

ALLOCATION ANALYSIS

Appendix A and B are two similar allocation studies using TVStudy V2.2.5 to study the construction permitted WTJX-TV facility. Appendix A considers pre-transition facilities and excludes masking from post-transition applications and construction permits. Appendix A was generated because in some instances, post-transition masking may hide prohibited interference to pre-transition stations. Appendix B considers post-transition facilities and masking. Both studies indicate that the WTJX-TV construction permitted facility having FCC File No.: 0000025655 may operate as permitted beginning December 2, 2018 and thereafter without causing prohibited interference to pre or post transition facilities.

CERTIFICATION

The foregoing statement and the report regarding the aforementioned engineering work are true and correct to the best of my knowledge.

Ryan Wilhour



Consulting Engineer
October 2, 2018

Appendix A – TVStudy V2.2.5 Pre-Transition Allocation Analysis

Study created: 2018.10.02 14:35:37
Study build station data: LMS TV 2018-09-30
Proposal: WTJX-TV D36 DT CP CHARLOTTE AMALIE, VI
File number: BLANK0000025655
Facility ID: 70287
Station data: LMS TV 2018-09-30
Record ID: 25076f915c132a1b015c703137644548
Country: U.S.
Zone: II
Build options:
Protect pre-transition records not on baseline channel
Search options:
Non-U.S. records included
Baseline record excluded if station has CP
All post-transition APP, CP, and baseline records excluded
Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WIPM-TV	D35	DT	LIC	MAYAGUEZ, PR	BLEDT20060627ACQ	216.1 km
Yes	WIMN-CD	D36	DC	CP	ARECIBO, PR	BLANK0000036058	178.5
No	WIMN-CD	D36	DC	LIC	ARECIBO, PR	BLDTA20140225AAJ	178.5
Yes	WVOZ-TV	D36	DT	LIC	PONCE, PR	BLANK0000058766	192.4

No non-directional AM stations found within 0.8 km
No directional AM stations found within 3.2 km
Record parameters as studied:

Channel: D36
Latitude: 18 21 20.80 N (NAD83)
Longitude: 64 56 51.50 W
Height AMSL: 519.8 m
HAAT: 505.6 m
Peak ERP: 42.9 kW
Antenna: Dielectric-TLP-8/VP S180 (ID 1001442) 0.0 deg
Elev Pattn: Generic
Elec Tilt: 0.50

40.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	2.51 kW	519.8 m	68.1 km
45.0	15.8	512.0	80.4
90.0	38.9	501.6	86.3
135.0	42.8	505.4	87.2
180.0	42.5	517.7	87.9
225.0	33.5	518.0	86.2
270.0	7.53	450.3	73.0
315.0	4.27	519.8	71.6

Distance to Canadian border: 2942.3 km
Distance to Mexican border: 3389.1 km

Conditions at FCC monitoring station: Santa Isabel PR
Bearing: 255.7 degrees Distance: 155.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 310.9 degrees Distance: 4538.2 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%

No IX check failures found.

Appendix B – TVStudy V2.2.5 Post Transition Allocation Analysis

Study created: 2018.10.02 14:34:05
Study build station data: LMS TV 2018-09-30
Proposal: WTJX-TV D36 DT CP CHARLOTTE AMALIE, VI
File number: BLANK0000025655
Facility ID: 70287
Station data: LMS TV 2018-09-30
Record ID: 25076f915c132a1b015c703137644548
Country: U.S.
Zone: II
Build options:
Protect pre-transition records not on baseline channel

Search options:
Non-U.S. records included
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WCCV-TV	D35	DT	CP	ARECIBO, PR	BLANK0000026046	191.7 km
No	WIPM-TV	D35	DT	LIC	MAYAGUEZ, PR	BLEDT20060627ACQ	216.1
Yes	WIMN-CD	D36	DC	CP	ARECIBO, PR	BLANK0000036058	178.5
No	WIMN-CD	D36	DC	LIC	ARECIBO, PR	BLDTA20140225AAJ	178.5
Yes	WVOZ-TV	D36	DT	LIC	PONCE, PR	BLANK0000058766	192.4

No non-directional AM stations found within 0.8 km
No directional AM stations found within 3.2 km
Record parameters as studied:

Channel: D36
Latitude: 18 21 20.80 N (NAD83)
Longitude: 64 56 51.50 W
Height AMSL: 519.8 m
HAAT: 505.6 m
Peak ERP: 42.9 kW
Antenna: Dielectric-TLP-8/VP S180 (ID 1001442) 0.0 deg
Elev Pattn: Generic
Elec Tilt: 0.50

40.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	2.51 kW	519.8 m	68.1 km
45.0	15.8	512.0	80.4
90.0	38.9	501.6	86.3
135.0	42.8	505.4	87.2
180.0	42.5	517.7	87.9
225.0	33.5	518.0	86.2
270.0	7.53	450.3	73.0
315.0	4.27	519.8	71.6

Distance to Canadian border: 2942.3 km
Distance to Mexican border: 3389.1 km
Conditions at FCC monitoring station: Santa Isabel PR
Bearing: 255.7 degrees Distance: 155.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 310.9 degrees Distance: 4538.2 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%

No IX check failures found.