

Special Displacement Window Application

LPTV or Translator Facility: WESV-LD Facility ID 68043 Chicago, IL
Licensed Ch. 40 File# BLDTL-20101213AGJ

Nature of Displacement: Within 600 MHz wireless spectrum

Proposed Facility: Ch. 31 15 kW ERP directional (azimuth pattern in Figure 1)

Modification Compliance: 0.0 km from licensed site
Contour comparison in Figure 2
TVStudy Analysis report in Table 1

Contingent Application Rule: Waiver of §73.3700(g)(2)(i) requested
Operation on proposed channel will not commence until the
following station discontinues operation on its current channel:
WFLD Ch. 31 Chicago IL (repacked to Ch. 24, phase 6)
The applicant will accept a corresponding special operating
condition on the CP authorization.

RF Exposure: The proposed transmitting location is atop the Willis Tower office
building in downtown Chicago. The calculated signal density
near the building at two meters above ground level attributable to
the proposed facility is 0.3 percent of the general
population/uncontrolled maximum permitted exposure limit.
Calculations conducted pursuant to FCC OET Bulletin
Number 65 and incorporate 100 percent relative field at
downward angles.

Following construction of the proposed facility, the applicant will
conduct RF exposure measurements at rooftop and upper level
indoor locations to evaluate the level of RF exposure resulting
from the proposed facility. As necessary, based on these results
and considering all emitters, appropriate exposure abatement
procedures will be established and followed, in order to comply
with the FCC's exposure limits. Such abatement procedures may
involve the restriction of access to certain areas and/or facility
modifications to reduce RF levels.

Chesapeake RF Consultants, LLC

Joseph M. Davis, P.E. May 6, 2018
207 Old Dominion Road Yorktown, VA 23692 703-650-9600

