

Second Filing Window Expanded Facility Application

In connection with the Broadcast Television Incentive Auction (Auction 1000) the Commission initiated a transition period during which the facilities of broadcast television stations that received new channel assignments in the post-incentive auction repacking process will be reauthorized and relicensed. The first filing window closed on September 15, 2017. This application is filed in accordance with the second filing window, which will close on November 2, 2017.

During the second filing window, any reassigned station or band changing station may file an amendment to its initial construction permit application, if still pending, or a modification to its construction permit, if granted, to seek an alternate channel or expanded facilities from that specified in the *Closing and Channel Reassignment Public Notice*.¹ The instant proposal, a minor change under the Commission's rules, expands the assigned technical facility beyond that applied for in the first filing window.

Post-Transition DTV Considerations

A study was performed using the FCC's software program, *tvstudy*, v.2.2.3, to ensure that the technical facility proposed herein protects the facilities proposed in the first priority filing window, whether those stations' applications have been granted or remain pending while protecting the construction permit facilities of reassigned stations and band changing stations filed in the initial 90-day filing window, whether those

¹ See *Incentive Auction Closing and Channel Reassignment Public Notice: The Broadcast Television Incentive Auction Closes; Reverse Auction and Forward Auction Results Announced; Final Television Band Channel Assignments Announced; Post-Auction Deadlines Announced*, Public Notice, 32 FCC Rcd 2786 (2017) (*Closing and Channel Reassignment Public Notice*).

stations' applications have been granted or remain pending. Further, the instant proposal protects the facilities specified in applications filed before the April 2013 freeze with "cut-off" protection.

As demonstrated in the attached study results, the instant proposal is predicted to cause no new interference exceeding 0.5% to the populations served by any of the relevant protections discussed above. Accordingly, the instant proposal satisfies all applicable DTV interference criteria.

International DTV Considerations

As shown in the attached study, the transmitter site specified herein is within 320 kilometers of the common border between the United States of America and Canada. As demonstrated in the attached study, the maximized technical facility proposed herein satisfies DTV interference criteria with respect to all relevant Canadian allotments, applications and assignments. International notification and coordination of the instant proposal is respectfully requested.

tvstudy v2.2.3 (Dxtpx3)
Database: localhost, Study: WSBT 29 OMNI 400K 171016, Model: Longley-Rice
Start: 2017.10.16 09:01:10

Study created: 2017.10.16 09:00:24

Study build station data: LMS TV 2017-10-01 (38)

Proposal: WSBT-TV D29 DT APP SOUTH BEND, IN
File number: WSBT 29 OMNI 400K 171016
Facility ID: 73983
Station data: User record
Record ID: 2059
Country: U.S.
Zone: I

Search options:
Non-U.S. records included
Stations affected by proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
WOMS-CD	D29	DC	LIC	MUSKEGON, MI	BLDTA20110812ACT	183.3 km
WGTU	D29	DT	LIC	TRAVERSE CITY, MI	BLCDT20090622AFH	360.3
WPTO	D29	DT	CP	OXFORD, OH	BLANK0000026783	311.2
WGTE-TV	D29	DT	LIC	TOLEDO, OH	BLEDT20031110AKO	231.4
WDJT-TV	D29	DT	CP	MILWAUKEE, WI	BLANK0000028183	217.7
WSJV	D30	DT	CP	ELKHART, IN	BLANK0000027461	1.9

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:
WSBT 960 L DA2 D SOUTH BEND, IN BL
WSBT 960 L DA2 N SOUTH BEND, IN BL

Record parameters as studied:

Channel: D29
Latitude: 41 37 0.00 N (NAD83)
Longitude: 86 13 1.00 W
Height AMSL: 574.0 m
HAAT: 332.6 m
Peak ERP: 400 kW
Antenna: Omnidirectional
Elev Pattn: Generic
Elec Tilt: 0.5

40.2 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	400 kW	342.9 m	94.8 km
45.0	400	344.9	94.9
90.0	400	322.0	92.7
135.0	400	317.7	92.2
180.0	400	319.1	92.3
225.0	400	318.9	92.3
270.0	400	343.4	94.8
315.0	400	342.7	94.7

Database HAAT does not agree with computed HAAT
Database HAAT: 333 m Computed HAAT: 331 m

