

WACY-TV ENGINEERING STATEMENT

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Scripps Broadcasting Holdings, LLC
Appleton, WI

The attached application is prepared on behalf of Scripps Broadcasting Holdings, LLC, licensee of WACY-TV - Appleton, Wisconsin. WACY-TV is presently licensed to operate on Channel 27 with a maximum effective radiated power of 50 kilowatts at 297.3 meters above average terrain using a directional antenna. This application proposes operation on Channel 36 using the presently licensed antenna with a maximum effective radiated power of 65 kilowatts to replicate as closely as possible the post-repack facilities authorized for WACY-TV.

A separate exhibit provides details on this existing antenna on Channel 36, which was supplied by the antenna manufacturer. Although the WACY-TV modifications won't result in any change in the overall height of this tower, the installation of a new top mounted antenna to permit co-located WGBA-TV to move to Channel 14 will reduce the overall height of this tower from 321.6 meters AGL to 313.3 meters AGL. Because it doesn't appear that the LMS filing system will permit the overall height of a registered tower to be modified before the registration has been modified, the attached application specifies the presently registered height of this tower. This will be modified once an updated FAA approval has been received and the registration for this tower (1034782) has been modified to reflect the reduced height.

This exhibit includes the results of the FCC's TV Study program for the proposed facilities. Although the proposed facilities will result in a slight extension of the predicted 40.9 dBu noise limited contour in several directions, it won't result in this contour extending more than 1% further than that predicted for WACY-TV's authorized post-repack facilities in any direction. Furthermore, this data shows that these proposed

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facilities won't be predicted to cause any new or increased interference exceeding the 0.5% de minimis value permitted by the FCC Rules to any other post-repack facilities requiring protection consideration. It also shows that these proposed facilities will be predicted to provide noise limited interference free service to 917,847 people, or 99.92% of the 918,560 people predicted to receive noise limited interference free service from WACY-TV's post-repack allotment facilities. Based on this information, this limited contour extension is permitted by Paragraph 19 of the FCC's January 27, 2017 Procedures Public Notice (DA 17-106).

The predicted 48 dBu principal community contour for the proposed facilities will totally encompass Appleton, as required by Section 73.625(a) of the FCC Rules.

A separate exhibit attached to this application documents that the proposed WACY-TV facilities will comply with the FCC's requirements regarding human exposure to nonionizing radiation.

WACY-TV TV Study Results
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tvstudy v2.2.2

Database: localhost, Study: WACY-TV 65 KW, Model: Longley-Rice

Start: 2017.06.23 19:00:45

Study created: 2017.06.23 18:58:49

Study build station data: LMS TV 2017-06-22 (6)

Proposal: WACY-TV D36 DT APP Appleton, WI

Facility ID: 361

Station data: User record

Record ID: 17

Country: U.S.

Zone: II

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
WLUC-TV	D35	DT	LIC	MARQUETTE, MI	BLCDT20040202ALY	220.1 km
WPBN-TV	D35	DT	BL	TRAVERSE CITY, MI	DTVBL21253	234.6
WQRF-TV	D36	DT	BL	ROCKFORD, IL	DTVBL52408	249.5
WCCU	D36	DT	BL	URBANA, IL	DTVBL69544	449.7
WHME-TV	D36	DT	APP	SOUTH BEND, IN	BLANK0000025171	340.9
WHME-TV	D36	DT	BL	SOUTH BEND, IN	DTVBL36117	340.9
WAQP	D36	DT	BL	SAGINAW, MI	DTVBL67792	339.4
KAAL	D36	DT	LIC	AUSTIN, MN	BLCDT20091110AAF	372.1
WMKE-CD	D36	DC	BL	MILWAUKEE, WI	DTVBL35091	140.4
WLEF-TV	D36	DT	LIC	PARK FALLS, WI	BLEDT20110323ABO	251.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

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Record parameters as studied:

Channel: D36
Latitude: 44 21 30.00 N (NAD83)
Longitude: 87 58 48.40 W
Height AMSL: 541.1 m
HAAT: 297.3 m
Peak ERP: 65.0 kW
Antenna: 0.0 deg

40.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	60.9 kW	326.1 m	78.0 km
45.0	25.6	285.5	69.8
90.0	17.9	274.4	67.2
135.0	23.7	274.5	68.7
180.0	61.0	270.7	73.4
225.0	52.6	282.2	73.4
270.0	65.0	322.8	78.1
315.0	53.1	331.4	77.7

Database HAAT does not agree with computed HAAT

Database HAAT: 297 m Computed HAAT: 296 m

Proposal service area is within baseline plus 1.0%

Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 354.8 km

Distance to Mexican border: 2005.6 km

Conditions at FCC monitoring station: Allegan MI

Bearing: 139.3 degrees Distance: 254.2 km

ERP: 21.2 kW Field strength: 6.2 dBu, 0.0 mV/m

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Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 257.7 degrees Distance: 1490.4 km

Study cell size: 2.00 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 BLCDT20040202ALY LIC, scenario 1
Proposal causes no interference.