**Azimuth Pattern - Relative Field
(True North)**

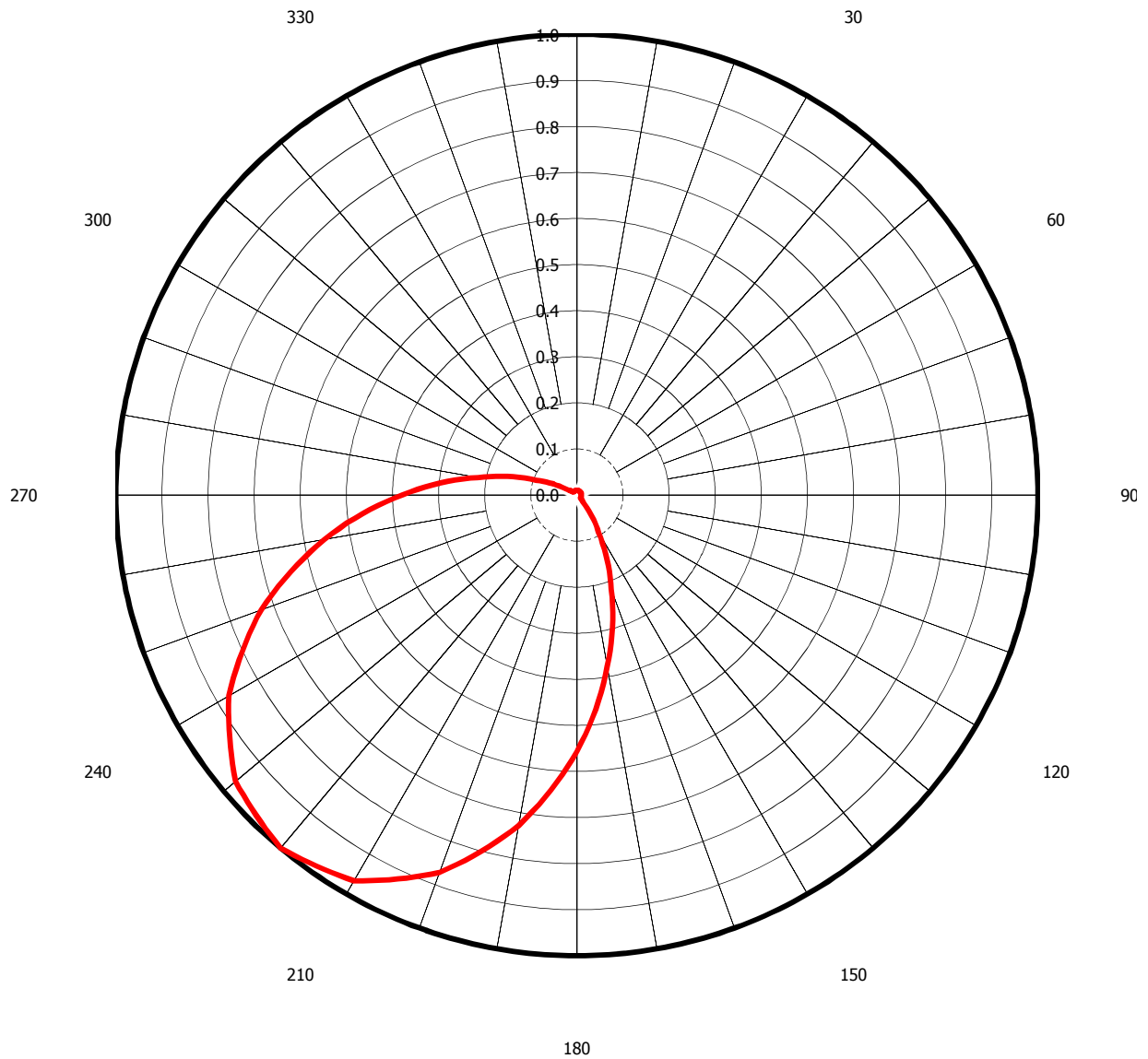


Figure 1
Antenna Azimuthal Pattern
WESV-LD Chicago, IL
Facility ID 68043
Ch. 31 (digital) 15 kW

