

# OET-69 Interference Analysis to WPXE-TV, WWME-LD (Ch. 39, 15 kW) (worst-case scenarios)

Census data selected: 2000

Post DTV Transition Database Selected

## TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 10-20-2009

Record Selected for Analysis

WWMELD USERRECORD-01 CHICAGO IL US  
Channel 39 ERP 15. kW HAAT 443. m RCAMSL 00623 m **FULL SERVICE MASK**  
Latitude 041-52-44 Longitude 0087-38-10  
Status APP Zone 1 Border  
Dir Antenna Make CDB Model 00000000089107 Beam tilt N Ref Azimuth 260.  
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

Facility meets maximum power limit

Azimuth (Deg)	ERP (kW)	HAAT (m)	51.0 dBu F(50,90) (km)
0.0	7.018	445.6	58.0
45.0	0.853	447.0	45.2
90.0	0.773	447.0	44.6
135.0	3.004	447.0	52.8
180.0	11.432	442.3	60.8
225.0	13.824	440.5	61.9
270.0	12.367	437.4	61.1
315.0	14.702	438.5	62.2

Contour Overlap to Proposed Station

Station  
W40BY 40 PALATINE IL BLTT20060419ACR

Station inside contour of Digital LPTV station  
WWMELD 39 CHICAGO IL USERRECORD01

Contour Overlap Evaluation to Proposed Station Complete

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

Proposed Station

# OET-69 Interference Analysis to WPXE-TV, WWME-LD (Ch. 39, 15 kW) (worst-case scenarios)

Channel 39 Call WMMELD City/State CHICAGO IL ARN USERRECORD01

## Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
24	WPVN-CA	AURORA IL	74.2	CP	BPTTA	-20090817ABN
24	WPVN-CA	AURORA IL	74.2	LIC	BLTTL	-19990716JA
24	WHVI-LP	VALPARAISO IN	64.4	LIC	BLTTL	-19921102JE
24	WMLW-CA	MILWAUKEE WI	139.1	CP	BDISTTA	-20081230ACP
25	W25DW	ARBURY HILLS IL	1.4	LIC	BLTTL	-20080609ABO
25	WMKB-LP	ROCHELLE IL	130.2	APP	BSTA	-20070627ABX
25	WMKB-LP	ROCHELLE IL	130.2	LIC	BLTTL	-20070813AFM
25	W25CL	ROCKFORD IL	125.9	LIC	BLTT	-20020307ABP
25	WCWW-LP	SOUTH BEND IN	123.8	LIC	BLTTL	-20021010AAP
38	WGBO-DT	JOLIET IL	2.5	CP MOD	BMPCDT	-20080618AEI
38	W25CL	ROCKFORD IL	125.9	CP	BDISDTT	-20060330ABA
38	WMKG-CA	MUSKEGON MI	195.0	LIC	BLTTL	-20040824AAW
38	W38CT	MADISON WI	199.6	LIC	BLTT	-20021203ACA
38	WBWT-LP	MILWAUKEE WI	137.1	LIC	BLTTL	-20070223AGI
39	W39BH	CHAMPAIGN IL	203.0	LIC	BLTTL	-19920420IM
39	NEW	CHANA IL	130.2	APP	BNPDTL	-20090825BOS
39	WAOE	PEORIA IL	211.7	CP	BPCDT	-20080620AFR
39	NEW	FORT WAYNE IN	234.4	APP	BNPDTL	-20090825BSA
39	NEW	MONTICELLO IN	143.4	APP	BNPDTL	-20090825ADJ
39	WKOI-TV	RICHMOND IN	364.8	LIC	BLCDT	-20050920ABV
39	WKOI-TV	RICHMOND IN	364.8	CP	BPCDT	-20080618ATM
39	WFXW	TERRE HAUTE IN	293.8	CP MOD	BMPCDT	-20070125ACT
39	WADL	MOUNT CLEMENS MI	398.0	LIC	BLCDT	-20020507AAO
39	NEW	TRAVERSE CITY MI	357.1	APP	BNPDTT	-20090825BUC
39	WOCB-CD	MARION OH	402.0	LIC	BLDTA	-20090505AAK
39	WOCB-CD	MARION OH	401.7	LIC	BLTTA	-20031212AAO
39	WFRV-TV	GREEN BAY WI	274.3	LIC	BLCDT	-20051004ABD
40	W40BY	PALATINE IL	0.0	LIC	BLTT	-20060419ACR
40	W40CN	SUGAR GROVE IL	68.7	CP	BPTTL	-20041202ACN
40	W40CN	SUGAR GROVE IL	68.7	CP	BPTTL	-20070301ABR
40	WHCH-LD	CHESTERTON IN	64.4	LIC	BLDTL	-20070822AAF
40	WPXE-TV	KENOSHA WI	137.0	LIC	BLCDT	-20040206AAT
41	WOCH-CA	CHICAGO IL	2.5	APP	BSTA	-20060109ACO
41	WOCH-CA	CHICAGO IL	2.5	LIC	BLTTA	-20060103ACT
41	WOCH-CA	CHICAGO IL	2.5	APP	BPTTA	-20050127ALO
41	WMLW-CA	MILWAUKEE WI	139.1	STA	BSTA	-20000714AAU
41	WMLW-CA	MILWAUKEE WI	139.1	LIC	BLTTA	-20021002AAA
42	W64CQ	ARLINGTON HEIGHTS IL	40.5	CP	BDISTT	-20070709ACL
42	W64CQ	ARLINGTON HEIGHTS IL	40.5	APP	BPTT	-20030723ACP
43	WAJN-LP	BROOKSTON IN	134.0	LIC	BLTTL	-20050422AEH
46	WBKM-LP	CHANA IL	130.2	LIC	BLTTL	-20050228ACV
47	WTAS-LP	WAUKESHA WI	129.3	LIC	BLTTL	-20071001ACM

