

WSYM-TV ENGINEERING STATEMENT
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Scripps Broadcasting Holdings, LLC
Lansing, MI

The attached application is prepared on behalf of Scripps Broadcasting Holdings, LLC, licensee of WSYM-TV - Lansing, Michigan. WSYM-TV is presently licensed to operate on Channel 38 with a maximum effective radiated power of 933 kilowatts at 281 meters above average terrain using a directional antenna. This application proposes operation on Channel 28 with a top mounted antenna on the present WSYM-TV tower and a maximum effective radiated power of 487 kilowatts at 305 meters above average terrain using a directional antenna from the presently licensed WSYM-TV site to replicate as closely as possible the post-repack facilities authorized for WSYM-TV.

A separate exhibit provides details on the proposed antenna, which was supplied by the antenna manufacturer. This antenna will be a Dielectric elliptically polarized TFU-24GTH/VP-R BP290 directional antenna, which will operate with a maximum horizontally polarized ERP of 487 kilowatts and a maximum vertically polarized ERP of 78 kilowatts. As shown by this data, the vertically polarized radiation for this antenna won't exceed the horizontally polarized radiation in any direction.

This antenna will be installed in place of WSYM-TV's former Channel 47 analog antenna and its installation won't result in any change in the overall tower height, which will remain 1036 feet (315.8 meters) above ground. As a result, no notification to the FAA or modification of the registration for this tower is required.

This exhibit includes the results of the FCC's TV Study program for the proposed facilities. As shown by this data, these proposed facilities won't result in a predicted 40.1 dBu noise limited contour which extends more than 1% further than that predicted for WSYM-TV's authorized post-repack facilities in any direction. Furthermore, this data

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shows that these proposed facilities won't be predicted to cause any new or increased interference 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 1,494,561 people, or 99.98% of the 1,494,916 people predicted to receive noise limited interference free service from WSYM-TV's post-repack allotment facilities.

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

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

WSYM-TV TV Study Results (Page 1 of 24)

tvstudy v2.2.2
Database: localhost, Study: WSYM-TV 487 KW, Model: Longley-Rice
Start: 2017.06.23 13:48:52

Study created: 2017.06.23 13:48:37

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

Proposal: WSYM-TV D28 DT APP Lansing, MI
Facility ID: 74094
Station data: User record
Record ID: 16
Country: U.S.
Zone: I

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
WNDU-TV	D27	DT	BL	SOUTH BEND, IN	DTVBL41674	160.6 km
WADL	D27	DT	BL	MOUNT CLEMENS, MI	DTVBL455	144.9
WEDE-CD	D28	DC	BL	ARLINGTON HEIGHTS, IL	DTVBL66978	254.4
WYZZ-TV	D28	DT	LIC	BLOOMINGTON, IL	BLCDT20060609ABE	427.5
WIPX-TV	D28	DT	BL	BLOOMINGTON, IN	DTVBL10253	362.8
WIWU-CD	D28	DC	BL	MARION, IN	DTVBL29292	221.8
WLPC-CD	D28	DC	CP	Redford, MI	BLANK0000024873	132.7
WLPC-CD	D28	DC	BL	Redford, MI	DTVBL168471	132.7
WSYX	D28	DT	BL	COLUMBUS, OH	DTVBL56549	312.5
WJET-TV	D28	DT	BL	ERIE, PA	DTVBL65749	380.0
WISN-TV	D28	DT	CP	MILWAUKEE, WI	BLANK0000024946	276.7
WISN-TV	D28	DT	BL	MILWAUKEE, WI	DTVBL65680	276.7
WSBT-TV	D29	DT	BL	SOUTH BEND, IN	DTVBL73983	160.1
WOMS-CD	D29	DC	LIC	MUSKEGON, MI	BLDTA20110812ACT	145.9
WGTV	D29	DT	LIC	TRAVERSE CITY, MI	BLCDT20090622AFH	255.7
WGTE-TV	D29	DT	LIC	TOLEDO, OH	BLEDT20031110AKO	135.1

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No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D28
Latitude: 42 28 3.00 N (NAD83)
Longitude: 84 39 6.00 W
Height AMSL: 587.8 m
HAAT: 304.8 m
Peak ERP: 487 kW
Antenna: 0.0 deg

40.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	468 kW	314.9 m	93.5 km
45.0	142	308.5	82.8
90.0	53.0	301.6	76.0
135.0	454	299.9	91.3
180.0	158	298.8	82.5
225.0	15.8	300.1	69.1
270.0	17.6	303.2	69.9
315.0	48.3	312.4	76.4

Proposal service area is within baseline plus 1.0%

Proposal service area population is more than 95.0% of baseline

**Proposal is within coordination distance of Canadian border
Distance to Canadian border: 127.7 km

Distance to Mexican border: 2055.1 km

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Conditions at FCC monitoring station: Allegan MI

Bearing: 278.6 degrees Distance: 107.9 km

ERP: 16.0 kW Field strength: 21.5 dBu, 0.0 mV/m

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 268.4 degrees Distance: 1732.5 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 DTVBL41674 BL, scenario 1

Proposal causes no interference.

