

WCLF CP Modification Application TVStudy Analysis

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: WCLF CP Mod, Model: Longley-Rice
Start: 2022.12.15 13:46:19

Study created: 2022.12.15 13:46:19

Study build station data: LMS TV 2022-12-13 #134

Proposal: WCLF D21 DT APP CLEARWATER, FL
File number: WCLF CP Mod
Facility ID: 11125
Station data: User record
Record ID: 265
Country: U.S.
Zone: III

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WTVX	D20	DT	LIC	FORT PIERCE, FL	BLANK0000080021	201.7 km
No	WXXZ-CD	D20	DC	LIC	ORLANDO, ETC., FL	BLANK0000108580	141.9
No	WVEA-TV	D20	DT	LIC	TAMPA, FL	BLANK0000099184	0.0
Yes	WDYB-CD	D21	DC	LIC	DAYTONA BEACH, FL	BLANK0000106571	150.8
Yes	WJEB-TV	D21	DT	LIC	JACKSONVILLE, FL	BLANK0000105949	278.4
Yes	WKME-CD	D21	DC	LIC	KISSIMMEE, FL	BLANK0000090448	93.3
No	WPXM-TV	D21	DT	LIC	MIAMI, FL	BLANK0000064072	292.3
Yes	WGCW	D22	DT	LIC	FORT MYERS, FL	BLANK0000107706	125.0
Yes	WVEN-TV	D22	DT	LIC	MELBOURNE, FL	BLANK0000100080	141.9
Yes	WARP-CD	D22	DC	LIC	TAMPA-ST. PETERSBURG, FL	BLANK0000132166	35.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D21
Latitude: 27 50 51.50 N (NAD83)
Longitude: 82 15 49.40 W
Height AMSL: 434.7 m
HAAT: 415.0 m
Peak ERP: 1000 kW
Antenna: DIELECTRIC-TFU-26EST-R C220 (ID 1008943) 0.0 deg
Elev Pattern: Generic
Elec Tilt: 0.75

39.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	596 kW	414.4 m	105.8 km
45.0	54.8	418.4	86.7
90.0	43.7	408.2	84.6
135.0	115	404.1	91.1
180.0	533	404.3	103.8
225.0	572	415.7	105.5
270.0	766	426.6	109.5
315.0	992	427.2	112.3

ERP exceeds maximum

ERP: 1000 kW ERP maximum: 801 kW

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

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 point spacing: 0.10 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Interference to BLANK0000106571 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WDYB-CD	D21	DC	LIC	DAYTONA BEACH, FL	BLANK0000106571	
Undesireds:	WCLF	D21	DT	BL	CLEARWATER, FL	DTVBL11125	153.1 km
	WCLF	D21	DT	APP	CLEARWATER, FL	WCLF CP Mod	150.8
	WJEB-TV	D21	DT	LIC	JACKSONVILLE, FL	BLANK0000105949	152.6
	WVEN-TV	D22	DT	LIC	MELBOURNE, FL	BLANK0000100080	43.6
Service area				Terrain-limited	IX-free, before	IX-free, after	Percent New IX
5174.8	1,278,532	5174.8	1,278,532		4833.0 1,135,220	4829.0 1,133,303	0.08 0.17
Undesired				Total IX	Unique IX, before	Unique IX, after	
WCLF D21 DT BL		0.0		0	0.0 0		
WCLF D21 DT APP		64.3		17,833		4.0 1,917	
WJEB-TV D21 DT LIC		12.0		2,659	8.0 0	8.0 0	
WVEN-TV D22 DT LIC		333.8		143,312	329.8 140,653	269.5 124,737	

Interference to BLANK0000105949 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WJEB-TV	D21	DT	LIC	JACKSONVILLE, FL	BLANK0000105949	
Undesireds:	WCLF	D21	DT	BL	CLEARWATER, FL	DTVBL11125	281.3 km
	WCLF	D21	DT	APP	CLEARWATER, FL	WCLF CP Mod	278.4
	WDYB-CD	D21	DC	LIC	DAYTONA BEACH, FL	BLANK0000106571	152.6
Service area				Terrain-limited	IX-free, before	IX-free, after	Percent New IX
24494.3	1,607,603	24494.3	1,607,603		24422.4 1,601,793	24358.5 1,600,581	0.26 0.08
Undesired				Total IX	Unique IX, before	Unique IX, after	
WCLF D21 DT BL		8.0		236	4.0 39		
WCLF D21 DT APP		79.9		2,022		67.9 1,251	
WDYB-CD D21 DC LIC		67.9		5,771	63.9 5,574	55.9 5,000	

