

ENGINEERING STATEMENT  
IN SUPPORT OF AN APPLICATION  
POST-INCENTIVE AUCTION SPECIAL DISPLACEMENT WINDOW  
WMKB-LP, ROCHELLE, ILLINOIS  
CHANNEL 18 9 KW MAX DA 431.3 M AMSL

MAY 2018

This engineering statement has been prepared on behalf of Diligent Broadcasting, L.L.C., licensee of low power TV station WMKB-LP, Rochelle, Illinois and is in support of its application for construction permit for a new digital TV Channel and is being filed during the Post-Incentive Auction Special Displacement Window.

At present station WMKB-LP, Facility ID Number 131043, (BLTTL-20070813AFM) operates on analog TV Channel 25 (536-542 MHz) with 39.8 kW ERP, 443.4 meters antenna height above mean sea level and a directional TV antenna. The current licensed WMKB-LP's analog TV operation would cause interference to TV WTTW 0.78% of its noise limited service area and would receive 8.1% interference within Channel 25 service area of WMKB-LP; therefore, in order to resolve these interference issues, WMKB-LP is proposing to operate on digital TV Channel 18 with a maximum of 9 kW ERP using a directional TV antenna.

The following information provides pertinent data for the proposed WMKB-LP operation.

Name of the licensee:	Diligent Broadcasting, L.L.C.	
Station Location:	IL-Rochelle	
Channel:	18 (494-500 MHz)	
Hours of Operation:	Unlimited	
Transmitter:	Type Accepted	
Antenna Type:	SCA, CL-1469	
Antenna Coordinates (NAD83):	North Latitude:	41 deg 59 min 46.00 sec
	West Longitude:	89 deg 12 min 11.00 sec

Maximum effective radiated power (Average):	9 kW 9.54 dBk
Elevation of the site above mean sea level:	248.4 meters
Overall height of the tower above ground:	208.5 meters
Height of radiation center above ground (meters):	182.9 meters
Height of radiation center above mean sea level (meters):	431.3 meters
Antenna Structure Registration:	1245471

The proposed WMKB-LP facility complies with Section 73.1030 of the Commission's rules; therefore, notification to radio astronomy installations, radio receiving installations and FCC monitoring stations is not required.

### **INTERFERENCE**

An interference study has been conducted according to the TV Study computer software for the proposed WMKB-LP operation on digital TV Channel 18. The TV Study indicates the proposed Channel 18 LPTV operation with 9 kW maximum ERP using a directional TV antenna would not cause interference to any TV, Class A TV or LPTV station. The proposed digital TV operation is predicted to receive 8.8% interference within its noise limited contour. WMKB-LP is willing to accept such interference.

## **ENVIRONMENTAL PROTECTION ACT**

Since WMKB-LP's proposed digital TV operation on Channel would be located on an existing tower (ASR 1245471) the environmental concerns listed in Section 1.1307(a) of the Commission's rules are not pertinent; therefore, those issues have not been addressed.

An evaluation has been made to determine compliance with the Commission's specified standards for human exposure to RF fields as set forth in the OET Bulletin No. 65 dated August 1997. For a maximum effective radiated power of 9 kW and a radiation center of 182.9 meters above ground level, the proposed Channel 18 LPTV operation would have less than 3 microwatt per square centimeter ( $\mu\text{W}/\text{cm}^2$ ) RF field at 2 meters above the base of tower assuming an antenna field factor of 0.5 in the downward direction.

The Commission's guidelines for Channel 18 are  $1,647 \mu\text{W}/\text{cm}^2$  for the occupational/controlled, and  $329 \mu\text{W}/\text{cm}^2$  for the general population/uncontrolled environment.

The above analysis indicates general public near the tower will not be exposed to RF fields exceeding the Commission's guidelines. With respect to work performed on the tower, WMKB-LP will establish procedures to ensure that workers are not exposed to RF fields above the Commission's guidelines, by reducing or turning off the power, as appropriate.

For the reasons stated above, it is believed this proposal complies with Section 1.1307(a) and (b) of the Commission's Rules; therefore, under Section 1.1306, it is categorically excluded from environmental processing.

Study created: 2018.05.11 11:40:57

Study build station data: LMS TV 2018-05-10 (22)

Proposal: WMKB-LP D18z LD LIC ROCHELLE, IL  
 File number: WMKBCH189KW  
 Facility ID: 131043  
 Station data: User record  
 Record ID: 79  
 Country: U.S.

Build options:  
 Protect records not on baseline channel

Stations affected by proposal:

Call	Chan	Svc	Status	City, State	File Number
Distance					
WIDN-LD	D17	LD	LIC	ROCKFORD, IL	
BLANK0000008118				39.5 km	
WMEU-CD	D18	DC	CP	CHICAGO, IL	
BLANK0000034599				130.2	
WMSN-TV	D18	DT	CP	MADISON, WI	
BLANK0000034381				120.9	
WVTV	D18	DT	LIC	MILWAUKEE, WI	
BLCDT20101012ADH				162.1	
WGN-TV	D19	DT	LIC	CHICAGO, IL	
BMLCDT20080201APP				130.2	

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D18z  
 Mask: Stringent  
 Latitude: 41 59 46.00 N (NAD83)  
 Longitude: 89 12 11.00 W  
 Height AMSL: 443.4 m  
 HAAT: 0.0 m  
 Peak ERP: 9.00 kW  
 Antenna: SCA-CL-1469 CUSTOM (ID 79710) 0.0 deg  
 Elev Pattn: Generic

49.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.000 kW	199.0 m	8.3 km
45.0	0.021	193.2	17.9
90.0	8.07	186.1	48.0
135.0	2.17	198.7	41.9
180.0	0.000	200.7	8.3
225.0	0.000	212.2	8.5

270.0	0.000	218.9	8.6
315.0	0.000	198.3	8.3

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m      Computed HAAT: 201 m

Distance to Canadian border: 499.8 km

Distance to Mexican border: 1743.5 km

Conditions at FCC monitoring station: Allegan MI  
Bearing: 74.7 degrees      Distance: 275.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 266.7 degrees      Distance: 1356.0 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

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%

Proposal receives 7.69% interference from scenario 1  
No IX check failures found.

tvstudy v2.2.3 (DAezul)  
 Database: localhost, Study: WMKBCH189KW, Model: Longley-Rice  
 Start: 2018.05.11 11:42:26

Study created: 2018.05.11 11:40:57

Study build station data: LMS TV 2018-05-10 (22)

Proposal: WMKB-LP D18z LD LIC ROCHELLE, IL  
 File number: WMKBCH189KW  
 Facility ID: 131043  
 Station data: User record  
 Record ID: 79  
 Country: U.S.

Build options:  
 Protect records not on baseline channel

Stations affected by proposal:

Call	Chan	Svc	Status	City, State	File Number
Distance					
WIDN-LD	D17	LD	LIC	ROCKFORD, IL	
BLANK0000008118				39.5 km	
WMEU-CD	D18	DC	CP	CHICAGO, IL	
BLANK0000034599				130.2	
WMSN-TV	D18	DT	CP	MADISON, WI	
BLANK0000034381				120.9	
WVTV	D18	DT	LIC	MILWAUKEE, WI	
BLCDT20101012ADH				162.1	
WGN-TV	D19	DT	LIC	CHICAGO, IL	
BMLCDT20080201APP				130.2	

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D18z  
 Mask: Stringent  
 Latitude: 41 59 46.00 N (NAD83)  
 Longitude: 89 12 11.00 W  
 Height AMSL: 443.4 m  
 HAAT: 0.0 m  
 Peak ERP: 9.00 kW  
 Antenna: SCA-CL-1469 CUSTOM (ID 79710) 0.0 deg  
 Elev Pattn: Generic

49.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.000 kW	199.0 m	8.3 km
45.0	0.021	193.2	17.9



90.0	8.07	186.1	48.0
135.0	2.17	198.7	41.9
180.0	0.000	200.7	8.3
225.0	0.000	212.2	8.5
270.0	0.000	218.9	8.6
315.0	0.000	198.3	8.3

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m    Computed HAAT: 201 m

Distance to Canadian border: 499.8 km

Distance to Mexican border: 1743.5 km

Conditions at FCC monitoring station: Allegan MI  
Bearing: 74.7 degrees    Distance: 275.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 266.7 degrees    Distance: 1356.0 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

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%

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Interference to BLANK0000008118 LIC, scenario 1

