

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 03-09-2004 Time: 16:47:44

Record Selected for Analysis

W61DT USERRECORD-01 ROCHELLE IL US  
Channel 61 ERP 150. kW HAAT 156. m RCAMSL 00398 m  
Latitude 041-52-32 Longitude 0088-45-15  
Status APP Zone 1 Border Offset +  
Dir Antenna Make CDB Model 00000000017734 Beam tilt N Ref Azimuth 341.  
Last update Cutoff date Docket  
Comments  
Applicant

Cell Size for Service Analysis 2.0 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)	74.0 dBu F(50,50) (km)
0.0	22.815	136.5	21.5
45.0	74.342	129.2	27.3
90.0	99.878	136.2	29.6
135.0	7.129	156.2	17.0
180.0	6.000	149.9	15.7
225.0	69.360	127.1	26.8
270.0	106.597	123.2	28.9
315.0	22.118	126.6	20.6

Contour Overlap Evaluation from LPTV Station to Full Service TV & DTV

Station inside contour of station

WXFT-TV 60 AURORA IL BLCT 19870528KT

Contour overlap to station

WVTV 61 MILWAUKEE WI BMPCDT 20011002AAC

Contour Overlap Evaluation from LPTV to Full Service TV & DTV Complete

Contour Overlap Evaluation from LPTV Station to LPTV Stations

No Spacing violations or contour overlap from LPTV station

Contour Overlap Evaluation from LPTV to LPTV Stations Complete

Contour Overlap to Proposed Station

Contour Overlap Evaluation to Proposed Station Complete

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quite zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

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
61	W61DT	ROCHELLE IL	USERRECORD01

## Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
60	WXFT-TV	AURORA IL	92.5	LIC	BLCT	-19870528KT
61	WVTV	MILWAUKEE WI	152.4	CP MOD	BMPCDT	-20011002AAC

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## Analysis of Interference to Affected Station 1

### NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
60	WEHSTV	AURORA IL	DTVPLN	-NPLN1913

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
52	WLS-DT	CHICAGO IL	0.0	PLN	DTVPLN	-DTVP1507

53	WGBO-DT	JOLIET IL	2.5	PLN	DTVPLN	-DTVP1527
58	WSJV-DT	ELKHART IN	123.1	PLN	DTVPLN	-DTVP1624
58	WDJTTV	MILWAUKEE WI	139.1	PLN	DTVPLN	-NPLN1900
59	WEHS-DT	AURORA IL	0.0	PLN	DTVPLN	-DTVP1647
59	WAOE	PEORIA IL	200.7	PLN	DTVPLN	-NPLN1905
61	WVTV-DT	MILWAUKEE WI	137.1	PLN	DTVPLN	-DTVP1669
62	WJYS	HAMMOND IN	38.3	PLN	DTVPLN	-NPLN1934

Results for: 60N IL AURORA		DTVPLN	NPLN1913	PLN
		POPULATION	AREA (sq km)	
within Noise Limited Contour	8280963	24985.7		
not affected by terrain losses	8278510	24917.5		
lost to NTSC IX	0	0.0		
lost to additional IX by ATV	347	12.0		
lost to all IX	347	12.0		

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
60	WXFT-TV	AURORA IL	BLCT	-19870528KT

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
52	WLS-DT	CHICAGO IL	0.0	PLN	DTVPLN	-DTVP1507
53	WGBO-TV	JOLIET IL	2.5	CP	BPCDT	-19991029AHU
53	WGBO-DT	JOLIET IL	2.5	PLN	DTVPLN	-DTVP1527
58	WSJV-DT	ELKHART IN	123.1	PLN	DTVPLN	-DTVP1624
58	WSJV	ELKHART IN	123.1	CP	BPCDT	-19991101ADP
58	WDJT-TV	MILWAUKEE WI	139.1	LIC	BLCT	-19961211KF
59	WXFT-TV	AURORA IL	0.0	LIC	BLCDDT	-20020918AAT
59	WEHS-DT	AURORA IL	0.0	PLN	DTVPLN	-DTVP1647
59	WAOE	PEORIA IL	200.8	LIC	BLCT	-19990721KG
61	WVTV-DT	MILWAUKEE WI	137.1	PLN	DTVPLN	-DTVP1669
61	WVTV	MILWAUKEE WI	137.0	CP MOD	BMPCDDT	-20011002AAC
62	WJYS	HAMMOND IN	38.3	LIC	BLCT	-19910405KF
61	W61DT	ROCHELLE IL	92.5	APP	USERRECORD-01	

