PONCE, PR	BLANK0000058704	19.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
28216.3 3,713,146	26756.5 3,396,360	25784.6 3,269,342	25507.9 3,268,398	1.07 0.03

Undesired	Total IX	Unique IX, before	Unique IX, after
WIPR-TV D26 DT BL 959.0	121,098	951.1 119,692	
WIPR-TV D26 DT APP 1234.8	122,042		1227.9 120,636
WUJA D24 DT LIC 7.9	5,008	4.9 3,845	5.9 3,845
WQQZ-CD D24 DC LIC 12.8	2,318	7.9 2,075	7.9 2,075

Interference to BLANK0000194597 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WQHA	D25	DD	CP	AGUADA, PR	BLANK0000194597	
Undesireds:	WIPR-TV	D26	DT	BL	SAN JUAN, PR	DTVBL53859	57.5 km
	WIPR-TV	D26	DT	APP	SAN JUAN, PR	WIPR-750kW La Santa RC	57.6
	WUJA	D24	DT	LIC	CAGUAS, PR	BLANK0000212420	52.3
	WQQZ-CD	D24	DC	CP	PONCE, PR	BLANK0000127578	19.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
28216.3 3,713,146	26756.5 3,396,360	25333.9 3,213,832	25057.2 3,213,231	1.09 0.02

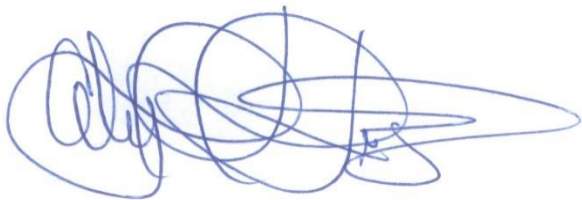
Undesired	Total IX	Unique IX, before	Unique IX, after
WIPR-TV D26 DT BL 959.0	121,098	934.4 116,261	
WIPR-TV D26 DT APP 1234.8	122,042		1211.1 116,862
WUJA D24 DT LIC 7.9	5,008	4.9 3,845	5.9 3,845
WQQZ-CD D24 DC CP 480.3	61,259	458.6 57,585	458.6 57,242

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:	WIPR-TV	D26	DT	BL	SAN JUAN, PR	DTVBL53859	0.4 km
	WIPR-TV	D26	DT	APP	SAN JUAN, PR	WIPR-750kW La Santa RC	0.5
	WKAQ-TV	D28	DT	LIC	SAN JUAN, PR	BLCDT20110325AAP	0.0
Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX
47932.4 3,758,510	46539.6 3,359,188		46365.0 3,326,207		46346.3 3,321,204		0.04 0.15
Undesired	Total IX		Unique IX, before		Unique IX, after		
WIPR-TV D26 DT BL	63.1 9,875		56.2 9,875				
WIPR-TV D26 DT APP	89.7 15,105				74.9 14,878		
WKAQ-TV D28 DT LIC	118.4 23,106		111.4 23,106		103.6 22,879		

Interference to proposal scenario 1
3.78% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WIPR-TV	D26	DT	APP	SAN JUAN, PR	WIPR-750kW La Santa RC	
Undesireds:	WQHA	D25	DD	CP	AGUADA, PR	BLANK0000194597	57.6 km
	WAPA-TV	D27	DT	LIC	SAN JUAN, PR	BLANK0000191707	0.5
Service area	Terrain-limited		IX-free		Percent IX		
46409.3 3,691,247	44898.3 3,265,014		44427.6 3,141,687		1.05 3.78		
Undesired	Total IX		Unique IX		Prcnt Unique IX		
WQHA D25 DD CP	273.7 55,142		268.8 53,900		0.60 1.65		
WAPA-TV D27 DT LIC	201.9 69,427		197.0 68,185		0.44 2.09		



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