Interference to DTVBL41674 BL, scenario 2

Proposal causes no interference.

Interference to DTVBL455 BL, scenario 1

Proposal causes no interference.

Interference to DTVBL455 BL, scenario 2

Proposal causes no interference.

WSYM-TV TV Study Results
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Interference to DTVBL455 BL, scenario 3
Proposal causes no interference.

Interference to DTVBL455 BL, scenario 4
Proposal causes no interference.

Interference to DTVBL66978 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL66978 BL, scenario 2
Proposal causes no interference.

Interference to BLCDT20060609ABE LIC, scenario 1
Proposal causes no interference.

Interference to BLCDT20060609ABE LIC, scenario 2
Proposal causes no interference.

Interference to DTVBL10253 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL10253 BL, scenario 2
Proposal causes no interference.

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Interference to DTVBL10253 BL, scenario 3
Proposal causes no interference.

Interference to DTVBL10253 BL, scenario 4
Proposal causes no interference.

Interference to DTVBL29292 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL29292 BL, scenario 2
Proposal causes no interference.

Interference to DTVBL29292 BL, scenario 3
Proposal causes no interference.

Interference to DTVBL29292 BL, scenario 4
Proposal causes no interference.

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Interference to BLANK0000024873 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WLPC-CD	D28	DC	CP	Redford, MI	BLANK0000024873	
Undesireds:	WSYM-TV	D28	DT	BL	LANSING, MI	DTVBL74094	132.7 km
	WSYM-TV	D28	DT	APP	Lansing, MI		132.7
	WADL	D27	DT	BL	MOUNT CLEMENS, MI	DTVBL455	27.9
	WIWU-CD	D28	DC	BL	MARION, IN	DTVBL29292	288.6
	WSYX	D28	DT	BL	COLUMBUS, OH	DTVBL56549	266.2
	WJET-TV	D28	DT	BL	ERIE, PA	DTVBL65749	247.2
	WGTE-TV	D29	DT	LIC	TOLEDO, OH	BLEDT20031110AKO	81.5
Service area							
1139.5	1,791,789	1139.5	1,791,789	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
24.0	48,571	24.0	48,571		1094.3 1,722,491	1094.3 1,722,491	0.00 0.00
Canada)					0.0	0	0.00 0.00 (in
Undesired				Total IX	Unique IX, before	Unique IX, after	
WSYM-TV D28 DT BL		0.0		2	0.0	0	
WSYM-TV D28 DT APP		0.0		0		0.0	0
WSYM-TV D28 DT BL		9.2		12,043	0.0	0	(in Canada)
WSYM-TV D28 DT APP		13.2		19,505		0.0	0 (in Canada)
WADL D27 DT BL		45.2		69,298	45.2	69,298	
WADL D27 DT BL		24.0		48,571	14.9	36,528	10.9 29,066 (in Canada)

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Interference to DTVBL168471 BL, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WLPC-CD	D28	DC	BL	Redford, MI	DTVBL168471	
Undesireds:	WSYM-TV	D28	DT	BL	LANSING, MI	DTVBL74094	132.7 km
	WSYM-TV	D28	DT	APP	Lansing, MI		132.7
	WADL	D27	DT	BL	MOUNT CLEMENS, MI	DTVBL455	27.9
	WIWU-CD	D28	DC	BL	MARION, IN	DTVBL29292	288.6
	WSYX	D28	DT	BL	COLUMBUS, OH	DTVBL56549	266.2
	WJET-TV	D28	DT	BL	ERIE, PA	DTVBL65749	247.2
	WGTE-TV	D29	DT	LIC	TOLEDO, OH	BLEDT20031110AKO	81.5
Service area							
1143.5	1,796,849	1143.5	1,796,849	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
24.0	48,571	24.0	48,571		1094.3 1,722,491	1094.3 1,722,491	0.00 0.00
Canada)					0.0	0	0.00 0.00 (in
Undesired				Total IX	Unique IX, before	Unique IX, after	
WSYM-TV D28 DT BL		0.0		2	0.0	0	
WSYM-TV D28 DT APP		0.0		0		0.0	0
WSYM-TV D28 DT BL		9.2		12,043	0.0	0	(in Canada)
WSYM-TV D28 DT APP		13.2		19,505		0.0	0 (in Canada)
WADL D27 DT BL		49.2		74,358	49.2	74,356	49.2 74,358
WADL D27 DT BL		24.0		48,571	14.9	36,528	10.9 29,066 (in Canada)