File Number	Call	Chan	Svc	Status	City, State
Desired:	WIDN-LD	D17	LD	LIC	ROCKFORD, IL
BLANK0000008118					
Undesireds:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW			39.5 km		
	WTVO	D16	DT	LIC	ROCKFORD, IL
BLCDT20021024AAS			13.7		
	KWQC-TV	D17	DT	CP	DAVENPORT, IA
BLANK0000033932			148.7		
	KGLU-LD	D17	LD	LIC	OTTUMWA, IA
BLANK0000010561			319.2		
	WYIN	D17	DT	LIC	GARY, IN
BLEDT20040206AAA			171.7		

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WBME-CD	D17	DC	CP	MILWAUKEE, WI
BLANK0000034630	124.5			
WYTU-LD	D17	LD	LIC	MILWAUKEE, WI
BLDTL20120731ALQ	124.5			
WMSN-TV	D18	DT	CP	MADISON, WI
BLANK0000034381	92.1			

Service area	Terrain-limited	IX-free, before
IX-free, after	Percent New IX	
1390.4	339,021	1125.7
1125.7	328,927	328,927
	0.00	0.00

Undesired	Total IX	Unique IX, before
Unique IX, after		
WMKB-LP D18z LD LIC	3.0	8
0.0	0	
WTVQ D16 DT LIC	256.7	9,971
211.3	8,637	212.3
KWQC-TV D17 DT CP	45.4	1,341
1.0	0	1.0
WYIN D17 DT LIC	8.1	162
4.0	77	4.0
WBME-CD D17 DC CP	1.0	2
0.0	0	0.0
WYTU-LD D17 LD LIC	1.0	2
0.0	0	0.0
WMSN-TV D18 DT CP	1.0	0
0.0	0	0.0

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 Interference to BLANK0000034599 CP, scenario 1

File Number	Call	Chan	Svc	Status	City, State
Desired:	Distance				
BLANK0000034599	WMEU-CD	D18	DC	CP	CHICAGO, IL
Undesireds:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW		130.2	km		
	WYIN	D17	DT	LIC	GARY, IN
BLEDT20040206AAA		62.1			
	WBME-CD	D17	DC	CP	MILWAUKEE, WI
BLANK0000034630		139.1			
	WBXC-CD	D18	DC	CP	CHAMPAIGN/URBANA, IL
BLANK0000034661		203.0			
	WSEC	D18	DT	CP	JACKSONVILLE, IL
BLANK0000034851		324.3			
	WFWA	D18	DT	CP	FORT WAYNE, IN
BLANK0000034724		221.0			
	WAWV-TV	D18	DT	CP	TERRE HAUTE, IN
BLANK0000028343		293.8			

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WEYI-TV	D18	DT	CP	SAGINAW, MI
BLANK0000034331	353.3			
WMSN-TV	D18	DT	CP	MADISON, WI
BLANK0000034381	203.3			
WGN-TV	D19	DT	LIC	CHICAGO, IL
BMLCDT20080201APP	0.0			

Service area	Terrain-limited	IX-free, before
IX-free, after	Percent New IX	
11379.0	8,380,036	11377.0 8,379,139 11269.3 8,361,321
11267.3	8,361,002	0.02 0.00

Undesired	Total IX	Unique IX, before
Unique IX, after		
WMKB-LP D18z LD LIC	2.0	319
2.0	319	
WYIN D17 DT LIC	5.0	74
5.0	74	
WFWA D18 DT CP	2.0	2,576
1.0	978	
WMSN-TV D18 DT CP	21.9	16,257
20.9	14,659	
WGN-TV D19 DT LIC	79.8	509
79.8	509	

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 Interference to BLANK0000034599 CP, scenario 2

File Number	Call	Chan	Svc	Status	City, State
Desired:	WMEU-CD	D18	DC	CP	CHICAGO, IL
BLANK0000034599					
Undesireds:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW					130.2 km
	WYIN	D17	DT	LIC	GARY, IN
BLEDT20040206AAA					62.1
	WBME-CD	D17	DC	CP	MILWAUKEE, WI
BLANK0000034630					139.1
	WBXC-CD	D18	DC	CP	CHAMPAIGN/URBANA, IL
BLANK0000034661					203.0
	WSEC	D18	DT	CP	JACKSONVILLE, IL
BLANK0000034851					324.3
	WAVV-TV	D18	DT	CP	TERRE HAUTE, IN
BLANK0000028343					293.8
	WEYI-TV	D18	DT	CP	SAGINAW, MI
BLANK0000034331					353.3
	WMSN-TV	D18	DT	CP	MADISON, WI
BLANK0000034381					203.3
	WGN-TV	D19	DT	LIC	CHICAGO, IL
BMLCDT20080201APP					0.0

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	Service area		Terrain-limited		IX-free, before
IX-free, after	Percent New IX				
11379.0	8,380,036	11377.0	8,379,139	11270.3	8,362,299
11268.3	8,361,980	0.02	0.00		

Undesired		Total IX	Unique IX, before
Unique IX, after			
WMKB-LP D18z LD LIC	2.0	319	
2.0	319		
WYIN D17 DT LIC	5.0	74	5.0 74
5.0	74		
WMSN-TV D18 DT CP	21.9	16,257	21.9 16,257
21.9	16,257		
WGN-TV D19 DT LIC	79.8	509	79.8 509
79.8	509		

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Interference to BLANK0000034599 CP, scenario 3

File Number	Call	Chan	Svc	Status	City, State
Desired:	WMEU-CD	D18	DC	CP	CHICAGO, IL
BLANK0000034599					
Undesireds:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW					130.2 km
	WYIN	D17	DT	LIC	GARY, IN
BLEDT20040206AAA					62.1
	WBME-CD	D17	DC	CP	MILWAUKEE, WI
BLANK0000034630					139.1
	WBXC-CD	D18	DC	CP	CHAMPAIGN/URBANA, IL
BLANK0000034661					203.0
	WSEC	D18	DT	CP	JACKSONVILLE, IL
BLANK0000034851					324.3
	WFWA	D18	DT	CP	FORT WAYNE, IN
BLANK0000034724					221.0
	WAWV-TV	D18	DT	CP	TERRE HAUTE, IN
BLANK0000028343					293.8
	WEYI-TV	D18	DT	CP	SAGINAW, MI
BLANK0000034331					353.3
	WMSN-TV	D18	DT	BL	MADISON, WI
DTVBL10221					203.3
	WGN-TV	D19	DT	LIC	CHICAGO, IL
BMLCDT20080201APP					0.0

	Service area		Terrain-limited		IX-free, before
IX-free, after	Percent New IX				
11379.0	8,380,036	11377.0	8,379,139	11286.2	8,372,529
11284.2	8,372,210	0.02	0.00		

Undesired		Total IX	Unique IX, before
Unique IX, after			

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WMKB-LP D18z LD LIC	2.0	319		
2.0		319		
WYIN D17 DT LIC	5.0	74	5.0	74
5.0		74		
WFWA D18 DT CP	2.0	2,576	2.0	2,576
2.0		2,576		
WMSN-TV D18 DT BL	4.0	3,451	4.0	3,451
4.0		3,451		
WGN-TV D19 DT LIC	79.8	509	79.8	509
79.8		509		

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 Interference to BLANK0000034599 CP, scenario 4

File Number	Call	Chan	Svc	Status	City, State
Desired:	WMEU-CD	D18	DC	CP	CHICAGO, IL
BLANK0000034599					
Undesireds:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW				130.2 km	
	WYIN	D17	DT	LIC	GARY, IN
BLEDT20040206AAA				62.1	
	WBME-CD	D17	DC	CP	MILWAUKEE, WI
BLANK0000034630				139.1	
	WBXC-CD	D18	DC	CP	CHAMPAIGN/URBANA, IL
BLANK0000034661				203.0	
	WSEC	D18	DT	CP	JACKSONVILLE, IL
BLANK0000034851				324.3	
	WAWV-TV	D18	DT	CP	TERRE HAUTE, IN
BLANK0000028343				293.8	
	WEYI-TV	D18	DT	CP	SAGINAW, MI
BLANK0000034331				353.3	
	WMSN-TV	D18	DT	BL	MADISON, WI
DTVBL10221				203.3	
	WGN-TV	D19	DT	LIC	CHICAGO, IL
BMLCDT20080201APP				0.0	

Service area		Terrain-limited		IX-free, before	
IX-free, after	Percent	New	IX		
11379.0	8,380,036	11377.0	8,379,139	11288.2	8,375,105
11286.2	8,374,786	0.02	0.00		

Undesired	Total IX	Unique IX, before
Unique IX, after		
WMKB-LP D18z LD LIC	2.0	319
2.0		319
WYIN D17 DT LIC	5.0	74
5.0		74
WMSN-TV D18 DT BL	4.0	3,451
4.0		3,451

