

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

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: W49DW_Ch29_Omni_Move_Pre, Model: Longley-Rice
Start: 2019.04.17 15:42:00

Study created: 2019.04.17 13:27:04

Study build station data: LMS TV 2019-04-16

Proposal: W49DW-D D29 LD APP TERRE HAUTE, IN
File number: W49DW_Ch29_Omni_Move
Facility ID: 184275
Station data: User record
Record ID: 812
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

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WYZZ-TV	D28	DT	LIC	BLOOMINGTON, IL	BLCDT20060609ABE	217.8 km
No	W28EB-D	D28	LD	CP	EFFINGHAM, IL	BMPDTL20111006ACQ	106.6
Yes	WIPX-TV	D28	DT	CP	BLOOMINGTON, IN	BLANK0000034351	107.2
No	WEVV-TV	D28	DT	CP	EVANSVILLE, IN	BLANK0000027564	152.6
No	WTVW	D28	DT	LIC	EVANSVILLE, IN	BLCDT20070612ABZ	136.8
No	WUDZ-LD	D28	LD	LIC	TERRE HAUTE, IN	BLANK0000010840	123.1
No	WDYL-LD	D28	LD	LIC	LOUISVILLE, KY	BLDTL20130823ACI	165.9
No	WPTO	D28	DT	LIC	OXFORD, OH	BLEDT20040714AAQ	244.4
No	WAUR-LD	D29	LD	LIC	AURORA, IL	BLANK0000018958	308.0
No	WAUR-LD	D29	LD	CP	AURORA, IL	BLANK0000035883	286.4
No	WMAQ-TV	D29	DT	LIC	CHICAGO, IL	BLANK0000053194	292.5
No	W29ES-D	D29	LD	LIC	JACKSONVILLE, IL	BLANK0000062236	232.2
No	WLEH-LD	D29	LD	CP	MOUNT VERNON, IL	BLANK0000051658	238.9
No	W29CI-D	D29	DC	LIC	SALEM, IL	BLDTA20120913AAP	159.8
No	WEDX-LD	D29	LD	CP	FORT WAYNE, IN	BLANK0000036232	280.6
No	WJYL-CD	D29	DC	CP	JEFFERSONVILLE, IN	BLANK0000034246	166.4
Yes	WTTK	D29	DT	LIC	KOKOMO, IN	BLCDT20090930ABD	123.1
No	W51DU	D29-	LD	CP	LAFAYETTE, IN	BLANK0000054375	133.6
No	WSBT-TV	D29	DT	CP	SOUTH BEND, IN	BLANK0000034389	280.4
No	NEW	D29	LD	APP	BOWLING GREEN, KY	BNPDTL20090825BHZ	244.9
No	WKGB-TV	D29	DT	CP	BOWLING GREEN, KY	BLANK0000034655	249.3
No	WVTN-LP	D29	LD	CP	CORBIN, KY	BLANK0000054628	379.8
No	NEW	D29	LD	APP	GLASGOW, KY	BNPDTL20090825AQM	267.8
No	WXIX-TV	D29	DT	LIC	NEWPORT, KY	BLCDT20000908ABI	244.4
No	W29EL-D	D29	LD	CP	LIMA, OH	BNPDTL20100609AFJ	297.9
No	WAMS-LP	D29z	LD	CP	MINSTER/NEW BREMEN, OH	BLANK0000054301	287.1
No	WPTO	D29	DT	CP	OXFORD, OH	BLANK0000034602	246.6
No	WGTE-TV	D29	DT	LIC	TOLEDO, OH	BLEDT20031110AKO	427.4
No	W29EG-D	D29	LD	LIC	ZANESVILLE, OH	BLANK0000048395	424.4
No	WKOP-TV	D29	DT	CP	KNOXVILLE, TN	BLANK0000024513	471.1
No	WIIW-LD	D29	LD	CP	NASHVILLE, TN	BDISDTL20110831ABK	335.9
No	WDJT-TV	D29	DT	CP	MILWAUKEE, WI	BLANK0000034662	431.2
Yes	WEIU-TV	D30	DT	CP	CHARLESTON, IL	BLANK0000029172	87.1
No	WEDK-LD	D30	LD	CP	EFFINGHAM, IL	BMPDTL20111006ACR	106.9
No	WTCT	D30	DT	CP	MARION, IL	BLANK0000034912	236.8
No	WMBD-TV	D30	DT	LIC	PEORIA, IL	BLCDT20061019ADD	239.6
Yes	W30DO-D	D30	LD	CP	BRAZIL, IN	BNPDTL20100510AFI	7.3
No	WSDI-LD	D30	LD	LIC	WOLCOTT, IN	BLANK0000040106	123.1
No	WKPC-TV	D30	DT	CP	LOUISVILLE, KY	BLANK0000034634	166.4
No	WKOH	D30	DT	LIC	OWENSBORO, KY	BLEDT20020304ALJ	156.0
No	WRGT-TV	D30	DT	LIC	DAYTON, OH	BLANK0000001064	273.0

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: 39 15 16.40 N (NAD83)
Longitude: 87 22 45.30 W
Height AMSL: 250.6 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: Omnidirectional
Elev Pattrn: Generic

50.2 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	75.3 m	40.3 km
45.0	15.0	71.3	39.6
90.0	15.0	75.0	40.2
135.0	15.0	87.2	42.0
180.0	15.0	88.3	42.1
225.0	15.0	96.9	43.2
270.0	15.0	89.6	42.3
315.0	15.0	93.1	42.8

