

TVSTUDY ANALYSIS FOR PROPOSED WFGC, PALM BEACH, FLORIDA, CHANNEL 7 (RELOCATION TO FCC ASRN 1220033)

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: wfgc035, Model: Longley-Rice

Study build station data: LMS TV 2023-05-06

Proposal: WFGC035 D7 DT APP PALM BEACH, FL
File number: wfgc035
Facility ID: 11123
Station data: User record
Record ID: 5128
Country: U.S.
Zone: III

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	WACX	D7	DT	LIC	LEESBURG, FL	BLANK0000115924	238.0 km

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D7
Latitude: 26 35 21.20 N (NAD83)
Longitude: 80 12 42.80 W
Height AMSL: 359.1 m
HAAT: 354.0 m
Peak ERP: 67.6 kW
Antenna: DIE-THV-5A7/VP-R P220 SM 0.0 deg
Elev Pattrn: Generic
Elec Tilt: 1.50

36.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	67.6 kW	354.0 m	112.4 km
45.0	34.0	354.2	106.4
90.0	14.2	354.5	99.2
135.0	39.9	354.0	107.7
180.0	66.0	354.6	112.2
225.0	17.1	355.1	100.8
270.0	1.21	355.1	80.2
315.0	23.5	354.4	103.3

Distance to Canadian border: 1688.8 km

Distance to Mexican border: 1665.8 km

Conditions at FCC monitoring station: Vero Beach FL
Bearing: 339.8 degrees Distance: 120.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 309.4 degrees Distance: 2751.4 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%

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Interference to BLANK0000115924 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WACX	D7	DT	LIC	LEESBURG, FL	BLANK0000115924	
Undesireds:	WFGC	D7	DT	BL	PALM BEACH, FL	DTVBL11123	220.3 km
	WFGC035	D7	DT	APP	PALM BEACH, FL	wfgc035	238.0
	WXGA-TV	D7	DT	LIC	WAYCROSS, GA	BLANK0000113481	326.5
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
40630.1	4,292,829	40512.8	4,288,149	40456.8	4,282,893	39971.0 4,269,938	1.20 0.30
Undesired		Total IX		Unique IX, before		Unique IX, after	
WFGC D7 DT BL		0.0	0	0.0	0		
WFGC035 D7 DT APP		485.8	12,955			485.8 12,955	
WXGA-TV D7 DT LIC		56.0	5,256	56.0	5,256	56.0 5,256	

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WFGC035	D7	DT	APP	PALM BEACH, FL	wfgc035	
Undesireds:	WACX	D7	DT	LIC	LEESBURG, FL	BLANK0000115924	238.0 km
Service area		Terrain-limited		IX-free		Percent IX	
33475.6	5,790,207	33475.6	5,790,207	33143.1	5,767,329	0.99 0.40	
Undesired		Total IX		Unique IX		Prcnt Unique IX	
WACX D7 DT LIC		332.6	22,878	332.6	22,878	0.99 0.40	
