

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: zAkron13d3kwDIE70F, Model: Longley-Rice

Start: 2020.08.26 13:05:08

Study created: 2020.08.26 13:05:08

Study build station data: LMS TV 2020-08-26

Proposal: WIVX-LD D13 LD APP AKRON, OH

Facility ID: 50144

Station data: User record

Record ID: 1550

Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WAKN-LP	N11-	TX	LIC	AKRON, OH	BLTVL20081031ABD	12.8 km
No	WINM	D12	DT	LIC	ANGOLA, IN	BLCDT20130711ABN	265.2
Yes	WMFD-TV	D12	DT	LIC	MANSFIELD, OH	BLCDT20081112ALJ	81.5
No	WICU-TV	D12	DT	LIC	ERIE, PA	BLANK0000074553	179.2
No	WBPA-LD	D12+	LD	CP	PITTSBURGH, PA	BLANK0000107115	157.5
No	WBOY-TV	D12	DT	LIC	CLARKSBURG, WV	BLANK0000003150	221.6
No	WTHR	D13	DT	APP	INDIANAPOLIS, IN	BPCDT20130702ABM	397.4
No	WTHR	D13	DT	LIC	INDIANAPOLIS, IN	BLCDT20120127AIE	397.4
No	WTSF	D13	DT	LIC	ASHLAND, KY	BLANK0000117277	291.5
No	WZZM	D13	DT	LIC	GRAND RAPIDS, MI	BLCDT20100726AKV	433.1
No	W48CH	D13-	LD	LIC	CLEVELAND, OH	BLANK0000120701	138.6
No	W48CH	D13-	LD	CP	CLEVELAND, OH	BLANK0000100314	138.6
No	WTVG	D13	DT	APP	TOLEDO, OH	BLANK0000036074	163.2
No	WTVG	D13	DT	LIC	TOLEDO, OH	BLCDT20110415ABN	163.2
Yes	W13DP-D	D13	LD	LIC	YOUNGSTOWN, OH	BLANK0000090576	88.9
No	WSET-TV	D13	DT	LIC	LYNCHBURG, VA	BLCDT20091013ABE	444.8
Yes	WVFX	D13	DT	CP	CLARKSBURG, WV	BLANK0000034189	219.5
No	WVUX-LD	D13	LD	LIC	Fairmont, WV	BLANK0000021955	224.1

No WWPX-TV D13 DT LIC MARTINSBURG, WV

BLANK0000117578

385.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D13
Mask: Full Service
Latitude: 40 59 6.00 N (NAD83)
Longitude: 81 41 34.00 W
Height AMSL: 460.4 m
HAAT: 0.0 m
Peak ERP: 3.00 kW
Antenna: DIE-THA-C1-1/1-1 (ID 89360) 70.0 deg
Elev Pattn: Generic
Elec Tilt: 0.50

48.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.040 kW	116.7 m	21.0 km
45.0	2.00	150.4	49.5
90.0	2.34	141.5	49.6
135.0	0.100	145.0	27.9
180.0	0.015	142.2	18.1
225.0	0.003	145.9	12.5
270.0	0.002	145.2	10.9
315.0	0.018	127.9	17.9

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 139 m

Proposal 21.00 dBu contour does not cross Canadian border

Distance to Canadian border: 96.8 km

Distance to Mexican border: 2164.1 km

Conditions at FCC monitoring station: Allegan MI
Bearing: 298.4 degrees Distance: 396.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 275.1 degrees Distance: 1983.0 km

Study cell size: 1.00 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%

Interference to BLCDT20081112ALJ LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WMFD-TV	D12	DT	LIC	MANSFIELD, OH	BLCDT20081112ALJ			
Undesireds:	WIVX-LD	D13	LD	APP	AKRON, OH		81.5 km		
	WTOL	D11	DT	APP	TOLEDO, OH	BLANK0000035661	119.4		
	WINM	D12	DT	LIC	ANGOLA, IN	BLCDT20130711ABN	198.4		
	WJRT-TV	D12	DT	LIC	FLINT, MI	BLCDT20100503ACT	298.9		
	WKRC-TV	D12	DT	LIC	CINCINNATI, OH	BLCDT20090622AFI	243.5		
	WICU-TV	D12	DT	LIC	ERIE, PA	BLANK0000074553	255.8		
	WBOY-TV	D12	DT	LIC	CLARKSBURG, WV	BLANK0000003150	254.8		
	WTVG	D13	DT	APP	TOLEDO, OH	BLANK0000036074	121.9		
	Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
	21742.9	1,560,095	20544.0	1,327,538	19621.9	1,193,497	19617.9	1,192,350	0.02 0.10
Undesired				Total IX	Unique IX, before		Unique IX, after		
WIVX-LD D13 LD APP				9.9	2,306		4.0		1,147
WTOL D11 DT APP				295.2	16,850		19.1		1,962
WINM D12 DT LIC				256.0	33,690		50.1		2,165

