

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 initial 90-day 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 not within 320 kilometers of either the common border between the United States of America and Canada or between the USA and Mexico. Therefore, international notification and coordination of the instant proposal is not required.

tvstudy v2.2.3 (Dxtpx3)
Database: localhost, Study: WCCU-36 381H OMNI 125KW, Model: Longley-Rice
Start: 2017.10.26 15:32:20

Study created: 2017.10.26 15:31:33

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

Proposal: WCCU D36 DT APP URBANA, IL
File number: WCCU-36 381H OMNI 125KW
Facility ID: 69544
Station data: User record
Record ID: 2293
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
WTWO	D35	DT	CP	TERRE HAUTE, IN	BLANK0000028193	102.2 km
WMEC	D36	DT	CP	MACOMB, IL	BLANK0000026298	242.0
WQRF-TV	D36	DT	CP	ROCKFORD, IL	BLANK0000027710	268.0
WAVE	D36	DT	CP	LOUISVILLE, KY	BLANK0000025348	260.5
KBSI	D36	DT	CP	CAPE GIRARDEAU, MO	BLANK0000025127	328.7
WRGT-TV	D36	DT	CP	DAYTON, OH	BLANK0000025694	314.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D36
Latitude: 40 4 9.90 N (NAD83)
Longitude: 87 54 45.90 W
Height AMSL: 585.0 m
HAAT: 381.0 m
Peak ERP: 125 kW
Antenna: Omnidirectional
Elev Pattn: Generic
Elec Tilt: 1.0

40.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	125 kW	379.2 m	87.8 km
45.0	125	383.5	88.1
90.0	125	387.5	88.4
135.0	125	377.6	87.7
180.0	125	379.5	87.8
225.0	125	377.9	87.7
270.0	125	381.9	88.0
315.0	125	379.7	87.8

**Proposal service area extends beyond baseline plus 1.0%
Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 452.7 km

Distance to Mexican border: 1676.0 km

Conditions at FCC monitoring station: Allegan MI
Bearing: 29.4 degrees Distance: 325.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 276.0 degrees Distance: 1469.4 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 BLANK0000028193 CP, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WTWO	D35	DT	CP	TERRE HAUTE, IN	BLANK0000028193	
Undesireds:	WCCU	D36	DT	BL	URBANA, IL	DTVBL69544	127.1 km
	WCCU	D36	DT	APP	URBANA, IL	WCCU-36 381H OMNI 125K	102.2
	WCIA	D34	DT	CP	CHAMPAIGN, IL	BLANK0000028445	131.9
	WKLE	D35	DT	CP	LEXINGTON, KY	BLANK0000025291	306.5
	KSDK	D35	DT	LIC	ST. LOUIS, MO	BLCDT19991202ABM	265.1
	WPTD	D35	DT	CP	DAYTON, OH	BLANK0000026763	274.7
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
25222.5		738,183		25026.6		732,077	24718.5
						729,432	24347.5
						725,915	1.50
							0.48
Undesired			Total IX		Unique IX, before		Unique IX, after
WCCU D36 DT BL			0.0		0		0
WCCU D36 DT APP			591.1		4,159		371.0
WCIA D34 DT CP			228.0		646		7.9
WKLE D35 DT CP			4.0		115		0
KSDK D35 DT LIC			24.1		190		24.1
WPTD D35 DT CP			56.0		1,809		51.9
					1,694		1,694

