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vstudy v2.2.5 (4uoc83)

Database: localhost, Study: WRUA PROP 50kW AZ290 DIE TLP, Model: Longley-Rice

Start: 2022.01.30 21:57:03

Study created: 2022.01.30 21:57:02

Study build station data: LMS TV 2022-01-30

Proposal: WRUA D16 DT APP FAJARDO, PR
File number: WRUA PROP 50kW AZ290 DIE TLP
Facility ID: 15320
Station data: User record
Record ID: 746
Country: U.S.
Zone: II

Search options:

Baseline record excluded if a station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	WMTJ	D15	DT	LIC	FAJARDO, PR	BLANK0000065487	0.1 km
Yes	WVEO	D17	DT	LIC	AGUADILLA, PR	BLANK0000125650	145.1
Yes	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDDT20090623ABB	89.6

No non-directional AM stations were found within 0.8 km

No directional AM stations were found within 3.2 km

Record parameters as studied:

Channel: D16
Latitude: 18 18 29.00 N (NAD83)
Longitude: 65 47 40.00 W
Height AMSL: 1027.5 m
HAAT: 823.1 m
Peak ERP: 50.0 kW
Antenna: Die TLP-16B/VP 290.0 deg
Elev Pattn: Generic
Elec Tilt: 2.00

38.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	29.7 kW	986.3 m	106.1 km
45.0	16.6	957.1	99.8
90.0	19.7	810.2	97.3
135.0	19.3	684.2	93.2
180.0	16.8	851.0	97.0
225.0	31.0	612.6	94.7
270.0	47.5	713.3	102.1
315.0	46.9	970.1	110.1

Distance to Canadian border: 2943.8 km

Distance to the Mexican border: 3307.2 km

**Proposal is within coordination distance of FCC monitoring station

Conditions at FCC monitoring station: Santa Isabel PR

Bearing: 241.3 degrees Distance: 70.0 km

ERP: 38.3 kW HAAT: 577.1 m Field strength: 52.9 dBu, 0.4 mV/m

The proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
 Bearing: 311.3 degrees Distance: 4474.4 km

No land mobile station failures found

Study cell size: 2.00 km
 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 BLANK0000065487 LIC scenario 1

Desired:	Call WMTJ	Chan D15	Svc DT	Status LIC	City, State FAJARDO, PR	File Number BLANK0000065487	Distance
Undesired:	WRUA	D16	DT	BL	FAJARDO, PR	DTVBL15320	0.1 km
	WRUA	D16	DT	APP	FAJARDO, PR	WRUA PROP 50kw AZ290 D	0.1
	WTIN-TV	D14	DT	LIC	PONCE, PR	BLANK0000148086	84.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
34046.8 3,143,148		32668.4 2,846,339		30948.7 2,698,290		30948.7 2,698,290	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
WRUA D16 DT BL		4.0 1,043		4.0 1,043			
WRUA D16 DT APP		4.0 1,043				4.0 1,043	
WTIN-TV D14 DT LIC		1715.7 147,006		1715.7 147,006		1715.7 147,006	

 Interference to BLANK0000125650 LIC scenario 1

Desired:	Call WVEO	Chan D17	Svc DT	Status LIC	City, State AGUADILLA, PR	File Number BLANK0000125650	Distance
Undesired:	WRUA	D16	DT	BL	FAJARDO, PR	DTVBL15320	145.2 km
	WRUA	D16	DT	APP	FAJARDO, PR	WRUA PROP 50kw AZ290 D	145.1
	WECN	D18	DT	LIC	NARANJITO, PR	BLCDT20090610ABG	95.4
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
15112.0 1,091,825		14254.7 912,128		14158.8 899,842		14150.8 900,237	0.06 -0.04
Undesired		Total IX		Unique IX, before		Unique IX, after	
WRUA D16 DT BL		16.0 5,803		8.0 3,200			
WRUA D16 DT APP		24.0 5,408				16.0 2,805	
WECN D18 DT LIC		87.9 9,086		79.9 6,483		79.9 6,483	

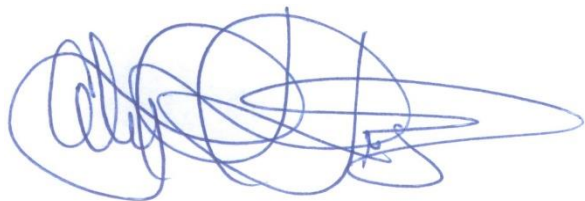
 Interference to BLCDT20090623ABB LIC scenario 1

Desired:	Call WVXF	Chan D17	Svc DT	Status LIC	City, State CHARLOTTE AMALIE, VI	File Number BLCDT20090623ABB	Distance
Undesired:	WRUA	D16	DT	BL	FAJARDO, PR	DTVBL15320	89.6 km
	WRUA	D16	DT	APP	FAJARDO, PR	WRUA PROP 50kw AZ290 D	89.6
	WVEO	D17	DT	LIC	AGUADILLA, PR	BLANK0000125650	234.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
11214.6 85,191		11058.5 78,556		11042.5 78,556		11026.5 78,556	0.14 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
WRUA D16 DT BL		8.0 0		8.0 0			
WRUA D16 DT APP		24.0 0				24.0 0	
WVEO D17 DT LIC		8.0 0		8.0 0		8.0 0	

Interference to proposal scenario 1

Desired:	Call WRUA	Chan D16	Svc DT	Status APP	City, State FAJARD0, PR	File Number WRUA PROP 50kw AZ290 D	Distance
Undesired:	WMTJ	D15	DT	LIC	FAJARD0, PR	BLANK0000065487	0.1 km
	WVE0	D17	DT	LIC	AGUADILLA, PR	BLANK0000125650	145.1
	WVXF	D17	DT	LIC	CHARLOTTE AMALIE, VI	BLCDT20090623ABB	89.6

Service area		Terrain-limited		IX-free		Percent IX	
31583.9	2,985,428	30097.2	2,677,379	30041.2	2,672,270	0.19	0.19
Undesired				Total IX		Unique IX	
WMTJ	D15	DT	LIC	48.1	4,387	48.1	4,387
WVE0	D17	DT	LIC	4.0	722	4.0	722
WVXF	D17	DT	LIC	4.0	0	4.0	0
				Prcnt Unique IX		Prcnt Unique IX	
				0.16		0.16	
				0.01		0.03	
				0.01		0.00	



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