WJRT-TV D12 DT LIC	139.1	15,218	26.2	3,282	26.2	3,282
WKRC-TV D12 DT LIC	250.8	80,795	140.4	46,692	140.4	46,692
WICU-TV D12 DT LIC	135.3	17,098	52.2	4,967	51.2	4,928
WBOY-TV D12 DT LIC	241.2	41,829	94.1	6,090	94.1	6,090
WTVG D13 DT APP	318.4	20,585	32.3	4,451	32.3	4,451

Interference to BLCDT20081112ALJ LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WMFD-TV	D12	DT	LIC	MANSFIELD, OH	BLCDT20081112ALJ	
Undesireds:	WIVX-LD	D13	LD	APP	AKRON, OH		81.5 km
	WTOL	D11	DT	APP	TOLEDO, OH	BLANK00000035661	119.4
	WINM	D12	DT	LIC	ANGOLA, IN	BLCDT20130711ABN	198.4
	WJRT-TV	D12	DT	LIC	FLINT, MI	BLCDT20100503ACT	298.9
	WKRC-TV	D12	DT	LIC	CINCINNATI, OH	BLCDT20090622AFI	243.5
	WICU-TV	D12	DT	LIC	ERIE, PA	BLANK00000074553	255.8
	WBOY-TV	D12	DT	LIC	CLARKSBURG, WV	BLANK00000003150	254.8
	WTVG	D13	DT	LIC	TOLEDO, OH	BLCDT20110415ABN	121.9
	Service area	Terrain-limited		IX-free, before		IX-free, after	
	21742.9	1,560,095	20544.0	1,327,538	19638.1	1,194,268	19634.1 1,193,121
							Percent New IX
							0.02 0.10

Undesired	Total IX	Unique IX, before	Unique IX, after
WIVX-LD D13 LD APP	9.9 2,306	4.0 1,147	
WTOL D11 DT APP	295.2 16,850	68.5 7,130	
WINM D12 DT LIC	256.0 33,690	52.2 2,174	
WJRT-TV D12 DT LIC	139.1 15,218	26.2 3,282	
WKRC-TV D12 DT LIC	250.8 80,795	140.4 46,692	
WICU-TV D12 DT LIC	135.3 17,098	52.2 4,967	
WBOY-TV D12 DT LIC	241.2 41,829	94.1 6,090	
WTVG D13 DT LIC	246.9 13,862	16.1 3,680	

Interference to BLCDT20081112ALJ LIC scenario 3

Call	Chan	Svc	Status	City, State	File Number	Distance
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Desired:	WMFD-TV	D12	DT	LIC	MANSFIELD, OH	BLCDDT20081112ALJ
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Undesireds:	WIVX-LD	D13	LD	APP	AKRON, OH		81.5 km
	WTOL	D11	DT	LIC	TOLEDO, OH	BLCDDT20090622ABU	119.4
	WINM	D12	DT	LIC	ANGOLA, IN	BLCDDT20130711ABN	198.4
	WJRT-TV	D12	DT	LIC	FLINT, MI	BLCDDT20100503ACT	298.9
	WKRC-TV	D12	DT	LIC	CINCINNATI, OH	BLCDDT20090622AFI	243.5
	WICU-TV	D12	DT	LIC	ERIE, PA	BLANK00000074553	255.8
	WBOY-TV	D12	DT	LIC	CLARKSBURG, WV	BLANK00000003150	254.8
	WTVG	D13	DT	APP	TOLEDO, OH	BLANK00000036074	121.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
21742.9 1,560,095	20544.0 1,327,538	19640.1 1,195,430	19636.1 1,194,283	0.02 0.10

