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

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: WELW_Ch30_Omni_Post, Model: Longley-Rice
Start: 2019.05.31 14:23:42

Study created: 2019.05.31 13:46:49

Study build station data: LMS TV 2019-05-31

    Proposal: WELW-LD D30 LD APP EVANSVILLE, IN
 File number: WELW_Ch30_Omni
 Facility ID: 181921
Station data: User record
   Record ID: 974
     Country: U.S.

Build options:
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	WLEH-LD	D29	LD	CP	MOUNT VERNON, IL	BLANK0000051658	224.0 km
No	W29CI-D	D29	DC	LIC	SALEM, IL	BLDTA20120913AAP	154.9
No	WJYL-CD	D29	DC	CP	JEFFERSONVILLE, IN	BLANK0000034246	139.3
No	W49DW-D	D29	LD	APP	TERRE HAUTE, IN	BLANK0000071923	136.8
No	WKGB-TV	D29	DT	CP	BOWLING GREEN, KY	BLANK0000034655	122.0
No	WPTO	D29	DT	CP	OXFORD, OH	BLANK0000034602	275.4
No	WIIW-LD	D29	LD	CP	NASHVILLE, TN	BDISDTL20110831ABK	201.5
No	KLJB	D30	DT	CP	DAVENPORT, IA	BLANK0000034774	447.4
Yes	WEIU-TV	D30	DT	CP	CHARLESTON, IL	BLANK0000029172	190.4
No	WDCI-LD	D30	LD	LIC	CHICAGO, IL	BLDTL20120131AAW	429.7
No	WEDK-LD	D30	LD	CP	EFFINGHAM, IL	BMPDTL20111006ACR	152.9
Yes	WTCT	D30	DT	CP	MARION, IL	BLANK0000034912	154.9
No	WODK-LD	D30	LD	CP	SPRINGFIELD, IL	BLANK0000051637	258.0
Yes	W30DO-D	D30	LD	CP	BRAZIL, IN	BNPDTL20100510AFI	129.5
No	WSJV	D30	DT	CP	ELKHART, IN	BLANK0000027461	411.5
No	WSDI-LD	D30	LD	LIC	WOLCOTT, IN	BLANK0000040106	230.6
Yes	WKPC-TV	D30	DT	CP	LOUISVILLE, KY	BLANK0000034634	139.0
No	WKMR	D30	DT	CP	MOREHEAD, KY	BLANK0000029752	346.5
No	K30NE-D	D30	LD	CP	CAPE GIRARDEAU, MO	BNPDTL20100907ACB	241.1
No	WQEK-LD	D30	LD	CP	CLARKSDALE, MS	BLANK0000051653	373.7
No	W30DP-D	D30	LD	CP	ALGOOD, TN	BNPDTL20100609AFX	266.4
No	WCKV-LD	D30	LD	LIC	CLARKSVILLE, TN	BLDTL20131213AAA	166.3
No	W45DF-D	D30	LD	CP	KNOXVILLE, TN	BLANK0000054599	377.0
Yes	WNAB	D30	DT	CP	NASHVILLE, TN	BLANK0000034797	202.0
Yes	WVUT	D31	DT	CP	VINCENNES, IN	BLANK0000027953	70.5
Yes	WKMA-TV	D31	DT	CP	MADISONVILLE, KY	BLANK0000034649	93.8
No	KDNL-TV	D31	DT	LIC	ST. LOUIS, MO	BLCDT20021216AAE	266.1

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: 38 1 26.80 N (NAD83)
  Longitude: 87 21 43.30 W
Height AMSL: 245.1 m
       HAAT: 0.0 m
   Peak ERP: 15.0 kW
    Antenna: Omnidirectional
Elev Pattrn: Generic

50.3 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	108.5 m	44.4 km
45.0	15.0	112.1	44.8
90.0	15.0	119.5	45.4
135.0	15.0	123.5	45.7
180.0	15.0	126.4	45.9
225.0	15.0	123.2	45.7
270.0	15.0	128.0	46.0
315.0	15.0	121.9	45.6