**Proposal service area extends beyond 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: 258.4 km

Distance to Mexican border: 1895.1 km

Conditions at FCC monitoring station: Allegan MI
Bearing: 11.0 degrees Distance: 112.0 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 270.5 degrees Distance: 1602.3 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 BLDTA20110812ACT LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WOMS-CD	D29	DC	LIC	MUSKEGON, MI	BLDTA20110812ACT	
Undesireds:	WSBT-TV	D29	DT	BL	SOUTH BEND, IN	DTVBL73983	183.3 km
	WSBT-TV	D29	DT	APP	SOUTH BEND, IN	WSBT 29 OMNI 400K 1710	183.3
	WDJT-TV	D29	DT	CP	MILWAUKEE, WI	BLANK0000028183	151.2
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
3050.1	261,777	3050.1	261,777	3042.2	261,580	3042.2 261,580	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
WSBT-TV D29 DT BL		4.0	139	0.0	0		
WSBT-TV D29 DT APP		4.0	139			0.0 0	
WDJT-TV D29 DT CP		8.0	197	4.0	58	4.0 58	

Interference to BLCDT20090622AFH LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WGTU	D29	DT	LIC	TRAVERSE CITY, MI	BLCDT20090622AFH	
Undesireds:	WSBT-TV	D29	DT	BL	SOUTH BEND, IN	DTVBL73983	360.3 km
	WSBT-TV	D29	DT	APP	SOUTH BEND, IN	WSBT 29 OMNI 400K 1710	360.3
	WOMS-CD	D29	DC	LIC	MUSKEGON, MI	BLDTA20110812ACT	183.7
	WDJT-TV	D29	DT	CP	MILWAUKEE, WI	BLANK0000028183	292.5
	WNEM-TV	D30	DT	CP	BAY CITY, MI	BLANK0000024833	172.4
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
20551.0	358,543	19966.0	353,477	19754.3	351,499	19750.3 351,474	0.02 0.01
Undesired		Total IX		Unique IX, before		Unique IX, after	
WSBT-TV D29 DT BL		8.0	126	0.0	0		
WSBT-TV D29 DT APP		16.0	151			4.0 25	
WOMS-CD D29 DC LIC		4.0	38	0.0	0	0.0 0	
WDJT-TV D29 DT CP		159.6	1,638	151.6	1,512	147.6 1,512	
WNEM-TV D30 DT CP		52.0	340	52.0	340	52.0 340	

Interference to BLANK0000026783 CP, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WPTO	D29	DT	CP	OXFORD, OH	BLANK0000026783	
Undesireds:	WSBT-TV	D29	DT	BL	SOUTH BEND, IN	DTVBL73983	311.2 km
	WSBT-TV	D29	DT	APP	SOUTH BEND, IN	WSBT 29 OMNI 400K 1710	311.2
	WIPX-TV	D28	DT	CP	BLOOMINGTON, IN	BLANK0000026975	140.9
	WLEX-TV	D28	DT	CP	LEXINGTON, KY	BLANK0000028121	121.6
	WWWJ-CD	D29	DC	CP	JEFFERSONVILLE, IN	BLANK0000025175	139.1
	WNEO	D29	DT	CP	ALLIANCE, OH	BLANK0000027481	367.6
	WGTE-TV	D29	DT	LIC	TOLEDO, OH	BLEDT20031110AKO	297.2
	WCHS-TV	D29	DT	CP	CHARLESTON, WV	BLANK0000025700	242.5
	WKMR	D30	DT	APP	MOREHEAD, KY	BLANK0000029752	144.5
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
20982.2	2,913,734	20773.8	2,895,128	20093.6	2,872,016	20085.7 2,871,912	0.04 0.00

Undesired				Total IX	Unique IX, before	Unique IX, after
WSBT-TV D29 DT BL	20.1			11,369	12.0 360	
WSBT-TV D29 DT APP	28.0			11,473		19.9 464
WIPX-TV D28 DT CP	4.0			21	0.0 0	0.0 0
WLEX-TV D28 DT CP	4.0			3	0.0 0	0.0 0
WWJ-TV D29 DC CP	404.0			3,301	376.0 3,004	376.0 3,004
WNEO D29 DT CP	8.0			153	0.0 0	0.0 0
WGTE-TV D29 DT LIC	4.0			10,775	0.0 0	0.0 0
WCHS-TV D29 DT CP	280.1			8,949	256.1 8,442	256.1 8,442

