

Note:
Study cell size: 1.00 km
Profile point spacing: 0.10 km

Database: localhost, Study: WDLH_Ch24_4x3_220deg_Pre, Model: Longley-Rice
Start: 2019.05.03 11:31:56

Study created: 2019.05.03 11:30:15

Study build station data: LMS TV 2019-05-02

Proposal: WDLH-LD D24 LD APP EVANSVILLE, IN
File number: WDLH_Ch24_4x3_220deg
Facility ID: 183861
Station data: User record
Record ID: 943
Country: U.S.

Build options:
Protect pre-transition records not on baseline channel
Protect baseline records from LPTV

Search options:
Baseline record excluded if station has CP
All records for new LPTV stations excluded

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WUSI-TV	D23	DT	CP	OLNEY, IL	BLANK0000034827	130.0 km
Yes	W23BV-D	D23	LD	LIC	EVANSVILLE, IN	BLDTA20090720ACU	40.9
No	W23DZ-D	D23	LD	LIC	TERRE HAUTE, IN	BLANK0000010881	112.5
No	W23DZ-D	D23	LD	CP	TERRE HAUTE, IN	BLANK0000010909	100.8
No	WKZT-TV	D23	DT	CP	ELIZABETHTOWN, KY	BLANK0000034628	132.0
No	WKPD	D23	DT	CP	PADUCAH, KY	BLANK0000034632	145.4
No	KETC	D23	DT	LIC	ST. LOUIS, MO	BLANK0000055432	277.2
No	WJDE-LD	D23	DC	CP	NASHVILLE, TN	BLANK0000034264	186.8
No	WNAB	D23	DT	LIC	NASHVILLE, TN	BLCDT20040712AAO	182.8
No	WHIQ	D24	DT	LIC	HUNTSVILLE, AL	BLANK0000004828	353.6
No	KPMF-LD	D24	LD	CP	PARAGOULD, AR	BLANK0000051654	360.2
No	WFLD	D24	DT	CP	CHICAGO, IL	BLANK0000034486	448.4
No	W38FQ-D	D24	LD	APP	JACKSONVILLE, IL	BLANK0000071937	293.4
No	WHOI	D24	DT	CP	PEORIA, IL	BLANK0000034285	367.0
No	WPTA	D24	DT	LIC	FORT WAYNE, IN	BLANK0000068624	405.4
Yes	WJTS-CD	D24	DC	CP	JASPER, IN	BLANK0000028094	71.0
Yes	WNKY	D24	DT	CP	BOWLING GREEN, KY	BLANK0000025367	136.2
No	WCVN-TV	D24	DT	LIC	COVINGTON, KY	BLEDT20020201ABJ	278.5
No	WKYI-CD	D24	DC	LIC	LOUISVILLE, KY	BLDTA20091030AGQ	142.2
No	WQTV-LP	N24+	TX	LIC	MURRAY, KY	BLTTL20010425AAF	169.8
No	WKON	D24	DT	CP	OWENTON, KY	BLANK0000034637	232.4
No	WKPI-TV	D24	DT	LIC	PIKEVILLE, KY	BLANK0000007531	427.9
No	K24KY-D	D24	LD	CP	CAPE GIRARDEAU, MO	BLANK0000036238	238.5
No	KMOV	D24	DT	LIC	ST. LOUIS, MO	BLCDT20090626ACG	270.2
No	W24EP-D	D24	DC	LIC	FULTON, MS	BLANK0000063965	429.9
No	WDDA-LD	D24	LD	CP	CHATTANOOGA, TN	BDCCDTL20110616AAB	351.2
No	WDTT-LD	D24	LD	LIC	KNOXVILLE, TN	BLDTL20130311AEF	363.8
No	WNPX-LP	D24-	LD	CP	NASHVILLE, TN	BLANK0000051849	182.3
No	WETP-TV	D24	DT	CP	SNEEDVILLE, TN	BLANK0000029748	402.4
No	WUWT-CD	D24	DC	CP	UNION CITY, TN	BLANK0000028231	217.5
No	WEDK-LD	D25	LD	APP	EFFINGHAM, IL	BLANK0000071856	169.2
Yes	W39DS-D	D25	LD	APP	EVANSVILLE, IN	BLANK0000071993	27.8
No	WRTV	D25	DT	LIC	INDIANAPOLIS, IN	BLCDT20090623ACJ	247.6
No	W50CI-D	D25	LD	CP	LOUISVILLE, KY	BLANK0000051790	142.2
No	WDKA	D25	DT	CP	PADUCAH, KY	BLANK0000034371	150.6
No	WUPX-TV	D25	DT	CP	RICHMOND, KY	BLANK0000064267	232.7
No	WJFB	D25	DT	CP	LEBANON, TN	BLANK0000034895	206.7
No	WTVF	D25	DT	LIC	NASHVILLE, TN	BLCDT20120913AAW	182.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D24
Mask: Full Service
Latitude: 37 51 7.10 N (NAD83)
Longitude: 87 19 44.00 W
Height AMSL: 129.3 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: SIRA 4x3 220.0 deg
Elev Pattn: Generic