Total scenarios = 4

Result key: 1  
Scenario 1 Affected station 1  
Before Analysis

Results for: 60N IL AURORA	BLCT	19870528KT	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	8280963	24985.7	
not affected by terrain losses	8278510	24917.5	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	347	12.0	
lost to all IX	347	12.0	

Potential Interfering Stations Included in above Scenario 1

58A IN ELKHART	DTVPLN	DTVP1624	PLN
61A WI MILWAUKEE	DTVPLN	DTVP1669	PLN

After Analysis

Results for: 60N IL AURORA	BLCT	19870528KT	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	8280963	24985.7	
not affected by terrain losses	8278510	24917.5	
lost to NTSC IX	13804	277.0	
lost to additional IX by ATV	347	12.0	
lost to all IX	14151	289.0	

Potential Interfering Stations Included in above Scenario 1

58A IN ELKHART	DTVPLN	DTVP1624	PLN
61A WI MILWAUKEE	DTVPLN	DTVP1669	PLN
61N IL ROCHELLE	USERRECORD01		APP

Result key: 2  
Scenario 2 Affected station 1  
Before Analysis

Results for: 60N IL AURORA	BLCT	19870528KT	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	8280963	24985.7	
not affected by terrain losses	8278510	24917.5	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	487	16.1	
lost to all IX	487	16.1	

Potential Interfering Stations Included in above Scenario 2

58A IN ELKHART	DTVPLN	DTVP1624	PLN
61A WI MILWAUKEE	BMPCDT	20011002AAC	CP

After Analysis

Results for: 60N IL AURORA	BLCT	19870528KT	LIC
	POPULATION	AREA (sq km)	

within Noise Limited Contour	8280963	24985.7
not affected by terrain losses	8278510	24917.5
lost to NTSC IX	13804	277.0
lost to additional IX by ATV	487	16.1
lost to all IX	14291	293.0

Potential Interfering Stations Included in above Scenario 2

58A IN ELKHART	DTVPLN	DTVP1624	PLN
61A WI MILWAUKEE	BMPCDT	20011002AAC	CP
61N IL ROCHELLE	USERRECORD01		APP

Result key: 3  
Scenario 3 Affected station 1  
Before Analysis

Results for: 60N IL AURORA	BLCT	19870528KT	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	8280963	24985.7	
not affected by terrain losses	8278510	24917.5	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	603	24.1	
lost to all IX	603	24.1	

Potential Interfering Stations Included in above Scenario 3

58A IN ELKHART	BPCDT	19991101ADP	CP
61A WI MILWAUKEE	DTVPLN	DTVP1669	PLN

After Analysis

Results for: 60N IL AURORA	BLCT	19870528KT	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	8280963	24985.7	
not affected by terrain losses	8278510	24917.5	
lost to NTSC IX	13804	277.0	
lost to additional IX by ATV	603	24.1	
lost to all IX	14407	301.0	

Potential Interfering Stations Included in above Scenario 3

58A IN ELKHART	BPCDT	19991101ADP	CP
61A WI MILWAUKEE	DTVPLN	DTVP1669	PLN
61N IL ROCHELLE	USERRECORD01		APP

Result key: 4  
Scenario 4 Affected station 1  
Before Analysis

Results for: 60N IL AURORA	BLCT	19870528KT	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	8280963	24985.7	
not affected by terrain losses	8278510	24917.5	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	743	28.1	
lost to all IX	743	28.1	