Interference to DTVBL21253 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL21253 BL, scenario 2
Proposal causes no interference.

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Interference to DTVBL52408 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WQRF-TV	D36	DT	BL	ROCKFORD, IL	DTVBL52408	
Undesireds:	WACY-TV	D36	DT	BL	APPLETON, WI	DTVBL361	249.5 km
	WACY-TV	D36	DT	APP	Appleton, WI		249.5
	WGBO-DT	D35	DT	APP	JOLIET, IL	BLANK0000025108	134.8
	KFPX-TV	D36	DT	BL	NEWTON, IA	DTVBL81509	337.3
	WMEC	D36	DT	BL	MACOMB, IL	DTVBL70537	247.1
	WCCU	D36	DT	BL	URBANA, IL	DTVBL69544	243.2
	WHME-TV	D36	DT	APP	SOUTH BEND, IN	BLANK0000025171	260.5
	KAAL	D36	DT	LIC	AUSTIN, MN	BLCDT20091110AAF	311.7
	WMKE-CD	D36	DC	BL	MILWAUKEE, WI	DTVBL35091	137.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
16605.7	1,326,682	16421.5	1,308,021	15936.4	1,202,059	15936.4	1,202,059	0.00	0.00

Undesired	Total IX	Unique IX, before		Unique IX, after	
WACY-TV D36 DT BL	16.0	839	0.0	0	
WACY-TV D36 DT APP	16.0	839		0.0	0
WGBO-DT D35 DT APP	164.2	83,651	128.2	72,646	128.2 72,646
WMEC D36 DT BL	40.0	617	8.0	511	8.0 511
WCCU D36 DT BL	128.5	7,656	72.4	1,571	72.4 1,571
WHME-TV D36 DT APP	60.1	13,639	8.0	3,037	8.0 3,037
KAAL D36 DT LIC	52.0	296	24.1	187	24.1 187
WMKE-CD D36 DC BL	188.4	22,798	132.4	11,841	132.4 11,841

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Interference to DTVBL52408 BL, scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WQRF-TV	D36	DT	BL	ROCKFORD, IL	DTVBL52408	
Undesireds:	WACY-TV	D36	DT	BL	APPLETON, WI	DTVBL361	249.5 km
	WACY-TV	D36	DT	APP	Appleton, WI		249.5
	WGBO-DT	D35	DT	APP	JOLIET, IL	BLANK0000025108	134.8
	KFPX-TV	D36	DT	BL	NEWTON, IA	DTVBL81509	337.3
	WMEC	D36	DT	BL	MACOMB, IL	DTVBL70537	247.1
	WCCU	D36	DT	BL	URBANA, IL	DTVBL69544	243.2
	WHME-TV	D36	DT	BL	SOUTH BEND, IN	DTVBL36117	260.5
	KAAL	D36	DT	LIC	AUSTIN, MN	BLCDT20091110AAF	311.7
	WMKE-CD	D36	DC	BL	MILWAUKEE, WI	DTVBL35091	137.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
16605.7	1,326,682	16421.5	1,308,021	15936.4	1,202,059	15936.4 1,202,059	0.00 0.00

Undesired			Total IX	Unique IX, before		Unique IX, after	
WACY-TV D36 DT BL	16.0		839	0.0	0		
WACY-TV D36 DT APP	16.0		839			0.0	0
WGBO-DT D35 DT APP	164.2		83,651	128.2	72,646	128.2	72,646
WMEC D36 DT BL	40.0		617	8.0	511	8.0	511
WCCU D36 DT BL	128.5		7,656	72.4	1,571	72.4	1,571
WHME-TV D36 DT BL	60.1		13,639	8.0	3,037	8.0	3,037
KAAL D36 DT LIC	52.0		296	24.1	187	24.1	187
WMKE-CD D36 DC BL	188.4		22,798	132.4	11,841	132.4	11,841

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Interference to DTVBL52408 BL, scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WQRF-TV	D36	DT	BL	ROCKFORD, IL	DTVBL52408	
Undesireds:	WACY-TV	D36	DT	BL	APPLETON, WI	DTVBL361	249.5 km
	WACY-TV	D36	DT	APP	Appleton, WI		249.5
	WGBO-DT	D35	DT	APP	JOLIET, IL	BLANK0000025108	134.8
	KFPX-TV	D36	DT	BL	NEWTON, IA	DTVBL81509	337.3
	WMEC	D36	DT	BL	MACOMB, IL	DTVBL70537	247.1
	WCCU	D36	DT	BL	URBANA, IL	DTVBL69544	243.2
	WHME-TV	D36	DT	APP	SOUTH BEND, IN	BLANK0000025171	260.5
	KAAL	D36	DT	LIC	AUSTIN, MN	BLCDT20091110AAF	311.7
	WMKE-CD	D36	DC	BL	MILWAUKEE, WI	DTVBL35091	137.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
16605.7	1,326,682	16421.5	1,308,021	15936.4	1,202,059	15936.4	1,202,059	0.00	0.00