Interference to BLANK0000026298 CP, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WMEC	D36	DT	CP	MACOMB, IL	BLANK0000026298	
Undesireds:	WCCU	D36	DT	BL	URBANA, IL	DTVBL69544	238.6 km
	WCCU	D36	DT	APP	URBANA, IL	WCCU-36 381H OMNI 125K	242.0
	WTVP	D35	DT	CP	PEORIA, IL	BLANK0000028050	101.5
	WQRF-TV	D36	DT	CP	ROCKFORD, IL	BLANK0000027710	247.1
	KSHB-TV	D36	DT	CP	KANSAS CITY, MO	BLANK0000026810	361.4
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
13351.7		217,967		13283.5		217,795	13163.1
						216,274	13211.3
						217,515	-0.37
							-0.57
Undesired			Total IX		Unique IX, before		Unique IX, after
WCCU D36 DT BL			84.3		1,315		52.2
WCCU D36 DT APP			20.1		25		4.0
WTVP D35 DT CP			52.1		220		24.1
WQRF-TV D36 DT CP			11.9		60		8.0
KSHB-TV D36 DT CP			4.0		0		4.0
					148		36.1
					58		11.9
					0		60
					0		4.0

Interference to BLANK0000027710 CP, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WQRF-TV	D36	DT	CP	ROCKFORD, IL	BLANK0000027710	
Undesireds:	WCCU	D36	DT	BL	URBANA, IL	DTVBL69544	243.2 km
	WCCU	D36	DT	APP	URBANA, IL	WCCU-36 381H OMNI 125K	268.0
	WGBO-DT	D35	DT	CP	JOLIET, IL	BLANK0000025108	134.8
	WMEC	D36	DT	CP	MACOMB, IL	BLANK0000026298	247.1
	WHME-TV	D36	DT	CP	SOUTH BEND, IN	BLANK0000025171	260.5
	KAAL	D36	DT	LIC	AUSTIN, MN	BLCDT20091110AAF	311.7
	WACY-TV	D36	DT	CP	APPLETON, WI	BLANK0000026771	249.5
	WMKE-CD	D36	DC	CP	MILWAUKEE, WI	BLANK0000028254	137.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
16946.4		1,375,774		16742.2		1,354,979	16213.0
						1,246,770	16253.2
						1,248,270	-0.25
							-0.12

Undesired		Total IX	Unique IX, before	Unique IX, after
WCCU D36 DT BL	136.5	8,166	84.4	1,678
WCCU D36 DT APP	76.3	4,681		44.2
WGBO-DT D35 DT CP	172.2	86,004	136.2	74,549
WMEC D36 DT CP	32.0	86	4.0	4
WHME-TV D36 DT CP	56.1	12,777	4.0	2,886
KAAL D36 DT LIC	52.0	275	32.0	228
WACY-TV D36 DT CP	28.0	899	0.0	0
WMKE-CD D36 DC CP	220.5	22,418	156.4	12,260

Interference to BLANK0000025348 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WAVE	D36	DT	CP	LOUISVILLE, KY	BLANK0000025348	
Undesireds:	WCCU	D36	DT	BL	URBANA, IL	DTVBL69544	280.8 km
	WCCU	D36	DT	APP	URBANA, IL	WCCU-36 381H OMNI 125K	260.5
	WKAS	D36	DT	CP	ASHLAND, KY	BLANK0000025282	279.7
	KBSI	D36	DT	CP	CAPE GIRARDEAU, MO	BLANK0000025127	344.4
	WRGT-TV	D36	DT	CP	DAYTON, OH	BLANK0000025694	202.9
	WTVF	D36	DT	CP	NASHVILLE, TN	BLANK0000026801	248.4
Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX			
28244.4	1,809,033	27701.9	1,800,248	26852.7	1,787,617	26860.7	1,787,678
							-0.03 -0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
WCCU D36 DT BL	84.1	995	40.0	443
WCCU D36 DT APP	56.1	705		32.0
WKAS D36 DT CP	12.1	53	8.0	25
KBSI D36 DT CP	51.9	746	19.9	230
WRGT-TV D36 DT CP	308.0	5,655	276.1	5,346
WTVF D36 DT CP	489.1	6,434	425.2	5,648
				429.2
				5,662