Potential Interfering Stations Included in above Scenario 4

58A IN ELKHART	BPCDT	19991101ADP	CP
61A WI MILWAUKEE	BMPCDT	20011002AAC	CP

After Analysis

Results for: 60N IL AURORA	BLCT	19870528KT	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	8280963	24985.7	
not affected by terrain losses	8278510	24917.5	
lost to NTSC IX	13804	277.0	
lost to additional IX by ATV	743	28.1	
lost to all IX	14547	305.0	

Potential Interfering Stations Included in above Scenario 4

58A IN ELKHART	BPCDT	19991101ADP	CP
61A WI MILWAUKEE	BMPCDT	20011002AAC	CP
61N IL ROCHELLE	USERRECORD01		APP

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Analysis of Interference to Affected Station 2

DTV Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
61	WVTV-DT	MILWAUKEE WI	DTVPLN	-DTVP1669

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
60	WEHSTV	AURORA IL	137.1	PLN	DTVPLN	-NPLN1913
62	WJYS	HAMMOND IN	171.9	PLN	DTVPLN	-NPLN1934

Results for: 61A WI MILWAUKEE	DTVPLN	DTVP1669	PLN
HAAT 307.0 m, ATV ERP 520.0 kW			

	POPULATION	AREA (sq km)
within Noise Limited Contour	2254978	20235.0
not affected by terrain losses	2243322	20073.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	0	0.0

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
18	WVTV	MILWAUKEE WI	DTVPLN	-NPLN1037

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
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W61DT  
Facility ID 129745  
Exhibit 6, Attachment B

15	WMTV	MADISON WI	128.5	PLN	DTVPLN	-NPLN0942
16	WTVO-DT	ROCKFORD IL	137.1	PLN	DTVPLN	-DTVP0216
16	WTHXTV	MANITOWOC WI	116.5	PLN	DTVPLN	-NPLN0975
17	WTVO	ROCKFORD IL	137.1	PLN	DTVPLN	-NPLN0986
17	WYIN-DT	GARY IN	198.7	PLN	DTVPLN	-DTVP0259
17	WXMI	GRAND RAPIDS MI	198.5	PLN	DTVPLN	-NPLN0987
17	WCMW-DT	MANISTEE MI	166.2	PLN	DTVPLN	-DTVP0265
18	KLJBTV	DAVENPORT IA	283.6	PLN	DTVPLN	-NPLN1016
18	KYIN-DT	MASON CITY IA	400.2	PLN	DTVPLN	-DTVP0302
18	WAND-DT	DECATUR IL	357.9	PLN	DTVPLN	-DTVP0304
18	WLFITV	LAFAYETTE IN	319.5	PLN	DTVPLN	-NPLN1017
18	WHTV	JACKSON MI	302.0	PLN	DTVPLN	-NPLN1021
18	WUCM-DT	UNIVERSITY CENTER MI	321.4	PLN	DTVPLN	-DTVP0309
18	WQOWTV	EAU CLAIRE WI	365.1	PLN	DTVPLN	-NPLN1036
19	WGN-DT	CHICAGO IL	135.1	PLN	DTVPLN	-DTVP0350
19	WXMI-DT	GRAND RAPIDS MI	198.5	PLN	DTVPLN	-DTVP0358
19	WMTV-DT	MADISON WI	128.5	PLN	DTVPLN	-DTVP0379
19	WTHX-DT	MANITOWOC WI	116.5	PLN	DTVPLN	-DTVP0380
20	WYCC	CHICAGO IL	135.1	PLN	DTVPLN	-NPLN1078
20	WHA-DT	MADISON WI	132.4	PLN	DTVPLN	-DTVP0425
21	WYCC-DT	CHICAGO IL	135.1	PLN	DTVPLN	-DTVP0435
21	WHATV	MADISON WI	132.4	PLN	DTVPLN	-NPLN1131
22	WVCY-DT	MILWAUKEE WI	1.0	PLN	DTVPLN	-DTVP0510
25	WCGV-DT	MILWAUKEE WI	1.0	PLN	DTVPLN	-DTVP0625
26	WCIUTV	CHICAGO IL	137.1	PLN	DTVPLN	-NPLN1276
26	WGBA	GREEN BAY WI	140.4	PLN	DTVPLN	-NPLN1295
26	WKOW-DT	MADISON WI	132.4	PLN	DTVPLN	-DTVP0659
32	WFLD	CHICAGO IL	135.1	PLN	DTVPLN	-NPLN1429

