

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: W02CT PROP Maravilla EX7285 1x.1, Model: Longley-Rice

Start: 2018.09.23 14:56:38

Interference Study to show the resulting interference after W02CS and W02CT minor changes are completed.

Study created: 2018.09.23 14:56:38

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

Individual records excluded:

0000007285 W02CS-D D2 LD LIC PONCE, PR BLANK0000007285

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
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%

Interference to BLANK0000006966 LIC scenario 1

**IX: 3.67% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	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	BLANK0000059805	107.1

Service area	Terrain-limited	X-free, before	IX-free, after	Percent New IX
8207.3 833,834	8123.5 795,929	7234.1 746,688	5674.5 19,309	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 49,241	757.8 47,849

Interference to BLANK0000059805 APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W02CS-D	D2	LD	APP	PONCE, PR	BLANK0000059805	

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	8836.5 1,935,161	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 18,659	96.4 18,157
WZNA-LD D3 LD LIC	47.3 76,215	47.3 76,215	31.5 61,820

Interference to proposal scenario 1

**MX: 6.56% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	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	BLANK0000059805	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