WGN-TV D19 DT LIC	79.8	509	79.8	509
79.8	509			

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Interference to BLANK0000034381 CP, scenario 1

File Number	Call	Chan	Svc	Status	City, State
Desired:	WMSN-TV	D18	DT	CP	MADISON, WI
BLANK0000034381					
Undesireds:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW				120.9 km	
	KWQC-TV	D17	DT	CP	DAVENPORT, IA
BLANK0000033932				184.7	
	WBME-CD	D17	DC	CP	MILWAUKEE, WI
BLANK0000034630				130.4	
	KYIN	D18	DT	LIC	MASON CITY, IA
BLEDT20090612AHJ				261.0	
	WBXC-CD	D18	DC	CP	CHAMPAIGN/URBANA, IL
BLANK0000034661				344.5	
	WMEU-CD	D18	DC	CP	CHICAGO, IL
BLANK0000034599				203.3	
	WSEC	D18	DT	CP	JACKSONVILLE, IL
BLANK0000034851				386.2	
	WGN-TV	D19	DT	LIC	CHICAGO, IL
BMLCDT20080201APP				203.3	
	WMTV	D19	DT	LIC	MADISON, WI
BLCDDT20100413AAW				3.9	

Service area	Terrain-limited	IX-free, before
IX-free, after	Percent New IX	
35723.1	1,945,147	35158.8
34360.7	1,794,979	0.21
		0.44

Undesired	Total IX	Unique IX, before
Unique IX, after		
WMKB-LP D18z LD LIC	98.5	11,865
71.6		7,852
KWQC-TV D17 DT CP	11.0	185
6.0		181
WBME-CD D17 DC CP	405.6	103,316
341.2		94,004
KYIN D18 DT LIC	62.5	1,043
58.5		1,042
WMEU-CD D18 DC CP	269.8	24,337
175.4		15,031
11,024		
WSEC D18 DT CP	13.9	28
4.0		19
19		
WGN-TV D19 DT LIC	1.0	7
0.0		0
0		

WMTV D19 DT LIC	42.2	908	41.2	889
41.2	889			

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Interference to BLANK0000034381 CP, scenario 2

File Number	Call	Chan	Svc	Status	City, State
		Distance			
Desired:	WMSN-TV	D18	DT	CP	MADISON, WI
BLANK0000034381					
Undesireds:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW		120.9	km		
	KWQC-TV	D17	DT	CP	DAVENPORT, IA
BLANK0000033932		184.7			
	WBME-CD	D17	DC	CP	MILWAUKEE, WI
BLANK0000034630		130.4			
	KYIN	D18	DT	LIC	MASON CITY, IA
BLEDT20090612AHJ		261.0			
	WBXC-CD	D18	DC	CP	CHAMPAIGN/URBANA, IL
BLANK0000034661		344.5			
	WMEU-CD	D18	DC	CP	CHICAGO, IL
BLANK0000034599		203.3			
	WSEC	D18	DT	BL	JACKSONVILLE, IL
DTVBL70536		386.2			
	WGN-TV	D19	DT	LIC	CHICAGO, IL
BMLCDT20080201APP		203.3			
	WMTV	D19	DT	LIC	MADISON, WI
BLCDDT20100413AAW		3.9			

Service area		Terrain-limited		IX-free, before	
IX-free, after	Percent	New IX			
35723.1	1,945,147	35158.8	1,923,326	34436.2	1,802,850
34364.6	1,794,998	0.21	0.44		

Undesired		Total IX	Unique IX, before	
Unique IX, after				
WMKB-LP D18z LD LIC	98.5	11,865		
71.6	7,852			
KWQC-TV D17 DT CP	11.0	185	9.0	184
9.0	184			
WBME-CD D17 DC CP	405.6	103,316	341.2	94,004
341.2	94,004			
KYIN D18 DT LIC	62.5	1,043	59.5	1,042
59.5	1,042			
WMEU-CD D18 DC CP	269.8	24,337	202.4	15,037
175.4	11,024			
WSEC D18 DT BL	1.0	0	0.0	0
0.0	0			
WGN-TV D19 DT LIC	1.0	7	0.0	0
0.0	0			

WMTV D19 DT LIC	42.2	908	41.2	889
41.2	889			

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Interference to BLANK0000034381 CP, scenario 3

File Number	Call	Chan	Svc	Status	City, State
Desired:	WMSN-TV	D18	DT	CP	MADISON, WI
BLANK0000034381					
Undesireds:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW				120.9 km	
	WBME-CD	D17	DC	CP	MILWAUKEE, WI
BLANK0000034630				130.4	
	KYIN	D18	DT	LIC	MASON CITY, IA
BLEDT20090612AHJ				261.0	
	WBXC-CD	D18	DC	CP	CHAMPAIGN/URBANA, IL
BLANK0000034661				344.5	
	WMEU-CD	D18	DC	CP	CHICAGO, IL
BLANK0000034599				203.3	
	WSEC	D18	DT	CP	JACKSONVILLE, IL
BLANK0000034851				386.2	
	WGN-TV	D19	DT	LIC	CHICAGO, IL
BMLCDT20080201APP				203.3	
	WMTV	D19	DT	LIC	MADISON, WI
BLCDDT20100413AAW				3.9	

Service area		Terrain-limited		IX-free, before	
IX-free, after	Percent	New IX			
35723.1	1,945,147	35158.8	1,923,326	34438.3	1,803,012
34366.7	1,795,160	0.21	0.44		

Undesired	Total IX	Unique IX, before
Unique IX, after		
WMKB-LP D18z LD LIC	98.5	11,865
71.6	7,852	
WBME-CD D17 DC CP	405.6	103,316
341.2	94,004	341.2
		94,004
KYIN D18 DT LIC	62.5	1,043
59.5	1,043	59.5
		1,043
WMEU-CD D18 DC CP	269.8	24,337
175.4	11,024	198.4
		15,031
WSEC D18 DT CP	13.9	28
7.0	22	7.0
		22
WGN-TV D19 DT LIC	1.0	7
0.0	0	0.0
		0
WMTV D19 DT LIC	42.2	908
41.2	889	41.2
		889

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## Interference to BLANK0000034381 CP, scenario 4

File Number	Call	Chan	Svc	Status	City, State
		Distance			
Desired:	WMSN-TV	D18	DT	CP	MADISON, WI
BLANK0000034381					
Undesireds:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW		120.9	km		
	WBME-CD	D17	DC	CP	MILWAUKEE, WI
BLANK0000034630		130.4			
	KYIN	D18	DT	LIC	MASON CITY, IA
BLEDT20090612AHJ		261.0			
	WBXC-CD	D18	DC	CP	CHAMPAIGN/URBANA, IL
BLANK0000034661		344.5			
	WMEU-CD	D18	DC	CP	CHICAGO, IL
BLANK0000034599		203.3			
	WSEC	D18	DT	BL	JACKSONVILLE, IL
DTVBL70536		386.2			
	WGN-TV	D19	DT	LIC	CHICAGO, IL
BMLCDT20080201APP		203.3			
	WMTV	D19	DT	LIC	MADISON, WI
BLCDDT20100413AAW		3.9			

  

Service area		Terrain-limited		IX-free, before	
IX-free, after	Percent	New IX			
35723.1	1,945,147	35158.8	1,923,326	34445.2	1,803,034
34373.6	1,795,182	0.21	0.44		

  

Undesired	Total IX	Unique IX, before
Unique IX, after		
WMKB-LP D18z LD LIC	98.5	11,865
71.6 7,852		
WBME-CD D17 DC CP	405.6	103,316
341.2 94,004		
KYIN D18 DT LIC	62.5	1,043
60.5 1,043		
WMEU-CD D18 DC CP	269.8	24,337
176.4 11,024		
WSEC D18 DT BL	1.0	0
0.0 0		
WGN-TV D19 DT LIC	1.0	7
0.0 0		
WMTV D19 DT LIC	42.2	908
41.2 889		

