

ENGINEERING EXHIBIT

Incentive Auction Channel Reassignment

Application for Modification of Digital Television Station Construction Permit

prepared for

Ohio/Oklahoma Hearst Television Inc.

WLWT(DT) Cincinnati, OH

Facility ID 46979

Ch. 20 1000 kW 309 m

Ohio/Oklahoma Hearst Television Inc. (“Hearst”) is the licensee of digital television station WLWT(DT), Channel 35, Facility ID 46979, Cincinnati, OH. Reassignment of WLWT from Channel 35 to Channel 20 was specified in the *Incentive Auction Closing and Channel Reassignment Public Notice (“CCRPN”*, DA 17-317, released April 13, 2017). *Hearst* herein proposes modification of the WLWT Channel 20 Construction Permit (“CP”, file# 0000024626). This application is intended to be filed during the second filing window.¹ The CP authorizes operation at 790 kW effective radiated power (“ERP”) at 309 meters antenna height above average terrain. *Hearst* proposes herein to increase the ERP to 1000 kW.

As with the current authorization, the proposed Channel 20 operation will employ a new horizontally polarized nondirectional antenna system as part of a top-mounted stack on the WLWT tower in lieu of the existing Channel 35 antenna. As with the existing configuration, the WLWT transmitting antenna will be situated in a stack beneath the transmitting antenna for WCET(DT) (Fac ID 65666, Cincinnati, OH).² The existing tower structure corresponds to FCC Antenna Structure Registration number 1038226. No change to the overall structure height will result.

¹Public Notice “*Incentive Auction Task Force and Media Bureau Announce the Opening of the Second Filing Window for Eligible Full Power and Class A Television Station—October 3 Through November 2, 2017*” DA 17-911, released September 20, 2017.

²WCET presently operates on Channel 34 and has been reassigned to Channel 17.

Figure 1 supplies a map that demonstrates compliance with §73.625(a)(1) regarding coverage of the entire principal community. The proposed facility's predicted population exceeds 95 percent of the *CCRPN* baseline facility's population.

Interference study per FCC OET Bulletin 69³ shows that the proposal complies with the 0.5 percent limit of new interference caused to pertinent nearby post-auction full service and Class A television stations and reassignments as required by §73.616. The interference study output report is provided as Table 1.

The nearest FCC monitoring station is 405 km distant at Allegan, MI. This exceeds by a large margin the threshold minimum distance specified in §73.1030(c)(3) that would suggest consideration of the monitoring station. The site is not located within the areas requiring coordination with "quiet" zones specified in §73.1030(a) and (b). There are no authorized nondirectional AM stations within 0.5 kilometer and no authorized directional AM stations within 3 kilometers of the site.

The site location is within the 360 km Canadian coordination zone (324 km to the Canada border). Customarily, proposals located beyond 300 km of the border are no longer referred to Canada, thus further coordination should not be required. Further, according to "TVStudy" analysis including non-US records from current FCC LMS data, there are no Canada television stations or allotments on relevant channels located within the pertinent culling distances for interference analysis consideration.

Human Exposure to Radiofrequency Electromagnetic Field (Environmental)

The proposed operation was evaluated for human exposure to RF energy using the procedures outlined in the FCC's OET Bulletin Number 65. Based on OET-65 equation (10), and considering 10 percent antenna relative field in downward elevations (pattern data shows

³FCC Office of Engineering and Technology Bulletin number 69, *Longley-Rice Methodology for Evaluating TV Coverage and Interference*, February 6, 2004 ("OET-69"). This analysis employed the FCC's current "TVStudy" software with the default application processing template settings, 2 km cell size, and 1 km terrain increment. Comparisons of various results of this computer program (run on a Mac processor) to the FCC's implementation of TVStudy show excellent correlation.

less than 10 percent relative field at angles 10 to 90 degrees below the antenna), the calculated signal density near the tower at two meters above ground level attributable to the proposed facility is $4.8 \mu\text{W}/\text{cm}^2$, which is 1.4 percent of the general population/uncontrolled maximum permitted exposure limit. This is well below the five percent threshold limit described in §1.1307(b) regarding sites with multiple emitters, categorically excluding the applicant from responsibility for taking any corrective action in the areas where the proposal's contribution is less than five percent.