Undesired		Total IX	Unique IX, before		Unique IX, after	
WACY-TV D36 DT BL	16.0	839	0.0	0		
WACY-TV D36 DT APP	16.0	839			0.0	0
WGBO-DT D35 DT APP	164.2	83,651	128.2	72,646	128.2	72,646
WMEC D36 DT BL	40.0	617	8.0	511	8.0	511
WCCU D36 DT BL	128.5	7,656	72.4	1,571	72.4	1,571
WHME-TV D36 DT APP	60.1	13,639	8.0	3,037	8.0	3,037
KAAL D36 DT LIC	52.0	296	24.1	187	24.1	187
WMKE-CD D36 DC BL	188.4	22,798	132.4	11,841	132.4	11,841

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Interference to DTVBL52408 BL, scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WQRF-TV	D36	DT	BL	ROCKFORD, IL	DTVBL52408	
Undesireds:	WACY-TV	D36	DT	BL	APPLETON, WI	DTVBL361	249.5 km
	WACY-TV	D36	DT	APP	Appleton, WI		249.5
	WGBO-DT	D35	DT	APP	JOLIET, IL	BLANK0000025108	134.8
	KFPX-TV	D36	DT	BL	NEWTON, IA	DTVBL81509	337.3
	WMEC	D36	DT	BL	MACOMB, IL	DTVBL70537	247.1
	WCCU	D36	DT	BL	URBANA, IL	DTVBL69544	243.2
	WHME-TV	D36	DT	BL	SOUTH BEND, IN	DTVBL36117	260.5
	KAAL	D36	DT	LIC	AUSTIN, MN	BLCDT20091110AAF	311.7
	WMKE-CD	D36	DC	BL	MILWAUKEE, WI	DTVBL35091	137.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
16605.7	1,326,682	16421.5	1,308,021	15936.4	1,202,059	15936.4 1,202,059	0.00 0.00

Undesired			Total IX	Unique IX, before		Unique IX, after	
WACY-TV D36 DT BL	16.0		839	0.0	0		
WACY-TV D36 DT APP	16.0		839			0.0	0
WGBO-DT D35 DT APP	164.2		83,651	128.2	72,646	128.2	72,646
WMEC D36 DT BL	40.0		617	8.0	511	8.0	511
WCCU D36 DT BL	128.5		7,656	72.4	1,571	72.4	1,571
WHME-TV D36 DT BL	60.1		13,639	8.0	3,037	8.0	3,037
KAAL D36 DT LIC	52.0		296	24.1	187	24.1	187
WMKE-CD D36 DC BL	188.4		22,798	132.4	11,841	132.4	11,841

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Interference to DTVBL52408 BL, scenario 5

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WQRF-TV	D36	DT	BL	ROCKFORD, IL	DTVBL52408			
Undesireds:	WACY-TV	D36	DT	BL	APPLETON, WI	DTVBL361	249.5 km		
	WACY-TV	D36	DT	APP	Appleton, WI		249.5		
	WGBO-DT	D35	DT	BL	JOLIET, IL	DTVBL12498	134.8		
	KFPX-TV	D36	DT	BL	NEWTON, IA	DTVBL81509	337.3		
	WMEC	D36	DT	BL	MACOMB, IL	DTVBL70537	247.1		
	WCCU	D36	DT	BL	URBANA, IL	DTVBL69544	243.2		
	WHME-TV	D36	DT	APP	SOUTH BEND, IN	BLANK0000025171	260.5		
	KAAL	D36	DT	LIC	AUSTIN, MN	BLCDT20091110AAF	311.7		
	WMKE-CD	D36	DC	BL	MILWAUKEE, WI	DTVBL35091	137.1		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
16605.7	1,326,682	16421.5	1,308,021	15940.4	1,205,062	15940.4	1,205,062	0.00	0.00

Undesired			Total IX		Unique IX, before		Unique IX, after	
WACY-TV D36 DT BL	16.0		839		0.0	0		
WACY-TV D36 DT APP	16.0		839			0.0	0	
WGBO-DT D35 DT BL	160.2		80,648	124.2	69,643	124.2	69,643	
WMEC D36 DT BL	40.0		617	8.0	511	8.0	511	
WCCU D36 DT BL	128.5		7,656	72.4	1,571	72.4	1,571	
WHME-TV D36 DT APP	60.1		13,639	8.0	3,037	8.0	3,037	
KAAL D36 DT LIC	52.0		296	24.1	187	24.1	187	
WMKE-CD D36 DC BL	188.4		22,798	132.4	11,841	132.4	11,841	