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Interference to DTVBL56549 BL, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WSYX	D28	DT	BL	COLUMBUS, OH	DTVBL56549	
Undesireds:	WSYM-TV	D28	DT	BL	LANSING, MI	DTVBL74094	312.5 km
	WSYM-TV	D28	DT	APP	Lansing, MI		312.5
	WTTE	D27	DT	BL	COLUMBUS, OH	DTVBL74137	0.0
	WIPX-TV	D28	DT	BL	BLOOMINGTON, IN	DTVBL10253	273.6
	WIWU-CD	D28	DC	BL	MARION, IN	DTVBL29292	235.0
	WLEX-TV	D28	DT	BL	LEXINGTON, KY	DTVBL73203	242.5
	WLPC-CD	D28	DC	CP	Redford, MI	BLANK0000024873	266.2
	WJET-TV	D28	DT	BL	ERIE, PA	DTVBL65749	340.5
	WPCB-TV	D28	DT	BL	GREENSBURG, PA	DTVBL13924	279.8
	WEMT	D28	DT	BL	GREENEVILLE, TN	DTVBL40761	395.8
	WPTO	D29	DT	BL	OXFORD, OH	DTVBL25065	159.2
Service area					Terrain-limited	IX-free, before	IX-free, after
26818.8	2,635,937	25963.2	2,593,465	25590.6	2,574,715	25622.7	2,575,577
Undesired				Total IX	Unique IX, before	Unique IX, after	Percent New IX
WSYM-TV D28 DT BL		124.3		3,322	60.1	1,868	
WSYM-TV D28 DT APP		84.2		2,321		28.0	1,006
WIPX-TV D28 DT BL		152.6		12,508	64.3	7,010	64.3
WLEX-TV D28 DT BL		119.8		5,732	59.7	751	59.7
WJET-TV D28 DT BL		32.1		805	12.1	401	12.1
WPCB-TV D28 DT BL		84.1		3,062	52.1	2,411	56.1
							2,446

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Interference to DTVBL56549 BL, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WSYX	D28	DT	BL	COLUMBUS, OH	DTVBL56549	
Undesireds:	WSYM-TV	D28	DT	BL	LANSING, MI	DTVBL74094	312.5 km
	WSYM-TV	D28	DT	APP	Lansing, MI		312.5
	WTTE	D27	DT	BL	COLUMBUS, OH	DTVBL74137	0.0
	WIPX-TV	D28	DT	BL	BLOOMINGTON, IN	DTVBL10253	273.6
	WIWU-CD	D28	DC	BL	MARION, IN	DTVBL29292	235.0
	WLEX-TV	D28	DT	BL	LEXINGTON, KY	DTVBL73203	242.5
	WLPC-CD	D28	DC	BL	Redford, MI	DTVBL168471	266.2
	WJET-TV	D28	DT	BL	ERIE, PA	DTVBL65749	340.5
	WPCB-TV	D28	DT	BL	GREENSBURG, PA	DTVBL13924	279.8
	WEMT	D28	DT	BL	GREENEVILLE, TN	DTVBL40761	395.8
	WPTO	D29	DT	BL	OXFORD, OH	DTVBL25065	159.2
Service area							
26818.8	2,635,937						
		Terrain-limited			IX-free, before		
		25963.2	2,593,465	25590.6	2,574,715		
						IX-free, after	
						25622.7	2,575,577
Undesired					Total IX	Unique IX, before	Percent New IX
WSYM-TV D28 DT BL		124.3		3,322	60.1	1,868	
WSYM-TV D28 DT APP		84.2		2,321		28.0	1,006
WIPX-TV D28 DT BL		152.6		12,508	64.3	7,010	64.3
WLEX-TV D28 DT BL		119.8		5,732	59.7	751	59.7
WJET-TV D28 DT BL		32.1		805	12.1	401	12.1
WPCB-TV D28 DT BL		84.1		3,062	52.1	2,411	56.1
							2,446

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Interference to DTVBL65749 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL65749 BL, scenario 2
Proposal causes no interference.

Interference to DTVBL65749 BL, scenario 3
Proposal causes no interference.

Interference to DTVBL65749 BL, scenario 4
Proposal causes no interference.