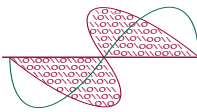
The general public will not be exposed to RF levels attributable to the proposal in excess of the FCC's guidelines. RF exposure warning signs will continue to be posted. With respect to worker safety, the applicant will coordinate exposure procedures with all pertinent stations and will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from RF electromagnetic field exposure in excess of FCC guidelines. This exhibit is limited to the evaluation of exposure to RF electromagnetic field. No increase in structure height is proposed.

List of Attachments

Figure 1	Proposed Coverage Contours
Table 1	OET Bulletin 69 Interference Study
Form 2100	Saved Version of Engineering Sections from FCC Form at Time of Upload

Chesapeake RF Consultants, LLC

Joseph M. Davis, P.E.	October 18, 2017	
207 Old Dominion Road	Yorktown, VA 23692	703-650-9600



Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio

Figure 1
Proposed Coverage Contours
WLWT(DT) Cincinnati, OH
Facility ID 46979
Ch. 20 1000 kW 309 m

prepared for
Ohio/Oklahoma
Hearst Television Inc.

October, 2017

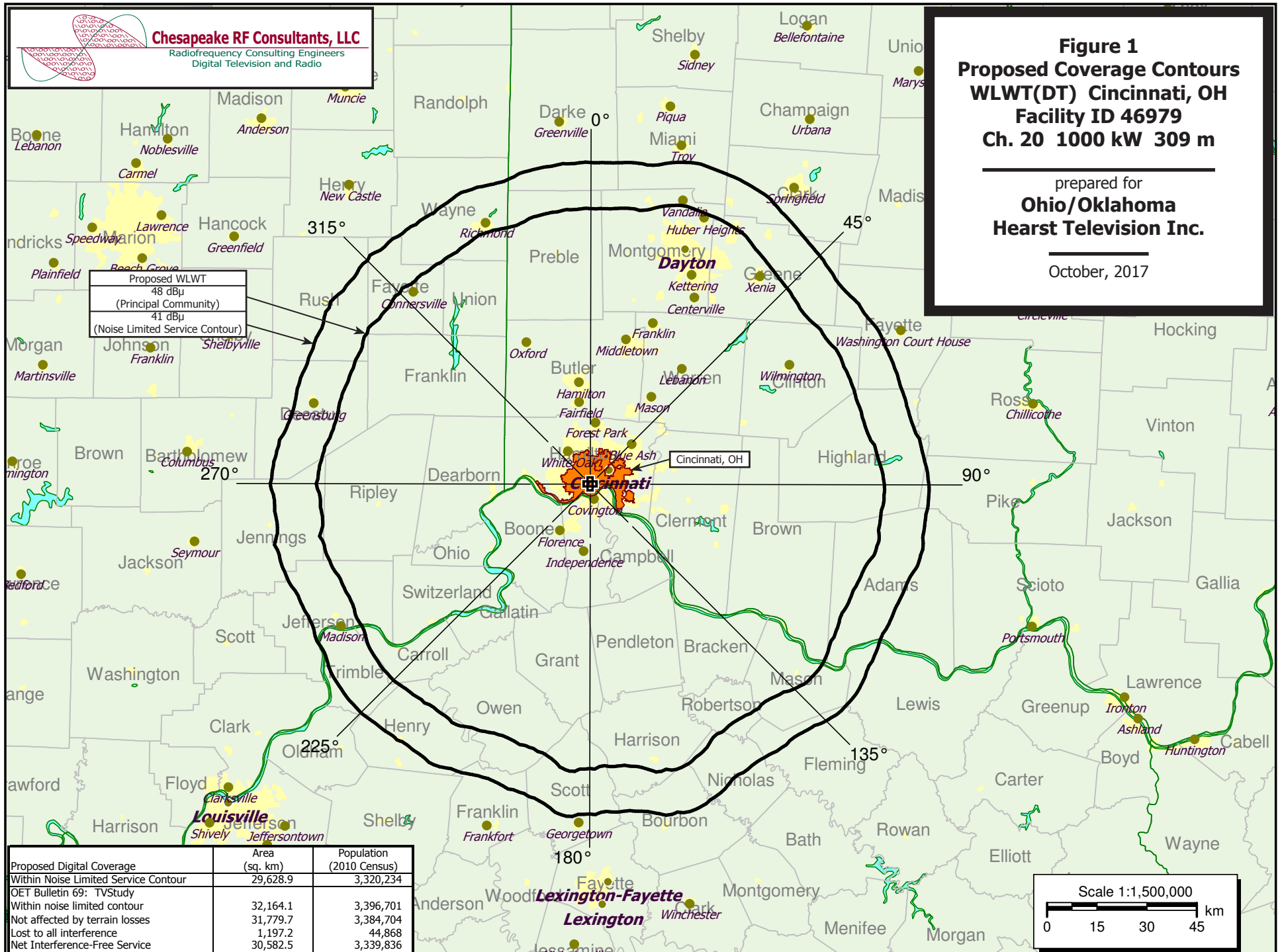
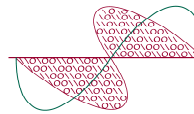


