

TV INTERFERENCE and SPACING ANALYSIS PROGRAM  
(Licensed WXFT-DT to WOCH-CA)

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

Date: 09-17-2012 Time: 11:02:35

Record Selected for Analysis

WXFT-DT BLCDT -20101116BHE AURORA IL US  
Channel 50 ERP 230. kW HAAT 00509 m RCAMSL 00689 m  
Latitude 041-52-44 Longitude 0087-38- 8  
Status LIC Zone 1 Border C Site number: 01  
Dir Antenna Make CDB Model 00000000087071 Beam tilt Y Ref Azimuth 0.0  
Last update 00000000 Cutoff date 00000000 Docket  
Comments  
Applicant TELEFUTURA CHICAGO LLC

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 0.50 km

Facility (site # 01) meets maximum height/power limits

Site number	1			
Azimuth	ERP	HAAT	41.0 dBu F(50,90)	
(Deg)	(kW)	(m)	(km)	
0.0	50.807	511.8	89.0	
45.0	8.303	513.0	76.0	
90.0	31.487	513.0	85.5	
135.0	216.407	513.0	101.1	
180.0	198.927	508.3	100.0	
225.0	201.072	506.5	99.9	
270.0	203.228	503.4	99.7	
315.0	218.644	504.6	100.5	

Evaluation toward Class A Stations from site # 01

Station inside contour of Class A station  
WMEU-LP 48 CHICAGO IL BSTA 20110404AGH

Class A Evaluation 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 = 369.6km

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	
50	WXFT-DT	AURORA IL	BLCDT	20101116BHE

## Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
48	WMEU-LP	CHICAGO IL	0.0	APP	BSTA	20110404AGH
49	WOCH-CA	CHICAGO IL	2.5	CP MOD	BMPDTA	20100409AAK
49	WMSN-TV	MADISON WI	203.4	LIC	BLCDT	20101223ABD
49	WMSN-DR	MADISON WI	203.4	APP	BPRM	20080620AOW
50	W50CH	ALTON IL	389.6	CP	BDFCDTA	20111020AER
50	W50CH	ALTON IL	389.6	LIC	BLTTL	20001220ACX
50	WEIU-TV	CHARLESTON IL	262.7	LIC	BLEDT	20060504AAW
50	WKGK-LP	KOKOMO IN	205.3	LIC	BLTTA	20041122AIH
50	WKGK-LP	KOKOMO IN	205.3	CP MOD	BMPDTA	20090723AFT
50	WPXD-TV	ANN ARBOR MI	362.3	CP	BPCDT	20090901AGQ
50	WPXD-DR	ANN ARBOR MI	362.3	APP	BPRM	20090408AQV
50	WOKZ-CD	KALAMAZOO MI	170.9	LIC	BLDTA	20120306AAW
50	WDTN	DAYTON OH	372.1	LIC	BLCDT	20050629AAL
50	WISC-TV	MADISON WI	203.4	LIC	BLCDT	20050701ABU
51	WPWR-TV	GARY IN	0.0	LIC	BLCDT	20050425ACE
51	WIWU-CD	MARION IN	217.6	LIC	BLDTA	20090611ABQ

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## Analysis of Interference to Affected Station 2

### Analysis of current record

Channel	Call	City/State	Application	Ref. No.
49	WOCH-CA	CHICAGO IL	BMPDTA	-20100409AAK

# Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
48	WMEU-LP	CHICAGO IL	2.5	APP	BSTA	-20110404AGH
48	WMEU-LP	CHICAGO IL	2.5	LIC	BLTTA	-20110919AFF
49	KLJB	DAVENPORT IA	238.2	LIC	BLCDT	-20050713ADL
49	WMYS-LD	SOUTH BEND IN	123.3	LIC	BLDTL	-20071012ATA
49	WAAA-LP	WESTVILLE IN	65.1	LIC	BLTTL	-20070621AAG
49	WAAA-LP	WESTVILLE IN	65.1	CP	BDFCDTL	-20110824BCX
49	W49DS-D	WOLCOTT IN	134.7	CP	BNPDTL	-20100112ADY
49	WMKG-LD	MUSKEGON MI	192.6	CP	BDCCDTL	-20061018ABV
49	WNWO-TV	TOLEDO OH	354.5	LIC	BLCDT	-20020403AAR
49	WNWO-TV	TOLEDO OH	354.5	CP	BPCDT	-20091224ABN
49	WMSN-TV	MADISON WI	202.7	LIC	BLCDT	-20101223ABD
49	WMSN-DR	MADISON WI	202.7	APP	BPRM	-20080620AOW
49	WYTU-LP	MILWAUKEE WI	137.1	CP	BDISTTL	-20080801AXK
50	WXFT-DT	AURORA IL	2.5	LIC	BLCDT	-20101116BHE
50	WXFT-TV	AURORA IL	2.5	PLN	DTVPLN	-DTVPI1772

Total scenarios = 1

Result key: 1  
Scenario 1 Affected station 2  
Before Analysis

Results for: 49A IL CHICAGO BMPDTA 20100409AAK CP  
HAAT 360.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	6577304	5381.5
not affected by terrain losses	6577304	5381.5
lost to NTSC IX	120735	148.4
lost to additional IX by ATV	365747	352.9
lost to ATV IX only	486482	501.3
lost to all IX	486482	501.3

Potential Interfering Stations Included in above Scenario 1

49N IN WESTVILLE	BLTTL	20070621AAG	LIC
49A IN WESTVILLE	BDFCDTL	20110824BCX	CP
50A IL AURORA	DTVPLN	DTVPI1772	PLN

After Analysis

Results for: 49A IL CHICAGO BMPDTA 20100409AAK CP  
HAAT 360.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	6577304	5381.5
not affected by terrain losses	6577304	5381.5
lost to NTSC IX	120735	148.4
lost to additional IX by ATV	484945	433.1
lost to ATV IX only	605680	581.5
lost to all IX	605680	581.5

Potential Interfering Stations Included in above Scenario 1

49N IN WESTVILLE	BLTTL	20070621AAG	LIC
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49A IN WESTVILLE BDFCDTL 20110824BCX CP  
50A IL AURORA BLCDT 20101116BHE LIC

The following station failed the de minimis interference criteria.

50D IL AURORA BLCDT 20101116BHE  
ERP 230.00 kW HAAT 509.0 m RCAMSL 689.0 m  
Antenna CDB 00000000087071

Due to interference to the following station and scenario: 1

49D IL CHICAGO BMPDTA 20100409AAK  
ERP 15.00 kW HAAT 360.0 m RCAMSL 536.0 m  
Antenna CDB 00000000098910

Percent new interference from proposal: 1.9570 to BMPDTA 20100409AAK

**Worst case new IX 1.9570% Scenario 1**

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