Interference to DTVBL65749 BL, scenario 5
Proposal causes no interference.

Interference to DTVBL65749 BL, scenario 6
Proposal causes no interference.

Interference to DTVBL65749 BL, scenario 7
Proposal causes no interference.

Interference to DTVBL65749 BL, scenario 8
Proposal causes no interference.

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Interference to BLANK0000024946 CP, scenario 1
Proposal causes no interference.

Interference to BLANK0000024946 CP, scenario 2
Proposal causes no interference.

Interference to BLANK0000024946 CP, scenario 3
Proposal causes no interference.

Interference to BLANK0000024946 CP, scenario 4
Proposal causes no interference.

Interference to DTVBL65680 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL65680 BL, scenario 2
Proposal causes no interference.

Interference to DTVBL65680 BL, scenario 3
Proposal causes no interference.

Interference to DTVBL65680 BL, scenario 4
Proposal causes no interference.

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Interference to DTVBL73983 BL, scenario 1

Proposal causes no interference.

Interference to DTVBL73983 BL, scenario 2

Proposal causes no interference.

Interference to BLDTA20110812ACT LIC, scenario 1

Proposal causes no interference.

Interference to BLDTA20110812ACT LIC, scenario 2

Proposal causes no interference.

Interference to BLCDT20090622AFH LIC, scenario 1

Proposal causes no interference.

Interference to BLCDT20090622AFH LIC, scenario 2

Proposal causes no interference.

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Interference to BLEDT20031110AKO LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance	
	WGTE-TV	D29	DT	LIC	TOLEDO, OH	BLEDT20031110AKO		
Undesireds:	WSYM-TV	D28	DT	BL	LANSING, MI	DTVBL74094	135.1 km	
	WSYM-TV	D28	DT	APP	Lansing, MI		135.1	
	WLPC-CD	D28	DC	CP	Redford, MI	BLANK0000024873	81.5	
	WSBT-TV	D29	DT	BL	SOUTH BEND, IN	DTVBL73983	231.4	
	WOMS-CD	D29	DC	LIC	MUSKEGON, MI	BLDTA20110812ACT	280.8	
	WGTU	D29	DT	LIC	TRAVERSE CITY, MI	BLCDT20090622AFH	368.2	
	WNEO	D29	DT	BL	ALLIANCE, OH	DTVBL49439	226.5	
	WPTO	D29	DT	BL	OXFORD, OH	DTVBL25065	297.2	
	WWAT-CD	D29	DC	BL	CHARLEROI, PA	DTVBL257	375.9	
Service area					Terrain-limited	IX-free, before	IX-free, after	Percent New IX
16227.4	2,210,496	16223.4	2,208,927	16203.5	2,207,615	16207.5	2,207,961	-0.02 -0.02
2188.8	143,122	2188.8	143,122	2188.8	143,122	2188.8	143,122	0.00 0.00 (in
Canada)								
Undesired					Total IX	Unique IX, before	Unique IX, after	
WSYM-TV D28 DT BL		12.0		1,105	8.0	453		
WSYM-TV D28 DT APP		8.0		759		4.0	107	
WSBT-TV D29 DT BL		8.0		818	0.0	0	0	
WNEO D29 DT BL		12.0		859	4.0	41	41	

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Interference to BLEDT20031110AKO LIC, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance	
	WGTE-TV	D29	DT	LIC	TOLEDO, OH	BLEDT20031110AKO		
Undesireds:	WSYM-TV	D28	DT	BL	LANSING, MI	DTVBL74094	135.1 km	
	WSYM-TV	D28	DT	APP	Lansing, MI		135.1	
	WLPC-CD	D28	DC	BL	Redford, MI	DTVBL168471	81.5	
	WSBT-TV	D29	DT	BL	SOUTH BEND, IN	DTVBL73983	231.4	
	WOMS-CD	D29	DC	LIC	MUSKEGON, MI	BLDTA20110812ACT	280.8	
	WGTU	D29	DT	LIC	TRAVERSE CITY, MI	BLCDT20090622AFH	368.2	
	WNEO	D29	DT	BL	ALLIANCE, OH	DTVBL49439	226.5	
	WPTO	D29	DT	BL	OXFORD, OH	DTVBL25065	297.2	
	WWAT-CD	D29	DC	BL	CHARLEROI, PA	DTVBL257	375.9	
Service area					Terrain-limited	IX-free, before	IX-free, after	Percent New IX
16227.4	2,210,496	16223.4	2,208,927	16203.5	2,207,615	16207.5	2,207,961	-0.02 -0.02
2188.8	143,122	2188.8	143,122	2188.8	143,122	2188.8	143,122	0.00 0.00 (in
Canada)								
Undesired					Total IX	Unique IX, before	Unique IX, after	
WSYM-TV D28 DT BL		12.0		1,105	8.0	453		
WSYM-TV D28 DT APP		8.0		759		4.0	107	
WSBT-TV D29 DT BL		8.0		818	0.0	0	0	
WNEO D29 DT BL		12.0		859	4.0	41	41	

