

INTERFERENCE ANALYSIS FOR PROPOSED WBND-LD SOUTH BEND, INDIANA (CHANNEL 35)(WORST-CASE SCENARIOS)

tvstudy v2.2.4 (Z2Qqz3)
Database: localhost, Study: wbn35p3, Model: Longley-Rice

Study build station data: LMS TV 2018-02-06 (131)

Proposal: WBND35P3 D35 LD APP SOUTH BEND, IN
File number: wbn35p3
Facility ID: 71426
Station data: User record
Record ID: 2150
Country: U.S.

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WCIA	D34	DT	CP	CHAMPAIGN, IL	BLANK0000028445	253.7 km
No	WCIA	D34	DT	APP	CHAMPAIGN, IL	BLANK0000034728	253.7
Yes	WCPX-TV	D34	DT	CP	CHICAGO, IL	BLANK0000026971	123.8
Yes	WCPX-TV	D34	DT	APP	CHICAGO, IL	BLANK0000034347	123.8
Yes	WISE-TV	D34	DT	CP	FORT WAYNE, IN	BLANK0000027665	101.1
No	WKBD-TV	D34	DT	CP	DETROIT, MI	BLANK0000034396	256.0
Yes	WGBO-DT	D35	DT	CP	JOLIET, IL	BLANK0000025108	123.3
Yes	WGBO-DT	D35	DT	APP	JOLIET, IL	BLANK0000034007	123.3
No	W35DE-D	D35	LD	LIC	PEORIA, IL	BLANK0000010564	304.2
No	W35DE-D	D35	LD	CP	PEORIA, IL	BLANK0000010597	282.3
No	WTVP	D35	DT	CP	PEORIA, IL	BLANK0000028050	303.9
No	WFBN-LD	D35	LD	LIC	ROCKFORD, IL	BLDTT20131212ABL	249.5
No	NEW	D35	LD	APP	FORT WAYNE, IN	BNPDTL20091218AFM	113.0
No	WECY-LD	D35	LD	LIC	Indianapolis, IN	BLANK0000001715	170.2
No	WECY-LD	D35	LD	CP	Indianapolis, IN	BLANK0000002944	178.7
No	WTWO	D35	DT	CP	TERRE HAUTE, IN	BLANK0000028193	282.8
No	WKLE	D35	DT	CP	LEXINGTON, KY	BLANK0000034653	444.6
No	WVIU-LD	D35	LD	CP	CADILLAC, MI	BNPDTL20091211AAU	288.5
Yes	WOLP-CD	D35	DC	CP	GRAND RAPIDS, MI	BLANK0000027729	131.5
No	WPBN-TV	D35	DT	CP	TRAVERSE CITY, MI	BLANK0000034373	359.8
No	WVIZ	D35	DT	CP	CLEVELAND, OH	BLANK0000034584	375.1
No	WPTD	D35	DT	CP	DAYTON, OH	BLANK0000026763	266.3
No	WQRF-TV	D36	DT	CP	ROCKFORD, IL	BLANK0000027710	257.8
No	WCCU	D36	DT	CP	URBANA, IL	BLANK0000027777	205.1
No	WCCU	D36	DT	APP	URBANA, IL	BLANK0000034789	225.0
No	WBXI-CD	D36	DC	APP	INDIANAPOLIS, IN	BLANK0000033774	191.3
No	WHME-TV	D36	DT	APP	SOUTH BEND, IN	BLANK0000034238	3.0
No	WHME-TV	D36	DT	CP	SOUTH BEND, IN	BLANK0000025171	3.0
No	WUHO-LP	N36+	TX	LIC	KALAMAZOO, MI	BLTTL20060103ABT	85.6
No	WAQP	D36	DT	CP	SAGINAW, MI	BLANK0000034899	249.9
No	WMKE-CD	D36	DC	APP	MILWAUKEE, WI	BLANK0000034620	216.9
No	WMKE-CD	D36	DC	CP	MILWAUKEE, WI	BLANK0000028254	216.9

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:

WSBT 960 L DA2 D SOUTH BEND, IN BL
WSBT 960 L DA2 N SOUTH BEND, IN BL

Record parameters as studied:

Channel: D35
Mask: Full Service
Latitude: 41 36 54.90 N (NAD83)
Longitude: 86 11 6.60 W
Height AMSL: 563.0 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: Omnidirectional
Elev Pattn: Generic
Elec Tilt: 1.00

50.8 dBu contour:
Azimuth ERP HAAT Distance
0.0 deg 15.0 kW 329.7 m 57.3 km
45.0 15.0 335.3 57.6
90.0 15.0 315.4 56.5
135.0 15.0 307.5 56.1
180.0 15.0 310.5 56.3
225.0 15.0 303.3 55.9
270.0 15.0 323.0 56.9
315.0 15.0 335.4 57.6

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 320 m

Proposal 25.77 dBu contour does not cross Canadian border
Distance to Canadian border: 255.8 km

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Distance to Mexican border: 1897.0 km

Conditions at FCC monitoring station: Allegan MI
Bearing: 9.7 degrees Distance: 111.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 270.5 degrees Distance: 1604.9 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 BLANK0000026971 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WCPX-TV	D34	DT	CP	CHICAGO, IL	BLANK0000026971	
Undesireds:	WBND35P3	D35	LD	APP	SOUTH BEND, IN	wbnd35p3	123.8 km
	WMAQ-TV	D33	DT	CP	CHICAGO, IL	BLANK0000034535	0.1
	WOKZ-CD	D33	DC	CP	KALAMAZOO, MI	BLANK0000027731	170.9
	KQIN	D34	DT	LIC	DAVENPORT, IA	BLEDT20120921ADS	236.6
	WCIA	D34	DT	CP	CHAMPAIGN, IL	BLANK0000028445	208.6
	WQEC	D34	DT	APP	QUINCY, IL	BLANK0000035763	373.8
	WISE-TV	D34	DT	CP	FORT WAYNE, IN	BLANK0000027665	221.6
	WKBD-TV	D34	DT	CP	DETROIT, MI	BLANK0000034396	362.3
	WKEF	D34	DT	CP	DAYTON, OH	BLANK0000034522	371.8
	WWSR-TV	D34	DT	CP	MAYVILLE, WI	BLANK0000026658	187.8
	WGBO-DT	D35	DT	CP	JOLIET, IL	BLANK0000025108	2.5

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
23422.2	9,530,175	23413.2	9,529,511	22801.8	9,450,235	22801.8	9,450,235	0.00	0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
WBND35P3 D35 LD APP	9.0	152		0.0
WMAQ-TV D33 DT CP	44.2	13,252	38.1	13,081
KQIN D34 DT LIC	62.1	5,630	1.0	625
WCIA D34 DT CP	67.3	5,275	16.1	2,057
WISE-TV D34 DT CP	207.0	13,124	195.9	12,384
WWSR-TV D34 DT CP	305.0	39,857	239.8	33,765
WGBO-DT D35 DT CP	52.3	12,578	32.1	9,811

Interference to BLANK0000034347 APP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WCPX-TV	D34	DT	APP	CHICAGO, IL	BLANK0000034347	
Undesireds:	WBND35P3	D35	LD	APP	SOUTH BEND, IN	wbnd35p3	123.8 km
	WMAQ-TV	D33	DT	CP	CHICAGO, IL	BLANK0000034535	0.1
	WOKZ-CD	D33	DC	CP	KALAMAZOO, MI	BLANK0000027731	170.9
	KQIN	D34	DT	LIC	DAVENPORT, IA	BLEDT20120921ADS	236.6
	WCIA	D34	DT	CP	CHAMPAIGN, IL	BLANK0000028445	208.6
	WQEC	D34	DT	APP	QUINCY, IL	BLANK0000035763	373.8
	WISE-TV	D34	DT	CP	FORT WAYNE, IN	BLANK0000027665	221.6
	WKBD-TV	D34	DT	CP	DETROIT, MI	BLANK0000034396	362.3
	WKEF	D34	DT	CP	DAYTON, OH	BLANK0000034522	371.8
	WWSR-TV	D34	DT	CP	MAYVILLE, WI	BLANK0000026658	187.8
	WGBO-DT	D35	DT	CP	JOLIET, IL	BLANK0000025108	2.5