Interference to BLANK0000090448 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WKME-CD	D21	DC	LIC	KISSIMMEE, FL	BLANK0000090448	
Undesireds:	WCLF	D21	DT	BL	CLEARWATER, FL	DTVBL11125	95.0 km
	WCLF	D21	DT	APP	CLEARWATER, FL	WCLF CP Mod	93.3
	WDYB-CD	D21	DC	LIC	DAYTONA BEACH, FL	BLANK0000106571	64.9
	WVEN-TV	D22	DT	LIC	MELBOURNE, FL	BLANK0000100080	48.8
Service area				Terrain-limited	IX-free, before	IX-free, after	Percent New IX
2128.9	452,787	2128.9	452,787		2072.4 449,719	2068.4 449,647	0.19 0.02
Undesired				Total IX	Unique IX, before	Unique IX, after	
WCLF D21 DT BL		8.1		2,761	8.1 2,761		
WCLF D21 DT APP		12.1		2,833		12.1 2,833	
WDYB-CD D21 DC LIC		8.1		36	4.0 15	4.0 15	
WVEN-TV D22 DT LIC		44.4		292	40.4 271	40.4 271	

Interference to BLANK0000107706 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WGCU	D22	DT	LIC	FORT MYERS, FL	BLANK0000107706	
Undesireds:	WCLF	D21	DT	BL	CLEARWATER, FL	DTVBL11125	122.0 km
	WCLF	D21	DT	APP	CLEARWATER, FL	WCLF CP Mod	125.0
	WVEN-TV	D22	DT	LIC	MELBOURNE, FL	BLANK0000100080	207.9
	WFOR-TV	D22	DT	LIC	MIAMI, FL	BLANK0000205002	179.9
	WARP-CD	D22	DC	LIC	TAMPA-ST. PETERSBURG, FL	BLANK0000132166	144.6
Service area				Terrain-limited	IX-free, before	IX-free, after	Percent New IX
21766.9	1,510,671	21766.9	1,510,671		20984.0 1,397,530	20984.0 1,397,530	0.00 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	

WCLF D21 DT BL	0.0	0	0.0	0		
WCLF D21 DT APP	122.8	20,894			0.0	0
WVEN-TV D22 DT LIC	146.7	5,357	51.5	2,978	51.5	2,978
WFOR-TV D22 DT LIC	362.9	2,843	267.8	464	267.8	464
WARP-CD D22 DC LIC	368.4	107,320	368.4	107,320	245.7	86,426

Interference to BLANK0000107706 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WVCU	D22	DT	LIC	FORT MYERS, FL	BLANK0000107706	
Undesireds:	WCLF	D21	DT	BL	CLEARWATER, FL	DTVBL11125	122.0 km
	WCLF	D21	DT	APP	CLEARWATER, FL	WCLF CP Mod	125.0
	WVEN-TV	D22	DT	LIC	MELBOURNE, FL	BLANK0000100080	207.9
	WFOR-TV	D22	DT	LIC	MIAMI, FL	BLCDT20130909AAV	179.9
	WARP-CD	D22	DC	LIC	TAMPA-ST. PETERSBURG, FL	BLANK0000132166	144.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
21766.9 1,510,671		21766.9 1,510,671		20984.0 1,397,530		20984.0 1,397,530	0.00 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
WCLF D21 DT BL	0.0	0	0.0	0
WCLF D21 DT APP	122.8	20,894		0.0 0
WVEN-TV D22 DT LIC	146.7	5,357	51.5 2,978	51.5 2,978
WFOR-TV D22 DT LIC	362.9	2,843	267.8 464	267.8 464
WARP-CD D22 DC LIC	368.4	107,320	368.4 107,320	245.7 86,426

Interference to BLANK0000100080 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WVEN-TV	D22	DT	LIC	MELBOURNE, FL	BLANK0000100080	
Undesireds:	WCLF	D21	DT	BL	CLEARWATER, FL	DTVBL11125	143.5 km
	WCLF	D21	DT	APP	CLEARWATER, FL	WCLF CP Mod	141.9
	WVCU	D22	DT	LIC	FORT MYERS, FL	BLANK0000107706	207.9
	WFOR-TV	D22	DT	LIC	MIAMI, FL	BLANK0000205002	303.1
	WTWC-TV	D22	DT	LIC	TALLAHASSEE, FL	BLANK0000118579	363.4
	WARP-CD	D22	DC	LIC	TAMPA-ST. PETERSBURG, FL	BLANK0000132166	170.8
	WKCF	D23	DT	LIC	CLERMONT, FL	BLANK0000143772	0.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
34716.8 3,921,016		34712.7 3,919,178		34345.5 3,878,634		34329.4 3,877,834	0.05 0.02

Undesired		Total IX	Unique IX, before	Unique IX, after
WCLF D21 DT BL	24.3	7,645	4.0 950	
WCLF D21 DT APP	101.0	15,494		20.2 1,750
WVCU D22 DT LIC	88.9	12,389	36.3 669	36.3 669
WFOR-TV D22 DT LIC	12.2	686	4.1 336	4.1 336
WTWC-TV D22 DT LIC	12.0	15	8.0 0	8.0 0
WARP-CD D22 DC LIC	250.3	31,136	197.7 19,735	153.3 16,238
WKCF D23 DT LIC	56.4	7,103	56.4 7,103	56.4 7,103