prepared for
KRCA License LLC

May, 2018



prepared for
KRCA License LLC
May, 2018

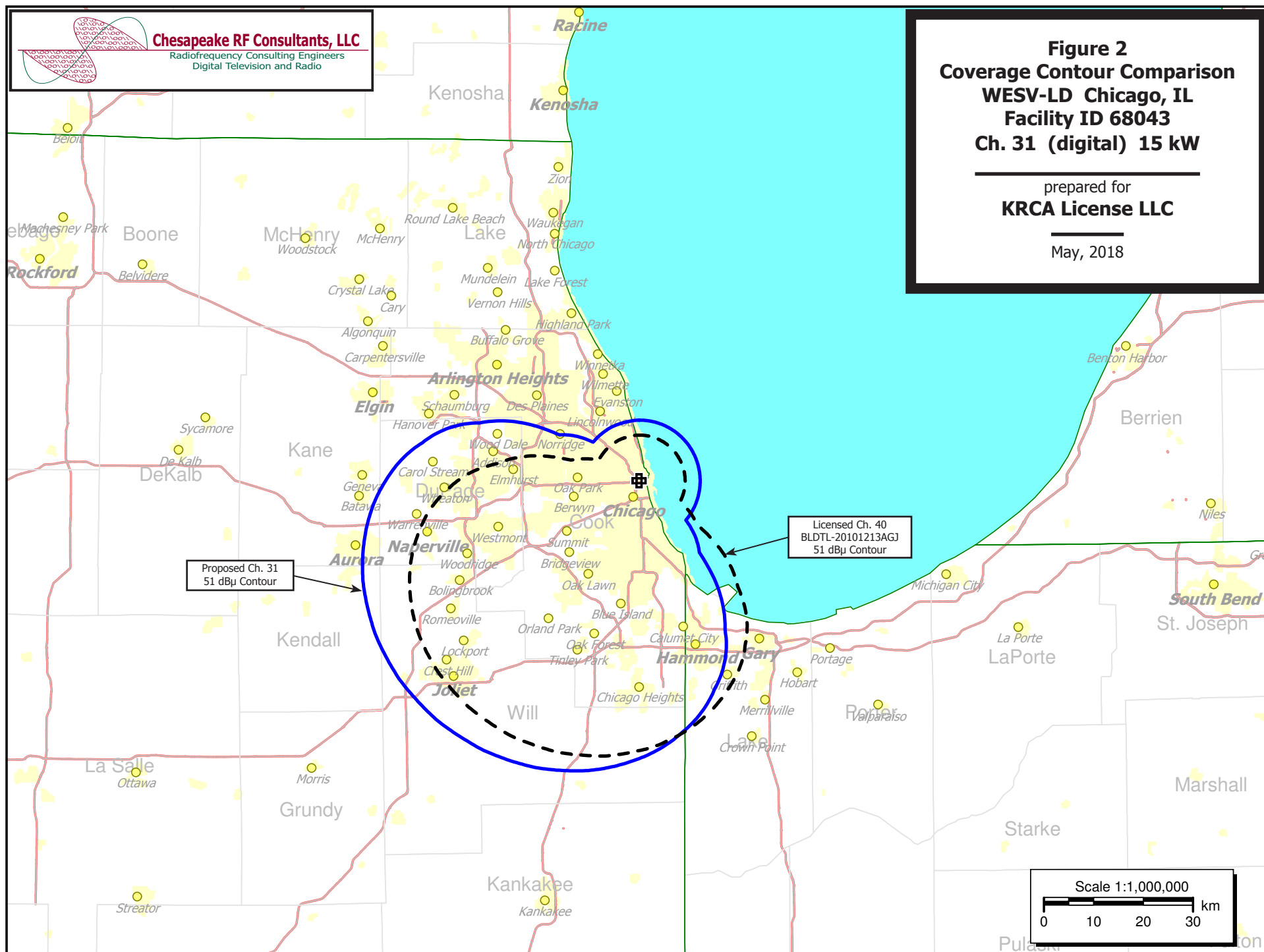


Table 1 WESV-LD TVStudy Analysis of Proposal (page 1 of 5)



tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: WESV-LD_31 prop LMS repack, Model: Longley-Rice
Start: 2018.05.06 14:11:57

Study created: 2018.05.06 14:11:54

Study build station data: LMS TV 2018-04-16

Proposal: WESV-LD D31 LD APP CHICAGO, IL
File number: WESV-LD_31 prop
Facility ID: 68043
Station data: User record
Record ID: 1852
Country: U.S.

Search options:
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KLJB	D30	DT	CP	DAVENPORT, IA	BLANK0000034774	236.6 km
No	WCRD-LP	D30	LD	CP	CARTHAGE, IL	BDCCDTL20061030AMS	134.9
No	WEIU-TV	D30	DT	CP	CHARLESTON, IL	BLANK0000029172	262.7
Yes	WDCI-LD	D30	LD	LIC	CHICAGO, IL	BLDTL20120131AAW	1.3
No	WSJV	D30	DT	CP	ELKHART, IN	BLANK0000027461	123.1
No	WXMI	D30	LD	LIC	GRAND RAPIDS, MI	BLCDT20140502AAR	169.9
No	WPXE-TV	D30	DT	CP	KENOSHA, WI	BLANK0000034913	136.4
No	WPVS-LP	D30	LD	CP	MILWAUKEE, WI	BMPDTL20130205ACP	137.1
No	KMKI-LD	D31	LD	APP	Cedar Rapids, IA	BLANK0000052698	387.6
No	K39LW-D	D31	LD	APP	LANSING, IA	BLANK0000035575	335.7
No	W31BX-D	D31	LD	LIC	DANVILLE, IL	BLDTT20090304ABU	194.9
Yes	WQAD-TV	D31	DT	CP	MOLINE, IL	BLANK0000034243	236.6
No	W33AY-D	D31	LD	APP	SPRINGFIELD, IL	BLANK0000051745	286.0
No	W31DT-D	D31	LD	CP	STERLING - DIXON, IL	BDCCDTL20110726AJF	163.0
Yes	WNIT	D31	DT	CP	SOUTH BEND, IN	BLANK0000024784	123.5
No	WVUT	D31	DT	CP	VINCENNES, IN	BLANK0000027953	359.0
No	WMYD	D31	DT	CP	DETROIT, MI	BLANK0000026818	373.0
No	WMYD	D31	DT	APP	DETROIT, MI	BLANK0000034676	373.0
No	WMKG-CD	D31	DC	CP	MUSKEGON, MI	BLANK0000034413	185.4
No	KDNL-TV	D31	DT	LIC	ST. LOUIS, MO	BLCDT20021216AAE	432.0
No	WDTN	D31	DT	CP	DAYTON, OH	BLANK0000034768	372.1
Yes	WITI	D31	DT	CP	MILWAUKEE, WI	BLANK0000034409	136.4
No	WICD	D32	DT	CP	CHAMPAIGN, IL	BLANK0000034392	202.5
No	WLS-TV	D32	LD	APP	CHICAGO, IL	BDRTCDT20090630AFT	0.1
No	WSPY-LD	D32	LD	LIC	Earlville, IL	BLANK0000013326	121.2
No	WSPY-LD	D32	LD	CP	Earlville, IL	BLANK0000013459	81.5
No	WSPY-LD	D32	LD	LIC	Earlville, IL	BLANK0000016586	81.5
No	W32EF-D	D32	LD	CP	PEORIA, IL	BLANK0000010599	196.5
No	WLPD-CD	D32	DC	CP	PLANO, IL	BLANK0000025115	37.1
No	WLPD-CD	D32	DC	APP	PLANO, IL	BLANK0000034861	37.1
No	WANE-TV	D32	DT	CP	FORT WAYNE, IN	BLANK0000034806	222.3
No	WTMJ-TV	D32	DT	CP	MILWAUKEE, WI	BLANK0000026765	136.5
No	WTMJ-TV	D32	DT	APP	MILWAUKEE, WI	BLANK0000034843	136.5
No	WTSJ-LP	N38+	TX	LIC	MILWAUKEE, WI	BLTTL20070223AGI	137.1

