

INTERFERENCE ANALYSIS FOR PROPOSED WCLF, CLEARWATER, FL, CHANNEL 21

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: wclf020, Model: Longley-Rice

Study build station data: LMS TV 2023-08-24

Proposal: WCLF020 D21 DT APP CLEARWATER, FL
File number: wclf020
Facility ID: 11125
Station data: User record
Record ID: 5200
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	201.3 km
No	WXXZ-CD	D20	DC	LIC	ORLANDO, ETC., FL	BLANK0000108580	142.1
No	WVEA-TV	D20	DT	LIC	TAMPA, FL	BLANK0000099184	0.6
Yes	WDYB-CD	D21	DC	LIC	DAYTONA BEACH, FL	BLANK0000106571	151.2
Yes	WJEB-TV	D21	DT	LIC	JACKSONVILLE, FL	BLANK0000105949	278.9
Yes	WKME-CD	D21	DC	LIC	KISSIMMEE, FL	BLANK0000090448	93.6
No	WPXM-TV	D21	DT	LIC	MIAMI, FL	BLANK0000064072	291.8
Yes	WGCU	D22	DT	LIC	FORT MYERS, FL	BLANK0000107706	124.4
Yes	WVEN-TV	D22	DT	LIC	MELBOURNE, FL	BLANK0000100080	142.1
Yes	WARP-CD	D22	DC	LIC	TAMPA-ST. PETERSBURG, FL	BLANK0000132166	35.6

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 33.00 N (NAD83)
Longitude: 82 15 44.00 W
Height AMSL: 434.4 m
HAAT: 414.0 m
Peak ERP: 1000 kW
Antenna: DIELECTRIC-TFU-26EST-R C220 (ID 1010446) 0.0 deg
Elev Pattn: Generic
Elec Tilt: 0.75

39.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	596 kW	413.6 m	105.7 km
45.0	54.8	420.1	86.8
90.0	43.7	407.3	84.6
135.0	115	403.0	91.1
180.0	533	403.7	103.8
225.0	572	415.1	105.5
270.0	766	426.2	109.5
315.0	992	426.4	112.2

ERP exceeds maximum

ERP: 1000 kW ERP maximum: 803 kW

Distance to Canadian border: 1537.7 km

Distance to Mexican border: 1467.1 km

Conditions at FCC monitoring station: Vero Beach FL

Bearing: 98.9 degrees Distance: 162.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 308.9 degrees Distance: 2506.3 km

No land mobile station failures found

Study cell size: 2.00 km

Profile point spacing: 0.10 km (Higher resolution terrain profile point spacing is requested.)

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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
	WCLF020	D21	DT	APP	CLEARWATER, FL	wclf020	151.2
	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	4824.9 1,131,427	0.17 0.33

Undesired	Total IX	Unique IX, before	Unique IX, after
WCLF D21 DT BL	0.0 0	0.0 0	
WCLF020 D21 DT APP	64.3 19,719	8.0 3,793	
WJEB-TV D21 DT LIC	12.0 2,659	8.0 0	
WVEN-TV D22 DT LIC	333.8 143,312	329.8 140,653	273.5 124,727

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
	WCLF020	D21	DT	APP	CLEARWATER, FL	wclf020	278.9
	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	
WCLF020 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
	WCLF020	D21	DT	APP	CLEARWATER, FL	wclf020	93.6
	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	2064.3 448,313	0.39 0.31

Undesired	Total IX	Unique IX, before	Unique IX, after
WCLF D21 DT BL	8.1 2,761	8.1 2,761	
WCLF020 D21 DT APP	16.1 4,167	16.1 4,167	
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
	WCLF020	D21	DT	APP	CLEARWATER, FL	wclf020	124.4
	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	

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WCLF020 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
	WCLF020	D21	DT	APP	CLEARWATER, FL	wclf020	142.1
	WGPU	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		
WCLF020 D21 DT APP	101.0	15,494			20.2	1,750
WGPU 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

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WARP-CD	D22	DC	LIC	TAMPA-ST. PETERSBURG, FL	BLANK0000132166	
Undesireds:	WCLF	D21	DT	BL	CLEARWATER, FL	DTVBL11125	36.1 km
	WCLF020	D21	DT	APP	CLEARWATER, FL	wclf020	35.6
	WGPU	D22	DT	LIC	FORT MYERS, FL	BLANK0000107706	144.6
	WVEN-TV	D22	DT	LIC	MELBOURNE, FL	BLANK0000100080	170.8

	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	6957.2 2,520,785 1.09 -0.13

Undesired	Total IX		Unique IX, before		Unique IX, after	
WCLF D21 DT BL	52.7	17,819	40.5	16,360		
WCLF020 D21 DT APP	133.6	15,064			117.4	13,042
WGPU 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
3.41% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WCLF020	D21	DT	APP	CLEARWATER, FL	wclf020	
Undesireds:	WDYB-CD	D21	DC	LIC	DAYTONA BEACH, FL	BLANK0000106571	151.2 km
	WJEB-TV	D21	DT	LIC	JACKSONVILLE, FL	BLANK0000105949	278.9
	WKME-CD	D21	DC	LIC	KISSIMMEE, FL	BLANK0000090448	93.6
	WGPU	D22	DT	LIC	FORT MYERS, FL	BLANK0000107706	124.4
	WVEN-TV	D22	DT	LIC	MELBOURNE, FL	BLANK0000100080	142.1

	Service area	Terrain-limited		IX-free		Percent IX	
	31384.9	4,373,126	31372.8	4,373,065	30113.6	4,224,132	4.01 3.41

Undesired	Total IX		Unique IX		Prcnt Unique IX	
WDYB-CD D21 DC LIC	149.4	17,614	8.1	481	0.03	0.01
WJEB-TV D21 DT LIC	173.0	8,451	140.7	5,740	0.45	0.13
WKME-CD D21 DC LIC	708.2	61,694	243.1	10,543	0.77	0.24
WGPU D22 DT LIC	357.8	78,472	357.8	78,472	1.14	1.79
WVEN-TV D22 DT LIC	505.4	53,697	40.3	2,546	0.13	0.06