Interference to BLANK0000100080 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WVEN-TV	D22	DT	LIC	MELBOURNE, FL	BLANK0000100080	
Undesireds:	WCLF	D21	DT	BL	CLEARWATER, FL	DTVBL11125	143.5 km
	WCLF	D21	DT	APP	CLEARWATER, FL	WCLF CP Mod	141.9
	WVCU	D22	DT	LIC	FORT MYERS, FL	BLANK0000107706	207.9
	WFOR-TV	D22	DT	LIC	MIAMI, FL	BLCDT20130909AAV	303.1
	WTWC-TV	D22	DT	LIC	TALLAHASSEE, FL	BLANK0000118579	363.4
	WARP-CD	D22	DC	LIC	TAMPA-ST. PETERSBURG, FL	BLANK0000132166	170.8
	WKCF	D23	DT	LIC	CLERMONT, FL	BLANK0000143772	0.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
34716.8 3,921,016		34712.7 3,919,178		34345.5 3,878,634		34329.4 3,877,834	0.05 0.02

Undesired		Total IX	Unique IX, before	Unique IX, after
WCLF D21 DT BL	24.3	7,645	4.0 950	
WCLF D21 DT APP	101.0	15,494		20.2 1,750
WVCU D22 DT LIC	88.9	12,389	36.3 669	36.3 669
WFOR-TV D22 DT LIC	12.2	686	4.1 336	4.1 336
WTWC-TV D22 DT LIC	12.0	15	8.0 0	8.0 0
WARP-CD D22 DC LIC	250.3	31,136	197.7 19,735	153.3 16,238
WKCF D23 DT LIC	56.4	7,103	56.4 7,103	56.4 7,103

Interference to BLANK0000132166 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WARP-CD	D22	DC	LIC	TAMPA-ST. PETERSBURG, FL	BLANK0000132166			
Undesireds:	WCLF	D21	DT	BL	CLEARWATER, FL	DTVBL11125	36.1 km		
	WCLF	D21	DT	APP	CLEARWATER, FL	WCLF CP Mod	35.5		
	WVCU	D22	DT	LIC	FORT MYERS, FL	BLANK0000107706	144.6		
	WVEN-TV	D22	DT	LIC	MELBOURNE, FL	BLANK0000100080	170.8		
	WFOR-TV	D22	DT	LIC	MIAMI, FL	BLANK0000205002	318.1		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
7138.6 2,549,722		7138.6 2,549,722		7034.2 2,517,467		6949.2 2,520,403	1.21 -0.12		
Undesired				Total IX	Unique IX, before	Unique IX, after			
WCLF D21 DT BL				52.7 17,819	40.5 16,360				
WCLF D21 DT APP				141.7 15,446		125.5 13,424			
WVCU D22 DT LIC				55.8 13,924	43.6 12,465	43.6 12,465			
WVEN-TV D22 DT LIC				12.2 2,014	8.1 1,971	4.0 1,408			

Interference to proposal scenario 1
3.51% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WCLF	D21	DT	APP	CLEARWATER, FL	WCLF CP Mod			
Undesireds:	WDYB-CD	D21	DC	LIC	DAYTONA BEACH, FL	BLANK0000106571	150.8 km		
	WJEB-TV	D21	DT	LIC	JACKSONVILLE, FL	BLANK0000105949	278.4		
	WKME-CD	D21	DC	LIC	KISSIMMEE, FL	BLANK0000090448	93.3		
	WPXM-TV	D21	DT	LIC	MIAMI, FL	BLANK0000064072	292.3		
	WVCU	D22	DT	LIC	FORT MYERS, FL	BLANK0000107706	125.0		
	WVEN-TV	D22	DT	LIC	MELBOURNE, FL	BLANK0000100080	141.9		
	WARP-CD	D22	DC	LIC	TAMPA-ST. PETERSBURG, FL	BLANK0000132166	35.5		
Service area		Terrain-limited		IX-free		Percent IX			
31414.2 4,374,014		31406.2 4,373,995		30131.1 4,220,389		4.06 3.51			
Undesired				Total IX	Unique IX	Prcnt Unique IX			
WDYB-CD D21 DC LIC				145.4 15,918	8.1 481	0.03 0.01			
WJEB-TV D21 DT LIC				148.9 7,002	128.6 5,483	0.41 0.13			
WKME-CD D21 DC LIC				724.4 61,993	259.3 12,619	0.83 0.29			
WPXM-TV D21 DT LIC				4.1 42	0.0 0	0.00 0.00			
WVCU D22 DT LIC				381.6 82,211	381.6 82,211	1.22 1.88			
WVEN-TV D22 DT LIC				493.3 51,810	28.2 2,436	0.09 0.06			
WARP-CD D22 DC LIC				4.1 1,002	4.1 1,002	0.01 0.02			