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Interference to DTVBL52408 BL, scenario 6

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WQRF-TV	D36	DT	BL	ROCKFORD, IL	DTVBL52408	
Undesireds:	WACY-TV	D36	DT	BL	APPLETON, WI	DTVBL361	249.5 km
	WACY-TV	D36	DT	APP	Appleton, WI		249.5
	WGBO-DT	D35	DT	BL	JOLIET, IL	DTVBL12498	134.8
	KFPX-TV	D36	DT	BL	NEWTON, IA	DTVBL81509	337.3
	WMEC	D36	DT	BL	MACOMB, IL	DTVBL70537	247.1
	WCCU	D36	DT	BL	URBANA, IL	DTVBL69544	243.2
	WHME-TV	D36	DT	BL	SOUTH BEND, IN	DTVBL36117	260.5
	KAAL	D36	DT	LIC	AUSTIN, MN	BLCDT20091110AAF	311.7
	WMKE-CD	D36	DC	BL	MILWAUKEE, WI	DTVBL35091	137.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
16605.7	1,326,682	16421.5	1,308,021	15940.4	1,205,062	15940.4 1,205,062	0.00 0.00

Undesired			Total IX	Unique IX, before		Unique IX, after	
WACY-TV D36 DT BL	16.0		839	0.0	0		
WACY-TV D36 DT APP	16.0		839			0.0	0
WGBO-DT D35 DT BL	160.2		80,648	124.2	69,643	124.2	69,643
WMEC D36 DT BL	40.0		617	8.0	511	8.0	511
WCCU D36 DT BL	128.5		7,656	72.4	1,571	72.4	1,571
WHME-TV D36 DT BL	60.1		13,639	8.0	3,037	8.0	3,037
KAAL D36 DT LIC	52.0		296	24.1	187	24.1	187
WMKE-CD D36 DC BL	188.4		22,798	132.4	11,841	132.4	11,841

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Interference to DTVBL52408 BL, scenario 7

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WQRF-TV	D36	DT	BL	ROCKFORD, IL	DTVBL52408	
Undesireds:	WACY-TV	D36	DT	BL	APPLETON, WI	DTVBL361	249.5 km
	WACY-TV	D36	DT	APP	Appleton, WI		249.5
	WGBO-DT	D35	DT	BL	JOLIET, IL	DTVBL12498	134.8
	KFPX-TV	D36	DT	BL	NEWTON, IA	DTVBL81509	337.3
	WMEC	D36	DT	BL	MACOMB, IL	DTVBL70537	247.1
	WCCU	D36	DT	BL	URBANA, IL	DTVBL69544	243.2
	WHME-TV	D36	DT	APP	SOUTH BEND, IN	BLANK0000025171	260.5
	KAAL	D36	DT	LIC	AUSTIN, MN	BLCDT20091110AAF	311.7
	WMKE-CD	D36	DC	BL	MILWAUKEE, WI	DTVBL35091	137.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
16605.7	1,326,682	16421.5	1,308,021	15940.4	1,205,062	15940.4	1,205,062	0.00	0.00

Undesired	Total IX	Unique IX, before		Unique IX, after	
WACY-TV D36 DT BL	16.0	839	0.0	0	
WACY-TV D36 DT APP	16.0	839		0.0	0
WGBO-DT D35 DT BL	160.2	80,648	124.2	69,643	124.2 69,643
WMEC D36 DT BL	40.0	617	8.0	511	8.0 511
WCCU D36 DT BL	128.5	7,656	72.4	1,571	72.4 1,571
WHME-TV D36 DT APP	60.1	13,639	8.0	3,037	8.0 3,037
KAAL D36 DT LIC	52.0	296	24.1	187	24.1 187
WMKE-CD D36 DC BL	188.4	22,798	132.4	11,841	132.4 11,841

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Interference to DTVBL52408 BL, scenario 8

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WQRF-TV	D36	DT	BL	ROCKFORD, IL	DTVBL52408	
Undesireds:	WACY-TV	D36	DT	BL	APPLETON, WI	DTVBL361	249.5 km
	WACY-TV	D36	DT	APP	Appleton, WI		249.5
	WGBO-DT	D35	DT	BL	JOLIET, IL	DTVBL12498	134.8
	KFPX-TV	D36	DT	BL	NEWTON, IA	DTVBL81509	337.3
	WMEC	D36	DT	BL	MACOMB, IL	DTVBL70537	247.1
	WCCU	D36	DT	BL	URBANA, IL	DTVBL69544	243.2
	WHME-TV	D36	DT	BL	SOUTH BEND, IN	DTVBL36117	260.5
	KAAL	D36	DT	LIC	AUSTIN, MN	BLCDT20091110AAF	311.7
	WMKE-CD	D36	DC	BL	MILWAUKEE, WI	DTVBL35091	137.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
16605.7	1,326,682	16421.5	1,308,021	15940.4	1,205,062	15940.4 1,205,062	0.00 0.00

