

tvstudy v2.2.3 (Dxtpx3)
Database: localhost, Study: wnjx-p4, Model: Longley-Rice

Study build station data: LMS TV 2017-08-29 (46)

Proposal: WNJX-P4 D31 DT APP MAYAGUEZ, PR
File number: wnjx-p4
Facility ID: 73336
Station data: User record
Record ID: 1220
Country: U.S.
Zone: II

Stations affected by proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
WRFB	D30	DT	CP	CAROLINA, PR	BLANK0000026985	120.1 km
WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	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 52.00 N (NAD83)
Longitude: 66 58 57.30 W
Height AMSL: 1006.7 m
HAAT: 699.0 m
Peak ERP: 476 kW
Antenna: DIE-TFU-16ETT/VP-R 4C170 0.0 deg
Elev Pattnr: Generic
Elec Tilt: 1.0

40.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	476 kW	682.6 m	118.8 km
45.0	217	571.8	106.4
90.0	45.7	222.8	69.0
135.0	39.5	724.9	97.8
180.0	275	904.9	122.0
225.0	471	897.3	127.1
270.0	371	869.0	123.8
315.0	380	717.5	118.2

ERP exceeds maximum
ERP: 476 kW ERP maximum: 250 kW

**Proposal service area extends beyond baseline plus 1.0%
Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 2482.1 km

Distance to Mexican border: 3196.3 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: 489.5 m Field strength: 55.6 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
	WNJX-P4	D31	DT	APP	MAYAGUEZ, PR	wnjx-p4	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	14964.1 2,399,329	0.03 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
WNJX-TV	D31 DT BL	28.1	0	0.0	0		
WNJX-P4	D31 DT APP	108.3	0			4.0 0	
WORA-TV	D29 DD LIC	288.9	2,549	260.8	2,549	184.6 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
	WNJX-P4	D31	DT	APP	MAYAGUEZ, PR	wnjx-p4	0.1
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		
WNJX-P4	D31 DT APP	8.0	4,441			8.0 4,441	

Interference to proposal, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WNJX-P4	D31	DT	APP	MAYAGUEZ, PR	wnjx-p4	
Undesireds:	WRFB	D30	DT	CP	CAROLINA, PR	BLANK0000026985	120.1 km
	WIPM-TV	D32	DT	CP	MAYAGUEZ, PR	BLANK0000024551	0.1
Service area		Terrain-limited		IX-free		Percent IX	
39240.2	1,624,070	38483.7	1,412,597	38463.7	1,407,039	0.05 0.39	
Undesired		Total IX		Unique IX		Prcnt Unique IX	
WRFB	D30 DT CP	8.0	1,907	8.0	1,907	0.02 0.13	
WIPM-TV	D32 DT CP	12.0	3,651	12.0	3,651	0.03 0.26	