

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: WLII-TV CAGUAS 180 kW 2 x .5-Final, Model: Longley-Rice
Start: 2021.10.05 21:02:39

Study created: 2021.10.05 21:02:39

Study build station data: LMS TV 2021-10-03

Proposal: WLII-DT D11 DT APP CAGUAS, PR
File number: WLII-TV CAGUAS 180 kW
Facility ID: 19777
Station data: User record
Record ID: 693
Country: U.S.
Zone: II

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	W10BG-D	D10	DC	LIC	MAYAGUEZ, PR	BLANK0000001598	111.7 km
Yes	WOLE-DT	D12	DT	LIC	AGUADILLA, PR	BLANK0000113177	93.7

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: D11
Latitude: 18 16 47.00 N (NAD83)
Longitude: 66 6 45.00 W
Height AMSL: 572.0 m
HAAT: 351.8 m
Peak ERP: 180 kW
Antenna: DIE-DCBR-C3-12/26HB-1 (ID 118827) 0.0 deg
Elev Pattn: Generic
Elec Tilt: 1.20

36.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	170 kW	504.7 m	135.8 km
45.0	128	458.6	128.8
90.0	123	461.6	128.6
135.0	179	415.3	128.4
180.0	84.0	166.4	98.9
225.0	2.04	141.6	68.3
270.0	2.34	185.7	74.4
315.0	54.8	480.2	121.3

ERP exceeds maximum

ERP: 180 kW ERP maximum: 120 kW (Application complies with the 'largest station in the market' rule)

Distance to Canadian border: 2946.0 km

Distance to the Mexican border: 3276.9 km

Conditions at FCC monitoring station: Santa Isabel PR
Bearing: 222.3 degrees Distance: 41.2 km

The proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 311.4 degrees Distance: 4451.2 km

Study cell size: 2.00 km

Profile point spacing: 0.50 km (Higher resolution is requested)

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

Interference to BLANK0000113177 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WOLE-DT	D12	DT	LIC	AGUADILLA, PR	BLANK0000113177	
Undesireds:	WLII-DT	D11	DT	BL	CAGUAS, PR	DTVBL19777	93.7 km
	WLII-DT	D11	DT	APP	CAGUAS, PR	WLII-TV CAGUAS 180 kW	93.7
	WORO-DT	D13	DT	LIC	FAJARDO, PR	BLCDT20131112BKR	127.3

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
46798.2 1,970,441	46229.9 1,662,021	45958.1 1,571,202	45814.3 1,568,945	0.31 0.14

Undesired	Total IX	Unique IX, before	Unique IX, after
WLII-DT D11 DT BL	123.9 44,795	20.0 11,373	
WLII-DT D11 DT APP	315.7 61,528		163.8 13,630
WORO-DT D13 DT LIC	251.9 79,446	148.0 46,024	100.0 31,548

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WLII-DT	D11	DT	APP	CAGUAS, PR	WLII-TV CAGUAS 180 kW	
Undesireds:	WOLE-DT	D12	DT	LIC	AGUADILLA, PR	BLANK0000113177	93.7 km

Service area	Terrain-limited	IX-free	Percent IX
40466.5 3,069,533	38501.7 2,778,546	38064.4 2,778,039	1.14 0.02

Undesired	Total IX	Unique IX	Prct Unique IX
WOLE-DT D12 DT LIC	437.3 507	437.3 507	1.14 0.02