Undesired			Total IX	Unique IX, before		Unique IX, after	
WACY-TV D36 DT BL	16.0		839	0.0	0		
WACY-TV D36 DT APP	16.0		839			0.0	0
WGBO-DT D35 DT BL	160.2		80,648	124.2	69,643	124.2	69,643
WMEC D36 DT BL	40.0		617	8.0	511	8.0	511
WCCU D36 DT BL	128.5		7,656	72.4	1,571	72.4	1,571
WHME-TV D36 DT BL	60.1		13,639	8.0	3,037	8.0	3,037
KAAL D36 DT LIC	52.0		296	24.1	187	24.1	187
WMKE-CD D36 DC BL	188.4		22,798	132.4	11,841	132.4	11,841

Interference to DTVBL69544 BL, scenario 1
Proposal causes no interference.

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Interference to DTVBL69544 BL, scenario 2
Proposal causes no interference.

Interference to DTVBL69544 BL, scenario 3
Proposal causes no interference.

Interference to DTVBL69544 BL, scenario 4
Proposal causes no interference.

Interference to DTVBL69544 BL, scenario 5
Proposal causes no interference.

Interference to DTVBL69544 BL, scenario 6
Proposal causes no interference.

Interference to DTVBL69544 BL, scenario 7
Proposal causes no interference.

Interference to DTVBL69544 BL, scenario 8
Proposal causes no interference.

Interference to DTVBL69544 BL, scenario 9
Proposal causes no interference.

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Interference to DTVBL69544 BL, scenario 10
Proposal causes no interference.

Interference to DTVBL69544 BL, scenario 11
Proposal causes no interference.

Interference to DTVBL69544 BL, scenario 12
Proposal causes no interference.

Interference to DTVBL69544 BL, scenario 13
Proposal causes no interference.

Interference to DTVBL69544 BL, scenario 14
Proposal causes no interference.

Interference to DTVBL69544 BL, scenario 15
Proposal causes no interference.

Interference to DTVBL69544 BL, scenario 16
Proposal causes no interference.

Interference to BLANK0000025171 APP, scenario 1
Proposal causes no interference.

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Interference to BLANK0000025171 APP, scenario 2
Proposal causes no interference.

Interference to BLANK0000025171 APP, scenario 3
Proposal causes no interference.

Interference to BLANK0000025171 APP, scenario 4
Proposal causes no interference.

Interference to BLANK0000025171 APP, scenario 5
Proposal causes no interference.

Interference to BLANK0000025171 APP, scenario 6
Proposal causes no interference.

Interference to BLANK0000025171 APP, scenario 7
Proposal causes no interference.

Interference to BLANK0000025171 APP, scenario 8
Proposal causes no interference.

Interference to DTVBL36117 BL, scenario 1
Proposal causes no interference.

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Interference to DTVBL36117 BL, scenario 2
Proposal causes no interference.

Interference to DTVBL36117 BL, scenario 3
Proposal causes no interference.

Interference to DTVBL36117 BL, scenario 4
Proposal causes no interference.

Interference to DTVBL36117 BL, scenario 5
Proposal causes no interference.

Interference to DTVBL36117 BL, scenario 6
Proposal causes no interference.

Interference to DTVBL36117 BL, scenario 7
Proposal causes no interference.

Interference to DTVBL36117 BL, scenario 8
Proposal causes no interference.

Interference to DTVBL67792 BL, scenario 1
Proposal causes no interference.

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Interference to DTVBL67792 BL, scenario 2
Proposal causes no interference.

Interference to DTVBL67792 BL, scenario 3
Proposal causes no interference.

Interference to DTVBL67792 BL, scenario 4
Proposal causes no interference.

Interference to DTVBL67792 BL, scenario 5
Proposal causes no interference.

Interference to DTVBL67792 BL, scenario 6
Proposal causes no interference.

Interference to DTVBL67792 BL, scenario 7
Proposal causes no interference.

Interference to DTVBL67792 BL, scenario 8
Proposal causes no interference.

Interference to BLCDT20091110AAF LIC, scenario 1
Proposal causes no interference.

