

OET-69 Interference Analysis from Authorized WMEU-LD to WCHU-LP, Chicago, IL
(FCC File No. BDISDTL-20100720ABQ) (WMEU-LD, Chicago, IL, Ch. 32)

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
/export/home/cdbs/pt_tvdb.sff
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 03-02-2011

Record Selected for Analysis

WMEU-LD BDISDTL -20090608AAC CHICAGO IL US
Channel 32 ERP 15. kW HAAT 447 m RCAMSL 00623 m STRINGENT MASK
Latitude 041-52-44 Longitude 0087-38-10
Status CP Zone Border C Site number: 01
Dir Antenna Make CDB Model 00000000093342 Beam tilt N Ref Azimuth 195.0
Last update 00000000 Cutoff date 20090630 Docket
Comments
Applicant WEIGEL BROADCASTING CO.

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	0.630	445.6	43.3
45.0	0.565	447.0	42.7
90.0	6.211	447.0	57.3
135.0	14.791	447.0	62.6
180.0	12.408	442.3	61.3
225.0	13.310	440.5	61.7
270.0	12.218	437.4	61.0
315.0	3.705	438.5	53.8

Database HAAT does not agree with computed HAAT
Database HAAT: 447 Computed HAAT: 443

Contour Overlap to Proposed Station

Contour Overlap Evaluation to Proposed Station Complete

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 = 369.7km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

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Start of Interference Analysis

Channel	Proposed Station	Call	City/State	ARN
32	WMEU-LD	CHICAGO IL	BDISDTL	20090608AAC

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
18	WEID-LP	ELKHART IN	139.2	LIC	BLTT	-20001011AEF
18	WHNW-LD	GARY IN	39.4	APP	BSTA	-20070309ACD
24	WPVN-CA	AURORA IL	74.2	LIC	BLTTTL	-19990716JA
24	WPVN-CA	AURORA IL	74.2	CP	BPTTA	-20090817ABN
24	WHVI-LP	VALPARAISO IN	64.4	LIC	BLTTTL	-19921102JE
24	WMLW-CA	MILWAUKEE WI	139.1	CP	BDISTTA	-20081230ACP
25	W25DW	ARBURY HILLS IL	1.4	LIC	BLTTTL	-20080609ABO
25	WMKB-LP	ROCHELLE IL	130.2	LIC	BLTTTL	-20070813AFM
25	WMKB-LP	ROCHELLE IL	130.2	APP	BSTA	-20070627ABX
25	W25CL	ROCKFORD IL	125.9	LIC	BLTT	-20020307ABP
25	WCWW-LP	SOUTH BEND IN	123.8	LIC	BLTTTL	-20021010AAP
29	WPVS-LP	SHEBOYGAN WI	137.1	CP	BPTTL	-20080311ABX
30	WDCI-LP	ELGIN IL	1.4	APP	BSTA	-20110224AAW
30	WSPY-LP	PLANO IL	81.5	LIC	BLTTTL	-19900514IR
31	WFLD	CHICAGO IL	0.0	LIC	BLCDT	-20090223ABV
31	W31BX-D	DANVILLE IL	194.9	LIC	BLDTT	-20090304ABU
31	W31DP-D	LAFAYETTE IN	133.0	CP	BNPDTL	-20100125AHI
31	DW48BY	BEAVER DAM WI	194.4	APP	BPTTL	-20011119AAV
31	WBWT-LP	MILWAUKEE WI	137.1	CP	BDCCDTL	-20061025ADF
32	W29BG	DECATUR IL	256.7	CP	BDISDTT	-20060329ALT
32	WTJR	QUINCY IL	375.5	LIC	BLCDT	-20091110ADL
32	DW24BV	ROCK ISLAND IL	238.5	APP	BPTTL	-20020513AAU
32	WNDY-TV	MARION IN	239.3	LIC	BLCDT	-20021029AAG
32	WKMF-LP	SULLIVAN IN	307.2	LIC	BLTTTL	-20060905AAC
32	WFQX-DR	CADILLAC MI	312.6	APP	BPRM	-20080620AOP
32	WFQX-TV	CADILLAC MI	312.6	LIC	BLCDT	-20091217ACU
32	WOKZ-LD	KALAMAZOO MI	171.0	CP	BDCCDTL	-20061020ACV
32	WBWM-LP	MOUNT PLEASANT MI	300.2	LIC	BLTTTL	-20001220ABG
32	WWRD-LP	CENTERVILLE OH	386.2	APP	BSTA	-20071115ABH
32	WWRD-LP	DAYTON OH	386.2	LIC	BLTTTL	-20071011AAP
32	W32DS-D	MAPLEWOOD OH	299.5	LIC	BLDTT	-20110104ABK
32	W59DC	TOLEDO OH	339.8	APP	BPTTL	-20020212AAH
32	WBUW	JANESVILLE WI	200.0	LIC	BLCDT	-20040930BHL
32	W32DW-D	LA CROSSE WI	381.5	CP	BNPDTL	-20090825CAP
33	WCHU-LP	CHICAGO IL	2.5	CP	BDISDTL	-20100720ABQ
33	WFBN-LP	ROCKFORD IL	125.9	LIC	BLTTTL	-19890616II
33	W33DE-D	WOLCOTT IN	133.0	CP	BNPDTL	-20100112AEA
33	WOHO-CA	HOLLAND MI	173.0	LIC	BLTTTL	-20001026AAA
33	WITI	MILWAUKEE WI	136.4	LIC	BLCDT	-20091106AEL
34	WEDE-CA	ARLINGTON HEIGHTS IL	0.0	LIC	BLTTA	-20050308AAS
34	WEDE-CA	ARLINGTON HEIGHTS IL	0.0	STA	BSTA	-20040603ACT
34	WMYS-LP	SOUTH BEND IN	123.8	CP	BDISTTL	-20080728AAX