Undesired		Total IX	Unique IX, before	Unique IX, after
WIVX-LD D13 LD APP	9.9	2,306		4.0 1,147
WTOL D11 DT LIC	162.2	4,438	1.0 29	1.0 29
WINM D12 DT LIC	256.0	33,690	50.1 2,165	50.1 2,165
WJRT-TV D12 DT LIC	139.1	15,218	26.2 3,282	26.2 3,282
WKRC-TV D12 DT LIC	250.8	80,795	140.4 46,692	140.4 46,692
WICU-TV D12 DT LIC	135.3	17,098	52.2 4,967	51.2 4,928
WBOY-TV D12 DT LIC	241.2	41,829	94.1 6,090	94.1 6,090
WTVG D13 DT APP	318.4	20,585	135.0 14,705	135.0 14,705

Interference to BLCDDT20081112ALJ LIC scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WMFD-TV	D12	DT	LIC	MANSFIELD, OH	BLCDDT20081112ALJ	
Undesireds:	WIVX-LD	D13	LD	APP	AKRON, OH		81.5 km
	WTOL	D11	DT	LIC	TOLEDO, OH	BLCDDT20090622ABU	119.4
	WINM	D12	DT	LIC	ANGOLA, IN	BLCDDT20130711ABN	198.4
	WJRT-TV	D12	DT	LIC	FLINT, MI	BLCDDT20100503ACT	298.9
	WKRC-TV	D12	DT	LIC	CINCINNATI, OH	BLCDDT20090622AFI	243.5
	WICU-TV	D12	DT	LIC	ERIE, PA	BLANK00000074553	255.8
	WBOY-TV	D12	DT	LIC	CLARKSBURG, WV	BLANK00000003150	254.8
	WTVG	D13	DT	LIC	TOLEDO, OH	BLCDDT20110415ABN	121.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
21742.9	1,560,095	20544.0	1,327,538	19703.5	1,201,342	19699.5	1,200,195	0.02	0.10

Undesired		Total IX		Unique IX, before		Unique IX, after	
WIVX-LD D13 LD APP	9.9	2,306				4.0	1,147
WTOL D11 DT LIC	162.2	4,438		3.0	56	3.0	56
WINM D12 DT LIC	256.0	33,690		53.2	2,232	53.2	2,232
WJRT-TV D12 DT LIC	139.1	15,218		26.2	3,282	26.2	3,282
WKRC-TV D12 DT LIC	250.8	80,795		140.4	46,692	140.4	46,692
WICU-TV D12 DT LIC	135.3	17,098		52.2	4,967	51.2	4,928
WBOY-TV D12 DT LIC	241.2	41,829		94.1	6,090	94.1	6,090
WTVG D13 DT LIC	246.9	13,862		71.5	8,793	71.5	8,793

Interference to BLANK0000090576 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W13DP-D	D13	LD	LIC	YOUNGSTOWN, OH	BLANK0000090576	
Undesireds:	WIVX-LD	D13	LD	APP	AKRON, OH		88.9 km
	W48CH	D13-	LD	LIC	CLEVELAND, OH	BLANK0000120701	91.9
	WTVG	D13	DT	APP	TOLEDO, OH	BLANK0000036074	240.8
	WVFX	D13	DT	CP	CLARKSBURG, WV	BLANK0000034189	199.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
3654.5	602,206	3613.5	597,874	3586.4	595,828	3549.6	593,071	1.03	0.46

Undesired		Total IX		Unique IX, before		Unique IX, after	
WIVX-LD D13 LD APP	37.8	2,779				36.8	2,757
WTVG D13 DT APP	1.0	22		0.0	0	0.0	0
WVFX D13 DT CP	27.0	2,046		26.0	2,024	26.0	2,024

Interference to BLANK0000090576 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W13DP-D	D13	LD	LIC	YOUNGSTOWN, OH	BLANK0000090576	

Undesireds:	WIVX-LD	D13	LD	APP	AKRON, OH		88.9 km
	W48CH	D13-	LD	LIC	CLEVELAND, OH	BLANK0000120701	91.9
	WVFX	D13	DT	CP	CLARKSBURG, WV	BLANK0000034189	199.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
3654.5	602,206	3613.5	597,874	3586.4	595,828	3549.6	593,071	1.03 0.46

Undesired		Total IX	Unique IX, before	Unique IX, after
WIVX-LD D13 LD APP	37.8	2,779		36.8 2,757
WVFX D13 DT CP	27.0	2,046	27.0 2,046	26.0 2,024