Interference to BLANK0000025127 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KBSI	D36	DT	CP	CAPE GIRARDEAU, MO	BLANK0000025127	
Undesireds:	WCCU	D36	DT	BL	URBANA, IL	DTVBL69544	353.0 km
	WCCU	D36	DT	APP	URBANA, IL	WCCU-36 381H OMNI 125K	328.7
	KSDK	D35	DT	LIC	ST. LOUIS, MO	BLCDT19991202ABM	145.7
	WAVE	D36	DT	CP	LOUISVILLE, KY	BLANK0000025348	344.4
	WTVF	D36	DT	CP	NASHVILLE, TN	BLANK0000026801	277.3
Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX			
35414.2	756,501	35007.9	754,722	34549.4	750,498	34549.4	750,498
							0.00 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
WCCU D36 DT BL	4.0	16	0.0	0
WCCU D36 DT APP	4.0	16		0.0
KSDK D35 DT LIC	23.7	200	23.7	200
WAVE D36 DT CP	63.7	300	19.8	60
WTVF D36 DT CP	415.0	3,964	371.2	3,724
				371.2
				3,724

Interference to BLANK0000025694 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WRGT-TV	D36	DT	CP	DAYTON, OH	BLANK0000025694	
Undesireds:	WCCU	D36	DT	BL	URBANA, IL	DTVBL69544	318.5 km
	WCCU	D36	DT	APP	URBANA, IL	WCCU-36 381H OMNI 125K	314.2
	WPTD	D35	DT	CP	DAYTON, OH	BLANK0000026763	0.6
	WHME-TV	D36	DT	CP	SOUTH BEND, IN	BLANK0000025171	262.8
	WKAS	D36	DT	CP	ASHLAND, KY	BLANK0000025282	198.9
	WAVE	D36	DT	CP	LOUISVILLE, KY	BLANK0000025348	202.9
	WQHS-DT	D36	DT	CP	CLEVELAND, OH	BLANK0000025113	283.6
	WMNT-CD	D36	DC	CP	TOLEDO, OH	BLANK0000028583	222.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
24031.6 3,254,162	23772.1 3,219,073	23408.1 3,149,375	23404.1 3,149,337	0.02 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WCCU D36 DT BL	0.0 0	0.0 0	
WCCU D36 DT APP	12.0 142		4.0 38
WPTD D35 DT CP	35.9 25,414	27.9 21,614	27.9 21,614
WHME-TV D36 DT CP	12.0 197	0.0 0	0.0 0
WKAS D36 DT CP	36.0 7,686	11.9 274	11.9 274
WAVE D36 DT CP	312.1 47,378	223.9 34,322	223.9 34,322
WQHS-DT D36 DT CP	80.3 2,554	8.0 178	8.0 178
WMNT-CD D36 DC CP	12.0 398	0.0 0	0.0 0

Interference to proposal, scenario 1
10.95% interference

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WCCU	D36	DT	APP	URBANA, IL	WCCU-36 381H OMNI 125K	
Undesireds:	WTWO	D35	DT	CP	TERRE HAUTE, IN	BLANK0000028193	102.2 km
	WHME-TV	D36	DT	CP	SOUTH BEND, IN	BLANK0000025171	224.7
	WAVE	D36	DT	CP	LOUISVILLE, KY	BLANK0000025348	260.5
	KBSI	D36	DT	CP	CAPE GIRARDEAU, MO	BLANK0000025127	328.7

Service area	Terrain-limited	IX-free	Percent IX
24262.0 694,989	24258.0 693,756	23443.3 617,778	3.36 10.95

Undesired	Total IX	Unique IX	Prcnt Unique IX
WTWO D35 DT CP	778.8 75,788	770.8 75,769	3.18 10.92
WHME-TV D36 DT CP	28.0 149	28.0 149	0.12 0.02
WAVE D36 DT CP	12.0 19	4.0 0	0.02 0.00
KBSI D36 DT CP	8.0 60	4.0 41	0.02 0.01