Table 1 WLWT(DT) OET Bulletin 69 Interference Study
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Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio

tvstudy v2.2.3 (6K70F1)
Database: localhost, Study: WLWT 1000KW_Prop, Model: Longley-Rice
Start: 2017.10.18 10:32:26

Study created: 2017.10.18 10:31:13

Study build station data: LMS TV 2017-10-07 LMSTV

Proposal: WLWT D20 DT APP CINCINNATI, OH
File number: WLWT 1000KW Prop
Facility ID: 46979
Station data: User record
Record ID: 1177
Country: U.S.
Zone: I

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	WIPB	D19	DT	CP	MUNCIE, IN	BLANK0000027189	131.0 km
Yes	WDKY-TV	D19	DT	CP	DANVILLE, KY	BLANK0000027289	139.3
No	WCLL-CD	D19	DC	LIC	COLUMBUS, OH	BLDTA20110616AAM	158.9
No	WWME-CD	D20	DC	CP	CHICAGO, IL	BLANK0000028191	403.7
No	WAND	D20	DT	CP	DECATUR, IL	BLANK0000028607	380.8
No	WTSN-CD	D20	DC	LIC	EVANSVILLE, IN	BLDTL20120328AJA	270.2
Yes	WFFT-TV	D20	DT	CP	FORT WAYNE, IN	BLANK0000027652	227.9
No	WTVS	D20	DT	CP	DETROIT, MI	BLANK0000027886	386.5
No	WUNF-TV	D20	DD	CP	ASHEVILLE, NC	BLANK0000029742	467.5
Yes	WOHZ-CD	D20	DC	CP	MANSFIELD, OH	BLANK0000026543	244.0
No	WPGH-TV	D20	DT	CP	PITTSBURGH, PA	BLANK0000025698	414.6
No	WZTV	D20	DT	CP	NASHVILLE, TN	BLANK0000028847	375.5
Yes	WVPB-TV	D20	DT	CP	HUNTINGTON, WV	BLANK0000026241	212.8
No	WFYI	D21	DT	LIC	INDIANAPOLIS, IN	BLEDT20100803ADB	167.8
No	WRLW-CD	D21-	DC	CP	SALEM, IN	BLANK0000028883	147.6
Yes	WKYT-TV	D21	DT	CP	LEXINGTON, KY	BLANK0000024945	121.0
Yes	WBNS-TV	D21	DT	LIC	COLUMBUS, OH	BLCDT20021025ABK	158.9

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D20
Latitude: 39 7 27.00 N (NAD83)
Longitude: 84 31 18.00 W
Height AMSL: 520.2 m
HAAT: 309.2 m
Peak ERP: 1000 kW
Antenna: Omnidirectional
Elev Pattern: Generic
Elec Tilt: 0.75

39.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	1000 kW	296.8 m	99.9 km
45.0	1000	302.2	100.5
90.0	1000	345.9	104.8
135.0	1000	331.5	103.5
180.0	1000	319.1	102.3
225.0	1000	302.5	100.5
270.0	1000	293.0	99.4
315.0	1000	282.6	98.2

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

Distance to Canadian border: 323.7 km

Distance to Mexican border: 1851.1 km

Conditions at FCC monitoring station: Allegan MI
Bearing: 343.2 degrees Distance: 405.3 km

Table 1 WLWT(DT) OET Bulletin 69 Interference Study
(page 2 of 5)



Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 280.3 degrees Distance: 1771.8 km