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Interference to DTVBL35091 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance			
Desired:	WMKE-CD	D36	DC	BL	MILWAUKEE, WI	DTVBL35091				
Undesireds:	WACY-TV	D36	DT	BL	APPLETON, WI	DTVBL361	140.4 km			
	WACY-TV	D36	DT	APP	Appleton, WI		140.4			
	WGBO-DT	D35	DT	APP	JOLIET, IL	BLANK0000025108	135.0			
	WQRF-TV	D36	DT	BL	ROCKFORD, IL	DTVBL52408	137.1			
	WCCU	D36	DT	BL	URBANA, IL	DTVBL69544	309.4			
	WHME-TV	D36	DT	APP	SOUTH BEND, IN	BLANK0000025171	219.9			
	WAQP	D36	DT	BL	SAGINAW, MI	DTVBL67792	312.5			
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
5059.6	1,564,972	5039.7	1,563,225	4995.8	1,558,034	4995.8	1,558,034	0.00	0.00	
Undesired				Total IX	Unique IX, before		Unique IX, after			
WACY-TV	D36	DT	BL	4.0	55	4.0	55			
WACY-TV	D36	DT	APP	4.0	55	4.0	55			
WQRF-TV	D36	DT	BL	39.9	5,136	39.9	5,136	39.9	5,136	

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Interference to DTVBL35091 BL, scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance			
Desired:	WMKE-CD	D36	DC	BL	MILWAUKEE, WI	DTVBL35091				
Undesireds:	WACY-TV	D36	DT	BL	APPLETON, WI	DTVBL361	140.4 km			
	WACY-TV	D36	DT	APP	Appleton, WI		140.4			
	WGBO-DT	D35	DT	APP	JOLIET, IL	BLANK0000025108	135.0			
	WQRF-TV	D36	DT	BL	ROCKFORD, IL	DTVBL52408	137.1			
	WCCU	D36	DT	BL	URBANA, IL	DTVBL69544	309.4			
	WHME-TV	D36	DT	BL	SOUTH BEND, IN	DTVBL36117	219.9			
	WAQP	D36	DT	BL	SAGINAW, MI	DTVBL67792	312.5			
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
5059.6	1,564,972	5039.7	1,563,225	4995.8	1,558,034	4995.8	1,558,034	0.00	0.00	
Undesired				Total IX	Unique IX, before		Unique IX, after			
WACY-TV	D36	DT	BL	4.0	55	4.0	55			
WACY-TV	D36	DT	APP	4.0	55	4.0	55			
WQRF-TV	D36	DT	BL	39.9	5,136	39.9	5,136	39.9	5,136	

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Interference to DTVBL35091 BL, scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance			
Desired:	WMKE-CD	D36	DC	BL	MILWAUKEE, WI	DTVBL35091				
Undesireds:	WACY-TV	D36	DT	BL	APPLETON, WI	DTVBL361	140.4 km			
	WACY-TV	D36	DT	APP	Appleton, WI		140.4			
	WGBO-DT	D35	DT	APP	JOLIET, IL	BLANK0000025108	135.0			
	WQRF-TV	D36	DT	BL	ROCKFORD, IL	DTVBL52408	137.1			
	WCCU	D36	DT	BL	URBANA, IL	DTVBL69544	309.4			
	WHME-TV	D36	DT	APP	SOUTH BEND, IN	BLANK0000025171	219.9			
	WAQP	D36	DT	BL	SAGINAW, MI	DTVBL67792	312.5			
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
5059.6	1,564,972	5039.7	1,563,225	4995.8	1,558,034	4995.8	1,558,034	0.00	0.00	
Undesired				Total IX	Unique IX, before		Unique IX, after			
WACY-TV	D36	DT	BL	4.0	55	4.0	55			
WACY-TV	D36	DT	APP	4.0	55	4.0	55			
WQRF-TV	D36	DT	BL	39.9	5,136	39.9	5,136	39.9	5,136	

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Interference to DTVBL35091 BL, scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance			
Desired:	WMKE-CD	D36	DC	BL	MILWAUKEE, WI	DTVBL35091				
Undesireds:	WACY-TV	D36	DT	BL	APPLETON, WI	DTVBL361	140.4 km			
	WACY-TV	D36	DT	APP	Appleton, WI		140.4			
	WGBO-DT	D35	DT	APP	JOLIET, IL	BLANK0000025108	135.0			
	WQRF-TV	D36	DT	BL	ROCKFORD, IL	DTVBL52408	137.1			
	WCCU	D36	DT	BL	URBANA, IL	DTVBL69544	309.4			
	WHME-TV	D36	DT	BL	SOUTH BEND, IN	DTVBL36117	219.9			
	WAQP	D36	DT	BL	SAGINAW, MI	DTVBL67792	312.5			
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
5059.6	1,564,972	5039.7	1,563,225	4995.8	1,558,034	4995.8	1,558,034	0.00	0.00	
Undesired				Total IX	Unique IX, before		Unique IX, after			
WACY-TV	D36	DT	BL	4.0	55	4.0	55			
WACY-TV	D36	DT	APP	4.0	55	4.0	55			
WQRF-TV	D36	DT	BL	39.9	5,136	39.9	5,136	39.9	5,136	