## Interference to BLANK0000034381 CP, scenario 5

File Number	Call	Chan	Svc	Status	City, State
		Distance			

SMITH KHANNA & GULL, Inc. - Consulting Engineers

Desired: WMSN-TV D18 DT CP MADISON, WI  
 BLANK0000034381

Undesireds: WMKB-LP D18z LD LIC ROCHELLE, IL  
 WMKBCH189KW 120.9 km

KWQC-TV D17 DT CP DAVENPORT, IA  
 BLANK0000033932 184.7

WBME-CD D17 DC CP MILWAUKEE, WI  
 BLANK0000034630 130.4

KYIN D18 DT LIC MASON CITY, IA  
 BLEDT20090612AHJ 261.0

WBXC-CD D18 DC CP CHAMPAIGN/URBANA, IL  
 BLANK0000034661 344.5

WMEU-CD D18 DC BL CHICAGO, IL  
 DTVBL168662 203.3

WSEC D18 DT CP JACKSONVILLE, IL  
 BLANK0000034851 386.2

WGN-TV D19 DT LIC CHICAGO, IL  
 BMLCDT20080201APP 203.3

WMTV D19 DT LIC MADISON, WI  
 BLCDT20100413AAW 3.9

Service area	Terrain-limited	IX-free, before
IX-free, after	Percent New IX	
35723.1 1,945,147	35158.8 1,923,326	34474.4 1,805,212
34397.9 1,796,368	0.22 0.49	

Undesired	Total IX	Unique IX, before
Unique IX, after		
WMKB-LP D18z LD LIC 98.5 11,865		
76.6 8,844		
KWQC-TV D17 DT CP 11.0 185		
6.0 181		
WBME-CD D17 DC CP 405.6 103,316		
353.2 97,073		
KYIN D18 DT LIC 62.5 1,043		
58.5 1,042		
WMEU-CD D18 DC BL 212.6 18,881		
138.2 9,635		
WSEC D18 DT CP 13.9 28		
4.0 19		
WGN-TV D19 DT LIC 1.0 7		
0.0 0		
WMTV D19 DT LIC 42.2 908		
41.2 889		

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 Interference to BLANK0000034381 CP, scenario 6

Call	Chan	Svc	Status	City, State
File Number		Distance		

SMITH KHANNA & GULL, Inc. - Consulting Engineers

Desired: WMSN-TV D18 DT CP MADISON, WI  
 BLANK0000034381

Undesireds: WMKB-LP D18z LD LIC ROCHELLE, IL  
 WMKBCH189KW 120.9 km  
 KWQC-TV D17 DT CP DAVENPORT, IA  
 BLANK0000033932 184.7  
 WBME-CD D17 DC CP MILWAUKEE, WI  
 BLANK0000034630 130.4  
 KYIN D18 DT LIC MASON CITY, IA  
 BLEDT20090612AHJ 261.0  
 WBXC-CD D18 DC CP CHAMPAIGN/URBANA, IL  
 BLANK0000034661 344.5  
 WMEU-CD D18 DC BL CHICAGO, IL  
 DTVBL168662 203.3  
 WSEC D18 DT BL JACKSONVILLE, IL  
 DTVBL70536 386.2  
 WGN-TV D19 DT LIC CHICAGO, IL  
 BMLCDT20080201APP 203.3  
 WMTV D19 DT LIC MADISON, WI  
 BLCDT20100413AAW 3.9

Service area	Terrain-limited	IX-free, before
IX-free, after	Percent New IX	
35723.1 1,945,147	35158.8 1,923,326	34481.4 1,805,237
34401.8 1,796,387	0.23 0.49	

Undesired	Total IX	Unique IX, before
Unique IX, after		
WMKB-LP D18z LD LIC 98.5 11,865		
79.6 8,850		
KWQC-TV D17 DT CP 11.0 185		9.0 184
9.0 184		
WBME-CD D17 DC CP 405.6 103,316		353.2 97,073
353.2 97,073		
KYIN D18 DT LIC 62.5 1,043		59.5 1,042
59.5 1,042		
WMEU-CD D18 DC BL 212.6 18,881		157.2 12,650
138.2 9,635		
WSEC D18 DT BL 1.0 0		0.0 0
0.0 0		
WGN-TV D19 DT LIC 1.0 7		0.0 0
0.0 0		
WMTV D19 DT LIC 42.2 908		41.2 889
41.2 889		

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 Interference to BLANK0000034381 CP, scenario 7

File Number	Call	Chan	Svc	Status	City, State
				Distance	

SMITH KHANNA & GULL, Inc. - Consulting Engineers

Desired:	WMSN-TV	D18	DT	CP	MADISON, WI
BLANK0000034381					
Undesireds:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW		120.9	km		
	WBME-CD	D17	DC	CP	MILWAUKEE, WI
BLANK0000034630		130.4			
	KYIN	D18	DT	LIC	MASON CITY, IA
BLEDT20090612AHJ		261.0			
	WBXC-CD	D18	DC	CP	CHAMPAIGN/URBANA, IL
BLANK0000034661		344.5			
	WMEU-CD	D18	DC	BL	CHICAGO, IL
DTVBL168662		203.3			
	WSEC	D18	DT	CP	JACKSONVILLE, IL
BLANK0000034851		386.2			
	WGN-TV	D19	DT	LIC	CHICAGO, IL
BMLCDT20080201APP		203.3			
	WMTV	D19	DT	LIC	MADISON, WI
BLCDDT20100413AAW		3.9			

	Service area		Terrain-limited		IX-free, before
IX-free, after	Percent	New IX			
35723.1	1,945,147	35158.8	1,923,326	34480.4	1,805,393
34403.8	1,796,549	0.22	0.49		

Undesired			Total IX	Unique IX, before
Unique IX, after				
WMKB-LP D18z LD LIC	98.5	11,865		
76.6 8,844				
WBME-CD D17 DC CP	405.6	103,316	353.2	97,073
353.2 97,073				
KYIN D18 DT LIC	62.5	1,043	59.5	1,043
59.5 1,043				
WMEU-CD D18 DC BL	212.6	18,881	156.2	12,650
138.2 9,635				
WSEC D18 DT CP	13.9	28	9.9	28
7.0 22				
WGN-TV D19 DT LIC	1.0	7	0.0	0
0.0 0				
WMTV D19 DT LIC	42.2	908	41.2	889
41.2 889				

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Interference to BLANK0000034381 CP, scenario 8

File Number	Call	Chan	Svc	Status	City, State
		Distance			
Desired:	WMSN-TV	D18	DT	CP	MADISON, WI
BLANK0000034381					
Undesireds:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW		120.9	km		

SMITH KHANNA & GUILL, Inc. - Consulting Engineers

WBME-CD	D17	DC	CP	MILWAUKEE, WI
BLANK0000034630	130.4			
KYIN	D18	DT	LIC	MASON CITY, IA
BLEDT20090612AHJ	261.0			
WBXC-CD	D18	DC	CP	CHAMPAIGN/URBANA, IL
BLANK0000034661	344.5			
WMEU-CD	D18	DC	BL	CHICAGO, IL
DTVBL168662	203.3			
WSEC	D18	DT	BL	JACKSONVILLE, IL
DTVBL70536	386.2			
WGN-TV	D19	DT	LIC	CHICAGO, IL
BMLCDT20080201APP	203.3			
WMTV	D19	DT	LIC	MADISON, WI
BLCDDT20100413AAW	3.9			

Service area	Terrain-limited	IX-free, before
IX-free, after	Percent New IX	
35723.1	1,945,147	35158.8
34410.8	1,796,571	0.23
		0.49

Undesired	Total IX	Unique IX, before
Unique IX, after		
WMKB-LP D18z LD LIC	98.5	11,865
79.6	8,850	
WBME-CD D17 DC CP	405.6	103,316
353.2	97,073	353.2
KYIN D18 DT LIC	62.5	1,043
60.5	1,043	60.5
WMEU-CD D18 DC BL	212.6	18,881
139.2	9,635	158.2
WSEC D18 DT BL	1.0	0
0.0	0	0.0
WGN-TV D19 DT LIC	1.0	7
0.0	0	0.0
WMTV D19 DT LIC	42.2	908
41.2	889	41.2
		889

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 Interference to BLANK0000034381 CP, scenario 9

File Number	Call	Chan	Svc	Status	City, State
Desired:	WMSN-TV	D18	DT	CP	MADISON, WI
BLANK0000034381					
Undesireds:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW					120.9 km
	KWQC-TV	D17	DT	CP	DAVENPORT, IA
BLANK0000033932					184.7
	WBME-CD	D17	DC	BL	MILWAUKEE, WI
DTVBL71422					130.4

SMITH KHANNA & GUILL, Inc. - Consulting Engineers

KYIN	D18	DT	LIC	MASON CITY, IA
BLEDT20090612AHJ	261.0			
WBXC-CD	D18	DC	CP	CHAMPAIGN/URBANA, IL
BLANK0000034661	344.5			
WMEU-CD	D18	DC	CP	CHICAGO, IL
BLANK0000034599	203.3			
WSEC	D18	DT	CP	JACKSONVILLE, IL
BLANK0000034851	386.2			
WGN-TV	D19	DT	LIC	CHICAGO, IL
BMLCDT20080201APP	203.3			
WMTV	D19	DT	LIC	MADISON, WI
BLCDDT20100413AAW	3.9			