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 120 m

Distance to Canadian border: 561.9 km

Distance to Mexican border: 1577.4 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 152.0 degrees Distance: 519.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 284.2 degrees Distance: 1556.2 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 BLANK0000029172 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WEIU-TV	D30	DT	CP	CHARLESTON, IL	BLANK0000029172	
Undesireds:	WELW-LD	D30	LD	APP	EVANSVILLE, IN	WELW_Ch30_Omni	190.4 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	13809.6	452,182	0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
WELW-LD D30 LD APP	7.9	121			0.0	0
KLJB D30 DT CP	12.1	597	4.0	222	4.0	222
WTCT D30 DT CP	114.3	1,047	92.4	540	91.4	529
WKPC-TV D30 DT CP	13.9	132	0.0	0	0.0	0

Interference to BLANK0000034912 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WTCT	D30	DT	CP	MARION, IL	BLANK0000034912	
Undesireds:	WELW-LD	D30	LD	APP	EVANSVILLE, IN	WELW_Ch30_Omni	154.9 km
	W29CI-D	D29	DC	LIC	SALEM, IL	BLDTA20120913AAP	111.8
	WEIU-TV	D30	DT	CP	CHARLESTON, IL	BLANK0000029172	232.3
	WKPC-TV	D30	DT	CP	LOUISVILLE, KY	BLANK0000034634	293.8
	WNAB	D30	DT	CP	NASHVILLE, TN	BLANK0000034797	244.8
	WKMA-TV	D31	DT	CP	MADISONVILLE, KY	BLANK0000034649	139.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
24439.6	605,636	24229.5	604,003	24071.0	602,643	23976.8	602,334	0.39	0.05

Undesired	Total IX		Unique IX, before		Unique IX, after	
WELW-LD D30 LD APP	121.3	451			94.2	309
W29CI-D D29 DC LIC	44.2	719	42.2	711	42.2	711
WEIU-TV D30 DT CP	19.2	83	14.1	75	8.1	18

WKPC-TV D30 DT CP	1.0	0	0.0	0	0.0	0
WNAB D30 DT CP	99.2	566	96.1	566	79.1	483
WKMA-TV D31 DT CP	1.0	0	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:	WELW-LD	D30	LD	APP	EVANSVILLE, IN	WELW_Ch30_Omni	129.5 km
	W49DW-D	D29	LD	APP	TERRE HAUTE, IN	BLANK0000071923	7.3
	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	
WELW-LD D30 LD APP	1.0	4			0.0	0
W49DW-D D29 LD APP	1.0	615	0.0	0	0.0	0
WEIU-TV D30 DT CP	176.0	7,669	172.0	7,045	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 BLANK0000034634 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WKPC-TV	D30	DT	CP	LOUISVILLE, KY	BLANK0000034634	
Undesireds:	WELW-LD	D30	LD	APP	EVANSVILLE, IN	WELW_Ch30_Omni	139.0 km
	WEIU-TV	D30	DT	CP	CHARLESTON, IL	BLANK0000029172	252.3
	WTCT	D30	DT	CP	MARION, IL	BLANK0000034912	293.8
	WKMR	D30	DT	CP	MOREHEAD, KY	BLANK0000029752	212.8
	WNAB	D30	DT	CP	NASHVILLE, TN	BLANK0000034797	248.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
17049.2	1,525,548	16728.5	1,518,059	16669.3	1,517,009	16645.1	1,516,849	0.14	0.01

Undesired	Total IX		Unique IX, before		Unique IX, after	
WELW-LD D30 LD APP	42.2	222			24.2	160
WEIU-TV D30 DT CP	17.0	90	10.0	32	7.0	24
WTCT D30 DT CP	25.1	804	21.1	762	10.0	708
WKMR D30 DT CP	21.1	167	13.1	77	11.1	77
WNAB D30 DT CP	6.1	84	5.1	84	5.1	84

Interference to BLANK0000034797 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WNAB	D30	DT	CP	NASHVILLE, TN	BLANK0000034797	
Undesireds:	WELW-LD	D30	LD	APP	EVANSVILLE, IN	WELW_Ch30_Omni	202.0 km
	WKGB-TV	D29	DT	CP	BOWLING GREEN, KY	BLANK0000034655	92.9
	WIAT	D30	DT	LIC	BIRMINGHAM, AL	BLCDT20021219AAV	308.9
	WTCT	D30	DT	CP	MARION, IL	BLANK0000034912	244.8
	WKPC-TV	D30	DT	CP	LOUISVILLE, KY	BLANK0000034634	248.8
	WKMA-TV	D31	DT	CP	MADISONVILLE, KY	BLANK0000034649	121.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
31029.5	2,182,968	30328.1	2,173,230	29880.3	2,156,505	29880.3	2,156,505	0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
WELW-LD D30 LD APP	3.0	0			0.0	0
WKGB-TV D29 DT CP	67.0	1,899	50.0	1,716	50.0	1,716
WIAT D30 DT LIC	182.1	8,084	171.2	7,885	171.2	7,885
WTCT D30 DT CP	218.6	6,965	184.6	6,546	182.6	6,546
WKPC-TV D30 DT CP	6.0	108	3.0	54	3.0	54
WKMA-TV D31 DT CP	10.0	128	4.0	69	4.0	69