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Interference to DTVBL35091 BL, scenario 5

	Call	Chan	Svc	Status	City, State	File Number	Distance			
Desired:	WMKE-CD	D36	DC	BL	MILWAUKEE, WI	DTVBL35091				
Undesireds:	WACY-TV	D36	DT	BL	APPLETON, WI	DTVBL361	140.4 km			
	WACY-TV	D36	DT	APP	Appleton, WI		140.4			
	WGBO-DT	D35	DT	BL	JOLIET, IL	DTVBL12498	135.0			
	WQRF-TV	D36	DT	BL	ROCKFORD, IL	DTVBL52408	137.1			
	WCCU	D36	DT	BL	URBANA, IL	DTVBL69544	309.4			
	WHME-TV	D36	DT	APP	SOUTH BEND, IN	BLANK0000025171	219.9			
	WAQP	D36	DT	BL	SAGINAW, MI	DTVBL67792	312.5			
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
5059.6	1,564,972	5039.7	1,563,225	4995.8	1,558,034	4995.8	1,558,034	0.00	0.00	
Undesired				Total IX	Unique IX, before		Unique IX, after			
WACY-TV	D36	DT	BL	4.0	55	4.0	55			
WACY-TV	D36	DT	APP	4.0	55	4.0	55			
WQRF-TV	D36	DT	BL	39.9	5,136	39.9	5,136	39.9	5,136	

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Interference to DTVBL35091 BL, scenario 6

	Call	Chan	Svc	Status	City, State	File Number	Distance				
Desired:	WMKE-CD	D36	DC	BL	MILWAUKEE, WI	DTVBL35091					
Undesireds:	WACY-TV	D36	DT	BL	APPLETON, WI	DTVBL361	140.4 km				
	WACY-TV	D36	DT	APP	Appleton, WI		140.4				
	WGBO-DT	D35	DT	BL	JOLIET, IL	DTVBL12498	135.0				
	WQRF-TV	D36	DT	BL	ROCKFORD, IL	DTVBL52408	137.1				
	WCCU	D36	DT	BL	URBANA, IL	DTVBL69544	309.4				
	WHME-TV	D36	DT	BL	SOUTH BEND, IN	DTVBL36117	219.9				
	WAQP	D36	DT	BL	SAGINAW, MI	DTVBL67792	312.5				
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX			
5059.6	1,564,972	5039.7	1,563,225	4995.8	1,558,034	4995.8	1,558,034	0.00	0.00		
Undesired				Total IX	Unique IX, before		Unique IX, after				
WACY-TV	D36	DT	BL	4.0	55	4.0	55				
WACY-TV	D36	DT	APP	4.0	55	4.0	55				
WQRF-TV	D36	DT	BL	39.9	5,136	39.9	5,136	39.9	5,136		

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Interference to DTVBL35091 BL, scenario 7

	Call	Chan	Svc	Status	City, State	File Number	Distance			
Desired:	WMKE-CD	D36	DC	BL	MILWAUKEE, WI	DTVBL35091				
Undesireds:	WACY-TV	D36	DT	BL	APPLETON, WI	DTVBL361	140.4 km			
	WACY-TV	D36	DT	APP	Appleton, WI		140.4			
	WGBO-DT	D35	DT	BL	JOLIET, IL	DTVBL12498	135.0			
	WQRF-TV	D36	DT	BL	ROCKFORD, IL	DTVBL52408	137.1			
	WCCU	D36	DT	BL	URBANA, IL	DTVBL69544	309.4			
	WHME-TV	D36	DT	APP	SOUTH BEND, IN	BLANK0000025171	219.9			
	WAQP	D36	DT	BL	SAGINAW, MI	DTVBL67792	312.5			
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
5059.6	1,564,972	5039.7	1,563,225	4995.8	1,558,034	4995.8	1,558,034	0.00	0.00	
Undesired				Total IX	Unique IX, before		Unique IX, after			
WACY-TV	D36	DT	BL	4.0	55	4.0	55			
WACY-TV	D36	DT	APP	4.0	55	4.0	55			
WQRF-TV	D36	DT	BL	39.9	5,136	39.9	5,136	39.9	5,136	

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Interference to DTVBL35091 BL, scenario 8