Service area	Terrain-limited	IX-free, before
IX-free, after	Percent New IX	
35723.1	1,945,147	35158.8
34372.7	1,797,366	0.21
		0.43

Undesired	Total IX	Unique IX, before
Unique IX, after		
WMKB-LP D18z LD LIC	98.5	11,865
71.6	7,852	
KWQC-TV D17 DT CP	11.0	185
6.0	181	6.0
181		181
WBME-CD D17 DC BL	386.5	100,469
329.1	91,617	329.1
91,617		91,617
KYIN D18 DT LIC	62.5	1,043
58.5	1,042	58.5
1,042		1,042
WMEU-CD D18 DC CP	269.8	24,337
182.5	11,484	205.4
11,484		15,491
WSEC D18 DT CP	13.9	28
4.0	19	4.0
19		19
WGN-TV D19 DT LIC	1.0	7
0.0	0	0.0
0		0
WMTV D19 DT LIC	42.2	908
41.2	889	41.2
889		889

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 Interference to BLANK0000034381 CP, scenario 10

File Number	Call	Chan	Svc	Status	City, State
Desired:	WMSN-TV	D18	DT	CP	MADISON, WI
BLANK0000034381					
Undesireds:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW					
					120.9 km
	KWQC-TV	D17	DT	CP	DAVENPORT, IA
BLANK0000033932					184.7
	WBME-CD	D17	DC	BL	MILWAUKEE, WI
DTVBL71422					130.4

SMITH KHANNA & GUILL, Inc. - Consulting Engineers

KYIN	D18	DT	LIC	MASON CITY, IA
BLEDT20090612AHJ	261.0			
WBXC-CD	D18	DC	CP	CHAMPAIGN/URBANA, IL
BLANK0000034661	344.5			
WMEU-CD	D18	DC	CP	CHICAGO, IL
BLANK0000034599	203.3			
WSEC	D18	DT	BL	JACKSONVILLE, IL
DTVBL70536	386.2			
WGN-TV	D19	DT	LIC	CHICAGO, IL
BMLCDT20080201APP	203.3			
WMTV	D19	DT	LIC	MADISON, WI
BLCDDT20100413AAW	3.9			

Service area	Terrain-limited	IX-free, before
IX-free, after	Percent New IX	
35723.1	1,945,147	35158.8
34376.7	1,797,385	0.21
		0.43

Undesired	Total IX	Unique IX, before
Unique IX, after		
WMKB-LP D18z LD LIC	98.5	11,865
71.6	7,852	
KWQC-TV D17 DT CP	11.0	185
9.0	184	9.0
WBME-CD D17 DC BL	386.5	100,469
329.1	91,617	329.1
KYIN D18 DT LIC	62.5	1,043
59.5	1,042	59.5
WMEU-CD D18 DC CP	269.8	24,337
182.5	11,484	209.4
WSEC D18 DT BL	1.0	0
0.0	0	0.0
WGN-TV D19 DT LIC	1.0	7
0.0	0	0.0
WMTV D19 DT LIC	42.2	908
41.2	889	41.2

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 Interference to BLANK0000034381 CP, scenario 11

File Number	Call	Chan	Svc	Status	City, State
Desired:	WMSN-TV	D18	DT	CP	MADISON, WI
BLANK0000034381					
Undesireds:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW					
	WBME-CD	D17	DC	BL	MILWAUKEE, WI
DTVBL71422					
	KYIN	D18	DT	LIC	MASON CITY, IA
BLEDT20090612AHJ					

WBXC-CD	D18	DC	CP	CHAMPAIGN/URBANA, IL
BLANK0000034661	344.5			
WMEU-CD	D18	DC	CP	CHICAGO, IL
BLANK0000034599	203.3			
WSEC	D18	DT	CP	JACKSONVILLE, IL
BLANK0000034851	386.2			
WGN-TV	D19	DT	LIC	CHICAGO, IL
BMLCDT20080201APP	203.3			
WMTV	D19	DT	LIC	MADISON, WI
BLCDDT20100413AAW	3.9			

Service area	Terrain-limited	IX-free, before
IX-free, after	Percent New IX	
35723.1	1,945,147	35158.8
34378.7	1,797,547	0.21
		0.43

Undesired	Total IX	Unique IX, before
Unique IX, after		
WMKB-LP D18z LD LIC	98.5	11,865
71.6	7,852	
WBME-CD D17 DC BL	386.5	100,469
329.1	91,617	329.1
KYIN D18 DT LIC	62.5	1,043
59.5	1,043	59.5
WMEU-CD D18 DC CP	269.8	24,337
182.5	11,484	205.4
WSEC D18 DT CP	13.9	28
7.0	22	7.0
WGN-TV D19 DT LIC	1.0	7
0.0	0	0.0
WMTV D19 DT LIC	42.2	908
41.2	889	41.2
		889

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Interference to BLANK0000034381 CP, scenario 12

File Number	Call	Chan	Svc	Status	City, State
Desired:	WMSN-TV	D18	DT	CP	MADISON, WI
BLANK0000034381					
Undesireds:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW					120.9 km
	WBME-CD	D17	DC	BL	MILWAUKEE, WI
DTVBL71422					130.4
	KYIN	D18	DT	LIC	MASON CITY, IA
BLEDT20090612AHJ					261.0
	WBXC-CD	D18	DC	CP	CHAMPAIGN/URBANA, IL
BLANK0000034661					344.5
	WMEU-CD	D18	DC	CP	CHICAGO, IL
BLANK0000034599					203.3



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DTVBL70536	WSEC	D18	DT	BL	JACKSONVILLE, IL
		386.2			
BMLCDT20080201APP	WGN-TV	D19	DT	LIC	CHICAGO, IL
		203.3			
BLCDDT20100413AAW	WMTV	D19	DT	LIC	MADISON, WI
		3.9			

IX-free, after	Service area	Percent	Terrain-limited	IX-free, before	IX-free, before
		New IX			
35723.1	1,945,147	35158.8	1,923,326	34457.3	1,805,421
34385.6	1,797,569	0.21	0.43		

Undesired		Total IX	Unique IX, before
Unique IX, after			
WMKB-LP D18z LD LIC	98.5	11,865	
71.6 7,852			
WBME-CD D17 DC BL	386.5	100,469	329.1 91,617
329.1 91,617			
KYIN D18 DT LIC	62.5	1,043	60.5 1,043
60.5 1,043			
WMEU-CD D18 DC CP	269.8	24,337	210.4 15,497
183.5 11,484			
WSEC D18 DT BL	1.0	0	0.0 0
0.0 0			
WGN-TV D19 DT LIC	1.0	7	0.0 0
0.0 0			
WMTV D19 DT LIC	42.2	908	41.2 889
41.2 889			

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 Interference to BLANK0000034381 CP, scenario 13

File Number	Call	Chan	Svc	Status	City, State
		Distance			
Desired:	WMSN-TV	D18	DT	CP	MADISON, WI
BLANK0000034381					
Undesireds:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW		120.9	km		
	KWQC-TV	D17	DT	CP	DAVENPORT, IA
BLANK0000033932		184.7			
	WBME-CD	D17	DC	BL	MILWAUKEE, WI
DTVBL71422		130.4			
	KYIN	D18	DT	LIC	MASON CITY, IA
BLEDT20090612AHJ		261.0			
	WBXC-CD	D18	DC	CP	CHAMPAIGN/URBANA, IL
BLANK0000034661		344.5			
	WMEU-CD	D18	DC	BL	CHICAGO, IL
DTVBL168662		203.3			
	WSEC	D18	DT	CP	JACKSONVILLE, IL
BLANK0000034851		386.2			

SMITH KHANNA & GULL, Inc. - Consulting Engineers

WGN-TV	D19	DT	LIC	CHICAGO, IL
BMLCDT20080201APP	203.3			
WMTV	D19	DT	LIC	MADISON, WI
BLCDT20100413AAW	3.9			

Service area	Terrain-limited	IX-free, before
IX-free, after	Percent New IX	
35723.1	1,945,147	35158.8
34409.9	1,798,755	0.22
		0.49