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D31
Mask: Full Service
Latitude: 41 52 44.00 N (NAD83)
Longitude: 87 38 8.00 W
Height AMSL: 636.4 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: MCI-955512 (ID 20067) 220.0 deg
Elev Pattern: Generic
Elec Tilt: 1.00

Table 1 WESV-LD TV Study Analysis of Proposal
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50.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.002 kW	459.6 m	12.7 km
45.0	0.002	461.4	12.7
90.0	0.002	461.0	12.7
135.0	0.004	461.3	16.6
180.0	4.64	454.0	56.5
225.0	14.5	453.7	63.5
270.0	2.14	450.8	51.7
315.0	0.002	452.9	12.6

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 457 m

Distance to Canadian border: 371.2 km

Distance to Mexican border: 1825.6 km

Conditions at FCC monitoring station: Allegan MI
Bearing: 59.1 degrees Distance: 160.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 268.4 degrees Distance: 1484.9 km

Study cell size: 1.00 km
Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Interference to BLDTL20120131AAW LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WDCI-LD	D30	LD	LIC	CHICAGO, IL	BLDTL20120131AAW	
Undesireds:	WESV-LD	D31	LD	APP	CHICAGO, IL	WESV-LD_31 prop	1.3 km
	WAUR-LD	D29	LD	LIC	Ottawa, IL	BLANK0000018958	122.5
	KLJB	D30	DT	CP	DAVENPORT, IA	BLANK0000034774	237.9
	WSJV	D30	DT	CP	ELKHART, IN	BLANK0000027461	122.1
	W30BU	D30	LD	CP	GREEN BAY, WI	BDFCDTL20090806ACF	276.5
	WPXE-TV	D30	DT	CP	KENOSHA, WI	BLANK0000034913	135.9
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
8310.8		6,826,421		8310.8		6,774,547	7684.9 6,773,072 0.05 0.02
Undesired	Total IX		Unique IX, before		Unique IX, after		
WESV-LD D31 LD APP	5.0		2,716		4.0 1,475		
KLJB D30 DT CP	1.0		32		0.0 0		
WSJV D30 DT CP	243.6		12,428		225.7 6,620		
WPXE-TV D30 DT CP	396.2		45,254		378.2 39,446		