No land mobile station failures found

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 BLANK0000027189 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WIPB	D19	DT	CP	MUNCIE, IN	BLANK0000027189	
Undesireds:	WLWT	D20	DT	BL	CINCINNATI, OH	DTVBL46979	131.0 km
	WLWT	D20	DT	APP	CINCINNATI, OH	WLWT 1000KW Prop	131.0
	WSTR-TV	D18	DT	CP	CINCINNATI, OH	BLANK0000027774	124.1
	WDKY-TV	D19	DT	CP	DANVILLE, KY	BLANK0000027289	262.8
	WFFT-TV	D20	DT	CP	FORT WAYNE, IN	BLANK0000027652	114.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
20483.6		1,965,353		20459.8		1,961,423	0.10 0.01
Undesired		Total IX		Unique IX, before		Unique IX, after	
WLWT D20 DT BL		27.7		782		136	
WLWT D20 DT APP		47.5		1,016		23.8	370
WSTR-TV D18 DT CP		31.7		726		4.0	17
WDKY-TV D19 DT CP		35.8		454		23.9	317
WFFT-TV D20 DT CP		95.7		2,338		95.7	2,338

Interference to BLANK0000027289 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WDKY-TV	D19	DT	CP	DANVILLE, KY	BLANK0000027289	
Undesireds:	WLWT	D20	DT	BL	CINCINNATI, OH	DTVBL46979	139.3 km
	WLWT	D20	DT	APP	CINCINNATI, OH	WLWT 1000KW Prop	139.3
	WKYI-CD	D18	DC	CP	LOUISVILLE, KY	BLANK0000025196	143.3
	WSTR-TV	D18	DT	CP	CINCINNATI, OH	BLANK0000027774	147.7
	WIPB	D19	DT	CP	MUNCIE, IN	BLANK0000027189	262.8
	WKPZ-CD	D19	DC	LIC	KINGSPORT, TN	BLANK0000001584	215.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
27496.3		1,162,964		26503.1		1,129,651	0.06 0.06
Undesired		Total IX		Unique IX, before		Unique IX, after	
WLWT D20 DT BL		100.4		1,729		1,480	
WLWT D20 DT APP		124.5		2,608		92.4	2,212
WKYI-CD D18 DC CP		79.1		1,210		67.3	1,006
WSTR-TV D18 DT CP		12.0		125		0.0	0
WIPB D19 DT CP		96.1		1,004		60.2	529

Interference to BLANK0000027652 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WFFT-TV	D20	DT	CP	FORT WAYNE, IN	BLANK0000027652	
Undesireds:	WLWT	D20	DT	BL	CINCINNATI, OH	DTVBL46979	227.9 km
	WLWT	D20	DT	APP	CINCINNATI, OH	WLWT 1000KW Prop	227.9
	WIPB	D19	DT	CP	MUNCIE, IN	BLANK0000027189	114.1
	WTVS	D20	DT	CP	DETROIT, MI	BLANK0000027886	224.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX

Table 1 WLWT(DT) OET Bulletin 69 Interference Study
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19907.7 1,096,695 19899.6 1,096,489 19803.2 1,094,057 19779.1 1,093,483 0.12 0.05

Undesired		Total IX	Unique IX, before	Unique IX, after
WLWT D20 DT BL	28.1	625	4.0	127
WLWT D20 DT APP	60.3	1,267		28.2 701
WIPB D19 DT CP	64.2	1,363	52.2	1,035 48.2 991
WTVS D20 DT CP	28.2	942	16.1	772 12.1 748

Interference to BLANK0000026543 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WOHZ-CD	D20	DC	CP	MANSFIELD, OH	BLANK0000026543	
Undesireds:	WLWT	D20	DT	BL	CINCINNATI, OH	DTVBL46979	244.0 km
	WLWT	D20	DT	APP	CINCINNATI, OH	WLWT 1000KW Prop	244.0
	WKYC	D19	DT	CP	CLEVELAND, OH	BLANK0000028024	104.1
	WFFT-TV	D20	DT	CP	FORT WAYNE, IN	BLANK0000027652	219.8
	WTVS	D20	DT	CP	DETROIT, MI	BLANK0000027886	192.8
	WBNS-TV	D21	DT	LIC	COLUMBUS, OH	BLCDT20021025ABK	94.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
5863.3 294,626	5775.4 292,557	5611.1 287,858	5611.1 287,858	0.00 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
WLWT D20 DT BL	24.0	909	4.0	65
WLWT D20 DT APP	28.0	967		4.0 65
WKYC D19 DT CP	16.1	152	16.1	152 16.1 152
WFFT-TV D20 DT CP	47.9	1,118	24.0	427 24.0 427
WTVS D20 DT CP	104.2	3,497	76.2	2,611 72.2 2,553
WBNS-TV D21 DT LIC	20.0	753	12.0	505 12.0 505

