

tvstudy v2.2.1
Database: localhost, Study: WFTT 300 KW, Model: Longley-Rice
Start: 2017.05.16 10:10:16

Study created: 2017.05.16 10:10:10

Study build station data: LMS TV FCC LMS 5-10-17

Proposal: WFTT-DT D20 DT APP TAMPA, FL
File number: WFTT 300 KW
Facility ID: 60559
Station data: User record
Record ID: 164
Country: U.S.
Zone: III

Records before 2017-04-13 excluded if not on baseline channel

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
WTOG	D19	DT	BL	ST. PETERSBURG, FL	DTVBL74112	2.0 km
WTVX	D20	DT	BL	FORT PIERCE, FL	DTVBL35575	201.7
WCWJ	D20	DT	BL	JACKSONVILLE, FL	DTVBL29712	278.5
WZZZ-CD	D20	DC	BL	ORLANDO, ETC., FL	DTVBL70415	129.0
WCTV	D20	DT	BL	THOMASVILLE, GA	DTVBL31590	353.4
WCLF	D21	DT	LIC	CLEARWATER, FL	BLCDT20060627AAQ	3.1
WDYB-CD	D21	DC	BL	DAYTONA BEACH, FL	DTVBL41375	157.7
WKME-CD	D21	DC	BL	KISSIMMEE, FL	DTVBL61702	93.0

No AM stations found within 2.0 km

Record parameters as studied:

Channel: D20
Latitude: 27 50 51.50 N (NAD83)
Longitude: 82 15 49.40 W
Height AMSL: 440.8 m
HAAT: 420.0 m
Peak ERP: 300 kW
Antenna: ERI-ATW22HS4-ESC1-20H 0.0 deg

39.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	285 kW	420.5 m	99.5 km
45.0	92.1	424.5	90.8
90.0	11.4	414.3	76.2
135.0	90.3	410.2	89.9
180.0	288	410.4	98.9
225.0	274	421.8	99.3
270.0	295	432.7	100.8
315.0	270	433.3	100.0

Database HAAT does not agree with computed HAAT
Database HAAT: 420 m Computed HAAT: 421 m

Proposal service area is within baseline plus 1.0%
Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 1537.1 km

Distance to Mexican border: 1467.0 km

Conditions at FCC monitoring station: Vero Beach FL
Bearing: 99.1 degrees Distance: 162.5 km
ERP: 11.2 kW Field strength: 12.6 dBu, 0.0 mV/m

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 308.9 degrees Distance: 2505.8 km

No land mobile station failures found

Study cell size: 2.00 km
Profile resolution: 1.0 points/km

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

Maximum new IX to LPTV: 2.00%

Interference to DTVBL74112 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL35575 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WTVX	D20	DT	BL	FORT PIERCE, FL	DTVBL35575			
Undesireds:	WFTT-DT	D20	DT	BL	TAMPA, FL	DTVBL60559	201.7 km		
	WFTT-DT	D20	DT	APP	TAMPA, FL	WFTT 300 KW	201.7		
	WSBS-CD	D19	DC	BL	MIAMI, ETC., FL	DTVBL29547	127.8		
	WCWJ	D20	DT	BL	JACKSONVILLE, FL	DTVBL29712	368.9		
	WZZX-CD	D20	DC	BL	ORLANDO, ETC., FL	DTVBL70415	180.9		
	WKME-CD	D21	DC	BL	KISSIMMEE, FL	DTVBL61702	176.4		
	WPXM-TV	D21	DT	BL	MIAMI, FL	DTVBL48608	127.8		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
33245.6		2,976,536		33245.6		2,975,639	0.01 0.00		
				33037.9		2,755,549			
Undesired				Total IX	Unique IX, before	Unique IX, after			
WFTT-DT D20 DT BL				55.6	3,967	51.6	65		
WFTT-DT D20 DT APP				59.6	4,057	55.6	155		
WSBS-CD D19 DC BL				24.0	30,963	0.0	0		
WPXM-TV D21 DT BL				156.1	220,832	132.1	189,869		