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
31931.2	9,809,262	31860.8	9,806,807	30951.8	9,753,203	30949.8	9,753,203	0.01	0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
WBND35P3 D35 LD APP	108.4	1,646		2.0
WMAQ-TV D33 DT CP	3.0	330	2.0	330
KQIN D34 DT LIC	131.5	6,817	8.0	33
WCIA D34 DT CP	181.1	2,564	140.0	837
WISE-TV D34 DT CP	185.7	5,350	170.7	5,105
WKEF D34 DT CP	2.0	31	0.0	0
WWSR-TV D34 DT CP	559.2	43,912	429.7	36,882
WGBO-DT D35 DT CP	20.1	3,220	17.1	3,182

Interference to BLANK0000027665 CP scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
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Desired:	WISE-TV	D34	DT	CP	FORT WAYNE, IN	BLANK0000027665	
Undesireds:	WBND35P3	D35	LD	APP	SOUTH BEND, IN	wbnd35p3	101.1 km
	WOKZ-CD	D33	DC	CP	KALAMAZOO, MI	BLANK0000027731	138.1
	WHIO-TV	D33	DT	CP	DAYTON, OH	BLANK0000025295	171.5
	WCIA	D34	DT	CP	CHAMPAIGN, IL	BLANK0000028445	296.9
	WCPX-TV	D34	DT	CP	CHICAGO, IL	BLANK0000026971	221.6
	WKMJ-TV	D34	DT	CP	LOUISVILLE, KY	BLANK0000034636	309.0
	WKBD-TV	D34	DT	CP	DETROIT, MI	BLANK0000034396	218.3
	WKEF	D34	DT	CP	DAYTON, OH	BLANK0000034522	172.2
	WQRS-TV	D34	DT	CP	MAYVILLE, WI	BLANK0000026658	377.9
	WOLP-CD	D35	DC	CP	GRAND RAPIDS, MI	BLANK0000027729	178.2
	WPTD	D35	DT	CP	DAYTON, OH	BLANK0000026763	172.7

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	20457.7	1,090,197	20454.6	1,090,079	20114.8	1,066,740	20112.8	1,066,285	0.01 0.04

Undesired			Total IX		Unique IX, before		Unique IX, after	
WBND35P3 D35 LD APP	13.1		1,261				2.0	455
WCIA D34 DT CP	6.0		318	0.0	0		0.0	0
WCPX-TV D34 DT CP	4.0		168	0.0	0		0.0	0
WKBD-TV D34 DT CP	9.0		92	1.0	0		1.0	0
WKEF D34 DT CP	338.8		23,339	325.8	22,818		317.8	22,168

Interference to BLANK0000025108 CP scenario 5

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WGBO-DT	D35	DT	CP	JOLIET, IL	BLANK0000025108	
Undesireds:	WBND35P3	D35	LD	APP	SOUTH BEND, IN	wbnd35p3	123.3 km
	WCPX-TV	D34	DT	CP	CHICAGO, IL	BLANK0000026971	2.5
	WQRS-TV	D34	DT	CP	MAYVILLE, WI	BLANK0000026658	186.2
	KRIN	D35	DT	LIC	WATERLOO, IA	BLEDT20050218ABQ	352.3
	WTVP	D35	DT	CP	PEORIA, IL	BLANK0000028050	215.4
	WTWO	D35	DT	CP	TERRE HAUTE, IN	BLANK0000028193	295.9
	WOLP-CD	D35	DC	CP	GRAND RAPIDS, MI	BLANK0000027729	194.6
	WPBN-TV	D35	DT	CP	TRAVERSE CITY, MI	BLANK0000034373	378.0
	WPTD	D35	DT	CP	DAYTON, OH	BLANK0000026763	372.9
	WQRF-TV	D36	DT	CP	ROCKFORD, IL	BLANK0000027710	134.8
	WCCU	D36	DT	CP	URBANA, IL	BLANK0000027777	178.0
	WHME-TV	D36	DT	CP	SOUTH BEND, IN	BLANK0000025171	125.9
	WMKE-CD	D36	DC	APP	MILWAUKEE, WI	BLANK0000034620	135.1

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	28202.4	9,789,377	28179.2	9,787,451	27823.7	9,758,317	26625.5	9,730,103	4.31 0.29