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Analysis of Interference to Affected Station 35

Channel	Call	City/State	Application Ref. No.
33	WCHU-LP	CHICAGO IL	BDISDTL -20100720ABQ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
32	WMEU-LD	CHICAGO IL	2.5	CP	BDISDTL	-20090608AAC
33	W50DD	PEORIA IL	220.5	CP	BDISDTT	-20060328ABW
33	WFBN-LP	ROCKFORD IL	126.2	LIC	BLTTTL	-19890616II

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33	W33DE-D	WOLCOTT IN	134.7	CP	BNPDTL	-20100112AEA
33	WOHO-CA	HOLLAND MI	170.8	LIC	BLTTL	-20001026AAA
33	WITI	MILWAUKEE WI	134.3	LIC	BLCDT	-20091106AEL
34	WEDE-CA	ARLINGTON HEIGHTS IL	2.5	LIC	BLTTA	-20050308AAS
34	WEDE-CA	ARLINGTON HEIGHTS IL	2.5	STA	BSTA	-20040603ACT
34	WEDE-CA	ARLINGTON HEIGHTS IL	2.5	CP	BDFCDTA	-20081014AAM

Total scenarios = 1

Result key: 10
 Scenario 1 Affected station 35
 Before Analysis

Results for: 33A IL CHICAGO BDISDTL 20100720ABQ CP

HAAT 378.0 m, ATV ERP 15.0 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	6574106	6300.4
not affected by terrain losses	6574106	6300.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	352039	176.2
lost to ATV IX only	352039	176.2
lost to all IX	352039	176.2

Potential Interfering Stations Included in above Scenario 1

33A WI MILWAUKEE	BLCDT	20091106AEL	LIC
34A IL ARLINGTON HEIGHTS	BDFCDTA	20081014AAM	CP

After Analysis

Results for: 33A IL CHICAGO BDISDTL 20100720ABQ CP

HAAT 378.0 m, ATV ERP 15.0 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	6574106	6300.4
not affected by terrain losses	6574106	6300.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	652375	414.0
lost to ATV IX only	652375	414.0
lost to all IX	652375	414.0

Potential Interfering Stations Included in above Scenario 1

33A WI MILWAUKEE	BLCDT	20091106AEL	LIC
34A IL ARLINGTON HEIGHTS	BDFCDTA	20081014AAM	CP
32A IL CHICAGO	BDISDTL	20090608AAC	CP

The following station failed the de minimis interference criteria.

32D IL CHICAGO BDISDTL 20090608AAC
 ERP 15.00 kW HAAT 447.0 m RCMSL 623.0 m
 Antenna CDB 0000000093342

Due to interference to the following station and scenario: 1

33D IL CHICAGO BDISDTL 20100720ABQ
 ERP 15.00 kW HAAT 378.0 m RCMSL 554.0 m
 Antenna CDB 00000000101132

Percent new interference from proposal: 4.8269 to BDISDTL 20100720ABQ

Worst case new IX 4.8269% Scenario 1

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