Interference to BLANK0000034189 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVFX	D13	DT	CP	CLARKSBURG, WV	BLANK0000034189	
Undesireds:	WIVX-LD	D13	LD	APP	AKRON, OH		219.5 km
	WVPT	D12	DD	CP	STAUNTON, VA	BLANK0000028448	154.6
	WBOY-TV	D12	DT	LIC	CLARKSBURG, WV	BLANK0000003150	2.1
	WTSF	D13	DT	LIC	ASHLAND, KY	BLANK0000117277	203.3
	WTVG	D13	DT	APP	TOLEDO, OH	BLANK0000036074	370.8
	WWPX-TV	D13	DT	LIC	MARTINSBURG, WV	BLANK0000117578	221.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
30782.2	916,254	27255.5	765,544	26824.9	757,847	26824.9	757,847	0.00 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
WIVX-LD D13 LD APP	1.0	0		0.0 0
WBOY-TV D12 DT LIC	36.9	390	27.9 356	27.9 356
WTSF D13 DT LIC	349.0	5,773	307.2 5,507	307.2 5,507
WTVG D13 DT APP	19.1	994	10.0 922	10.0 922
WWPX-TV D13 DT LIC	67.4	806	43.6 646	43.6 646

Interference to BLANK0000034189 CP scenario 2

Desired:	Call WVFX	Chan D13	Svc DT	Status CP	City, State CLARKSBURG, WV	File Number BLANK0000034189	Distance
Undesireds:	WIVX-LD	D13	LD	APP	AKRON, OH		219.5 km
	WVPT	D12	DD	CP	STAUNTON, VA	BLANK0000028448	154.6
	WBOY-TV	D12	DT	LIC	CLARKSBURG, WV	BLANK0000003150	2.1
	WTSF	D13	DT	LIC	ASHLAND, KY	BLANK0000117277	203.3
	WTVG	D13	DT	LIC	TOLEDO, OH	BLCDT20110415ABN	370.8
	WWPX-TV	D13	DT	LIC	MARTINSBURG, WV	BLANK0000117578	221.4
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
30782.2		916,254		27255.5		765,544	26827.9
						758,214	0.00
						26827.9	0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WIVX-LD D13 LD APP	1.0	0	0.0
WBOY-TV D12 DT LIC	36.9	390	27.9
WTSF D13 DT LIC	349.0	5,773	310.3
WTVG D13 DT LIC	13.0	606	7.0
WWPX-TV D13 DT LIC	67.4	806	43.6

Interference to proposal scenario 1
**MX: 2.93% interference received

Desired:	Call WIVX-LD	Chan D13	Svc LD	Status APP	City, State AKRON, OH	File Number	Distance
Undesireds:	W48CH	D13-	LD	LIC	CLEVELAND, OH	BLANK0000120701	138.6 km
	WTVG	D13	DT	APP	TOLEDO, OH	BLANK0000036074	163.2
	W13DP-D	D13	LD	LIC	YOUNGSTOWN, OH	BLANK0000090576	88.9
	WVFX	D13	DT	CP	CLARKSBURG, WV	BLANK0000034189	219.5

Service area		Terrain-limited		IX-free		Percent IX	
2751.2		903,038		2690.1		898,950	
						2433.0	
						872,646	
						9.56	
						2.93	
Undesired	Total IX	Unique IX	Prcnt Unique IX				
WTVG D13 DT APP	18.9	4,730	5.0				
W13DP-D D13 LD LIC	249.1	22,558	228.1				

WVFX D13 DT CP	17.1	2,629	2.0	119	0.08	0.01
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Interference to proposal scenario 2
2.93% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WIVX-LD	D13	LD	APP	AKRON, OH		
Undesireds:	W48CH	D13-	LD	LIC	CLEVELAND, OH	BLANK00000120701	138.6 km
	WTVG	D13	DT	LIC	TOLEDO, OH	BLCDT20110415ABN	163.2
	W13DP-D	D13	LD	LIC	YOUNGSTOWN, OH	BLANK00000090576	88.9
	WVFX	D13	DT	CP	CLARKSBURG, WV	BLANK00000034189	219.5

Service area	Terrain-limited	IX-free	Percent IX
2751.2 903,038	2690.1 898,950	2433.0 872,646	9.56 2.93

Undesired	Total IX	Unique IX	Prcnt Unique IX
WTVG D13 DT LIC	15.9 4,293	5.0 1,591	0.18 0.18
W13DP-D D13 LD LIC	249.1 22,558	230.1 21,726	8.55 2.42
WVFX D13 DT CP	17.1 2,629	2.0 119	0.08 0.01