

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: WHOI-24 DA 625KW 171024, Model: Longley-Rice
Start: 2017.10.24 12:00:51

Study created: 2017.10.24 12:00:03

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

Proposal: WHOI D24 DT APP PEORIA, IL
File number: WHOI-24 DA 625KW 171024
Facility ID: 6866
Station data: User record
Record ID: 2210
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
WQPT-TV	D23	DT	LIC	MOLINE, IL	BLEDT20030702AAR	98.9 km
WFLD	D24	DT	CP	CHICAGO, IL	BLANK0000027828	212.4
KMOV	D24	DT	LIC	ST. LOUIS, MO	BLCDT20090626ACG	243.8
WEEK-TV	D25	DT	LIC	PEORIA, IL	BLCDT20090413AER	4.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D24
Latitude: 40 39 11.00 N (NAD83)
Longitude: 89 35 14.00 W
Height AMSL: 393.6 m
HAAT: 205.0 m
Peak ERP: 625 kW
Antenna: DIE-TFU-16DSB-H (ID 1001597) 0.0 deg
Elev Pattn: Generic
Elec Tilt: 1.0

39.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	528 kW	198.6 m	81.0 km
45.0	524	183.5	79.7
90.0	400	175.4	77.5
135.0	386	175.8	77.4
180.0	119	204.2	73.2
225.0	143	256.7	78.1
270.0	353	213.4	79.8
315.0	436	230.3	82.3

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

Distance to Canadian border: 558.7 km

Distance to Mexican border: 1613.7 km

Conditions at FCC monitoring station: Allegan MI
Bearing: 53.1 degrees Distance: 371.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 272.7 degrees Distance: 1323.0 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 BLEDT20030702AAR LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance			
Desired:	WQPT-TV	D23	DT	LIC	MOLINE, IL	BLEDT20030702AAR				
Undesireds:	WHOI	D24	DT	BL	PEORIA, IL	DTVBL6866	98.9 km			
	WHOI	D24	DT	APP	PEORIA, IL	WHOI-24 DA 625KW 17102	98.9			
	KCWI-TV	D23	DT	APP	AMES, IA	BPCDT20130205AAY	275.1			
	WCIU-TV	D23	DT	CP	CHICAGO, IL	BLANK0000028180	236.6			
	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX					
	16740.5	595,685	16724.3	595,437	16466.9	593,882	16399.2	592,490	0.41	0.23
Undesired		Total IX	Unique IX, before	Unique IX, after						
WHOI D24 DT BL		55.8	562	51.8	529					
WHOI D24 DT APP		151.8	2,045			119.6	1,921			
KCWI-TV D23 DT APP		72.3	563	68.3	548	68.3	548			
WCIU-TV D23 DT CP		137.2	478	129.3	430	101.0	339			

 Interference to BLEDT20030702AAR LIC, scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance			
Desired:	WQPT-TV	D23	DT	LIC	MOLINE, IL	BLEDT20030702AAR				
Undesireds:	WHOI	D24	DT	BL	PEORIA, IL	DTVBL6866	98.9 km			
	WHOI	D24	DT	APP	PEORIA, IL	WHOI-24 DA 625KW 17102	98.9			
	KCWI-TV	D23	DT	LIC	AMES, IA	BLCDDT20090612AIO	275.1			
	WCIU-TV	D23	DT	CP	CHICAGO, IL	BLANK0000028180	236.6			
	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX					
	16740.5	595,685	16724.3	595,437	16531.3	594,420	16463.5	593,028	0.41	0.23
Undesired		Total IX	Unique IX, before	Unique IX, after						
WHOI D24 DT BL		55.8	562	51.8	529					
WHOI D24 DT APP		151.8	2,045			119.6	1,921			
KCWI-TV D23 DT LIC		4.0	10	4.0	10	4.0	10			
WCIU-TV D23 DT CP		137.2	478	133.3	445	105.0	354			

