

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: W02CT PROP Maravilla 1x.1, Model: Longley-Rice

Start: 2018.09.22 21:04:32

Study created: 2018.09.22 21:04:32

Study build station data: LMS TV 2018-09-21

Proposal: W02CT-D D2 LD APP ARECIBO, PR

File number: W02CT PROP Maravilla

Facility ID: 183171

Station data: User record

Record ID: 412

Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Search options:

Baseline record excluded if station has CP

All records for new LPTV stations excluded

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	W02CU-D	D2	LD	LIC	MAYAGUEZ, PR	BLANK0000006966	68.6 km
Yes	W02CS-D	D2	LD	APP	PONCE, PR	BLANK00000059805	43.9
Yes	W02CS-D	D2	LD	LIC	PONCE, PR	BLANK0000007285	0.0
No	WZNA-LD	D3	LD	LIC	GUAYNABO, PR	BLDVL20140317ABW	49.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D2

Mask: Full Service

Latitude: 18 9 7.40 N (NAD83)

Longitude: 66 33 13.40 W

Height AMSL: 1211.5 m (Adjusted based on actual ground elevation calculation)

HAAT: 724.5 m

Peak ERP: 3.00 kW

Antenna: KAT CL-24 180.0 deg

Elev Pattn: Generic

Elec Tilt: 2.00

43.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.003 kW	600.8 m	25.9 km
45.0	0.010	533.9	33.1
90.0	0.266	650.5	64.0
135.0	2.80	934.1	91.7
180.0	2.42	1019.3	91.9
225.0	2.80	908.7	91.2
270.0	0.266	471.5	55.6
315.0	0.010	678.0	37.3

Distance to Canadian border: 2959.5 km

Distance to Mexican border: 3238.4 km

Conditions at FCC monitoring station: Santa Isabel PR

Bearing: 130.8 degrees    Distance: 24.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 311.7 degrees    Distance: 4425.8 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 BLANK0000006966 LIC scenario 1

\*\*IX: 3.67% interference caused

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W02CU-D	D2	LD	LIC	MAYAGUEZ, PR	BLANK0000006966	
Undesireds:	W02CT-D	D2	LD	APP	ARECIBO, PR	W02CT PROP Maravilla	68.6 km
	W02CS-D	D2	LD	APP	PONCE, PR	BLANK00000059805	107.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
8207.3	833,834	8123.5		795,929	7234.1	746,688	21.56 3.67
Undesired		Total IX		Unique IX, before		Unique IX, after	
W02CT-D	D2 LD APP	1691.3		28,771		1559.6	27,379
W02CS-D	D2 LD APP	889.4		49,241	889.4	757.8	47,849

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Interference to BLANK0000006966 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W02CU-D	D2	LD	LIC	MAYAGUEZ, PR	BLANK0000006966	
Undesireds:	W02CT-D	D2	LD	APP	ARECIBO, PR	W02CT PROP Maravilla	68.6 km
	W02CS-D	D2	LD	LIC	PONCE, PR	BLANK0000007285	68.5
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
8207.3	833,834	8123.5		795,929	5832.4	748,338	0.02 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
W02CT-D	D2 LD APP	1691.3		28,771		1.0	0
W02CS-D	D2 LD LIC	2291.1		47,591	2291.1	600.8	18,820

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Interference to BLANK00000059805 APP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W02CS-D	D2	LD	APP	PONCE, PR	BLANK00000059805	
Undesireds:	W02CT-D	D2	LD	APP	ARECIBO, PR	W02CT PROP Maravilla	43.9 km
	W02CU-D	D2	LD	LIC	MAYAGUEZ, PR	BLANK0000006966	107.1
	WZNA-LD	D3	LD	LIC	GUAYNABO, PR	BLDVL20140317ABW	6.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
9091.4	2,073,662	9033.3		2,044,046	8887.7	1,949,172	0.58 0.72
Undesired		Total IX		Unique IX, before		Unique IX, after	
W02CT-D	D2 LD APP	69.0		28,908		51.2	14,011
W02CU-D	D2 LD LIC	98.4		18,659	98.4	96.4	18,157
WZNA-LD	D3 LD LIC	47.3		76,215	47.3	31.5	61,820

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Interference to BLANK0000007285 LIC scenario 1

\*\*IX: 32.12% interference caused

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W02CS-D	D2	LD	LIC	PONCE, PR	BLANK0000007285	
Undesireds:	W02CT-D	D2	LD	APP	ARECIBO, PR	W02CT PROP Maravilla	0.0 km
	W02CU-D	D2	LD	LIC	MAYAGUEZ, PR	BLANK0000006966	68.5
	WZNA-LD	D3	LD	LIC	GUAYNABO, PR	BLDVL20140317ABW	49.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
13157.5 1,479,787		12403.7 1,261,030		11624.0 1,154,178		3961.4 783,455	65.92 32.12
Undesired		Total IX		Unique IX, before		Unique IX, after	
W02CT-D	D2 LD APP	8432.5 474,039				7662.6 370,723	
W02CU-D	D2 LD LIC	777.8 106,562		777.8 106,562		9.8 3,536	
WZNA-LD	D3 LD LIC	2.0 290		2.0 290		0.0 0	

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Interference to proposal scenario 1

\*\*MX: 6.56% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W02CT-D	D2	LD	APP	ARECIBO, PR	W02CT PROP Maravilla	
Undesireds:	W02CU-D	D2	LD	LIC	MAYAGUEZ, PR	BLANK0000006966	68.6 km
	W02CS-D	D2	LD	APP	PONCE, PR	BLANK00000059805	43.9
	WZNA-LD	D3	LD	LIC	GUAYNABO, PR	BLDVL20140317ABW	49.0
Service area		Terrain-limited		IX-free		Percent IX	
13830.7 1,127,852		13506.6 1,066,665		13184.2 996,741		2.39 6.56	
Undesired		Total IX		Unique IX		Prcnt Unique IX	
W02CU-D	D2 LD LIC	272.2 52,198		271.2 52,198		2.01 4.89	
W02CS-D	D2 LD APP	51.2 17,726		48.3 17,605		0.36 1.65	
WZNA-LD	D3 LD LIC	2.0 121		0.0 0		0.00 0.00	

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Interference to proposal scenario 2

34.69% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W02CT-D	D2	LD	APP	ARECIBO, PR	W02CT PROP Maravilla	
Undesireds:	W02CU-D	D2	LD	LIC	MAYAGUEZ, PR	BLANK0000006966	68.6 km
	W02CS-D	D2	LD	LIC	PONCE, PR	BLANK0000007285	0.0
	WZNA-LD	D3	LD	LIC	GUAYNABO, PR	BLDVL20140317ABW	49.0
Service area		Terrain-limited		IX-free		Percent IX	
13830.7 1,127,852		13506.6 1,066,665		5427.6 696,600		59.82 34.69	
Undesired		Total IX		Unique IX		Prcnt Unique IX	
W02CU-D	D2 LD LIC	272.2 52,198		0.0 0		0.00 0.00	
W02CS-D	D2 LD LIC	8078.1 370,065		7804.9 317,746		57.79 29.79	
WZNA-LD	D3 LD LIC	2.0 121		1.0 0		0.01 0.00	