

Percent allowed new interference: 0.500
 Percent allowed new interference to non Class A LPTV: 2.000
 TW Census data selected 2000
 Data Base Selected
 /space/software/cdb/pt_tvdb.sff
 TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 07-16-2010 Time: 14:38:44

Record Selected for Analysis

WCHU-LD USERRECORD-01 CHICAGO IL US
 Channel 33 ERP 15. kW HAAT 374. m RCMSL 00554 m FULL SERVICE MASK
 Latitude 041-53-56 Longitude 0087-37-23
 Status APP Zone 1 Border Site number: 01
 Dir Antenna Make CDB Model 00000000020061 Beam tilt N Ref Azimuth 150.
 Last update Cutoff date Docket
 Comments
 Applicant

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Not full service station
 Service Class = LD
 Maximum height/power limits not checked

Site number 1			
Azimuth	ERP	HAAT	51.0 dBu F(50,90)
(Deg)	(kW)	(m)	(km)
0.0	0.002	378.0	11.1
45.0	0.002	378.0	11.1
90.0	0.713	378.0	42.2
135.0	12.682	378.0	58.4
180.0	8.573	373.7	56.1
225.0	11.354	372.9	57.6
270.0	7.972	367.7	55.5
315.0	0.050	368.4	26.4

Contour Overlap to Proposed Station

Station
 WEDE-CA 34 ARLINGTON HEIGHTS IL BSTA20040603ACT
 Station inside contour of Digital LPTV station
 WCHU-LD 33 CHICAGO IL USERRECORD01

Station
WEDE-CA 34 ARLINGTON HEIGHTS IL BLTTA20050308AAS

Station inside contour of Digital LPTV station
WCHU-LD 33 CHICAGO IL USERRECORD01

Contour Overlap Evaluation to Proposed Station Complete

SPACING VIOLATION FOUND BETWEEN STATION

WCHU-LD 33 CHICAGO IL USERRECORD01 Site # 01

and station

SHORT TO: WHNW-LP 18 GARY IN BLTTL 19920330IQ
041-36-10 0087-20-15
Req. separation => 24.1 <= 80.5 Actual separation 40.6 Short 39.9(16.5) km

SHORT TO: WHNW-LP 18 GARY IN BSTA 20070309ACD
041-36-10 0087-20-15
Req. separation => 24.1 <= 80.5 Actual separation 40.6 Short 39.9(16.5) km

SHORT TO: WHNW-LP 18 GARY IN BDFCDTL 20060331AGD
041-36-10 0087-20-15
Req. separation => 24.1 <= 80.5 Actual separation 40.6 Short 39.9(16.5) km

SHORT TO: WFBN-LP 33 ROCKFORD IL BLTTL 19890616II
042-16- 2 0089-04-12
Req. separation 217.3 Actual separation 126.5 Short 90.8 km

SHORT TO: NEW 33 WOLCOTT IN BNPDTL 20100112AEA
040-45-56 0087-03- 5
Req. separation 217.3 Actual separation 134.7 Short 82.6 km

SHORT TO: WOHO-CA 33 HOLLAND MI BLTTL 20001026AAA
042-48-59 0085-57-20
Req. separation 217.3 Actual separation 171.1 Short 46.2 km

SHORT TO: WITI 33 MILWAUKEE WI BMPCDT 20081204ADM
043-05-26 0087-53-50
Req. separation 196.3 Actual separation 134.3 Short 62.0 km

SHORT TO: W40CN 40 SUGAR GROVE IL BPTTL 20070301ABR
041-47-46 0088-27-30
Req. separation => 24.1 <= 80.5 Actual separation 70.3 Short 10.2(46.2) km

SHORT TO: W40CN 40 SUGAR GROVE IL BPTTL 20041202ACN
 041-47-46 0088-27-30
 Req. separation => 24.1 <= 80.5 Actual separation 70.3 Short 10.2(46.2) km

SHORT TO: WHCH-LD 40 CHESTERTON IN BLDTL 20070822AAF
 041-31-22 0087-01-28
 Req. separation => 24.1 <= 80.5 Actual separation 65.0 Short 15.5(40.9) km

LANDMOBILE SPACING VIOLATIONS FOUND

NONE from Site # 01

Checks to Site Number 01

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is within the Canadian coordination distance
 Distance to border = 368.4km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Proposed Station			
Channel	Call	City/State	ARN
33	WCHU-LD	CHICAGO IL	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
18	W18CF	ELKHART IN	138.6	LIC	BLTT	-20001011AEF
18	WHNW-LP	GARY IN	40.5	LIC	BLTTL	-19920330IQ
18	WHNW-LP	GARY IN	40.5	APP	BSTA	-20070309ACD
25	W25DW	ARBURY HILLS IL	1.5	LIC	BLTTL	-20080609ABO
25	WMKB-LP	ROCHELLE IL	131.1	APP	BSTA	-20070627ABX
25	WMKB-LP	ROCHELLE IL	131.1	LIC	BLTTL	-20070813AFM
25	W25CL	ROCKFORD IL	126.2	LIC	BLTT	-20020307ABP
25	WCWW-LP	SOUTH BEND IN	123.3	LIC	BLTTL	-20021010AAP
29	WPVS-LP	SHEBOYGAN WI	135.1	CP	BPTTL	-20080311ABX
30	WSPY-LP	PLANO IL	83.1	LIC	BLTTL	-19900514IR
32	WLS-TV	CHICAGO IL	2.5	APP	BDRTCDT	-20090630AFT
32	WMEU-LD	CHICAGO IL	2.5	APP	BSTA	-20100429AAJ