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Interference to BLEDT20031110AKO LIC, scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance	
	WGTE-TV	D29	DT	LIC	TOLEDO, OH	BLEDT20031110AKO		
Undesireds:	WSYM-TV	D28	DT	BL	LANSING, MI	DTVBL74094	135.1 km	
	WSYM-TV	D28	DT	APP	Lansing, MI		135.1	
	WLPC-CD	D28	DC	CP	Redford, MI	BLANK0000024873	81.5	
	WSBT-TV	D29	DT	BL	SOUTH BEND, IN	DTVBL73983	231.4	
	WOMS-CD	D29	DC	LIC	MUSKEGON, MI	BLDTA20110812ACT	280.8	
	WGTU	D29	DT	LIC	TRAVERSE CITY, MI	BLCDT20090622AFH	368.2	
	WNEO	D29	DT	BL	ALLIANCE, OH	DTVBL49439	226.5	
	WPTO	D29	DT	BL	OXFORD, OH	DTVBL25065	297.2	
	WWAT-CD	D29	DC	BL	CHARLEROI, PA	DTVBL257	375.9	
Service area					Terrain-limited	IX-free, before	IX-free, after	Percent New IX
16227.4	2,210,496	16223.4	2,208,927	16203.5	2,207,615	16207.5	2,207,961	-0.02 -0.02
2188.8	143,122	2188.8	143,122	2188.8	143,122	2188.8	143,122	0.00 0.00 (in
Canada)								
Undesired					Total IX	Unique IX, before	Unique IX, after	
WSYM-TV D28 DT BL		12.0		1,105	8.0	453		
WSYM-TV D28 DT APP		8.0		759		4.0	107	
WSBT-TV D29 DT BL		8.0		818	0.0	0	0	
WNEO D29 DT BL		12.0		859	4.0	41	41	

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Interference to BLEDT20031110AKO LIC, scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance	
	WGTE-TV	D29	DT	LIC	TOLEDO, OH	BLEDT20031110AKO		
Undesireds:	WSYM-TV	D28	DT	BL	LANSING, MI	DTVBL74094	135.1 km	
	WSYM-TV	D28	DT	APP	Lansing, MI		135.1	
	WLPC-CD	D28	DC	BL	Redford, MI	DTVBL168471	81.5	
	WSBT-TV	D29	DT	BL	SOUTH BEND, IN	DTVBL73983	231.4	
	WOMS-CD	D29	DC	LIC	MUSKEGON, MI	BLDTA20110812ACT	280.8	
	WGTU	D29	DT	LIC	TRAVERSE CITY, MI	BLCDT20090622AFH	368.2	
	WNEO	D29	DT	BL	ALLIANCE, OH	DTVBL49439	226.5	
	WPTO	D29	DT	BL	OXFORD, OH	DTVBL25065	297.2	
	WWAT-CD	D29	DC	BL	CHARLEROI, PA	DTVBL257	375.9	
Service area					Terrain-limited	IX-free, before	IX-free, after	Percent New IX
16227.4	2,210,496	16223.4	2,208,927	16203.5	2,207,615	16207.5	2,207,961	-0.02 -0.02
2188.8	143,122	2188.8	143,122	2188.8	143,122	2188.8	143,122	0.00 0.00 (in
Canada)								
Undesired					Total IX	Unique IX, before	Unique IX, after	
WSYM-TV D28 DT BL		12.0		1,105	8.0	453		
WSYM-TV D28 DT APP		8.0		759		4.0	107	
WSBT-TV D29 DT BL		8.0		818	0.0	0	0	
WNEO D29 DT BL		12.0		859	4.0	41	41	

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Interference to BLEDT20031110AKO LIC, scenario 5