Undesired	Total IX	Unique IX, before
Unique IX, after		
WMKB-LP D18z LD LIC	98.5	11,865
76.6	8,844	
KWQC-TV D17 DT CP	11.0	185
6.0	181	6.0
181		181
WBME-CD D17 DC BL	386.5	100,469
341.2	94,686	341.2
94,686		94,686
KYIN D18 DT LIC	62.5	1,043
58.5	1,042	58.5
1,042		1,042
WMEU-CD D18 DC BL	212.6	18,881
145.3	10,095	163.3
10,095		13,110
WSEC D18 DT CP	13.9	28
4.0	19	7.0
19		25
WGN-TV D19 DT LIC	1.0	7
0.0	0	0.0
0		0
WMTV D19 DT LIC	42.2	908
41.2	889	41.2
889		889

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Interference to BLANK0000034381 CP, scenario 14

File Number	Call	Chan	Svc	Status	City, State
Desired:	WMSN-TV	D18	DT	CP	MADISON, WI
BLANK0000034381					
Undesireds:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW					120.9 km
	KWQC-TV	D17	DT	CP	DAVENPORT, IA
BLANK0000033932					184.7
	WBME-CD	D17	DC	BL	MILWAUKEE, WI
DTVBL71422					130.4
	KYIN	D18	DT	LIC	MASON CITY, IA
BLEDT20090612AHJ					261.0
	WBXC-CD	D18	DC	CP	CHAMPAIGN/URBANA, IL
BLANK0000034661					344.5
	WMEU-CD	D18	DC	BL	CHICAGO, IL
DTVBL168662					203.3
	WSEC	D18	DT	BL	JACKSONVILLE, IL
DTVBL70536					386.2

SMITH KHANNA & GULL, Inc. - Consulting Engineers

WGN-TV	D19	DT	LIC	CHICAGO, IL
BMLCDT20080201APP	203.3			
WMTV	D19	DT	LIC	MADISON, WI
BLCDT20100413AAW	3.9			

Service area	Terrain-limited	IX-free, before
IX-free, after	Percent New IX	
35723.1	1,945,147	35158.8
34413.9	1,798,774	0.23
		0.49

Undesired	Total IX	Unique IX, before
Unique IX, after		
WMKB-LP D18z LD LIC	98.5	11,865
79.6	8,850	
KWQC-TV D17 DT CP	11.0	185
9.0	184	9.0
9.0	184	184
WBME-CD D17 DC BL	386.5	100,469
341.2	94,686	341.2
341.2	94,686	94,686
KYIN D18 DT LIC	62.5	1,043
59.5	1,042	59.5
59.5	1,042	1,042
WMEU-CD D18 DC BL	212.6	18,881
145.3	10,095	164.3
145.3	10,095	13,110
WSEC D18 DT BL	1.0	0
0.0	0	0.0
0.0	0	0
WGN-TV D19 DT LIC	1.0	7
0.0	0	0.0
0.0	0	0
WMTV D19 DT LIC	42.2	908
41.2	889	41.2
41.2	889	889

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Interference to BLANK0000034381 CP, scenario 15

File Number	Call	Chan	Svc	Status	City, State
Desired:	WMSN-TV	D18	DT	CP	MADISON, WI
BLANK0000034381					
Undesireds:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW					120.9 km
	WBME-CD	D17	DC	BL	MILWAUKEE, WI
DTVBL71422					130.4
	KYIN	D18	DT	LIC	MASON CITY, IA
BLEDT20090612AHJ					261.0
	WBXC-CD	D18	DC	CP	CHAMPAIGN/URBANA, IL
BLANK0000034661					344.5
	WMEU-CD	D18	DC	BL	CHICAGO, IL
DTVBL168662					203.3
	WSEC	D18	DT	CP	JACKSONVILLE, IL
BLANK0000034851					386.2
	WGN-TV	D19	DT	LIC	CHICAGO, IL
BMLCDT20080201APP					203.3

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WMTV D19 DT LIC MADISON, WI  
BLCDT20100413AAW 3.9

Service area	Terrain-limited	IX-free, before
IX-free, after	Percent New IX	
35723.1 1,945,147	35158.8 1,923,326	34492.5 1,807,780
34415.9 1,798,936	0.22 0.49	

Undesired	Total IX	Unique IX, before
Unique IX, after		
WMKB-LP D18z LD LIC 98.5 11,865		
76.6 8,844		
WBME-CD D17 DC BL 386.5 100,469	341.2	94,686
341.2 94,686		
KYIN D18 DT LIC 62.5 1,043	59.5	1,043
59.5 1,043		
WMEU-CD D18 DC BL 212.6 18,881	163.3	13,110
145.3 10,095		
WSEC D18 DT CP 13.9 28	9.9	28
7.0 22		
WGN-TV D19 DT LIC 1.0 7	0.0	0
0.0 0		
WMTV D19 DT LIC 42.2 908	41.2	889
41.2 889		

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Interference to BLANK0000034381 CP, scenario 16

File Number	Call	Chan	Svc	Status	City, State
		Distance			
Desired:	WMSN-TV	D18 DT CP			MADISON, WI
BLANK0000034381					
Undesireds:	WMKB-LP	D18z LD LIC			ROCHELLE, IL
WMKBCH189KW		120.9 km			
	WBME-CD	D17 DC BL			MILWAUKEE, WI
DTVBL71422		130.4			
	KYIN	D18 DT LIC			MASON CITY, IA
BLEDT20090612AHJ		261.0			
	WBXC-CD	D18 DC CP			CHAMPAIGN/URBANA, IL
BLANK0000034661		344.5			
	WMEU-CD	D18 DC BL			CHICAGO, IL
DTVBL168662		203.3			
	WSEC	D18 DT BL			JACKSONVILLE, IL
DTVBL70536		386.2			
	WGN-TV	D19 DT LIC			CHICAGO, IL
BMLCDT20080201APP		203.3			
	WMTV	D19 DT LIC			MADISON, WI
BLCDT20100413AAW		3.9			

Service area	Terrain-limited	IX-free, before
IX-free, after	Percent New IX	

35723.1	1,945,147	35158.8	1,923,326	34502.4	1,807,808
34422.8	1,798,958	0.23	0.49		

Undesired			Total IX	Unique IX, before	
Unique IX, after					
WMKB-LP D18z LD LIC	98.5		11,865		
79.6	8,850				
WBME-CD D17 DC BL	386.5		100,469	341.2	94,686
341.2	94,686				
KYIN D18 DT LIC	62.5		1,043	60.5	1,043
60.5	1,043				
WMEU-CD D18 DC BL	212.6		18,881	165.3	13,110
146.3	10,095				
WSEC D18 DT BL	1.0		0	0.0	0
0.0	0				
WGN-TV D19 DT LIC	1.0		7	0.0	0
0.0	0				
WMTV D19 DT LIC	42.2		908	41.2	889
41.2	889				

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 Interference to BLCDDT20101012ADH LIC, scenario 1

File Number	Call	Chan	Svc	Status	City, State
Desired:	WVTV	D18	DT	LIC	MILWAUKEE, WI
BLCDDT20101012ADH					
Undesireds:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW					162.1 km
	WBME-CD	D17	DC	CP	MILWAUKEE, WI
BLANK0000034630					2.7
	WMEU-CD	D18	DC	CP	CHICAGO, IL
BLANK0000034599					137.1
	WMSN-TV	D18	DT	CP	MADISON, WI
BLANK0000034381					132.5
	WGN-TV	D19	DT	LIC	CHICAGO, IL
BMLCDDT20080201APP					137.1
	WMTV	D19	DT	LIC	MADISON, WI
BLCDDT20100413AAW					128.6

	Service area		Terrain-limited	IX-free, before	
IX-free, after	Percent	New IX			
27019.7	2,997,443	26830.4	2,982,759	19323.3	2,116,567
19323.3	2,116,567	0.00	0.00		

Undesired			Total IX	Unique IX, before	
Unique IX, after					
WMKB-LP D18z LD LIC	8.1		164		
0.0	0				
WBME-CD D17 DC CP	22.1		871	3.0	83
3.0	83				

WMEU-CD D18 DC CP	2287.3	543,462	1659.5	372,218
1659.5 372,218				
WMSN-TV D18 DT CP	5573.4	379,027	4667.7	294,731
4663.7 294,663				
WGN-TV D19 DT LIC	293.1	126,130	0.0	0
0.0 0				
WMTV D19 DT LIC	564.1	28,896	13.0	776
13.0 776				

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Interference to BMLCDT20080201APP LIC, scenario 1