	Call	Chan	Svc	Status	City, State	File Number	Distance			
Desired:	WMKE-CD	D36	DC	BL	MILWAUKEE, WI	DTVBL35091				
Undesireds:	WACY-TV	D36	DT	BL	APPLETON, WI	DTVBL361	140.4 km			
	WACY-TV	D36	DT	APP	Appleton, WI		140.4			
	WGBO-DT	D35	DT	BL	JOLIET, IL	DTVBL12498	135.0			
	WQRF-TV	D36	DT	BL	ROCKFORD, IL	DTVBL52408	137.1			
	WCCU	D36	DT	BL	URBANA, IL	DTVBL69544	309.4			
	WHME-TV	D36	DT	BL	SOUTH BEND, IN	DTVBL36117	219.9			
	WAQP	D36	DT	BL	SAGINAW, MI	DTVBL67792	312.5			
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
5059.6	1,564,972	5039.7	1,563,225	4995.8	1,558,034	4995.8	1,558,034	0.00	0.00	
Undesired				Total IX	Unique IX, before		Unique IX, after			
WACY-TV	D36	DT	BL	4.0	55	4.0	55			
WACY-TV	D36	DT	APP	4.0	55	4.0	55			
WQRF-TV	D36	DT	BL	39.9	5,136	39.9	5,136	39.9	5,136	

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Interference to BLEDT20110323ABO LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance			
Desired:	WLEF-TV	D36	DT	LIC	PARK FALLS, WI	BLEDT20110323ABO				
Undesireds:	WACY-TV	D36	DT	BL	APPLETON, WI	DTVBL361	251.8 km			
	WACY-TV	D36	DT	APP	Appleton, WI		251.8			
	WLUC-TV	D35	DT	LIC	MARQUETTE, MI	BLCDT20040202ALY	191.7			
	KAAL	D36	DT	LIC	AUSTIN, MN	BLCDT20091110AAF	311.6			
	WMKE-CD	D36	DC	BL	MILWAUKEE, WI	DTVBL35091	368.1			
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
30345.8	192,283	29545.7	191,149	29441.6	190,273	29441.6	190,273	0.00	0.00	
Undesired				Total IX	Unique IX, before		Unique IX, after			
WACY-TV	D36	DT	BL	20.0	53	20.0	53			
WACY-TV	D36	DT	APP	20.0	53	20.0	53			
KAAL	D36	DT	LIC	84.0	823	84.0	823			

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Interference to proposal, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WACY-TV	D36	DT	APP	Appleton, WI		
Undesireds:	WQRF-TV	D36	DT	BL	ROCKFORD, IL	DTVBL52408	249.5 km
	WHME-TV	D36	DT	APP	SOUTH BEND, IN	BLANK0000025171	340.9
	WAQP	D36	DT	BL	SAGINAW, MI	DTVBL67792	339.4
	KAAL	D36	DT	LIC	AUSTIN, MN	BLCDT20091110AAF	372.1
	WMKE-CD	D36	DC	BL	MILWAUKEE, WI	DTVBL35091	140.4
	WLEF-TV	D36	DT	LIC	PARK FALLS, WI	BLEDT20110323ABO	251.8

Service area		Terrain-limited		IX-free		Percent IX	
16408.1	919,483	16400.1	919,214	16360.0	917,847	0.24	0.15

Undesired				Total IX		Unique IX		Prcnt Unique IX	
WQRF-TV	D36	DT	BL	8.1	324	4.0	215	0.02	0.02
WHME-TV	D36	DT	APP	4.0	109	0.0	0	0.00	0.00
WMKE-CD	D36	DC	BL	20.1	828	20.1	828	0.12	0.09
WLEF-TV	D36	DT	LIC	11.9	215	11.9	215	0.07	0.02

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Interference to proposal, scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WACY-TV	D36	DT	APP	Appleton, WI		
Undesireds:	WQRF-TV	D36	DT	BL	ROCKFORD, IL	DTVBL52408	249.5 km
	WHME-TV	D36	DT	BL	SOUTH BEND, IN	DTVBL36117	340.9
	WAQP	D36	DT	BL	SAGINAW, MI	DTVBL67792	339.4
	KAAL	D36	DT	LIC	AUSTIN, MN	BLCDT20091110AAF	372.1
	WMKE-CD	D36	DC	BL	MILWAUKEE, WI	DTVBL35091	140.4
	WLEF-TV	D36	DT	LIC	PARK FALLS, WI	BLEDT20110323ABO	251.8

Service area		Terrain-limited		IX-free		Percent IX	
16408.1	919,483	16400.1	919,214	16360.0	917,847	0.24	0.15

Undesired				Total IX		Unique IX		Prcnt Unique IX	
WQRF-TV	D36	DT	BL	8.1	324	4.0	215	0.02	0.02
WHME-TV	D36	DT	BL	4.0	109	0.0	0	0.00	0.00
WMKE-CD	D36	DC	BL	20.1	828	20.1	828	0.12	0.09
WLEF-TV	D36	DT	LIC	11.9	215	11.9	215	0.07	0.02