INTERFERENCE ANALYSIS FOR LICENSED WCWW-LD, SOUTH BEND, IN, CHANNEL 25, WITH RESPECT TO WTTW

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: wcww25l1, Model: Longley-Rice

Study build station data: LMS TV 2018-03-19 #154

    Proposal: WCWW25L1 D25 LD LIC SOUTH BEND, IN
 File number: wcww25l1
 Facility ID: 24617
Station data: User record
   Record ID: 2443
     Country: U.S.

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WRJK-LP	D24	LD	CP	ARLINGTON HEIGHTS, IL	BMPDTL20140211ACV	123.8 km
Yes	WFLD	D24	DT	CP	CHICAGO, IL	BLANK0000034486	123.8
Yes	WPTA	D24	DT	APP	FORT WAYNE, IN	BLANK0000035732	101.1
Yes	WPTA	D24	DT	LIC	FORT WAYNE, IN	BLCDT20031031AGU	101.1
No	WPXD-TV	D24	DT	CP	ANN ARBOR, MI	BLANK0000027025	256.0
No	WPXD-TV	D24	DT	APP	ANN ARBOR, MI	BLANK0000034355	256.0
No	WTLJ	D24	DT	LIC	MUSKEGON, MI	BLANK0000001674	150.9
No	KWKB	D25	DT	LIC	IOWA CITY, IA	BLCDT20070130AJQ	429.2
Yes	W25DW-D	D25	LD	LIC	ARBURY HILLS, IL	BLDTL20110224ACQ	122.8
Yes	WTTW	D25	DT	CP	CHICAGO, IL	BLANK0000034877	123.8
No	W25EW-D	D25	LD	CP	JACKSONVILLE, IL	BLANK0000013744	356.1
No	WEEK-TV	D25	DT	LIC	PEORIA, IL	BLCDT20090413AER	302.1
No	WMKB-LP	N25z	TX	LIC	ROCHELLE, IL	BLTTL20070813AFM	253.6
Yes	WRTV	D25	DT	LIC	INDIANAPOLIS, IN	BLCDT20090623ACJ	190.8
No	WUPX-TV	D25	DT	CP	MOREHEAD, KY	BLANK0000034400	466.2
No	WXYZ-TV	D25	DT	CP	DETROIT, MI	BLANK0000034678	260.2
Yes	WOGC-CD	D25	DC	LIC	HOLLAND, MI	BLDTA20120316ADA	134.8
No	KSET-LD	D25	LD	LIC	MIDLAND, MI	BLANK0000013388	278.7
No	KSET-LD	D25	LD	CP	MIDLAND, MI	BLANK0000036625	276.1
No	WUEK-LD	D25	LD	CP	Cleveland, OH	BLANK0000007841	374.7
No	WUEK-LD	D25	LD	LIC	Cleveland, OH	BLANK0000007812	377.4
No	WCPX-LP	D25	LD	CP	COLUMBUS, OH	BDISDTL20080905AEC	320.0
No	WXCB-CD	D25	DC	CP	DELAWARE, OH	BLANK0000034022	279.0
No	WPNE-TV	D25	DT	CP	GREEN BAY, WI	BLANK0000031831	343.9
No	WPVN-CD	D26	DC	CP	CHICAGO, IL	BLANK0000031140	123.3
No	WBBM-TV	D26	LD	LIC	CHICAGO, IL	BLCDT20140305ABH	134.7
No	W26DH-D	D26	LD	LIC	AUBURN, IN	BLDTL20091005ABQ	99.4
No	WJGP-LD	D26	LD	LIC	KALAMAZOO, MI	BLDTL20091210ADC	90.3
No	WCMU-TV	D26	DT	LIC	MOUNT PLEASANT, MI	BLEDT20130710ABN	250.4
No	WDFM-LP	N26-	TX	LIC	DEFIANCE, OH	BLTTL20031007AAN	141.9
No	WUPW	D26	DT	CP	TOLEDO, OH	BLANK0000034234	227.7

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: D25
       Mask: Full Service
   Latitude: 41 36 54.90 N (NAD83)
  Longitude: 86 11 6.60 W
Height AMSL: 587.0 m
       HAAT: 0.0 m
   Peak ERP: 14.9 kW
    Antenna: Omnidirectional
Elev Pattrn: DIE-TLP-12B
  Elec Tilt: 1.00

49.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	14.9 kW	353.7 m	59.6 km
45.0	14.9	359.3	59.9
90.0	14.9	339.4	58.9
135.0	14.9	331.5	58.5

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180.0	14.9	334.5	58.6
225.0	14.9	327.3	58.3
270.0	14.9	347.0	59.3
315.0	14.9	359.4	59.9

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 344 m

Proposal 24.85 dBu contour does not cross Canadian border
Distance to Canadian border: 255.8 km

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 BLANK0000034877 CP scenario 1
**IX: 0.56% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WTTW	D25	DT	CP	CHICAGO, IL	BLANK0000034877	
Undesireds:	WCWW25L1	D25	LD	LIC	SOUTH BEND, IN	wcww25l1	123.8 km
	WFLD	D24	DT	CP	CHICAGO, IL	BLANK0000034486	0.0
	KWKB	D25	DT	LIC	IOWA CITY, IA	BLCDT20070130AJQ	308.4
	WEEK-TV	D25	DT	LIC	PEORIA, IL	BLCDT20090413AER	211.7
	WRTV	D25	DT	LIC	INDIANAPOLIS, IN	BLCDT20090623ACJ	250.9
	WXYZ-TV	D25	DT	CP	DETROIT, MI	BLANK0000034678	367.2
	WPNE-TV	D25	DT	CP	GREEN BAY, WI	BLANK0000031831	282.8
	WPVN-CD	D26	DC	CP	CHICAGO, IL	BLANK0000031140	1.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
27002.6	9,775,930	26998.5	9,775,687	26522.7	9,755,964	24883.2	9,701,471	6.18	0.56

Undesired	Total IX		Unique IX, before		Unique IX, after	
WCWW25L1 D25 LD LIC	1972.3	64,656			1639.5	54,493
KWKB D25 DT LIC	123.8	11,864	68.8	5,009	65.8	4,960
WEEK-TV D25 DT LIC	88.2	7,846	34.2	1,085	34.2	1,085
WRTV D25 DT LIC	311.8	6,657	307.8	6,653	7.0	28
WPNE-TV D25 DT CP	22.1	1,091	9.1	121	7.1	118
