

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Lebanon30d15kW, Model: Longley-Rice

Start: 2021.07.31 09:16:15

Study created: 2021.07.31 09:16:15

Study build station data: LMS TV 2021-07-31

Proposal: WZCD-LD D30 LD APP Cincinnati-Dayton, OH

Facility ID: 187440

Station data: User record

Record ID: 167

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	DDW22DE	N22+	TX	APP	DAYTON, OH	BLTTTL20100511AAU	28.5 km
No	WEDX-LD	D29	LD	CP	FORT WAYNE, IN	BLANK0000036232	177.0
No	WJYL-CD	D29	DC	LIC	JEFFERSONVILLE, IN	BLANK0000087052	179.5
No	W29EL-D	D29	LD	LIC	LIMA, OH	BLANK0000153252	139.8
No	W29EL-D	D29	LD	CP	LIMA, OH	BLANK0000153469	161.9
No	WAMS-LD	D29z	LD	LIC	MINSTER/NEW BREMEN, OH	BLANK0000106606	102.6
Yes	WPTO	D29	DT	LIC	OXFORD, OH	BLANK0000113643	42.3
No	WGTE-TV	D29	DT	LIC	TOLEDO, OH	BLEDT20031110AKO	254.5
No	WOOH-LD	D29	LD	LIC	ZANESVILLE, OH	BLANK0000114544	127.6
No	WOOH-LD	D29	LD	CP	ZANESVILLE, OH	BLANK0000116352	113.2
No	WCHS-TV	D29	DT	LIC	CHARLESTON, WV	BLANK0000059340	238.9
No	WEIU-TV	D30	DT	LIC	CHARLESTON, IL	BLANK0000093935	343.1
No	WDCI-LD	D30	LD	LIC	CHICAGO, IL	BLDTL20120131AAW	387.6
No	WTCT	D30	DT	LIC	MARION, IL	BLANK0000096223	461.7
No	W30DO-D	D30	LD	CP	BRAZIL, IN	BNPDTL20100510AFI	266.9
No	WSJV	D30	DT	LIC	ELKHART, IN	BLANK0000124380	288.3
No	WELW-LD	D30	LD	CP	EVANSVILLE, IN	BLANK0000138318	326.4
No	W30EH-D	D30	LD	LIC	FORT WAYNE, IN	BLANK0000080842	194.9

No	WSDI-LD	D30	LD	LIC	Indianapolis, IN	BLANK0000107877	169.2
Yes	WKPC-TV	D30	DT	LIC	LOUISVILLE, KY	BLANK0000087420	179.7
Yes	WKMR	D30	DT	LIC	MOREHEAD, KY	BLANK0000075044	163.2
No	WNEM-TV	D30	DT	LIC	BAY CITY, MI	BLANK0000113433	446.7
No	WVIZ	D30	LD	LIC	Cleveland, OH	BLANK0000151111	317.5
No	W30EX-D	D30	LD	LIC	LIMA, OH	BLANK0000152175	279.2
No	W30EX-D	D30	LD	APP	LIMA, OH	BLANK0000153267	324.1
No	W30EX-D	D30	LD	CP	LIMA, OH	BLANK0000152321	324.1
Yes	WHIZ-TV	D30	DT	LIC	ZANESVILLE, OH	BLANK0000125049	205.1
No	WBPA-LD	N30+	TX	LIC	PITTSBURGH, PA	BLANK0000007299	378.3
No	WPTG-CD	D30	DC	LIC	Pittsburgh, PA	BLANK0000129480	385.7
No	W30EI-D	D30z	LD	LIC	SHARON, PA	BLANK0000107600	382.9
No	W30EG-D	D30	LD	LIC	KNOXVILLE, TN	BLANK0000138506	387.0
No	WNAB	D30	DT	LIC	NASHVILLE, TN	BLANK0000115868	417.5
No	WDBJ	D30	DT	LIC	ROANOKE, VA	BLANK0000094109	441.2
No	W30DU-D	D30	LD	CP	SUTTON, WV	BNPDTL20100514AAO	325.5
No	W30CO-D	D30	LD	LIC	WHEELING, WV	BLDTT20100112AAM	310.9
No	W31ET-D	D31	LD	CP	FORT WAYNE, IN	BLANK0000074400	177.0
No	WQDE-LD	D31	LD	LIC	Indianapolis, IN	BLANK0000108667	169.2
No	WDTN	D31	DT	LIC	DAYTON, OH	BLANK0000126718	28.4
No	WJOS-LD	D31	LD	CP	POMEROY, OH	BLANK0000054745	202.3
No	WTZP-LD	D31	LD	LIC	PORTSMOUTH, OH	BLANK0000074508	133.0
No	WWRD-LP	N32+	TX	LIC	DAYTON, OH	BLTTL20071011AAP	30.6