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:	WSBT-TV	D29	DT	BL	SOUTH BEND, IN	DTVBL73983	231.4 km
	WSBT-TV	D29	DT	APP	SOUTH BEND, IN	WSBT 29 OMNI 400K 1710	231.4
	WSYM-TV	D28	DT	CP	LANSING, MI	BLANK0000026760	135.1
	WNEO	D29	DT	CP	ALLIANCE, OH	BLANK0000027481	226.5
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
16227.4	2,210,496	16223.4	2,208,927	16207.5	2,207,961	16203.5 2,207,615	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
WSBT-TV D29 DT BL	8.0			818	0.0 0	
WSBT-TV D29 DT APP	12.0			1,164		4.0 346
WSYM-TV D28 DT CP	8.0			759	4.0 107	4.0 107
WNEO D29 DT CP	12.0			859	4.0 41	4.0 41

Interference to BLANK0000028183 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WDJT-TV	D29	DT	CP	MILWAUKEE, WI	BLANK0000028183	
Undesireds:	WSBT-TV	D29	DT	BL	SOUTH BEND, IN	DTVBL73983	217.7 km
	WSBT-TV	D29	DT	APP	SOUTH BEND, IN	WSBT 29 OMNI 400K 1710	217.7
	WISN-TV	D28	DT	CP	MILWAUKEE, WI	BLANK0000024946	0.2
	KGAN	D29	DT	LIC	CEDAR RAPIDS, IA	BLCDDT20140416AAI	332.7
	WPXE-TV	D30	DT	CP	KENOSHA, WI	BLANK0000026981	3.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
27423.3	3,085,540	27286.8	3,081,747	27003.2	3,058,635	26919.1 3,047,652	0.31 0.36

Undesired				Total IX	Unique IX, before	Unique IX, after
WSBT-TV D29 DT BL	132.0			14,451	104.1 12,357	
WSBT-TV D29 DT APP	220.1			25,506		188.1 23,340
WISN-TV D28 DT CP	4.0			27	0.0 0	0.0 0
KGAN D29 DT LIC	179.5			10,755	147.7 8,634	143.6 8,562
WPXE-TV D30 DT CP	7.9			47	0.0 0	0.0 0

Interference to BLANK0000027461 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WSJV	D30	DT	CP	ELKHART, IN	BLANK0000027461	
Undesireds:	WSBT-TV	D29	DT	BL	SOUTH BEND, IN	DTVBL73983	1.9 km
	WSBT-TV	D29	DT	APP	SOUTH BEND, IN	WSBT 29 OMNI 400K 1710	1.9
	WNEM-TV	D30	DT	CP	BAY CITY, MI	BLANK0000024833	282.0
	WPXE-TV	D30	DT	CP	KENOSHA, WI	BLANK0000026981	215.5
	WNIT	D31	DT	CP	SOUTH BEND, IN	BLANK0000024784	0.5
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
23645.0	1,522,376	23645.0	1,522,376	23568.5	1,510,175	23572.4 1,510,557	-0.02 -0.03

Undesired				Total IX	Unique IX, before	Unique IX, after
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WSBT-TV D29 DT BL	4.0	382	4.0	382		
WSBT-TV D29 DT APP	4.0	781			0.0	0
WNEM-TV D30 DT CP	16.0	4,564	16.0	4,564	12.0	3,783
WPXE-TV D30 DT CP	52.5	7,244	52.5	7,244	52.5	7,244
WNIT D31 DT CP	4.1	11	4.1	11	4.1	11

Interference to proposal, scenario 1
1.17% interference

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WSBT-TV	D29	DT	APP	SOUTH BEND, IN	WSBT 29 OMNI 400K 1710	
Undesireds:	WOMS-CD	D29	DC	LIC	MUSKEGON, MI	BLDTA20110812ACT	183.3 km
	WPTO	D29	DT	CP	OXFORD, OH	BLANK0000026783	311.2
	WGTE-TV	D29	DT	LIC	TOLEDO, OH	BLEDT20031110AKO	231.4
	WDJT-TV	D29	DT	CP	MILWAUKEE, WI	BLANK0000028183	217.7
	WSJV	D30	DT	CP	ELKHART, IN	BLANK0000027461	1.9

Service area	Terrain-limited	IX-free	Percent IX
27552.2 1,763,215	27516.4 1,752,698	27419.7 1,732,129	0.35 1.17

Undesired	Total IX	Unique IX	Prcnt Unique IX
WOMS-CD D29 DC LIC	8.0 404	4.0 277	0.01 0.02
WPTO D29 DT CP	4.0 99	0.0 0	0.00 0.00
WGTE-TV D29 DT LIC	12.1 321	4.0 95	0.01 0.01
WDJT-TV D29 DT CP	84.6 20,156	76.6 19,930	0.28 1.14
WSJV D30 DT CP	4.1 41	4.1 41	0.01 0.00