Interference to BLANK0000026241 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WVPB-TV	D20	DT	CP	HUNTINGTON, WV	BLANK0000026241	
Undesireds:	WLWT	D20	DT	BL	CINCINNATI, OH	DTVBL46979	212.8 km
	WLWT	D20	DT	APP	CINCINNATI, OH	WLWT 1000KW Prop	212.8
	WPGH-TV	D20	DT	CP	PITTSBURGH, PA	BLANK0000025698	291.4
	WHSV-TV	D20	DT	APP	HARRISONBURG, VA	BLANK0000029912	254.5

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
17963.6 786,282	17287.7 761,863	16768.6 748,276	16653.2 746,582	0.69 0.23

Undesired		Total IX	Unique IX, before	Unique IX, after
WLWT D20 DT BL	495.0	13,342	471.1	13,104
WLWT D20 DT APP	610.4	15,036		586.5 14,798
WPGH-TV D20 DT CP	48.0	483	24.0	245 24.0 245

Interference to BLANK0000024945 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WKYT-TV	D21	DT	CP	LEXINGTON, KY	BLANK0000024945	
Undesireds:	WLWT	D20	DT	BL	CINCINNATI, OH	DTVBL46979	121.0 km
	WLWT	D20	DT	APP	CINCINNATI, OH	WLWT 1000KW Prop	121.0
	WFYI	D21	DT	LIC	INDIANAPOLIS, IN	BLEDT20100803ADB	258.5
	WBNS-TV	D21	DT	LIC	COLUMBUS, OH	BLCDT20021025ABK	245.3
	WUXP-TV	D21	DT	LIC	NASHVILLE, TN	BLCDT20060414AAU	289.5

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
27380.8 1,152,150	26595.6 1,136,753	25876.3 1,116,974	25856.2 1,115,801	0.08 0.11

Undesired		Total IX	Unique IX, before	Unique IX, after
WLWT D20 DT BL	84.3	1,391	28.1	510
WLWT D20 DT APP	112.4	3,221		48.2 1,683
WFYI D21 DT LIC	72.3	3,070	44.2	1,392 44.2 1,392
WBNS-TV D21 DT LIC	344.3	5,511	280.1	3,922 272.1 3,265
WUXP-TV D21 DT LIC	310.6	13,074	290.6	11,473 290.6 11,473

Table 1 WLWT(DT) OET Bulletin 69 Interference Study
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Interference to BLCDT20021025ABK LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WBNS-TV	D21	DT	LIC	COLUMBUS, OH	BLCDT20021025ABK			
Undesireds:	WLWT	D20	DT	BL	CINCINNATI, OH	DTVBL46979	158.9 km		
	WLWT	D20	DT	APP	CINCINNATI, OH	WLWT 1000KW Prop	158.9		
	WOHZ-CD	D20	DC	CP	MANSFIELD, OH	BLANK0000026543	94.7		
	WFYI	D21	DT	LIC	INDIANAPOLIS, IN	BLEDT20100803ADB	270.5		
	WKYT-TV	D21	DT	CP	LEXINGTON, KY	BLANK0000024945	245.3		
	WZPX-TV	D21	DT	CP	BATTLE CREEK, MI	BLANK0000026967	345.7		
	WWJ-TV	D21	DT	APP	DETROIT, MI	BLANK0000025826	275.6		
	WSEE-TV	D21	DT	CP	ERIE, PA	BLANK0000028628	344.0		
	WPNT	D21	DT	CP	PITTSBURGH, PA	BLANK0000025702	263.1		
	WBGU-TV	D22	DT	CP	BOWLING GREEN, OH	BLANK0000027978	149.3		
	WSAZ-TV	D22	DT	CP	HUNTINGTON, WV	BLANK0000025191	176.7		
<hr/>									
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
29747.3	2,847,721	28835.8	2,784,795	27506.3	2,721,297	27478.5	2,717,474	0.10	0.14
<hr/>									
Undesired				Total IX	Unique IX, before		Unique IX, after		
WLWT D20 DT BL				11.9	1,488		7.9 1,229		
WLWT D20 DT APP				43.7	5,386		35.7 5,052		
WOHZ-CD D20 DC CP				99.8	11,124		55.9 5,288		
WFYI D21 DT LIC				446.1	28,279		249.4 16,206		
WKYT-TV D21 DT CP				383.5	17,726		219.2 7,066		
WZPX-TV D21 DT CP				8.0	499		0.0 0		
WWJ-TV D21 DT APP				260.2	12,559		47.9 1,940		
WSEE-TV D21 DT CP				8.0	52		4.0 34		
WPNT D21 DT CP				472.7	16,533		365.0 11,070		
WBGU-TV D22 DT CP				40.0	484		12.0 115		
WSAZ-TV D22 DT CP				27.9	299		15.9 158		