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	WGTE-TV	D29	DT	LIC	TOLEDO, OH	BLEDT20031110AKO			
Undesireds:	WSYM-TV	D28	DT	BL	LANSING, MI	DTVBL74094	135.1 km		
	WSYM-TV	D28	DT	APP	Lansing, MI		135.1		
	WLPC-CD	D28	DC	CP	Redford, MI	BLANK0000024873	81.5		
	WSBT-TV	D29	DT	BL	SOUTH BEND, IN	DTVBL73983	231.4		
	WOMS-CD	D29	DC	LIC	MUSKEGON, MI	BLDTA20110812ACT	280.8		
	WGTU	D29	DT	LIC	TRAVERSE CITY, MI	BLCDT20090622AFH	368.2		
	WNEO	D29	DT	BL	ALLIANCE, OH	DTVBL49439	226.5		
	WPTO	D29	DT	BL	OXFORD, OH	DTVBL25065	297.2		
	WWAT-CD	D29	DC	BL	CHARLEROI, PA	DTVBL257	375.9		
Service area					Terrain-limited	IX-free, before	IX-free, after		
16227.4	2,210,496	16223.4	2,208,927	16203.5	2,207,615	16207.5	2,207,961	-0.02	-0.02
2188.8	143,122	2188.8	143,122	2188.8	143,122	2188.8	143,122	0.00	0.00
Canada)									(in
Undesired					Total IX	Unique IX, before	Unique IX, after		
WSYM-TV D28 DT BL		12.0		1,105	8.0	453			
WSYM-TV D28 DT APP		8.0		759			4.0	107	
WSBT-TV D29 DT BL		8.0		818	0.0	0	0.0	0	
WNEO D29 DT BL		12.0		859	4.0	41	4.0	41	

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Interference to BLEDT20031110AKO LIC, scenario 6

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	WGTE-TV	D29	DT	LIC	TOLEDO, OH	BLEDT20031110AKO			
Undesireds:	WSYM-TV	D28	DT	BL	LANSING, MI	DTVBL74094	135.1 km		
	WSYM-TV	D28	DT	APP	Lansing, MI		135.1		
	WLPC-CD	D28	DC	BL	Redford, MI	DTVBL168471	81.5		
	WSBT-TV	D29	DT	BL	SOUTH BEND, IN	DTVBL73983	231.4		
	WOMS-CD	D29	DC	LIC	MUSKEGON, MI	BLDTA20110812ACT	280.8		
	WGTU	D29	DT	LIC	TRAVERSE CITY, MI	BLCDT20090622AFH	368.2		
	WNEO	D29	DT	BL	ALLIANCE, OH	DTVBL49439	226.5		
	WPTO	D29	DT	BL	OXFORD, OH	DTVBL25065	297.2		
	WWAT-CD	D29	DC	BL	CHARLEROI, PA	DTVBL257	375.9		
Service area									
16227.4	2,210,496	16223.4	2,208,927	16203.5	2,207,615	16207.5	2,207,961	-0.02	-0.02
2188.8	143,122	2188.8	143,122	2188.8	143,122	2188.8	143,122	0.00	0.00
Canada)									(in
Undesired									
WSYM-TV D28 DT BL		12.0		Total IX	1,105	Unique IX, before		Unique IX, after	
					8.0	453			
WSYM-TV D28 DT APP		8.0			759		4.0	107	
WSBT-TV D29 DT BL		8.0			818	0.0	0.0	0	
WNEO D29 DT BL		12.0			859	4.0	4.0	41	

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Interference to BLEDT20031110AKO LIC, scenario 7

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	WGTE-TV	D29	DT	LIC	TOLEDO, OH	BLEDT20031110AKO			
Undesireds:	WSYM-TV	D28	DT	BL	LANSING, MI	DTVBL74094	135.1 km		
	WSYM-TV	D28	DT	APP	Lansing, MI		135.1		
	WLPC-CD	D28	DC	CP	Redford, MI	BLANK0000024873	81.5		
	WSBT-TV	D29	DT	BL	SOUTH BEND, IN	DTVBL73983	231.4		
	WOMS-CD	D29	DC	LIC	MUSKEGON, MI	BLDTA20110812ACT	280.8		
	WGTU	D29	DT	LIC	TRAVERSE CITY, MI	BLCDT20090622AFH	368.2		
	WNEO	D29	DT	BL	ALLIANCE, OH	DTVBL49439	226.5		
	WPTO	D29	DT	BL	OXFORD, OH	DTVBL25065	297.2		
	WWAT-CD	D29	DC	BL	CHARLEROI, PA	DTVBL257	375.9		
Service area					Terrain-limited	IX-free, before	IX-free, after		
16227.4	2,210,496	16223.4	2,208,927	16203.5	2,207,615	16207.5	2,207,961	-0.02	-0.02
2188.8	143,122	2188.8	143,122	2188.8	143,122	2188.8	143,122	0.00	0.00
Canada)									(in
Undesired					Total IX	Unique IX, before	Unique IX, after		
WSYM-TV D28 DT BL		12.0		1,105	8.0	453			
WSYM-TV D28 DT APP		8.0		759			4.0	107	
WSBT-TV D29 DT BL		8.0		818	0.0	0	0.0	0	
WNEO D29 DT BL		12.0		859	4.0	41	4.0	41	