Undesired			Total IX		Unique IX, before		Unique IX, after	
WBND35P3 D35 LD APP	1303.7		44,987				1198.2	28,214
WCPX-TV D34 DT CP	72.3		7,861	68.3	6,666		2.0	875
KRIN D35 DT LIC	9.1		2,749	0.0	0		0.0	0
WTVP D35 DT CP	51.2		6,866	27.1	3,644		26.1	3,644
WTWO D35 DT CP	6.0		20	4.0	20		4.0	20
WQRF-TV D36 DT CP	230.9		10,657	208.8	7,435		206.8	7,410
WHME-TV D36 DT CP	23.1		8,147	19.1	6,952		0.0	0

Interference to BLANK0000034007 APP scenario 5

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WGBO-DT	D35	DT	APP	JOLIET, IL	BLANK0000034007	
Undesireds:	WBND35P3	D35	LD	APP	SOUTH BEND, IN	wbnd35p3	123.3 km
	WCPX-TV	D34	DT	CP	CHICAGO, IL	BLANK0000026971	2.5
	WQRS-TV	D34	DT	CP	MAYVILLE, WI	BLANK0000026658	186.2
	KRIN	D35	DT	LIC	WATERLOO, IA	BLEDT20050218ABQ	352.3
	WTVP	D35	DT	CP	PEORIA, IL	BLANK0000028050	215.4
	WTWO	D35	DT	CP	TERRE HAUTE, IN	BLANK0000028193	295.9
	WOLP-CD	D35	DC	CP	GRAND RAPIDS, MI	BLANK0000027729	194.6
	WPBN-TV	D35	DT	CP	TRAVERSE CITY, MI	BLANK0000034373	378.0
	WPTD	D35	DT	CP	DAYTON, OH	BLANK0000026763	372.9
	WQRF-TV	D36	DT	CP	ROCKFORD, IL	BLANK0000027710	134.8
	WCCU	D36	DT	CP	URBANA, IL	BLANK0000027777	178.0
	WHME-TV	D36	DT	CP	SOUTH BEND, IN	BLANK0000025171	125.9
	WMKE-CD	D36	DC	APP	MILWAUKEE, WI	BLANK0000034620	135.1

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	29874.7	9,844,365	29844.4	9,841,830	29445.0	9,809,731	28134.7	9,770,532	4.45 0.40

Undesired			Total IX		Unique IX, before		Unique IX, after	
WBND35P3 D35 LD APP	1447.9		62,802				1310.3	39,199
WCPX-TV D34 DT CP	44.2		7,024	42.2	6,990		1.0	364

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KRIN D35 DT LIC	12.1	2,272	1.0	0	0.0	0
WTVP D35 DT CP	59.2	3,990	27.1	708	26.1	708
WTWO D35 DT CP	10.9	52	3.0	21	2.0	0
WQRF-TV D36 DT CP	243.8	10,239	219.7	6,988	216.8	6,963
WHME-TV D36 DT CP	74.3	14,110	72.3	14,076	0.0	0

Interference to BLANK0000027729 CP scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WOLP-CD	D35	DC	CP	GRAND RAPIDS, MI	BLANK0000027729	
Undesireds:	WBND35P3	D35	LD	APP	SOUTH BEND, IN	wbnd35p3	131.5 km
	WGBO-DT	D35	DT	CP	JOLIET, IL	BLANK0000025108	194.6
	WPBN-TV	D35	DT	BL	TRAVERSE CITY, MI	DTVBL21253	231.8
	WVIZ	D35	DT	CP	CLEVELAND, OH	BLANK0000034584	346.9
	WPTD	D35	DT	CP	DAYTON, OH	BLANK0000026763	346.1
	WHME-TV	D36	DT	APP	SOUTH BEND, IN	BLANK0000034238	132.7
	WAQP	D36	DT	CP	SAGINAW, MI	BLANK0000034899	132.5
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
7046.4	995,946	7026.3	993,481	7019.3	992,120	6996.1 990,272	0.33 0.19
Undesired				Total IX	Unique IX, before	Unique IX, after	
WBND35P3 D35 LD APP	24.2			1,848		23.2 1,848	
WPBN-TV D35 DT BL	7.0			1,361	7.0 1,361	6.0 1,361	