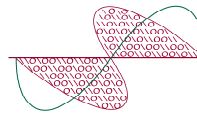
Interference to BLCDT20021025ABK LIC, scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WBNS-TV	D21	DT	LIC	COLUMBUS, OH	BLCDT20021025ABK			
Undesireds:	WLWT	D20	DT	BL	CINCINNATI, OH	DTVBL46979	158.9 km		
	WLWT	D20	DT	APP	CINCINNATI, OH	WLWT 1000KW Prop	158.9		
	WOHZ-CD	D20	DC	CP	MANSFIELD, OH	BLANK0000026543	94.7		
	WFYI	D21	DT	LIC	INDIANAPOLIS, IN	BLEDT20100803ADB	270.5		
	WKYT-TV	D21	DT	CP	LEXINGTON, KY	BLANK0000024945	245.3		
	WZPX-TV	D21	DT	CP	BATTLE CREEK, MI	BLANK0000026967	345.7		
	WWJ-TV	D21	DT	BL	DETROIT, MI	DTVBL72123	275.6		
	WSEE-TV	D21	DT	CP	ERIE, PA	BLANK0000028628	344.0		
	WPNT	D21	DT	CP	PITTSBURGH, PA	BLANK0000025702	263.1		
	WBGU-TV	D22	DT	CP	BOWLING GREEN, OH	BLANK0000027978	149.3		
	WSAZ-TV	D22	DT	CP	HUNTINGTON, WV	BLANK0000025191	176.7		
<hr/>									
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
29747.3	2,847,721	28835.8	2,784,795	27506.3	2,721,233	27478.5	2,717,410	0.10	0.14
<hr/>									
Undesired				Total IX	Unique IX, before		Unique IX, after		
WLWT D20 DT BL				11.9	1,488	7.9	1,229		
WLWT D20 DT APP				43.7	5,386			35.7	5,052
WOHZ-CD D20 DC CP				99.8	11,124	55.9	5,288	55.9	5,288
WFYI D21 DT LIC				446.1	28,279	257.4	16,457	257.4	16,457
WKYT-TV D21 DT CP				383.5	17,726	219.2	7,066	215.2	6,991
WZPX-TV D21 DT CP				8.0	499	0.0	0	0.0	0
WWJ-TV D21 DT BL				252.2	14,537	47.9	2,004	47.9	2,004
WSEE-TV D21 DT CP				8.0	52	4.0	34	4.0	34
WPNT D21 DT CP				472.7	16,533	361.0	8,840	361.0	8,840
WBGU-TV D22 DT CP				40.0	484	12.0	115	12.0	115
WSAZ-TV D22 DT CP				27.9	299	15.9	158	15.9	158

Interference to proposal, scenario 1
1.33% interference

Call	Chan	Svc	Status	City, State	File Number	Distance
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Table 1 WLWT(DT) OET Bulletin 69 Interference Study
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Chesapeake RF Consultants, LLC
Radiofrequency Consulting Engineers
Digital Television and Radio