Interference to BLDTL20120131AAW LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WDCI-LD	D30	LD	LIC	CHICAGO, IL	BLDTL20120131AAW	
Undesireds:	WESV-LD	D31	LD	APP	CHICAGO, IL	WESV-LD_31 prop	1.3 km
	WAUR-LD	D29	LD	LIC	Ottawa, IL	BLANK0000018958	122.5
	KLJB	D30	DT	CP	DAVENPORT, IA	BLANK0000034774	237.9
	WSJV	D30	DT	CP	ELKHART, IN	BLANK0000027461	122.1
	W30BU	D30	LD	CP	GREEN BAY, WI	BDFCDTL20090806ACF	276.5
	WPXE-TV	D30	DT	CP	KENOSHA, WI	BLANK0000034913	135.9
	WPVS-LP	D30	LD	CP	MILWAUKEE, WI	BMPDTL20130205ACP	136.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
8310.8		6,826,421		8310.8		6,774,547	7684.9 6,773,072 0.05 0.02

Table 1 WESV-LD TV Study Analysis of Proposal
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Undesired		Total IX	Unique IX, before	Unique IX, after
WESV-LD D31 LD APP	5.0	2,716		4.0 1,475
KLJB D30 DT CP	1.0	32	0.0 0	0.0 0
WSJV D30 DT CP	243.6	12,428	225.7 6,620	225.7 6,620
WPXE-TV D30 DT CP	396.2	45,254	377.2 39,446	377.2 39,446
WPVS-LP D30 LD CP	1.0	0	0.0 0	0.0 0

Interference to BLANK0000034243 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WQAD-TV	D31	DT	CP	MOLINE, IL	BLANK0000034243	
Undesireds:	WESV-LD	D31	LD	APP	CHICAGO, IL	WESV-LD_31 prop	236.6 km
	KDNL-TV	D31	DT	LIC	ST. LOUIS, MO	BLCDT20021216AAE	303.7
	WITI	D31	DT	CP	MILWAUKEE, WI	BLANK0000034409	284.3
	WLPD-CD	D32	DC	CP	PLANO, IL	BLANK0000025115	199.9
	WTJR	D32	DT	LIC	QUINCY, IL	BLCDT20091110ADL	169.1

	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	32065.0 1,104,021	31760.0 1,089,893		31584.4 1,081,481		31584.4 1,081,481	0.00 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
WESV-LD D31 LD APP	1.0	0		0.0 0
KDNL-TV D31 DT LIC	116.7	8,125	96.7 7,514	96.7 7,514
WITI D31 DT CP	74.0	875	59.0 287	59.0 287
WTJR D32 DT LIC	5.0	23	0.0 0	0.0 0

Interference to BLANK0000024784 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WNIT	D31	DT	CP	SOUTH BEND, IN	BLANK0000024784	
Undesireds:	WESV-LD	D31	LD	APP	CHICAGO, IL	WESV-LD_31 prop	123.5 km
	WSJV	D30	DT	CP	ELKHART, IN	BLANK0000027461	0.5
	WQAD-TV	D31	DT	CP	MOLINE, IL	BLANK0000034243	350.6
	WMYD	D31	DT	CP	DETROIT, MI	BLANK0000026818	265.7
	WMKG-CD	D31	DC	CP	MUSKEGON, MI	BLANK0000034413	173.6
	WDTN	D31	DT	CP	DAYTON, OH	BLANK0000034768	266.3
	WITI	D31	DT	CP	MILWAUKEE, WI	BLANK0000034409	215.9
	WLPD-CD	D32	DC	CP	PLANO, IL	BLANK0000025115	158.9
	WANE-TV	D32	DT	CP	FORT WAYNE, IN	BLANK0000034806	102.1

	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	19614.4 1,304,265	19612.3 1,303,791		19045.7 1,262,791		19044.7 1,262,680	0.01 0.01

Undesired		Total IX	Unique IX, before	Unique IX, after
WESV-LD D31 LD APP	37.2	5,685		1.0 111
WSJV D30 DT CP	55.3	3,876	36.1 3,300	36.1 3,300
WQAD-TV D31 DT CP	11.1	1,127	1.0 14	0.0 0
WMYD D31 DT CP	8.0	71	6.0 16	6.0 16
WMKG-CD D31 DC CP	3.0	55	0.0 0	0.0 0
WDTN D31 DT CP	235.2	12,418	60.5 1,124	60.5 1,124
WITI D31 DT CP	112.5	18,274	94.4 16,650	69.3 12,203
WANE-TV D32 DT CP	354.6	18,728	165.7 6,881	165.7 6,881