Interference to DTVBL29712 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WCWJ	D20	DT	BL	JACKSONVILLE, FL	DTVBL29712			
Undesireds:	WFTT-DT	D20	DT	BL	TAMPA, FL	DTVBL60559	278.5 km		
	WFTT-DT	D20	DT	APP	TAMPA, FL	WFTT 300 KW	278.5		
	WJAX-TV	D19	DT	LIC	JACKSONVILLE, FL	BLCDT20030328ANV	0.8		
	WTVX	D20	DT	BL	FORT PIERCE, FL	DTVBL35575	368.9		
	WZZX-CD	D20	DC	BL	ORLANDO, ETC., FL	DTVBL70415	192.5		
	WCTV	D20	DT	BL	THOMASVILLE, GA	DTVBL31590	231.9		
	WCBD-TV	D20	DT	BL	CHARLESTON, SC	DTVBL10587	344.8		
	WDYB-CD	D21	DC	BL	DAYTONA BEACH, FL	DTVBL41375	148.0		
	WJEB-TV	D21	DT	BL	JACKSONVILLE, FL	DTVBL29719	0.1		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
24333.5		1,582,959		24333.5		1,579,167	0.00 0.00		
				23763.6		1,579,167			
Undesired				Total IX	Unique IX, before	Unique IX, after			
WFTT-DT D20 DT BL				8.0	854	4.0	197		
WFTT-DT D20 DT APP				8.0	854	4.0	197		
WCTV D20 DT BL				557.9	3,470	545.9	2,619		
WJEB-TV D21 DT BL				16.0	319	8.0	125		

Interference to DTVBL70415 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL31590 BL, scenario 1
Proposal causes no interference.

Interference to BLCDT20060627AAQ LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCLF	D21	DT	LIC	CLEARWATER, FL	BLCDT20060627AAQ	
Undesireds:	WFTT-DT	D20	DT	BL	TAMPA, FL	DTVBL60559	3.1 km
	WFTT-DT	D20	DT	APP	TAMPA, FL	WFTT 300 KW	3.1
	WZZX-CD	D20	DC	BL	ORLANDO, ETC., FL	DTVBL70415	130.7
	WDYB-CD	D21	DC	BL	DAYTONA BEACH, FL	DTVBL41375	160.0
	WJEB-TV	D21	DT	BL	JACKSONVILLE, FL	DTVBL29719	281.3
	WKME-CD	D21	DC	BL	KISSIMMEE, FL	DTVBL61702	94.7
	WPXM-TV	D21	DT	BL	MIAMI, FL	DTVBL48608	289.0
	WGCU	D22	DT	BL	FORT MYERS, FL	DTVBL62388	122.0
	WOTF-DT	D22	DT	BL	MELBOURNE, FL	DTVBL5802	143.5
	WARP-CD	D22	DC	BL	TAMPA-ST. PETERSBURG, FL	DTVBL55106	36.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
26789.3 4,097,389	26785.3 4,096,624	26640.1 4,080,859	26623.9 4,079,698	0.06 0.03

Undesired	Total IX	Unique IX, before	Unique IX, after
WFTT-DT D20 DT BL	12.1 303	12.1 303	
WFTT-DT D20 DT APP	28.2 1,464		28.2 1,464
WJEB-TV D21 DT BL	52.3 2,316	44.3 383	44.3 383
WKME-CD D21 DC BL	76.9 14,291	60.7 12,026	60.7 12,026
WGCU D22 DT BL	11.9 788	11.9 788	11.9 788
WOTF-DT D22 DT BL	16.2 2,265	0.0 0	0.0 0

Interference to DTVBL41375 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL61702 BL, scenario 1
Proposal causes no interference.

Interference to proposal, scenario 1
0.96% interference

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WFTT-DT	D20	DT	APP	TAMPA, FL	WFTT 300 KW	
Undesireds:	WTOG	D19	DT	BL	ST. PETERSBURG, FL	DTVBL74112	2.0 km
	WTVX	D20	DT	BL	FORT PIERCE, FL	DTVBL35575	201.7
	WCWJ	D20	DT	BL	JACKSONVILLE, FL	DTVBL29712	278.5
	WZZX-CD	D20	DC	BL	ORLANDO, ETC., FL	DTVBL70415	129.0
	WCTV	D20	DT	BL	THOMASVILLE, GA	DTVBL31590	353.4
	WCLF	D21	DT	LIC	CLEARWATER, FL	BLCDT20060627AAQ	3.1
	WDYB-CD	D21	DC	BL	DAYTONA BEACH, FL	DTVBL41375	157.7
	WKME-CD	D21	DC	BL	KISSIMMEE, FL	DTVBL61702	93.0

Service area	Terrain-limited	IX-free	Percent IX
28065.7 4,296,601	28057.7 4,296,540	27572.6 4,255,287	1.73 0.96

Undesired	Total IX	Unique IX	Prcnt Unique IX
WTOG D19 DT BL	76.7 15,597	60.5 14,412	0.22 0.34
WTVX D20 DT BL	392.3 23,950	242.8 14,348	0.87 0.33
WCWJ D20 DT BL	20.1 527	4.0 427	0.01 0.01
WZZX-CD D20 DC BL	4.0 91	0.0 0	0.00 0.00
WCTV D20 DT BL	12.1 69	0.0 0	0.00 0.00
WKME-CD D21 DC BL	141.5 11,790	20.2 1,301	0.07 0.03