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## Analysis of Interference to Affected Station 32

### Analysis of current record

Channel 40 Call WPXE-TV City/State KENOSHA WI Application Ref. No. BLCDT -20040206AAT

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
39	WFRV-TV	GREEN BAY WI	137.8	LIC	BLCDT	-20051004ABD
39	WFRV-TV	GREEN BAY WI	137.8	PLN	DTVPLN	-DTVP1418
40	WFWA	FORT WAYNE IN	314.8	APP	BPEDT	-20080617ADU
40	WFWA	FORT WAYNE IN	314.8	PLN	DTVPLN	-DTVP1431
40	WFWA	FORT WAYNE IN	314.8	LIC	BLEDT	-20041112ACP
40	WKAR-TV	EAST LANSING MI	287.6	CP MOD	BMPEDT	-20080620AIJ
40	WKAR-TV	EAST LANSING MI	287.5	PLN	DTVPLN	-DTVP1436
41	WIFR	FREEDPORT IL	136.3	PLN	DTVPLN	-DTVP1467
41	WIFR	FREEDPORT IL	136.3	CP MOD	BMPCDT	-20081110ADQ
41	WIFR	FREEDPORT IL	136.3	LIC	BLCDT	-20041012AIQ
41	WIFR-DR	FREEDPORT IL	136.3	APP	BPRM	-20080620AOH
41	WIFR	FREEDPORT IL	136.3	CP MOD	BMPCDT	-20050103AFQ
41	WGBA	GREEN BAY WI	140.5	PLN	DTVPLN	-DTVP1485

# OET-69 Interference Analysis to WPXE-TV, WWME-LD (Ch. 39, 15 kW) (worst-case scenarios)

41	WGBA-TV	GREEN BAY WI	140.5	CP MOD	BMPCDT	-20080207AAN
41	WGBA-TV	GREEN BAY WI	140.5	APP	BMPCDT	-20080620AEI
39	WWME-LD	CHICAGO IL	137.0	APP	USERRECORD-01	

Total scenarios = 30

Result key: 22  
 Scenario 22 Affected station 32 WPXE-TV  
 Before Analysis

Results for: 40A WI KENOSHA BLCDDT 20040206AAT LIC  
 HAAT 358.0 m, ATV ERP 830.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2970168	27275.9
not affected by terrain losses	2961002	27128.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	27216	645.9
lost to ATV IX only	27216	645.9
lost to all IX	27216	645.9

Potential Interfering Stations Included in above Scenario 22

39A WI GREEN BAY	BLCDDT	20051004ABD	LIC
41A IL FREEPORT	BPRM	20080620AOH	APP
41A WI GREEN BAY	BMPCDDT	20080620AEI	APP

After Analysis

Results for: 40A WI KENOSHA BLCDDT 20040206AAT LIC  
 HAAT 358.0 m, ATV ERP 830.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2970168	27275.9
not affected by terrain losses	2961002	27128.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	27591	646.9
lost to ATV IX only	27591	646.9
lost to all IX	27591	646.9

Potential Interfering Stations Included in above Scenario 22

39A WI GREEN BAY	BLCDDT	20051004ABD	LIC
41A IL FREEPORT	BPRM	20080620AOH	APP
41A WI GREEN BAY	BMPCDDT	20080620AEI	APP
39A IL CHICAGO	USERRECORD01		APP

Percent new IX = 0.0128%

Worst case new IX 0.0128% Scenario 22

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