49.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	2.57 kW	13.2 m	22.5 km
45.0	0.284	14.9	13.1
90.0	4.17	9.4	24.8
135.0	12.8	11.8	29.8
180.0	13.1	10.6	29.9
225.0	12.6	3.8	29.8
270.0	12.7	3.7	29.8
315.0	14.6	16.1	30.4

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 10 m

Distance to Canadian border: 575.1 km

Distance to Mexican border: 1569.2 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 151.3 degrees Distance: 501.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 284.8 degrees Distance: 1563.8 km

Study cell size: 1.00 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 BLDTA20090720ACU LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W23BV-D	D23	LD	LIC	EVANSVILLE, IN	BLDTA20090720ACU	
Undesireds:	WDLH-LD	D24	LD	APP	EVANSVILLE, IN	WDLH_Ch24_4x3_220deg	40.9 km
	WTVW	D22	DT	CP	EVANSVILLE, IN	BLANK0000034881	30.8
	WUSI-TV	D23	DT	CP	OLNEY, IL	BLANK0000034827	93.6
	W23DZ-D	D23	LD	LIC	TERRE HAUTE, IN	BLANK0000010881	99.9
	WKZT-TV	D23	DT	CP	ELIZABETHTOWN, KY	BLANK0000034628	169.3
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
3351.0		301,388		3349.0 301,388		2910.1 289,435	0.17 0.02
Undesired		Total IX		Unique IX, before		Unique IX, after	
WDLH-LD D24 LD APP		10.1		125		5.1 64	
WTVW D22 DT CP		244.3		5,192		165.6 3,891	
WUSI-TV D23 DT CP		267.1		7,937		188.5 6,697	
WKZT-TV D23 DT CP		1.0		0		0.0 0	

Interference to BLANK0000028094 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WJTS-CD	D24	DC	CP	JASPER, IN	BLANK0000028094	
Undesireds:	WDLH-LD	D24	LD	APP	EVANSVILLE, IN	WDLH_Ch24_4x3_220deg	71.0 km
	WKON	D24	DT	CP	OWENTON, KY	BLANK0000034637	180.3

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
7215.2 147,553	7112.9 146,137	7111.9 146,063	7099.8 145,970	0.17 0.06
Undesired	Total IX	Unique IX, before	Unique IX, after	
WDLH-LD D24 LD APP	12.1 93		12.1 93	
WKON D24 DT CP	1.0 74	1.0 74	1.0 74	