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Interference to BLEDT20031110AKO LIC, scenario 8

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance	
	WGTE-TV	D29	DT	LIC	TOLEDO, OH	BLEDT20031110AKO		
Undesireds:	WSYM-TV	D28	DT	BL	LANSING, MI	DTVBL74094	135.1 km	
	WSYM-TV	D28	DT	APP	Lansing, MI		135.1	
	WLPC-CD	D28	DC	BL	Redford, MI	DTVBL168471	81.5	
	WSBT-TV	D29	DT	BL	SOUTH BEND, IN	DTVBL73983	231.4	
	WOMS-CD	D29	DC	LIC	MUSKEGON, MI	BLDTA20110812ACT	280.8	
	WGTU	D29	DT	LIC	TRAVERSE CITY, MI	BLCDT20090622AFH	368.2	
	WNEO	D29	DT	BL	ALLIANCE, OH	DTVBL49439	226.5	
	WPTO	D29	DT	BL	OXFORD, OH	DTVBL25065	297.2	
	WWAT-CD	D29	DC	BL	CHARLEROI, PA	DTVBL257	375.9	
Service area					Terrain-limited	IX-free, before	IX-free, after	Percent New IX
16227.4	2,210,496	16223.4	2,208,927	16203.5	2,207,615	16207.5	2,207,961	-0.02 -0.02
2188.8	143,122	2188.8	143,122	2188.8	143,122	2188.8	143,122	0.00 0.00 (in
Canada)								
Undesired					Total IX	Unique IX, before	Unique IX, after	
WSYM-TV D28 DT BL		12.0		1,105	8.0	453		
WSYM-TV D28 DT APP		8.0		759		4.0	107	
WSBT-TV D29 DT BL		8.0		818	0.0	0	0	
WNEO D29 DT BL		12.0		859	4.0	41	41	

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 Interference to proposal, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WSYM-TV	D28	DT	APP	Lansing, MI		
Undesireds:	WNDU-TV	D27	DT	BL	SOUTH BEND, IN	DTVBL41674	160.6 km
	WADL	D27	DT	BL	MOUNT CLEMENS, MI	DTVBL455	144.9
	WEDE-CD	D28	DC	BL	ARLINGTON HEIGHTS, IL	DTVBL66978	254.4
	WIPX-TV	D28	DT	BL	BLOOMINGTON, IN	DTVBL10253	362.8
	WIWU-CD	D28	DC	BL	MARION, IN	DTVBL29292	221.8
	WLPC-CD	D28	DC	CP	Redford, MI	BLANK0000024873	132.7
	WSYX	D28	DT	BL	COLUMBUS, OH	DTVBL56549	312.5
	WJET-TV	D28	DT	BL	ERIE, PA	DTVBL65749	380.0
	WISN-TV	D28	DT	CP	MILWAUKEE, WI	BLANK0000024946	276.7
	WSBT-TV	D29	DT	BL	SOUTH BEND, IN	DTVBL73983	160.1
	WOMS-CD	D29	DC	LIC	MUSKEGON, MI	BLDTA20110812ACT	145.9
	WGTE-TV	D29	DT	LIC	TOLEDO, OH	BLEDT20031110AKO	135.1

Service area	Terrain-limited	IX-free	Percent IX
20378.8 1,498,840	20366.8 1,498,606	20110.1 1,494,561	1.26 0.27

Undesired	Total IX	Unique IX	Prcnt Unique IX
WSYX D28 DT BL	72.4	848	0.24 0.04
WGTE-TV D29 DT LIC	208.4	3,375	0.90 0.21