Interference to BLANK0000027953 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVUT	D31	DT	CP	VINCENNES, IN	BLANK0000027953	
Undesireds:	WELW-LD	D30	LD	APP	EVANSVILLE, IN	WELW_Ch30_Omni	70.5 km
	WKMA-TV	D31	DT	CP	MADISONVILLE, KY	BLANK0000034649	162.6
	KDNL-TV	D31	DT	LIC	ST. LOUIS, MO	BLCDT20021216AAE	247.8
	WDTN	D31	DT	CP	DAYTON, OH	BLANK0000034768	301.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
12081.1	273,861	12035.0	273,611	11738.8	270,323	11720.6	270,162	0.15	0.06

Undesired	Total IX		Unique IX, before		Unique IX, after	
WELW-LD D30 LD APP	58.5	381			18.1	161
WKMA-TV D31 DT CP	161.1	1,082	129.9	915	96.7	758
KDNL-TV D31 DT LIC	161.4	2,355	132.2	2,188	130.2	2,174
WDTN D31 DT CP	7.0	28	2.0	11	2.0	11

Interference to BLANK0000034649 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WKMA-TV	D31	DT	CP	MADISONVILLE, KY	BLANK0000034649	
Undesireds:	WELW-LD	D30	LD	APP	EVANSVILLE, IN	WELW_Ch30_Omni	93.8 km
	WTCT	D30	DT	CP	MARION, IL	BLANK0000034912	139.5
	WNAB	D30	DT	CP	NASHVILLE, TN	BLANK0000034797	121.2
	WVUT	D31	DT	CP	VINCENNES, IN	BLANK0000027953	162.6
	KDNL-TV	D31	DT	LIC	ST. LOUIS, MO	BLCDT20021216AAE	291.4
	WBXX-TV	D31	DT	CP	CROSSVILLE, TN	BLANK0000025087	307.6
	WLMT	D31	DT	LIC	MEMPHIS, TN	BLCDT20050427ABN	293.9
	WNPX-TV	D32	DT	CP	FRANKLIN, TN	BLANK0000068415	104.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
17602.2	523,781	17468.7	522,950	17025.9	517,007	17017.8	516,713	0.05	0.06

Undesired	Total IX		Unique IX, before		Unique IX, after	
WELW-LD D30 LD APP	15.2	336			8.1	294
WTCT D30 DT CP	1.0	46	0.0	0	0.0	0
WNAB D30 DT CP	22.1	686	1.0	0	1.0	0
WVUT D31 DT CP	44.5	135	35.4	135	29.3	93
KDNL-TV D31 DT LIC	93.7	642	62.6	551	62.6	551
WBXX-TV D31 DT CP	64.1	1,246	27.0	568	27.0	568
WLMT D31 DT LIC	50.0	848	26.0	803	26.0	803
WNPX-TV D32 DT CP	258.7	3,795	208.5	2,797	208.5	2,797

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WELW-LD	D30	LD	APP	EVANSVILLE, IN	WELW_Ch30_Omni	
Undesireds:	WEIU-TV	D30	DT	CP	CHARLESTON, IL	BLANK0000029172	190.4 km
	WTCT	D30	DT	CP	MARION, IL	BLANK0000034912	154.9
	WKPC-TV	D30	DT	CP	LOUISVILLE, KY	BLANK0000034634	139.0

Service area		Terrain-limited		IX-free		Percent IX	
6478.2	445,914	6439.9	445,737	6059.4	440,442	5.91	1.19

Undesired	Total IX		Unique IX		Prcnt Unique IX	
WEIU-TV D30 DT CP	2.0	31	0.0	0	0.00	0.00
WTCT D30 DT CP	375.4	5,274	362.3	5,128	5.63	1.15
WKPC-TV D30 DT CP	16.1	136	5.0	21	0.08	0.00