 Interference to BLANK0000027828 CP, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance			
Desired:	WFLD	D24	DT	CP	CHICAGO, IL	BLANK0000027828				
Undesireds:	WHOI	D24	DT	BL	PEORIA, IL	DTVBL6866	212.4 km			
	WHOI	D24	DT	APP	PEORIA, IL	WHOI-24 DA 625KW 17102	212.4			
	WPTA	D24	DT	LIC	FORT WAYNE, IN	BLCDDT20031031AGU	221.6			
	WTLJ	D24	DT	LIC	MUSKEGON, MI	BLANK0000001674	186.0			
	WTTW	D25	DT	CP	CHICAGO, IL	BLANK0000028364	0.0			
	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX					
	32379.1	9,957,256	32326.9	9,954,844	31795.5	9,918,147	31361.4	9,897,874	1.37	0.20
Undesired		Total IX	Unique IX, before	Unique IX, after						
WHOI D24 DT BL		265.0	6,802	204.9	4,876					
WHOI D24 DT APP		711.3	27,844			639.1	25,149			
WPTA D24 DT LIC		230.2	28,479	214.0	26,845	214.0	26,845			
WTLJ D24 DT LIC		96.3	4,514	20.0	954	8.0	185			
WTTW D25 DT CP		16.2	462	16.2	462	16.2	462			

 Interference to BLCDDT20090626ACG LIC, scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
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Desired:	KMOV	D24	DT	LIC	ST. LOUIS, MO	BLCDT20090626ACG		
Undesireds:	WHOI	D24	DT	BL	PEORIA, IL	DTVBL6866	243.8	km
	WHOI	D24	DT	APP	PEORIA, IL	WHOI-24 DA 625KW 17102	243.8	
	KCTV	D24	DT	LIC	KANSAS CITY, MO	BLCDT20110405ABD	375.8	
	WUWT-CD	D24	DC	CP	UNION CITY, TN	BLANK0000028231	257.0	

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	33593.1	3,035,077	33100.2	3,029,405	33008.4	3,028,870	32905.0	3,028,581	0.31 0.01

Undesired			Total IX		Unique IX, before		Unique IX, after	
WHOI D24 DT BL		39.8	82		35.8	51		
WHOI D24 DT APP		143.2	371				139.2	340
KCTV D24 DT LIC		40.1	402		36.1	371	36.1	371
WUWT-CD D24 DC CP		15.9	82		15.9	82	15.9	82

Interference to BLCDT20090413AER LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WEEK-TV	D25	DT	LIC	PEORIA, IL	BLCDT20090413AER	
Undesireds:	WHOI	D24	DT	BL	PEORIA, IL	DTVBL6866	4.2 km
	WHOI	D24	DT	APP	PEORIA, IL	WHOI-24 DA 625KW 17102	4.2
	KWKB	D25	DT	LIC	IOWA CITY, IA	BLCDT20070130AJQ	193.9
	WTTW	D25	DT	CP	CHICAGO, IL	BLANK0000028364	211.7
	WRTV	D25	DT	LIC	INDIANAPOLIS, IN	BLCDT20090623ACJ	295.2
	WMBD-TV	D26	DT	CP	PEORIA, IL	BLANK0000027808	1.0

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	18250.5	698,238	18238.4	698,220	17716.2	681,761	17712.1	681,754	0.02 0.00

Undesired			Total IX		Unique IX, before		Unique IX, after	
WHOI D24 DT BL		8.0	194		0.0	0		
WHOI D24 DT APP		12.1	201				4.1	7
KWKB D25 DT LIC		394.1	14,104		337.8	13,236	337.8	13,236
WTTW D25 DT CP		116.5	2,243		80.2	1,628	80.2	1,628
WRTV D25 DT LIC		12.0	26		8.0	26	8.0	26
WMBD-TV D26 DT CP		51.8	908		35.9	553	35.9	553

Interference to proposal, scenario 1
1.40% interference

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WHOI	D24	DT	APP	PEORIA, IL	WHOI-24 DA 625KW 17102	
Undesireds:	WQPT-TV	D23	DT	LIC	MOLINE, IL	BLEDT20030702AAR	98.9 km
	WFLD	D24	DT	CP	CHICAGO, IL	BLANK0000027828	212.4
	KMOV	D24	DT	LIC	ST. LOUIS, MO	BLCDT20090626ACG	243.8
	WEEK-TV	D25	DT	LIC	PEORIA, IL	BLCDT20090413AER	4.2

	Service area		Terrain-limited		IX-free		Percent IX
	19440.1	741,035	19387.5	740,874	18319.7	730,531	5.51 1.40

Undesired			Total IX		Unique IX		Prcnt Unique IX
WQPT-TV D23 DT LIC		105.2	388		72.8	283	0.38 0.04
WFLD D24 DT CP		958.7	9,905		914.3	9,694	4.72 1.31
KMOV D24 DT LIC		40.2	214		28.2	108	0.15 0.01
WEEK-TV D25 DT LIC		8.0	47		8.0	47	0.04 0.01