

tvstudy v2.2.5 (V91R41)

Database: localhost, Study: WLEH_ch29_15kW_THA-C3, Model: Longley-Rice

Start: 2018.04.03 09:51:05

Study created: 2018.04.03 09:51:04

Study build station data: LMS TV 2018-03-19

Proposal: WLEH-LD D29 LD LIC Saint Louis, MO

File number: BLANK0000007006

Facility ID: 188749

Station data: User record

Record ID: 245

Country: U.S.

Build options:

Protect baseline records from LPTV

Search options:

Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WYZZ-TV	D28	DT	LIC	BLOOMINGTON, IL	BLCDT20060609ABE	245.3 km
No	WSIU-TV	D28	LD	CP	CARBONDALE, IL	BDRTEDT20100830ABG	122.1
Yes	WRBU	D28	DT	CP	EAST ST. LOUIS, IL	BLANK00000034410	61.9
No	W28EB-D	D28	LD	CP	EFFINGHAM, IL	BMPDTL20111006ACQ	119.9
No	WEVV-TV	D28	DT	CP	EVANSVILLE, IN	BLANK00000027564	207.2
No	K41HC	D29+	LD	APP	MOUNTAIN HOME, AR	BLANK00000029993	331.6
No	KWOG	D29	DT	CP	SPRINGDALE, AR	BLANK00000034581	473.6
No	KGAN	D29	DT	LIC	CEDAR RAPIDS, IA	BLCDT20140416AAI	460.0
No	W40CV-D	D29	LD	APP	JACKSONVILLE, IL	BLANK00000033138	125.7
No	WAUR-LD	D29	LD	LIC	Ottawa, IL	BLANK00000018958	362.4
No	WAUR-LD	D29	LD	APP	Ottawa, IL	BLANK00000035883	367.7
Yes	W29CI-D	D29	DC	LIC	SALEM, IL	BLDTA20120913AAP	69.1
No	WJYL-CD	D29	DC	CP	JEFFERSONVILLE, IN	BLANK00000034246	345.0
No	WSBT-TV	D29	DT	CP	SOUTH BEND, IN	BLANK00000034389	461.6
No	WKGB-TV	D29	DT	CP	BOWLING GREEN, KY	BLANK00000025285	317.7
No	WKGB-TV	D29	DT	APP	BOWLING GREEN, KY	BLANK00000034655	317.7
No	NEW	D29	LD	APP	BOWLING GREEN, KY	BNPDTL20090825BHZ	336.7
No	NEW	D29	LD	APP	GLASGOW, KY	BNPDTL20090825AQM	368.0
No	KMBC-TV	D29	DT	LIC	KANSAS CITY, MO	BLCDT20090618ACY	414.8
No	K29JF-D	D29	LD	LIC	ROLLA, MO	BLDTL20130222ADE	184.6
No	WPTO	D29	DT	CP	OXFORD, OH	BLANK00000034602	461.5
No	WKNO	D29	DT	LIC	MEMPHIS, TN	BLEDT20060627ABE	370.7
No	WIIW-LD	D29	LD	CP	NASHVILLE, TN	BDISDTL20110831ABK	361.7
No	WEIU-TV	D30	DT	CP	CHARLESTON, IL	BLANK00000029172	175.5
No	WEDK-LD	D30	LD	CP	EFFINGHAM, IL	BMPDTL20111006ACR	119.9
No	WTCT	D30	DT	CP	MARION, IL	BLANK00000034912	123.4
No	K30NE-D	D30	LD	CP	CAPE GIRARDEAU, MO	BNPDTL20100907ACB	132.6

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D29

Mask: Full Service

Latitude: 38 29 23.00 N (NAD83)