Interference to BLANK0000025367 CP scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: WNKY	D24	DT	CP	BOWLING GREEN, KY	BLANK0000025367	
Undesireds: WDLH-LD	D24	LD	APP	EVANSVILLE, IN	WDLH_Ch24_4x3_220deg	136.2 km
WKZT-TV	D23	DT	CP	ELIZABETHTOWN, KY	BLANK0000034628	77.8
WHIQ	D24	DT	LIC	HUNTSVILLE, AL	BLANK0000004828	257.4
WJTS-CD	D24	DC	CP	JASPER, IN	BLANK0000028094	161.7
WKON	D24	DT	CP	OWENTON, KY	BLANK0000034637	204.6
WETP-TV	D24	DT	CP	SNEEDVILLE, TN	BLANK0000029748	276.8
WJFB	D25	DT	CP	LEBANON, TN	BLANK0000034895	99.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
13881.3 376,555	13704.4 372,751	13514.2 369,217	13506.1 369,075	0.06 0.04
Undesired	Total IX	Unique IX, before	Unique IX, after	
WDLH-LD D24 LD APP	15.2 240		8.1 142	
WKZT-TV D23 DT CP	120.9 2,417	109.7 2,272	109.7 2,272	
WHIQ D24 DT LIC	25.1 506	19.1 417	18.1 417	
WJTS-CD D24 DC CP	13.2 284	6.1 216	5.0 216	
WKON D24 DT CP	18.2 271	2.0 8	2.0 8	
WETP-TV D24 DT CP	41.2 488	24.0 169	24.0 169	
WJFB D25 DT CP	6.0 68	6.0 68	6.0 68	

Interference to BLANK0000071993 APP scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: W39DS-D	D25	LD	APP	EVANSVILLE, IN	BLANK0000071993	
Undesireds: WDLH-LD	D24	LD	APP	EVANSVILLE, IN	WDLH_Ch24_4x3_220deg	27.8 km
WJTS-CD	D24	DC	CP	JASPER, IN	BLANK0000028094	60.7
WRTV	D25	DT	LIC	INDIANAPOLIS, IN	BLCDDT20090623ACJ	238.7
WDKA	D25	DT	CP	PADUCAH, KY	BLANK0000034371	177.0
WJFB	D25	DT	CP	LEBANON, TN	BLANK0000034895	196.4
WFIE	D26	DT	CP	EVANSVILLE, IN	BLANK0000034157	44.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
2456.4 127,872	2452.3 127,406	2387.7 126,389	2381.6 126,314	0.25 0.06
Undesired	Total IX	Unique IX, before	Unique IX, after	
WDLH-LD D24 LD APP	6.1 75		6.1 75	
WJTS-CD D24 DC CP	2.0 61	0.0 0	0.0 0	
WRTV D25 DT LIC	3.0 14	0.0 0	0.0 0	
WDKA D25 DT CP	3.0 14	0.0 0	0.0 0	
WJFB D25 DT CP	25.2 507	11.1 339	11.1 339	
WFIE D26 DT CP	51.5 664	37.4 510	37.4 510	

Interference to proposal scenario 1

**MX: 8.72% interference received

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: WDLH-LD	D24	LD	APP	EVANSVILLE, IN	WDLH_Ch24_4x3_220deg	
Undesireds: W23BV-D	D23	LD	LIC	EVANSVILLE, IN	BLDTA20090720ACU	40.9 km
W23DZ-D	D23	LD	LIC	TERRE HAUTE, IN	BLANK0000010881	112.5
WJTS-CD	D24	DC	CP	JASPER, IN	BLANK0000028094	71.0
WNKY	D24	DT	CP	BOWLING GREEN, KY	BLANK0000025367	136.2
KMOV	D24	DT	LIC	ST. LOUIS, MO	BLCDDT20090626ACG	270.2
W39DS-D	D25	LD	APP	EVANSVILLE, IN	BLANK0000071993	27.8

Service area	Terrain-limited	IX-free	Percent IX
2190.2 303,375	2126.4 302,597	1770.1 276,215	16.76 8.72

Undesired		Total IX		Unique IX	Prcnt Unique IX	
W23BV-D D23 LD LIC	82.9	12,578	26.3	10,975	1.24	3.63
WJTS-CD D24 DC CP	302.7	13,085	214.7	8,896	10.09	2.94
WNKY D24 DT CP	20.2	88	0.0	0	0.00	0.00
KMOV D24 DT LIC	21.3	476	2.0	0	0.10	0.00
W39DS-D D25 LD APP	47.6	4,793	23.3	2,322	1.10	0.77