32	WACY	APPLETON WI	140.4	PLN	DTVPLN	-NPLN1439
32	WJNW-DT	JANESVILLE WI	115.5	PLN	DTVPLN	-DTVP0889
33	WITI-DT	MILWAUKEE WI	1.0	PLN	DTVPLN	-DTVP0922

Results for: 18N WI MILWAUKEE                      DTVPLN      NPLN1037      PLN

	POPULATION	AREA (sq km)
within Noise Limited Contour	2254978	20235.0
not affected by terrain losses	2242240	20041.7
lost to NTSC IX	92521	849.7
lost to additional IX by ATV	213	4.0
lost to all IX	92734	853.7

Analysis of current record

Channel	Call	City/State	Application Ref. No.
61	WVTV	MILWAUKEE WI	BMPCDT -20011002AAC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
60	WXFT-TV	AURORA IL	137.0	LIC	BLCT -19870528KT
61	960723LC	BAY CITY MI	331.2	APP	BPCT -19960723LC
62	WJYS	HAMMOND IN	171.8	LIC	BLCT -19910405KF
61	W61DT	ROCHELLE IL	152.4	APP	USERRECORD-01

Total scenarios = 1

Result key: 5  
Scenario 1 Affected station 2  
Before Analysis

Results for: 61A WI MILWAUKEE                      BMPCDT      20011002AAC      CP

HAAT 302.0 m, ATV ERP 850.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2356520	23115.7
not affected by terrain losses	2346545	22966.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	0	0.0

Potential Interfering Stations Included in above Scenario 1

After Analysis

Results for: 61A WI MILWAUKEE                      BMPCDT      20011002AAC      CP

HAAT 302.0 m, ATV ERP 850.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2356520	23115.7



not affected by terrain losses	2346545	22966.7
lost to NTSC IX	544	12.1
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	544	12.1

Potential Interfering Stations Included in above Scenario 1

61N IL ROCHELLE USERRECORD01 APP

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application Ref. No.
61	W61DT	ROCHELLE IL	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
53	WGBO-TV	JOLIET IL	93.6	CP	BPCDT -19991029AHU
53	WGBO-DT	JOLIET IL	93.6	PLN	DTVPLN -DTVP1527
54	960920WE	KANKAKEE IL	108.6	APP	BPET -19960920WE
54	WREX-DT	ROCKFORD IL	61.7	PLN	DTVPLN -DTVP1546
59	WXFT-TV	AURORA IL	92.6	LIC	BLCDT -20020918AAT
59	WEHS-DT	AURORA IL	92.5	PLN	DTVPLN -DTVP1647
59	WAOE	PEORIA IL	141.8	LIC	BLCT -19990721KG
60	WXFT-TV	AURORA IL	92.5	LIC	BLCT -19870528KT
61	WVTV-DT	MILWAUKEE WI	152.5	PLN	DTVPLN -DTVP1669
61	WVTV	MILWAUKEE WI	152.4	CP MOD	BMPCDT -20011002AAC
62	WJYS	HAMMOND IN	88.0	LIC	BLCT -19910405KF

Total scenarios = 1

Result key: 6  
Scenario 1 Affected station 3  
Before Analysis

Results for: 61N IL ROCHELLE	USERRECORD01	APP
	POPULATION	AREA (sq km)
within Noise Limited Contour	72529	1452.9
not affected by terrain losses	72529	1452.9

lost to NTSC IX	3079	36.1
lost to additional IX by ATV	0	0.0
lost to all IX	3079	36.1

Potential Interfering Stations Included in above Scenario 1

60N IL AURORA BLCT 19870528KT LIC

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