Desired:	WLWT	D20	DT	APP	CINCINNATI, OH	WLWT 1000KW Prop							
Undesireds:	WIPB	D19	DT	CP	MUNCIE, IN	BLANK0000027189	131.0 km						
	WDKY-TV	D19	DT	CP	DANVILLE, KY	BLANK0000027289	139.3						
	WAND	D20	DT	CP	DECATUR, IL	BLANK0000028607	380.8						
	WFFT-TV	D20	DT	CP	FORT WAYNE, IN	BLANK0000027652	227.9						
	WTVS	D20	DT	CP	DETROIT, MI	BLANK0000027886	386.5						
	WVPB-TV	D20	DT	CP	HUNTINGTON, WV	BLANK0000026241	212.8						
	WKYT-TV	D21	DT	CP	LEXINGTON, KY	BLANK0000024945	121.0						
	WBNS-TV	D21	DT	LIC	COLUMBUS, OH	BLCDT20021025ABK	158.9						
Service area		Terrain-limited		IX-free		Percent IX							
32164.1	3,396,701	31779.7	3,384,704	30582.5	3,339,836	3.77	1.33						
Undesired				Total IX		Unique IX		Prcnt Unique IX					
WIPB D19 DT CP	60.1			492		0.0		0		0.00		0.00	
WDKY-TV D19 DT CP	256.4			15,342		11.8		622		0.04		0.02	
WAND D20 DT CP	8.0			159		0.0		0		0.00		0.00	
WFFT-TV D20 DT CP	379.8			14,678		299.6		11,421		0.94		0.34	
WTVS D20 DT CP	12.1			2,606		0.0		0		0.00		0.00	
WVPB-TV D20 DT CP	20.0			331		20.0		331		0.06		0.01	
WKYT-TV D21 DT CP	678.4			26,162		433.9		11,442		1.37		0.34	
WBNS-TV D21 DT LIC	107.1			3,075		107.1		3,075		0.34		0.09	

**Channel and
Facility
Information**

Section	Question	Response
Proposed Community of License	Facility ID	46979
	State	Ohio
	City	CINCINNATI
	DTV Channel	20
Facility Type	Facility Type	Commercial
	Station Type	Main
Zone	Zone	1

**Antenna Location
Data**

Section	Question	Response
Antenna Structure Registration	Do you have an FCC Antenna Structure Registration (ASR) Number?	Yes
	ASR Number	1038226
Coordinates (NAD83)	Latitude	39° 07' 27.0" N+
	Longitude	084° 31' 18.0" W-
	Structure Type	LTOWER-Lattice Tower
	Overall Structure Height	289.6 meters
	Support Structure Height	273.1 meters
	Ground Elevation (AMSL)	255.4 meters
Antenna Data	Height of Radiation Center Above Ground Level	264.8 meters
	Height of Radiation Center Above Average Terrain	309.2 meters
	Height of Radiation Center Above Mean Sea Level	520.2 meters
	Effective Radiated Power	1000 kW

Antenna Technical Data

Section	Question	Response
Antenna Type	Antenna Type	Non-Directional
	Do you have an Antenna ID?	
	Antenna ID	
Antenna Manufacturer and Model	Manufacturer:	DIE
	Model	TFU-26GBH-R O6
	Rotation	
	Electrical Beam Tilt	0.75
	Mechanical Beam Tilt	Not Applicable
	toward azimuth	
	Polarization	Horizontal
DTV and DTS: Elevation Pattern	Does the proposed antenna propose elevation radiation patterns that vary with azimuth for reasons other than the use of mechanical beam tilt?	No
	Uploaded file for elevation antenna (or radiation) pattern data	

**Construction
Permit
Certifications**

Section	Question	Response
Post-Incentive Auction Expedited Processing	It will operate on the DTV channel for this station as established in the post-incentive auction channel reassignment public notice.	Yes
	It will operate post-incentive auction facilities that do not expand the noise-limited service contour in any direction beyond that established by the post-incentive auction channel reassignment public notice.	No
	It will operate post-incentive auction facilities that match or reduce by no more than five percent with respect to predicted population from those defined in the post-incentive auction channel reassignment public notice.	Yes
	The antenna structure to be used by this facility has been registered by the Commission and will not require re-registration to support the proposed antenna, OR the FAA has previously determined that the proposed structure will not adversely affect safety in air navigation and this structure qualifies for later registration under the Commission's phased registration plan, OR the proposed installation on this structure does not require notification to the FAA pursuant to 47 C.F.R. Section 17.7.	Yes
Environmental Effect	Would a Commission grant of Authorization for this location be an action which may have a significant environmental effect? (See Section 1.1306 of 47 C.F.R.)	No
Broadcast Facility	The proposed facility complies with the applicable engineering standards and assignment requirements of 47 C. F.R. Sections 73.616, 73.622(i), 73.623(e), 73.625, 73.1030, and 73.1125.	Yes