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D30
 Mask: Full Service
 Latitude: 39 27 59.00 N (NAD83)
 Longitude: 84 18 28.00 W
 Height AMSL: 340.0 m
 HAAT: 0.0 m
 Peak ERP: 15.0 kW
 Antenna: Omnidirectional

Elev Pattn: Generic

50.3 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	110.8 m	44.7 km
45.0	15.0	65.9	38.7
90.0	15.0	63.3	38.3
135.0	15.0	102.9	43.8
180.0	15.0	107.7	44.4
225.0	15.0	103.8	43.9
270.0	15.0	140.8	46.9
315.0	15.0	109.6	44.5

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 101 m

Proposal 25.32 dBu contour does not cross Canadian border

Distance to Canadian border: 281.5 km

Distance to Mexican border: 1886.8 km

Conditions at FCC monitoring station: Allegan MI

Bearing: 338.9 degrees Distance: 375.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 279.2 degrees Distance: 1783.5 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 BLANK0000113643 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WPTO	D29	DT	LIC	OXFORD, OH	BLANK0000113643	
Undesireds:	WZCD-LD	D30	LD	APP	Cincinnati-Dayton, OH		42.3 km
	WIPX-TV	D28	DT	LIC	BLOOMINGTON, IN	BLANK0000106045	143.4
	WLEX-TV	D28	DT	LIC	LEXINGTON, KY	BLANK0000087372	121.7
	WSYX	D28	DT	LIC	COLUMBUS, OH	BLANK0000129744	157.2
	WJYL-CD	D29	DC	LIC	JEFFERSONVILLE, IN	BLANK0000087052	141.1
	WSBT-TV	D29	DT	LIC	SOUTH BEND, IN	BLANK0000087455	312.0
	WKGB-TV	D29	DT	LIC	BOWLING GREEN, KY	BLANK0000087457	292.0
	WNEO	D29	DT	LIC	ALLIANCE, OH	BLANK0000120667	365.6
	WGTE-TV	D29	DT	LIC	TOLEDO, OH	BLEDT20031110AKO	296.3
	WCHS-TV	D29	DT	LIC	CHARLESTON, WV	BLANK0000059340	240.5

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
21977.5 2,961,080	21713.4 2,949,597	20776.5 2,921,011	20760.6 2,915,464	0.08 0.19

Undesired	Total IX	Unique IX, before	Unique IX, after
WZCD-LD D30 LD APP 15.8	5,547	15.8	5,547
WIPX-TV D28 DT LIC 10.9	15	5.0 10	5.0 10
WLEX-TV D28 DT LIC 12.0	73	2.0 0	2.0 0
WSYX D28 DT LIC 1.0	0	0.0 0	0.0 0
WJYL-CD D29 DC LIC 520.4	4,954	499.5 4,687	499.5 4,687
WSBT-TV D29 DT LIC 24.0	5,127	17.0 311	17.0 311
WKGB-TV D29 DT LIC 1.0	0	0.0 0	0.0 0
WNEO D29 DT LIC 4.0	495	0.0 0	0.0 0
WGTE-TV D29 DT LIC 2.0	495	0.0 0	0.0 0
WCHS-TV D29 DT LIC 405.6	23,573	374.5 18,422	374.5 18,422

Interference to BLANK0000087420 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WKPC-TV	D30	DT	LIC	LOUISVILLE, KY	BLANK0000087420	
Undesireds:	WZCD-LD	D30	LD	APP	Cincinnati-Dayton, OH		179.7 km

WJYL-CD	D29	DC	LIC	JEFFERSONVILLE, IN	BLANK0000087052	0.3
WEIU-TV	D30	DT	LIC	CHARLESTON, IL	BLANK0000093935	252.3
WTCT	D30	DT	LIC	MARION, IL	BLANK0000096223	293.8
WKMR	D30	DT	LIC	MOREHEAD, KY	BLANK0000075044	212.8
WNAB	D30	DT	LIC	NASHVILLE, TN	BLANK0000115868	248.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
17059.3 1,525,561	16717.7 1,516,424	16544.6 1,512,191	16540.6 1,512,113	0.02 0.01

Undesired	Total IX	Unique IX, before	Unique IX, after
WZCD-LD D30 LD APP 18.1	116	4.0 78	
WJYL-CD D29 DC LIC 12.1	92	8.1 27	
WEIU-TV D30 DT LIC 32.1	736	11.0 618	
WTCT D30 DT LIC 72.5	673	35.2 309	
WKMR D30 DT LIC 79.4	1,279	46.3 900	
WNAB D30 DT LIC 51.5	2,144	24.3 1,841	