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 Interference to proposal, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WSYM-TV	D28	DT	APP	Lansing, MI		
Undesireds:	WNDU-TV	D27	DT	BL	SOUTH BEND, IN	DTVBL41674	160.6 km
	WADL	D27	DT	BL	MOUNT CLEMENS, MI	DTVBL455	144.9
	WEDE-CD	D28	DC	BL	ARLINGTON HEIGHTS, IL	DTVBL66978	254.4
	WIPX-TV	D28	DT	BL	BLOOMINGTON, IN	DTVBL10253	362.8
	WIWU-CD	D28	DC	BL	MARION, IN	DTVBL29292	221.8
	WLPC-CD	D28	DC	BL	Redford, MI	DTVBL168471	132.7
	WSYX	D28	DT	BL	COLUMBUS, OH	DTVBL56549	312.5
	WJET-TV	D28	DT	BL	ERIE, PA	DTVBL65749	380.0
	WISN-TV	D28	DT	CP	MILWAUKEE, WI	BLANK0000024946	276.7
	WSBT-TV	D29	DT	BL	SOUTH BEND, IN	DTVBL73983	160.1
	WOMS-CD	D29	DC	LIC	MUSKEGON, MI	BLDTA20110812ACT	145.9
	WGTE-TV	D29	DT	LIC	TOLEDO, OH	BLEDT20031110AKO	135.1

Service area	Terrain-limited	IX-free	Percent IX
20378.8 1,498,840	20366.8 1,498,606	20110.1 1,494,561	1.26 0.27

Undesired	Total IX	Unique IX	Prcnt Unique IX
WSYX D28 DT BL	72.4	848	0.24 0.04
WGTE-TV D29 DT LIC	208.4	3,375	0.90 0.21

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 Interference to proposal, scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WSYM-TV	D28	DT	APP	Lansing, MI		
Undesireds:	WNDU-TV	D27	DT	BL	SOUTH BEND, IN	DTVBL41674	160.6 km
	WADL	D27	DT	BL	MOUNT CLEMENS, MI	DTVBL455	144.9
	WEDE-CD	D28	DC	BL	ARLINGTON HEIGHTS, IL	DTVBL66978	254.4
	WIPX-TV	D28	DT	BL	BLOOMINGTON, IN	DTVBL10253	362.8
	WIWU-CD	D28	DC	BL	MARION, IN	DTVBL29292	221.8
	WLPC-CD	D28	DC	CP	Redford, MI	BLANK0000024873	132.7
	WSYX	D28	DT	BL	COLUMBUS, OH	DTVBL56549	312.5
	WJET-TV	D28	DT	BL	ERIE, PA	DTVBL65749	380.0
	WISN-TV	D28	DT	BL	MILWAUKEE, WI	DTVBL65680	276.7
	WSBT-TV	D29	DT	BL	SOUTH BEND, IN	DTVBL73983	160.1
	WOMS-CD	D29	DC	LIC	MUSKEGON, MI	BLDTA20110812ACT	145.9
	WGTE-TV	D29	DT	LIC	TOLEDO, OH	BLEDT20031110AKO	135.1

Service area	Terrain-limited	IX-free	Percent IX
20378.8 1,498,840	20366.8 1,498,606	20110.1 1,494,561	1.26 0.27

Undesired	Total IX	Unique IX	Prcnt Unique IX
WSYX D28 DT BL	72.4 848	48.3 670	0.24 0.04
WGTE-TV D29 DT LIC	208.4 3,375	184.3 3,197	0.90 0.21

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 Interference to proposal, scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WSYM-TV	D28	DT	APP	Lansing, MI		
Undesireds:	WNDU-TV	D27	DT	BL	SOUTH BEND, IN	DTVBL41674	160.6 km
	WADL	D27	DT	BL	MOUNT CLEMENS, MI	DTVBL455	144.9
	WEDE-CD	D28	DC	BL	ARLINGTON HEIGHTS, IL	DTVBL66978	254.4
	WIPX-TV	D28	DT	BL	BLOOMINGTON, IN	DTVBL10253	362.8
	WIWU-CD	D28	DC	BL	MARION, IN	DTVBL29292	221.8
	WLPC-CD	D28	DC	BL	Redford, MI	DTVBL168471	132.7
	WSYX	D28	DT	BL	COLUMBUS, OH	DTVBL56549	312.5
	WJET-TV	D28	DT	BL	ERIE, PA	DTVBL65749	380.0
	WISN-TV	D28	DT	BL	MILWAUKEE, WI	DTVBL65680	276.7
	WSBT-TV	D29	DT	BL	SOUTH BEND, IN	DTVBL73983	160.1
	WOMS-CD	D29	DC	LIC	MUSKEGON, MI	BLDTA20110812ACT	145.9
	WGTE-TV	D29	DT	LIC	TOLEDO, OH	BLEDT20031110AKO	135.1

Service area	Terrain-limited	IX-free	Percent IX
20378.8 1,498,840	20366.8 1,498,606	20110.1 1,494,561	1.26 0.27

Undesired	Total IX	Unique IX	Prcnt Unique IX
WSYX D28 DT BL	72.4	848	0.24 0.04
WGTE-TV D29 DT LIC	208.4	3,375	0.90 0.21