Interference to BLANK0000024784 CP scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WNIT	D31	DT	CP	SOUTH BEND, IN	BLANK0000024784	
Undesireds:	WESV-LD	D31	LD	APP	CHICAGO, IL	WESV-LD_31 prop	123.5 km
	WSJV	D30	DT	CP	ELKHART, IN	BLANK0000027461	0.5
	WQAD-TV	D31	DT	CP	MOLINE, IL	BLANK0000034243	350.6
	WMYD	D31	DT	APP	DETROIT, MI	BLANK0000034676	265.7
	WMKG-CD	D31	DC	CP	MUSKEGON, MI	BLANK0000034413	173.6
	WDTN	D31	DT	CP	DAYTON, OH	BLANK0000034768	266.3
	WITI	D31	DT	CP	MILWAUKEE, WI	BLANK0000034409	215.9
	WLPD-CD	D32	DC	CP	PLANO, IL	BLANK0000025115	158.9
	WANE-TV	D32	DT	CP	FORT WAYNE, IN	BLANK0000034806	102.1

Table 1 WESV-LD TV Study Analysis of Proposal
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Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
19614.4	1,304,265	19612.3	1,303,791	19038.7	1,262,731	19037.7	1,262,620	0.01	0.01
Undesired		Total IX		Unique IX, before		Unique IX, after			
WESV-LD D31 LD APP		37.2	5,685			1.0	111		
WSJV D30 DT CP		55.3	3,876	35.1	3,257	35.1	3,257		
WQAD-TV D31 DT CP		11.1	1,127	1.0	14	0.0	0		
WMYD D31 DT APP		19.0	203	13.0	76	13.0	76		
WMKG-CD D31 DC CP		3.0	55	0.0	0	0.0	0		
WDTN D31 DT CP		235.2	12,418	60.5	1,124	60.5	1,124		
WITI D31 DT CP		112.5	18,274	94.4	16,650	69.3	12,203		
WANE-TV D32 DT CP		354.6	18,728	165.7	6,881	165.7	6,881		

Interference to BLANK0000034409 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WITI	D31	DT	CP	MILWAUKEE, WI	BLANK0000034409	
Undesireds:	WESV-LD	D31	LD	APP	CHICAGO, IL	WESV-LD_31 prop	136.4 km
	WQAD-TV	D31	DT	CP	MOLINE, IL	BLANK0000034243	284.3
	WNIT	D31	DT	CP	SOUTH BEND, IN	BLANK0000024784	215.9
	WMKG-CD	D31	DC	CP	MUSKEGON, MI	BLANK0000034413	137.0
	WLPD-CD	D32	DC	CP	PLANO, IL	BLANK0000025115	140.0
	WTMJ-TV	D32	DT	CP	MILWAUKEE, WI	BLANK0000026765	0.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
26841.9	3,111,623	26616.3	3,096,558	26209.9	3,072,917	26207.9	3,071,992	0.01	0.03
Undesired		Total IX		Unique IX, before		Unique IX, after			
WESV-LD D31 LD APP		5.0	1,858			2.0	925		
WQAD-TV D31 DT CP		392.3	23,293	367.1	22,877	365.1	21,984		
WNIT D31 DT CP		13.1	243	3.0	134	3.0	134		
WMKG-CD D31 DC CP		23.2	279	5.1	77	5.1	77		
WTMJ-TV D32 DT CP		11.0	351	5.0	122	5.0	122		

Interference to BLANK0000034409 CP scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WITI	D31	DT	CP	MILWAUKEE, WI	BLANK0000034409	
Undesireds:	WESV-LD	D31	LD	APP	CHICAGO, IL	WESV-LD_31 prop	136.4 km
	WQAD-TV	D31	DT	CP	MOLINE, IL	BLANK0000034243	284.3
	WNIT	D31	DT	CP	SOUTH BEND, IN	BLANK0000024784	215.9
	WMKG-CD	D31	DC	CP	MUSKEGON, MI	BLANK0000034413	137.0
	WLPD-CD	D32	DC	CP	PLANO, IL	BLANK0000025115	140.0
	WTMJ-TV	D32	DT	APP	MILWAUKEE, WI	BLANK0000034843	0.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
26841.9	3,111,623	26616.3	3,096,558	26202.8	3,072,839	26200.8	3,071,914	0.01	0.03
Undesired		Total IX		Unique IX, before		Unique IX, after			
WESV-LD D31 LD APP		5.0	1,858			2.0	925		
WQAD-TV D31 DT CP		392.3	23,293	366.1	22,868	364.1	21,975		
WNIT D31 DT CP		13.1	243	3.0	134	3.0	134		
WMKG-CD D31 DC CP		23.2	279	5.1	77	5.1	77		
WTMJ-TV D32 DT APP		19.1	438	12.1	200	12.1	200		