Interference to BLANK0000075044 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WKMR	D30	DT	LIC	MOREHEAD, KY	BLANK0000075044	
Undesireds:	WZCD-LD	D30	LD	APP	Cincinnati-Dayton, OH		163.2 km
	WCHS-TV	D29	DT	LIC	CHARLESTON, WV	BLANK0000059340	133.5
	WKPC-TV	D30	DT	LIC	LOUISVILLE, KY	BLANK0000087420	212.8
	WHIZ-TV	D30	DT	LIC	ZANESVILLE, OH	BLANK0000125049	230.0
	WYFF	D30	DT	LIC	GREENVILLE, SC	BLANK0000081030	348.1
	WDBJ	D30	DT	LIC	ROANOKE, VA	BLANK0000094109	305.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
18253.8 462,820	17518.3 415,477	17334.2 405,761	17316.1 404,923	0.10 0.21

Undesired	Total IX	Unique IX, before	Unique IX, after
WZCD-LD D30 LD APP 33.2	1,268	18.1 838	
WCHS-TV D29 DT LIC 43.2	1,615	36.2 1,509	
WKPC-TV D30 DT LIC 48.4	1,761	31.3 1,634	
WHIZ-TV D30 DT LIC 72.2	4,112	49.1 3,495	

WYFF D30 DT LIC	2.0	0	0.0	0	0.0	0
WDBJ D30 DT LIC	50.5	2,952	37.4	2,354	36.4	2,322

Interference to BLANK0000125049 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHIZ-TV	D30	DT	LIC	ZANESVILLE, OH	BLANK0000125049	
Undesireds:	WZCD-LD	D30	LD	APP	Cincinnati-Dayton, OH		205.1 km
	WNEO	D29	DT	LIC	ALLIANCE, OH	BLANK0000120667	141.7
	WCHS-TV	D29	DT	LIC	CHARLESTON, WV	BLANK0000059340	169.2
	WKMR	D30	DT	LIC	MOREHEAD, KY	BLANK0000075044	230.0
	WPTG-CD	D30	DC	LIC	Pittsburgh, PA	BLANK0000129480	181.0
	WDBJ	D30	DT	LIC	ROANOKE, VA	BLANK0000094109	342.8
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	17238.1	924,996	16636.5	856,635	16502.7	826,706	16496.7 823,834 0.04 0.35

Undesired	Total IX	Unique IX, before	Unique IX, after
WZCD-LD D30 LD APP	44.2 17,537	6.0 2,872	
WNEO D29 DT LIC	1.0 0	0.0 0	
WCHS-TV D29 DT LIC	1.0 0	0.0 0	
WKMR D30 DT LIC	97.9 28,965	54.0 18,620	37.9 13,357
WPTG-CD D30 DC LIC	56.0 10,643	20.0 614	18.0 571
WDBJ D30 DT LIC	26.8 690	12.9 349	12.9 349

Interference to proposal scenario 1
28.39% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WZCD-LD	D30	LD	APP	Cincinnati-Dayton, OH		
Undesireds:	W29EL-D	D29	LD	LIC	LIMA, OH	BLANK0000153252	139.8 km
	WPTO	D29	DT	LIC	OXFORD, OH	BLANK0000113643	42.3
	WOOH-LD	D29	LD	LIC	ZANESVILLE, OH	BLANK0000114544	127.6
	WKPC-TV	D30	DT	LIC	LOUISVILLE, KY	BLANK0000087420	179.7

WKMR	D30	DT	LIC	MOREHEAD, KY	BLANK0000075044	163.2
W30EX-D	D30	LD	LIC	LIMA, OH	BLANK00000152175	279.2
WHIZ-TV	D30	DT	LIC	ZANESVILLE, OH	BLANK00000125049	205.1
WDTN	D31	DT	LIC	DAYTON, OH	BLANK00000126718	28.4

Service area	Terrain-limited	IX-free	Percent IX
5877.1 1,895,630	5749.4 1,845,398	4523.3 1,321,579	21.32 28.39

Undesired	Total IX	Unique IX	Prcnt Unique IX
WPTO D29 DT LIC	198.6 158,181	155.9 124,732	2.71 6.76
WKPC-TV D30 DT LIC	8.0 5,026	0.0 0	0.00 0.00
WKMR D30 DT LIC	7.0 3,748	1.0 54	0.02 0.00
WHIZ-TV D30 DT LIC	16.0 4,223	1.0 186	0.02 0.01
WDTN D31 DT LIC	1060.2 397,362	1009.4 356,347	17.56 19.31