File Number	Call	Chan	Svc	Status	City, State
Desired:	WGN-TV	D19	DT	LIC	CHICAGO, IL
BMLCDT20080201APP					
Undesireds:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW				130.2 km	
	WBXC-CD	D18	DC	CP	CHAMPAIGN/URBANA, IL
BLANK0000034661				203.0	
	WMEU-CD	D18	DC	CP	CHICAGO, IL
BLANK0000034599				0.0	
	WMSN-TV	D18	DT	CP	MADISON, WI
BLANK0000034381				203.3	
	WIPB	D19	DT	CP	MUNCIE, IN
BLANK0000027189				273.5	
	WXMI	D19	DT	LIC	GRAND RAPIDS, MI
BLCDDT20030117ABD				194.9	
	WTPX-TV	D19	DT	CP	ANTIGO, WI
BLANK0000053001				382.1	
	WMTV	D19	DT	LIC	MADISON, WI
BLCDDT20100413AAW				200.0	
	WLWK-CD	D19	DC	CP	STURGEON BAY, WI
BLANK0000026768				336.9	
	WWME-CD	D20	DC	CP	CHICAGO, IL
BLANK0000034604				0.0	
	WHA-TV	D20	DT	APP	MADISON, WI
BLANK0000035690				203.3	

Service area		Terrain-limited		IX-free, before	
IX-free, after	Percent	New	IX		
33064.4	9,944,644	33012.1	9,941,222	31129.4	9,837,355
31114.4	9,837,289	0.05	0.00		

Undesired	Total IX	Unique IX, before
Unique IX, after		
WMKB-LP D18z LD LIC	166.6	7,232
15.0 66		
WMSN-TV D18 DT CP	3.0	28
0.0 0		0.0 0

WIPB D19 DT CP	131.0	2,134	12.0	270
12.0				270
WXMI D19 DT LIC	547.5	18,922	250.0	7,579
248.0				7,276
WMTV D19 DT LIC	1509.7	94,164	1322.1	84,657
1253.3				82,410
WHA-TV D20 DT APP	1.0	10	0.0	0
0.0				0

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 Interference to BMLCDT20080201APP LIC, scenario 2

File Number	Call	Chan	Svc	Status	City, State
Desired:	WGN-TV	D19	DT	LIC	CHICAGO, IL
BMLCDT20080201APP					
Undesireds:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW				130.2 km	
	WBXC-CD	D18	DC	CP	CHAMPAIGN/URBANA, IL
BLANK0000034661				203.0	
	WMEU-CD	D18	DC	CP	CHICAGO, IL
BLANK0000034599				0.0	
	WMSN-TV	D18	DT	CP	MADISON, WI
BLANK0000034381				203.3	
	WIPB	D19	DT	CP	MUNCIE, IN
BLANK0000027189				273.5	
	WXMI	D19	DT	LIC	GRAND RAPIDS, MI
BMLCDT20030117ABD				194.9	
	WTPX-TV	D19	DT	CP	ANTIGO, WI
BLANK0000053001				382.1	
	WMTV	D19	DT	LIC	MADISON, WI
BMLCDT20100413AAW				200.0	
	WLWK-CD	D19	DC	CP	STURGEON BAY, WI
BLANK0000026768				336.9	
	WWME-CD	D20	DC	CP	CHICAGO, IL
BLANK0000034604				0.0	

Service area	Terrain-limited	IX-free, before
IX-free, after	Percent New IX	
33064.4	9,944,644	33012.1
31114.4	9,837,289	0.05
		0.00

Undesired	Total IX	Unique IX, before
Unique IX, after		
WMKB-LP D18z LD LIC	166.6	7,232
15.0		
66		
WMSN-TV D18 DT CP	3.0	28
0.0		
0		
WIPB D19 DT CP	131.0	2,134
12.0		
270		

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WXMI D19 DT LIC	547.5	18,922	250.0	7,579
248.0 7,276				
WMTV D19 DT LIC	1509.7	94,164	1322.1	84,657
1253.3 82,410				

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Interference to BMLCDT20080201APP LIC, scenario 3

File Number	Call	Chan	Svc	Status	City, State
Desired:	WGN-TV	D19	DT	LIC	CHICAGO, IL
BMLCDT20080201APP					
Undesireds:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW				130.2 km	
	WBXC-CD	D18	DC	CP	CHAMPAIGN/URBANA, IL
BLANK0000034661				203.0	
	WMEU-CD	D18	DC	CP	CHICAGO, IL
BLANK0000034599				0.0	
	WIPB	D19	DT	CP	MUNCIE, IN
BLANK0000027189				273.5	
	WXMI	D19	DT	LIC	GRAND RAPIDS, MI
BLCDDT20030117ABD				194.9	
	WTPX-TV	D19	DT	CP	ANTIGO, WI
BLANK0000053001				382.1	
	WMTV	D19	DT	LIC	MADISON, WI
BLCDDT20100413AAW				200.0	
	WLWK-CD	D19	DC	CP	STURGEON BAY, WI
BLANK0000026768				336.9	
	WWME-CD	D20	DC	CP	CHICAGO, IL
BLANK0000034604				0.0	
	WHA-TV	D20	DT	APP	MADISON, WI
BLANK0000035690				203.3	

Service area	Terrain-limited	IX-free, before
IX-free, after	Percent New IX	
33064.4 9,944,644	33012.1 9,941,222	31129.4 9,837,355
31114.4 9,837,289	0.05 0.00	

Undesired	Total IX	Unique IX, before
Unique IX, after		
WMKB-LP D18z LD LIC	166.6	7,232
15.0 66		
WIPB D19 DT CP	131.0	12.0 270
12.0 270		
WXMI D19 DT LIC	547.5	250.0 7,579
248.0 7,276		
WMTV D19 DT LIC	1509.7	1323.1 84,675
1254.3 82,428		
WHA-TV D20 DT APP	1.0	0.0 0
0.0 0		



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Interference to BMLCDT20080201APP LIC, scenario 4

File Number	Call	Chan	Svc	Status	City, State
Desired:	WGN-TV	D19	DT	LIC	CHICAGO, IL
BMLCDT20080201APP					
Undesireds:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW					130.2 km
	WBXC-CD	D18	DC	CP	CHAMPAIGN/URBANA, IL
BLANK0000034661					203.0
	WMEU-CD	D18	DC	CP	CHICAGO, IL
BLANK0000034599					0.0
	WIPB	D19	DT	CP	MUNCIE, IN
BLANK0000027189					273.5
	WXMI	D19	DT	LIC	GRAND RAPIDS, MI
BMLCDT20030117ABD					194.9
	WTPX-TV	D19	DT	CP	ANTIGO, WI
BLANK0000053001					382.1
	WMTV	D19	DT	LIC	MADISON, WI
BMLCDT20100413AAW					200.0
	WLWK-CD	D19	DC	CP	STURGEON BAY, WI
BLANK0000026768					336.9
	WWME-CD	D20	DC	CP	CHICAGO, IL
BLANK0000034604					0.0

  

Service area		Terrain-limited		IX-free, before	
IX-free, after	Percent	New	IX		
33064.4	9,944,644	33012.1	9,941,222	31129.4	9,837,355
31114.4	9,837,289	0.05	0.00		

  

Undesired	Total IX	Unique IX, before
Unique IX, after		
WMKB-LP D18z LD LIC	166.6	7,232
15.0 66		
WIPB D19 DT CP	131.0	2,134
12.0 270		
WXMI D19 DT LIC	547.5	18,922
248.0 7,276		
WMTV D19 DT LIC	1509.7	94,164
1254.3 82,428		

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Interference to BMLCDT20080201APP LIC, scenario 5

File Number	Call	Chan	Svc	Status	City, State
Desired:	WGN-TV	D19	DT	LIC	CHICAGO, IL
BMLCDT20080201APP					

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Undesireds:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW		130.2	km		
	WBXC-CD	D18	DC	CP	CHAMPAIGN/URBANA, IL
BLANK0000034661		203.0			
	WMEU-CD	D18	DC	CP	CHICAGO, IL
BLANK0000034599		0.0			
	WMSN-TV	D18	DT	CP	MADISON, WI
BLANK0000034381		203.3			
	WIPB	D19	DT	BL	MUNCIE, IN
DTVBL3646		273.5			
	WXMI	D19	DT	LIC	GRAND RAPIDS, MI
BLCDT20030117ABD		194.9			
	WTPX-TV	D19	DT	CP	ANTIGO, WI
BLANK0000053001		382.1			
	WMTV	D19	DT	LIC	MADISON, WI
BLCDT20100413AAW		200.0			
	WLWK-CD	D19	DC	CP	STURGEON BAY, WI
BLANK0000026768		336.9			
	WWME-CD	D20	DC	CP	CHICAGO, IL
BLANK0000034604		0.0			
	WHA-TV	D20	DT	APP	MADISON, WI
BLANK0000035690		203.3			