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 85 m

Distance to Canadian border: 465.3 km

Distance to Mexican border: 1656.8 km

Conditions at FCC monitoring station: Allegan MI
Bearing: 17.3 degrees Distance: 391.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 279.4 degrees Distance: 1526.8 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 BLANK0000034351 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WIPX-TV	D28	DT	CP	BLOOMINGTON, IN	BLANK0000034351	
Undesireds:	W49DW-D	D29	LD	APP	TERRE HAUTE, IN	W49DW_Ch29_Omni_Move	107.2 km
	WTTV	D27	DT	CP	BLOOMINGTON, IN	BLANK0000034516	0.5
	WYZZ-TV	D28	DT	LIC	BLOOMINGTON, IL	BLCDT20060609ABE	292.7
	WEVV-TV	D28	DT	CP	EVANSVILLE, IN	BLANK0000027564	207.5
	WIWU-CD	D28	DC	CP	MARION, IN	BLANK0000033170	141.3
	WLEX-TV	D28	DT	CP	LEXINGTON, KY	BLANK0000028121	215.1
	WSYX	D28	DT	CP	COLUMBUS, OH	BLANK0000027371	273.9
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
22978.9	2,303,274	22868.4	2,302,401	22504.3	2,280,371	22502.3 2,280,242	0.01 0.01

Undesired	Total IX	Unique IX, before	Unique IX, after
W49DW-D D29 LD APP	6.0 181		2.0 129
WTTV D27 DT CP	18.1 2,633	17.1 2,607	17.1 2,607
WYZZ-TV D28 DT LIC	74.5 1,108	42.7 913	42.7 913
WEVV-TV D28 DT CP	141.2 2,243	105.5 1,650	104.5 1,650
WIWU-CD D28 DC CP	116.4 15,137	110.4 15,078	110.4 15,078
WLEX-TV D28 DT CP	31.9 319	20.9 173	20.9 173
WSYX D28 DT CP	30.7 1,309	23.8 934	23.8 934

Interference to BLCDT20090930ABD LIC scenario 1

**IX: 1.27% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WTTK	D29	DT	LIC	KOKOMO, IN	BLCDT20090930ABD	
Undesireds:	W49DW-D	D29	LD	APP	TERRE HAUTE, IN	W49DW_Ch29_Omni_Move	123.1 km
	WMAQ-TV	D29	DT	LIC	CHICAGO, IL	BLANK0000053194	251.9
	WXIX-TV	D29	DT	LIC	NEWPORT, KY	BLCDT20000908ABI	165.5
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
27290.7 2,816,923		27059.6 2,806,423		26434.4 2,785,594		25605.0 2,750,301	3.14 1.27
Undesired		Total IX		Unique IX, before		Unique IX, after	
W49DW-D D29 LD APP		856.4 36,962				829.4 35,293	
WMAQ-TV D29 DT LIC		17.0 1,817		12.0 150		11.0 150	
WXIX-TV D29 DT LIC		613.2 20,679		608.2 19,012		583.3 17,381	

Interference to BLANK0000029172 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WEIU-TV	D30	DT	CP	CHARLESTON, IL	BLANK0000029172	
Undesireds:	W49DW-D	D29	LD	APP	TERRE HAUTE, IN	W49DW_Ch29_Omni_Move	87.1 km
	KLJB	D30	DT	CP	DAVENPORT, IA	BLANK0000034774	261.1
	WTCT	D30	DT	CP	MARION, IL	BLANK0000034912	232.3
	WKPC-TV	D30	DT	CP	LOUISVILLE, KY	BLANK0000034634	252.3
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
13943.8 453,508		13928.0 453,451		13809.6 452,182		13804.7 452,143	0.04 0.01
Undesired		Total IX		Unique IX, before		Unique IX, after	
W49DW-D D29 LD APP		40.7 244				5.0 39	
KLJB D30 DT CP		12.1 597		4.0 222		4.0 222	
WTCT D30 DT CP		114.3 1,047		92.4 540		67.6 457	
WKPC-TV D30 DT CP		13.9 132		0.0 0		0.0 0	

Interference to BNPDTL20100510AFI CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W30DO-D	D30	LD	CP	BRAZIL, IN	BNPDTL20100510AFI	
Undesireds:	W49DW-D	D29	LD	APP	TERRE HAUTE, IN	W49DW_Ch29_Omni_Move	7.3 km
	WEIU-TV	D30	DT	CP	CHARLESTON, IL	BLANK0000029172	89.4
	WTCT	D30	DT	CP	MARION, IL	BLANK0000034912	230.5
	WKPC-TV	D30	DT	CP	LOUISVILLE, KY	BLANK0000034634	163.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
3763.6 121,364		3754.6 121,301		3575.7 113,631		3575.7 113,631	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
W49DW-D D29 LD APP		1.0 615				0.0 0	
WEIU-TV D30 DT CP		176.0 7,669		173.0 7,660		172.0 7,045	
WTCT D30 DT CP		4.0 10		1.0 1		1.0 1	
WKPC-TV D30 DT CP		2.0 0		2.0 0		2.0 0	

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W49DW-D	D29	LD	APP	TERRE HAUTE, IN	W49DW_Ch29_Omni_Move	
Undesireds:	WAUR-LD	D29	LD	LIC	AURORA, IL	BLANK0000018958	308.0 km
	W30DO-D	D30	LD	CP	BRAZIL, IN	BNPDTL20100510AFI	7.3
Service area		Terrain-limited		IX-free		Percent IX	
5429.5 195,934		5418.6 195,858		5401.7 194,945		0.31 0.47	
Undesired		Total IX		Unique IX		Prcnt Unique IX	
W30DO-D D30 LD CP		16.9 913		16.9 913		0.31 0.47	