

tvstudy v2.2.4 (Z2Qqz3)
Database: localhost, Study: wnjx31am2, Model: Longley-Rice

Study build station data: LMS TV 2017-12-04 (100)

Proposal: WNJX31AM2 D31 DT APP MAYAGUEZ, PR
File number: wnjx31am2
Facility ID: 73336
Station data: User record
Record ID: 1950
Country: U.S.
Zone: II

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	WRFB	D30	DT	CP	CAROLINA, PR	BLANK0000026985	120.1 km
Yes	WRFB	D30	DT	APP	CAROLINA, PR	BLANK0000034795	94.8
Yes	WRFB	D30	DT	BL	CAROLINA, PR	DTVBL54443	120.1
Yes	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	0.1
Yes	WIPM-TV	D32	DT	BL	MAYAGUEZ, PR	DTVBL53863	0.1

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D31
Latitude: 18 8 51.60 N (NAD83)
Longitude: 66 58 56.10 W
Height AMSL: 1010.9 m
HAAT: 703.0 m
Peak ERP: 476 kW
Antenna: DIE-TFU-16ETT/VP-R 4C170 (ID 1002014) 0.0 deg
Elev Pattnr: Generic
Elec Tilt: 1.00

40.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	476 kW	686.9 m	119.0 km
45.0	217	572.7	106.5
90.0	45.7	229.0	69.5
135.0	39.5	729.9	97.9
180.0	275	909.3	122.1
225.0	471	901.0	127.2
270.0	371	872.5	123.9
315.0	380	720.5	118.4

ERP exceeds maximum

ERP: 476 kW ERP maximum: 248 kW (Proposal is compliant with 'largest station in market' criteria.)

Distance to Canadian border: 2959.8 km

Distance to Mexican border: 3196.4 km

**Proposal is within coordination distance of FCC monitoring station
Conditions at FCC monitoring station: Santa Isabel PR
Bearing: 103.8 degrees Distance: 66.1 km
ERP: 60.2 kW HAAT: 494.6 m Field strength: 55.7 dBu, 0.6 mV/m

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 311.9 degrees Distance: 4392.4 km

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 BLANK0000026985 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WRFB	D30	DT	CP	CAROLINA, PR	BLANK0000026985	
Undesireds:	WNJX-TV	D31	DT	BL	MAYAGUEZ, PR	DTVBL73336	120.2 km
	WNJX31AM2	D31	DT	APP	MAYAGUEZ, PR	wnjx31am2	120.1
	WORA-TV	D29	DD	LIC	MAYAGUEZ, PR	BLANK0000003621	120.7
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
17648.7 2,674,527		15257.0 2,401,878		14968.1 2,399,329		14960.0 2,399,329	0.05 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
WNJX-TV D31 DT BL		28.1 0		0.0 0			
WNJX31AM2 D31 DT APP		112.3 0				8.0 0	
WORA-TV D29 DD LIC		288.9 2,549		260.8 2,549		184.6 2,549	

Interference to BLANK0000034795 APP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WRFB	D30	DT	APP	CAROLINA, PR	BLANK0000034795	
Undesireds:	WNJX-TV	D31	DT	BL	MAYAGUEZ, PR	DTVBL73336	94.8 km
	WNJX31AM2	D31	DT	APP	MAYAGUEZ, PR	wnjx31am2	94.8
	WORA-TV	D29	DD	LIC	MAYAGUEZ, PR	BLANK0000003621	95.4
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
19648.7 2,977,898		15492.5 2,564,360		15248.0 2,556,421		15248.0 2,556,421	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
WNJX-TV D31 DT BL		224.5 7,658		20.0 5,779			
WNJX31AM2 D31 DT APP		228.6 6,966				20.0 5,779	
WORA-TV D29 DD LIC		224.6 2,160		20.0 281		16.0 973	

Interference to DTVBL54443 BL scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WRFB	D30	DT	BL	CAROLINA, PR	DTVBL54443	
Undesireds:	WNJX-TV	D31	DT	BL	MAYAGUEZ, PR	DTVBL73336	120.2 km
	WNJX31AM2	D31	DT	APP	MAYAGUEZ, PR	wnjx31am2	120.1
	WORA-TV	D29	DD	LIC	MAYAGUEZ, PR	BLANK0000003621	120.7
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
17648.7 2,674,527		15296.9 2,407,131		15008.0 2,404,582		15000.0 2,404,582	0.05 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
WNJX-TV D31 DT BL		28.1 0		0.0 0			
WNJX31AM2 D31 DT APP		116.4 0				8.0 0	
WORA-TV D29 DD LIC		288.9 2,549		260.8 2,549		180.6 2,549	

Interference to BLANK0000024551 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	
Undesireds:	WNJX-TV	D31	DT	BL	MAYAGUEZ, PR	DTVBL73336	0.0 km
	WNJX31AM2	D31	DT	APP	MAYAGUEZ, PR	wnjx31am2	0.1
	WJWN-TV	D33	DT	CP	SAN SEBASTIAN, PR	BLANK0000027870	0.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
44309.7 2,196,157		43713.3 1,891,694		43713.3 1,891,694		43705.3 1,887,253	0.02 0.23
Undesired		Total IX		Unique IX, before		Unique IX, after	
WNJX-TV D31 DT BL		0.0 0		0.0 0			
WNJX31AM2 D31 DT APP		8.0 4,441				8.0 4,441	

Interference to DTVBL53863 BL scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WIPM-TV	D32	DT	BL	MAYAGUEZ, PR	DTVBL53863	
Undesireds:	WNJX-TV	D31	DT	BL	MAYAGUEZ, PR	DTVBL73336	0.0 km
	WNJX31AM2	D31	DT	APP	MAYAGUEZ, PR	wnjx31am2	0.1
	WJWN-TV	D33	DT	CP	SAN SEBASTIAN, PR	BLANK0000027870	0.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
44325.8 2,196,157		43753.4 1,916,974		43753.4 1,916,974		43749.4 1,913,409	0.01 0.19
Undesired		Total IX		Unique IX, before		Unique IX, after	
WNJX-TV D31 DT BL		0.0 0		0.0 0			
WNJX31AM2 D31 DT APP		4.0 3,565				4.0 3,565	