Service area		Terrain-limited		IX-free, before	
IX-free, after	Percent	New IX			
33064.4	9,944,644	33012.1	9,941,222	31129.4	9,837,355
31114.4	9,837,289	0.05	0.00		

Undesired		Total IX	Unique IX, before	
Unique IX, after				
WMKB-LP D18z LD LIC	166.6	7,232		
15.0 66				
WMSN-TV D18 DT CP	3.0	28	0.0	0
0.0 0				
WIPB D19 DT BL	132.1	2,150	12.0	270
12.0 270				
WXMI D19 DT LIC	547.5	18,922	249.0	7,563
247.0 7,260				
WMTV D19 DT LIC	1509.7	94,164	1322.1	84,657
1253.3 82,410				
WHA-TV D20 DT APP	1.0	10	0.0	0
0.0 0				

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 Interference to BMLCDT20080201APP LIC, scenario 6

File Number	Call	Chan	Svc	Status	City, State
		Distance			
Desired:	WGN-TV	D19	DT	LIC	CHICAGO, IL
BMLCDT20080201APP					

SMITH KHANNA & GULL, Inc. - Consulting Engineers

Undesireds:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW		130.2	km		
	WBXC-CD	D18	DC	CP	CHAMPAIGN/URBANA, IL
BLANK0000034661		203.0			
	WMEU-CD	D18	DC	CP	CHICAGO, IL
BLANK0000034599		0.0			
	WMSN-TV	D18	DT	CP	MADISON, WI
BLANK0000034381		203.3			
	WIPB	D19	DT	BL	MUNCIE, IN
DTVBL3646		273.5			
	WXMI	D19	DT	LIC	GRAND RAPIDS, MI
BLCDT20030117ABD		194.9			
	WTPX-TV	D19	DT	CP	ANTIGO, WI
BLANK0000053001		382.1			
	WMTV	D19	DT	LIC	MADISON, WI
BLCDT20100413AAW		200.0			
	WLWK-CD	D19	DC	CP	STURGEON BAY, WI
BLANK0000026768		336.9			
	WWME-CD	D20	DC	CP	CHICAGO, IL
BLANK0000034604		0.0			

Service area		Terrain-limited		IX-free, before	
IX-free, after	Percent	New	IX		
33064.4	9,944,644	33012.1	9,941,222	31129.4	9,837,355
31114.4	9,837,289	0.05	0.00		

Undesired		Total IX	Unique IX, before	
Unique IX, after				
WMKB-LP D18z LD LIC	166.6	7,232		
15.0 66				
WMSN-TV D18 DT CP	3.0	28	0.0	0
0.0 0				
WIPB D19 DT BL	132.1	2,150	12.0	270
12.0 270				
WXMI D19 DT LIC	547.5	18,922	249.0	7,563
247.0 7,260				
WMTV D19 DT LIC	1509.7	94,164	1322.1	84,657
1253.3 82,410				

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 Interference to BMLCDT20080201APP LIC, scenario 7

File Number	Call	Chan	Svc	Status	City, State
		Distance			
Desired:	WGN-TV	D19	DT	LIC	CHICAGO, IL
BMLCDT20080201APP					
Undesireds:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW		130.2	km		
	WBXC-CD	D18	DC	CP	CHAMPAIGN/URBANA, IL
BLANK0000034661		203.0			

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WMEU-CD	D18	DC	CP	CHICAGO, IL
BLANK0000034599	0.0			
WIPB	D19	DT	BL	MUNCIE, IN
DTVBL3646	273.5			
WXMI	D19	DT	LIC	GRAND RAPIDS, MI
BLCDT20030117ABD	194.9			
WTPX-TV	D19	DT	CP	ANTIGO, WI
BLANK0000053001	382.1			
WMTV	D19	DT	LIC	MADISON, WI
BLCDT20100413AAW	200.0			
WLWK-CD	D19	DC	CP	STURGEON BAY, WI
BLANK0000026768	336.9			
WWME-CD	D20	DC	CP	CHICAGO, IL
BLANK0000034604	0.0			
WHA-TV	D20	DT	APP	MADISON, WI
BLANK0000035690	203.3			

Service area	Terrain-limited	IX-free, before
IX-free, after	Percent New IX	
33064.4	9,944,644	33012.1 9,941,222 31129.4 9,837,355
31114.4	9,837,289	0.05 0.00

Undesired	Total IX	Unique IX, before
Unique IX, after		
WMKB-LP D18z LD LIC	166.6	7,232
15.0 66		
WIPB D19 DT BL	132.1	12.0 270
12.0 270		
WXMI D19 DT LIC	547.5	18,922 249.0 7,563
247.0 7,260		
WMTV D19 DT LIC	1509.7	94,164 1323.1 84,675
1254.3 82,428		
WHA-TV D20 DT APP	1.0	10 0.0 0
0.0 0		

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Interference to BMLCDT20080201APP LIC, scenario 8

File Number	Call	Chan	Svc	Status	City, State
Desired:	WGN-TV	D19	DT	LIC	CHICAGO, IL
BMLCDT20080201APP					
Undesireds:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW		130.2	km		
	WBXC-CD	D18	DC	CP	CHAMPAIGN/URBANA, IL
BLANK0000034661		203.0			
	WMEU-CD	D18	DC	CP	CHICAGO, IL
BLANK0000034599		0.0			
	WIPB	D19	DT	BL	MUNCIE, IN
DTVBL3646		273.5			

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WXMI	D19	DT	LIC	GRAND RAPIDS, MI
BLCDT20030117ABD	194.9			
WTPX-TV	D19	DT	CP	ANTIGO, WI
BLANK0000053001	382.1			
WMTV	D19	DT	LIC	MADISON, WI
BLCDT20100413AAW	200.0			
WLWK-CD	D19	DC	CP	STURGEON BAY, WI
BLANK0000026768	336.9			
WWME-CD	D20	DC	CP	CHICAGO, IL
BLANK0000034604	0.0			

Service area	Terrain-limited	IX-free, before
IX-free, after	Percent New IX	
33064.4	9,944,644	33012.1
31114.4	9,837,289	0.05
		0.00

Undesired	Total IX	Unique IX, before
Unique IX, after		
WMKB-LP D18z LD LIC	166.6	7,232
15.0	66	
WIPB D19 DT BL	132.1	2,150
12.0	270	12.0
WXMI D19 DT LIC	547.5	18,922
247.0	7,260	249.0
WMTV D19 DT LIC	1509.7	94,164
1254.3	82,428	1323.1
		84,675

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 Interference to proposal, scenario 1  
 7.69% interference

File Number	Call	Chan	Svc	Status	City, State
Desired:	WMKB-LP	D18z	LD	LIC	ROCHELLE, IL
WMKBCH189KW					
Undesireds:	WIDN-LD	D17	LD	LIC	ROCKFORD, IL
BLANK0000008118		39.5	km		
	WMEU-CD	D18	DC	CP	CHICAGO, IL
BLANK0000034599		130.2			
	WMSN-TV	D18	DT	CP	MADISON, WI
BLANK0000034381		120.9			

Service area	Terrain-limited	IX-free
Percent IX		
1863.6	110,354	1863.6
19.03	7.69	110,354
		1509.0
		101,865
Undesired	Total IX	Unique IX
Prcnt Unique IX		
WMEU-CD D18 DC CP	174.1	3,387
7.19	1.51	134.0
		1,671

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WMSN-TV	D18	DT	CP	220.6	6,818	180.5	5,102
9.69		4.62					

WMKB Antenna Pattern  
Pre-Rotation Antenna Pattern....

Azimuth (deg)	Relative Field
0.0	0.01
10.0	0.01
20.0	0.01
30.0	0.01
40.0	0.01
50.0	0.086
60.0	0.361
70.0	0.622
80.0	0.812
90.0	0.947
100.0	1.0
110.0	0.947
120.0	0.812
130.0	0.622
140.0	0.361
150.0	0.086
160.0	0.01
170.0	0.01
180.0	0.01
190.0	0.01
200.0	0.01
210.0	0.01
220.0	0.01
230.0	0.01
240.0	0.01
250.0	0.01
260.0	0.01
270.0	0.01
280.0	0.01
290.0	0.01
300.0	0.01
310.0	0.01
320.0	0.01
330.0	0.01
340.0	0.01
350.0	0.01

Rotation Angle = 0