32	WMEU-LD	CHICAGO IL	2.5	CP	BDISDTL	-20090608AAC
32	WOKZ-LD	KALAMAZOO MI	169.3	CP	BDCCDTL	-20061020ACV
32	WBUW	JANESVILLE WI	199.3	LIC	BLCDT	-20040930BHL
33	W50DD	PEORIA IL	220.5	CP	BDISDTT	-20060328ABW
33	WFBN-LP	ROCKFORD IL	126.2	LIC	BLTTTL	-19890616III
33	W33AY	SPRINGFIELD IL	288.4	LIC	BLTTTL	-19910927JM
33	W33AY	SPRINGFIELD IL	288.4	CP	BDFCDTL	-20091204ADY
33	NEW	FORT WAYNE IN	234.3	APP	BNPDTL	-20091228AAX
33	WHFE-LP	SULLIVAN IN	285.1	CP	BDCCDTL	-20061027ABH
33	NEW	WOLCOTT IN	134.7	APP	BNPDTL	-20100112AEA
33	W33BY	DETROIT MI	364.9	LIC	BLTTA	-20020301ABU
33	WOHO-CA	HOLLAND MI	170.8	LIC	BLTTTL	-20001026AAA
33	NEW	HOUGHTON LAKE MI	353.4	APP	BNPDTL	-20100223AAM
33	WSTR-TV	CINCINNATI OH	398.1	CP MOD	BMPCDT	-20080620AHH
33	W55CH	LIMA OH	318.0	APP	BPTTL	-20020211ABA
33	NEW	LA CROSSE WI	388.0	APP	BNPDTL	-20100201AEU
33	WITI	MILWAUKEE WI	134.3	CP MOD	BMPCDT	-20081204ADM
34	WEDE-CA	ARLINGTON HEIGHTS IL	2.5	STA	BSTA	-20040603ACT
34	WEDE-CA	ARLINGTON HEIGHTS IL	2.5	LIC	BLTTA	-20050308AAS
34	WEDE-CA	ARLINGTON HEIGHTS IL	2.5	CP	BDFCDTA	-20081014AAM
34	W34DL	CHAMPAIGN IL	198.4	LIC	BLTT	-20050921AHY
34	NEW	LEE IL	131.1	APP	BNPDTL	-20100524AFR
34	NEW	TOWANDA IL	177.8	APP	BNPDTL	-20100510AGS
34	W57CQ	LAFAYETTE IN	179.3	APP	BPTTL	-20020814ABB
34	WMYS-LP	SOUTH BEND IN	123.3	CP	BDISTTL	-20080728AAX
34	WISN-TV	MILWAUKEE WI	137.1	CP	BPCDT	-20100514AEB
34	WISN-TV	MILWAUKEE WI	137.1	LIC	BLCDT	-20050412ADP
40	WESV-LP	PALATINE IL	2.5	LIC	BLTT	-20060419ACR
40	W40CN	SUGAR GROVE IL	70.1	CP	BPTTL	-20041202ACN
41	WOCH-CA	CHICAGO IL	0.0	LIC	BLTTA	-20060103ACT
41	WOCH-CA	CHICAGO IL	0.0	APP	BPTTA	-20050127ALO
41	WMLW-CA	MILWAUKEE WI	137.1	LIC	BLTTA	-20021002AAA
41	WMLW-CA	MILWAUKEE WI	137.1	STA	BSTA	-20000714AAU

Analysis of Interference to Affected Station 32

Channel	Call	City/State	Application	Ref. No.
34	WEDE-CA	ARLINGTON HEIGHTS IL	BDFCDTA	-20081014AAM

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
34	KQIN	DAVENPORT IA	236.6	CP	BPEDT	-20080620AIO
34	KQIN	DAVENPORT IA	236.6	LIC	BLEDT	-20080620AFY
34	W34DL	CHAMPAIGN IL	196.0	LIC	BLTT	-20050921AHY
34	NEW	LEE IL	130.2	APP	BNPDTL	-20100524AFR
34	WQEC	QUINCY IL	373.8	LIC	BLEDT	-20040715ADL
34	NEW	TOWANDA IL	175.4	APP	BNPDTL	-20100510AGS
34	WIPX-LP	INDIANAPOLIS IN	251.2	CP	BDISTTL	-20071206ACU
34	W57CQ	LAFAYETTE IN	177.6	APP	BPTTL	-20020814ABB
34	WMYS-LP	SOUTH BEND IN	123.8	CP	BDISTTL	-20080728AAX
34	WHTV	JACKSON MI	282.7	LIC	BLCDT	-20071116ABN

34	WHTV	JACKSON MI	282.7	APP	BPCDT	-20080620AGY
34	W58CO	MADISON WI	218.7	APP	BPTTL	-20020307ABS
34	WISN-TV	MILWAUKEE WI	139.1	CP	BPCDT	-20100514AEB
34	WISN-TV	MILWAUKEE WI	139.1	LIC	BLCDT	-20050412ADP
35	WNIT	SOUTH BEND IN	123.6	CP	BPEDT	-20081103ACU
35	WNIT	SOUTH BEND IN	123.6	LIC	BLEDT	-20040106ABJ
33	WCHU-LD	CHICAGO IL	2.5	APP	USERRECORD-01	

Proposal causes no interference

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