Interference to proposal scenario 1

**MX: 25.44% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WESV-LD	D31	LD	APP	CHICAGO, IL	WESV-LD_31 prop	
Undesireds:	WDCI-LD	D30	LD	LIC	CHICAGO, IL	BLDTL20120131AAW	1.3 km
	WQAD-TV	D31	DT	CP	MOLINE, IL	BLANK0000034243	236.6
	WNIT	D31	DT	CP	SOUTH BEND, IN	BLANK0000024784	123.5
	WITI	D31	DT	CP	MILWAUKEE, WI	BLANK0000034409	136.4
	WLS-TV	D32	LD	APP	CHICAGO, IL	BDRTCDT20090630AFT	0.1
	WSPY-LD	D32	LD	LIC	Earlville, IL	BLANK0000013326	121.2
	WLPD-CD	D32	DC	CP	PLANO, IL	BLANK0000025115	37.1

Table 1 WESV-LD TVStudy Analysis of Proposal
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Service area		Terrain-limited		IX-free		Percent IX	
4296.8	5,605,392	4296.8	5,605,392	3510.4	4,179,546	18.30	25.44
Undesired		Total IX		Unique IX		Prct Unique IX	
WDCI-LD D30 LD LIC	606.8	1,159,275	4.0	24,953	0.09	0.45	
WQAD-TV D31 DT CP	72.9	1,275	1.0	13	0.02	0.00	
WNIT D31 DT CP	222.8	562,559	0.0	0	0.00	0.00	
WITI D31 DT CP	291.8	625,788	1.0	0	0.02	0.00	
WLS-TV D32 LD APP	773.4	1,391,384	163.5	255,678	3.81	4.56	
WLPD-CD D32 DC CP	8.0	10,693	7.0	9,496	0.16	0.17	

Interference to proposal scenario 2
**MX: 25.38% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WESV-LD	D31	LD	APP	CHICAGO, IL	WESV-LD_31 prop	
Undesireds:	WDCI-LD	D30	LD	LIC	CHICAGO, IL	BLDTL20120131AAW	1.3 km
	WQAD-TV	D31	DT	CP	MOLINE, IL	BLANK0000034243	236.6
	WNIT	D31	DT	CP	SOUTH BEND, IN	BLANK0000024784	123.5
	WITI	D31	DT	CP	MILWAUKEE, WI	BLANK0000034409	136.4
	WLS-TV	D32	LD	APP	CHICAGO, IL	BDRTCDT20090630AFT	0.1
	WSPY-LD	D32	LD	LIC	Earlville, IL	BLANK0000013326	121.2
	WLPD-CD	D32	DC	APP	PLANO, IL	BLANK0000034861	37.1

Service area		Terrain-limited		IX-free		Percent IX	
4296.8	5,605,392	4296.8	5,605,392	3510.4	4,182,695	18.30	25.38
Undesired		Total IX		Unique IX		Prct Unique IX	
WDCI-LD D30 LD LIC	606.8	1,159,275	4.0	24,953	0.09	0.45	
WQAD-TV D31 DT CP	72.9	1,275	1.0	13	0.02	0.00	
WNIT D31 DT CP	222.8	562,559	0.0	0	0.00	0.00	
WITI D31 DT CP	291.8	625,788	1.0	0	0.02	0.00	
WLS-TV D32 LD APP	773.4	1,391,384	163.5	255,678	3.81	4.56	
WLPD-CD D32 DC APP	8.0	7,544	7.0	6,347	0.16	0.11	