Longitude: 89 47 18.00 W

Height AMSL: 165.6 m

HAAT: 0.0 m

Peak ERP: 15.0 kW

Antenna: DIE THA-C3 264.0 deg

Elev Patrn: Generic

50.2 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	12.8 kW	27.8 m	29.4 km
45.0	2.46	21.2	21.8
90.0	0.004	38.0	4.9
135.0	5.27	40.1	28.1
180.0	12.4	42.9	32.9
225.0	14.3	32.1	30.4
270.0	12.4	21.6	29.2
315.0	14.3	19.1	29.9

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 30 m

Distance to Canadian border: 682.5 km

Distance to Mexican border: 1440.2 km

Conditions at FCC monitoring station: Allegan MI

Bearing: 34.1 degrees Distance: 560.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 282.6 degrees Distance: 1338.2 km

Study cell size: 0.50 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 BLANK0000034410 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WRBU	D28	DT	CP	EAST ST. LOUIS, IL	BLANK0000034410	
Undesireds:	WLEH-LD	D29	LD	LIC	Saint Louis, MO	BLANK0000007006	61.9 km
	WYZZ-TV	D28	DT	LIC	BLOOMINGTON, IL	BLCDT20060609ABE	274.9
	WIPX-TV	D28	DT	APP	BLOOMINGTON, IN	BLANK0000034351	392.0
	WEVV-TV	D28	DT	CP	EVANSVILLE, IN	BLANK0000027564	263.3
	KOZL-TV	D28	DT	LIC	SPRINGFIELD, MO	BLCDT20070213ABB	252.2
	WREG-TV	D28	DT	LIC	MEMPHIS, TN	BLCDT20050513AAE	361.2
	W29CI-D	D29	DC	LIC	SALEM, IL	BLDTA20120913AAP	131.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
27730.6 2,932,613	27424.1 2,928,477	27020.8 2,919,365	27014.8 2,916,940	0.02 0.08

Undesired		Total IX		Unique IX, before		Unique IX, after	
WLEH-LD D29 LD LIC	6.0	2,425			6.0	2,425	
WYZZ-TV D28 DT LIC	117.0	785	106.3	742	106.3	742	
WEVV-TV D28 DT CP	18.1	554	9.9	453	9.9	453	
KOZL-TV D28 DT LIC	145.1	5,444	138.5	5,439	138.5	5,439	
WREG-TV D28 DT LIC	7.0	44	3.9	44	3.9	44	
W29CI-D D29 DC LIC	137.2	2,429	128.4	2,315	128.4	2,315	

Interference to BLDTA20120913AAP LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W29CI-D	D29	DC	LIC	SALEM, IL	BLDTA20120913AAP	
Undesireds:	WLEH-LD	D29	LD	LIC	Saint Louis, MO	BLANK0000007006	69.1 km
	WKGB-TV	D29	DT	CP	BOWLING GREEN, KY	BLANK0000025285	264.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
6688.0 127,235	6687.2 127,235	6687.2 127,235	6686.5 127,235	0.01 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
WLEH-LD D29 LD LIC	0.8	0		0.8

Interference to proposal scenario 1

**MX: 3.78% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WLEH-LD	D29	LD	LIC	Saint Louis, MO	BLANK0000007006	
Undesireds:	WRBU	D28	DT	CP	EAST ST. LOUIS, IL	BLANK0000034410	61.9 km
	W40CV-D	D29	LD	APP	JACKSONVILLE, IL	BLANK0000033138	125.7
	W29CI-D	D29	DC	LIC	SALEM, IL	BLDTA20120913AAP	69.1
	WKGB-TV	D29	DT	CP	BOWLING GREEN, KY	BLANK0000025285	317.7

Service area	Terrain-limited	IX-free	Percent IX
2288.9 263,875	2265.8 259,151	2148.5 249,363	5.18 3.78

Undesired	Total IX	Unique IX	Prcnt Unique IX
WRBU D28 DT CP	8.3 1,221	2.5 148	0.11 0.06
W40CV-D D29 LD APP	2.8 930	0.0 0	0.00 0.00
W29CI-D D29 DC LIC	112.5 8,749	109.0 8,567	4.81 3.31