

## **ENGINEERING STATEMENT**

### **Request for Waiver of Transition Phase Assignment**

prepared for

#### **Gray Television Licensee, LLC**

WSAZ-TV Huntington, WV

Facility ID 36912

This statement is prepared on behalf of *Gray Television Licensee, LLC* (“Gray”), licensee of digital television station WSAZ-TV, Facility ID 36912, Huntington WV, in support of *Gray’s* request for waiver of WSAZ-TV’s transition phase assignment. Reassignment of WSAZ-TV from Channel 23 to Channel 22 was specified in the *Incentive Auction Closing and Channel Reassignment Public Notice* (DA 17-317, released April 13, 2017). WSAZ-TV has been assigned to make the transition to Channel 22 at phase 6 (testing period start date September 7, 2019 and phase completion date October 18, 2019). *Gray* seeks to delay the transition of WSAZ-TV to its reassignment facility by one phase, to phase 7 (testing period start date October 19, 2019 and phase completion date January 17, 2020). This statement provides engineering details to support the waiver request.

The WSAZ-TV post-auction facility will utilize a replacement transmitting antenna to be installed at the top of the WSAZ-TV tower structure. The post-auction transmitting antenna and associated transmission line must be installed by a qualified tower crew. The change in phase is requested due to a delay in the tower crew’s arrival to the WSAZ-TV site, as discussed separately in *Gray’s* phase change request.

WSAZ-TV’s present Channel 23 operation utilizes an interim antenna as authorized pursuant to Special Temporary Authority (“STA”, LMS File# 0000079795), in order to decommission the main Channel 23 transmitter equipment. The STA facility utilizes a side-mounted directional antenna operating at 576 kW effective radiated power (“ERP”) at 332 meters height above average terrain (“HAAT”), which is a reduced facility from the licensed Channel 23 nondirectional operation of 595 kW ERP and 390 meters HAAT. *Gray* proposes to continue to operate WSAZ-TV with the Channel 23 STA facility through the end of phase 6 and

into phase 7 (completion date January 17, 2020) while the tower crew replaces the main antenna and transmission line.

The proposed operation on pre-auction Channel 23 until phase 7 was evaluated for potential impact to stations downstream of WSAZ-TV. The FCC's transition data files<sup>1</sup> provide upstream/downstream dependency results for operation of a station's main antenna at full power. To consider the WSAZ-TV Channel 23 interim antenna STA operation which is at variance and reduced from the licensed Channel 23 facility, analysis is provided herein to determine the particulars of any resulting dependencies that would exist.

An interference study using FCC TVStudy software (OET Bulletin 69) was conducted to determine compliance with the 2.0 percent limit of additional interference permitted during the transition with respect to pertinent nearby full service and Class A television stations. The TVStudy report is supplied in Table 1 for relevant station operations on their post-auction channels that may be affected by WSAZ-TV's STA operation on Channel 23 through phase 7. The analysis was conducted using a 2 km cell size and 0.2 km terrain profile increment.

The interference analysis shows that the proposed operation of WSAZ-TV into phase 7 would not cause interference in excess of 2.0 percent to any other station. Therefore no dependency or linked station set is created with respect to interference created to another station at phase 6, 7, and even all the way through phase 10.

Table 2 provides an analysis of incoming interference to WSAZ-TV's interim antenna STA operation on Channel 23 for operation through phase 7. The WSAZ-TV Channel 23 interim antenna STA facility will receive 6.87 percent additional interference from the WVAH-TV Channel 24 (Charleston WV) reassignment facility. WVAH-TV is assigned to phase 6 and is part of an existing linked station set with WSAZ-TV, where WVAH-TV is downstream of WSAZ-TV. *Gray* consents to the temporary increased interference (6.87 percent) that would be caused by WVAH-TV for the time interval between WVAH-TV's transition to

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<sup>1</sup> [http://data.fcc.gov/download/incentive-auctions/Current\\_Transition\\_Files/](http://data.fcc.gov/download/incentive-auctions/Current_Transition_Files/)

Channel 24 and when WSAZ-TV ceases operation on Channel 23. Table 2 shows that WSAZ-TV will not receive interference in excess of 2.0 percent from any other station transitioning at phase 6 or 7. Therefore, only WVAH-TV is implicated by pairwise interference beyond 2.0 percent, and no other dependencies are involved.

In summary, the proposed change to phase 7 for WSAZ-TV involves interference acceptance with WVAH-TV's reassignment facility (6.87 percent received by WSAZ-TV), will otherwise comply with the interference allowance established for the transition period, and will not create any new linked station set or dependency.

*List of Attachments*

Table 1	TVStudy Analysis – Phase 6 and 7 Operation of WSAZ-TV Interim Ch. 23
Table 2	TVStudy Analysis – Incoming Interference WSAZ-TV Proposed Operation Phase 6 to Phase 7

**Chesapeake RF Consultants, LLC**

Joseph M. Davis, P.E.	September 18, 2019	
207 Old Dominion Road	Yorktown, VA 23692	703-650-9600

**Table 1 WSAZ-TV TVStudy Analysis of Proposal  
Phase 6 and 7 Operation of WSAZ-TV Interim Ch. 23**  
(page 1 of 5)



tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: WSAZ-TV STA-23 0000079795 2.0-0.2, Model: Longley-Rice  
Start: 2019.09.18 13:14:36

Study created: 2019.09.18 13:14:36

Study build station data: LMS TV 2019-09-18

Proposal: WSAZ-TV D23 DT STA HUNTINGTON, WV  
File number: BLANK0000079795  
Facility ID: 36912  
Station data: LMS TV 2019-09-18  
Record ID: 25076f916c250944016c251add6f007a  
Country: U.S.  
Zone: I

Search options:  
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WOOH-LP	N16-	TX	LIC	ZANESVILLE, OH	BLTT20021211AAM	161.4 km
No	W16CE	N16-	TX	LIC	CHARLESTON, WV	BLTTL20030606ABF	51.3
No	WOCW-LD	N21+	TX	LIC	CHARLESTON, WV	BLTTL20051114AGM	51.2
No	WCVN-TV	D22	DT	CP	COVINGTON, KY	BLANK0000034633	206.5
No	WOCB-CD	D22	DC	LIC	MARION, OH	BLANK0000072129	212.7
No	W22CY	D22	LD	CP	CLARKSBURG, WV	BLANK0000068832	184.5
No	WOVA-LD	D22	LD	LIC	PARKERSBURG, WV	BLDTL20120904ABM	109.1
No	W22ES-D	D22	LD	CP	SUTTON, WV	BNPDTL20100514AAM	132.7
No	WDTI	D23	DT	CP	INDIANAPOLIS, IN	BLANK0000034481	376.2
Yes	WKZT-TV	D23	DT	CP	ELIZABETHTOWN, KY	BLANK0000034628	330.0
No	W23DM-D	D23	LD	LIC	FALMOUTH, KY	BLDTT20080815ABC	183.9
Yes	WKPI-TV	D23	DT	CP	PIKEVILLE, KY	BLANK0000034629	138.8
No	WDVM-TV	D23	DT	LIC	HAGERSTOWN, MD	BLANK0000080408	388.7
No	W08AO-D	D23	LD	CP	CANTON, NC	BLANK0000054156	332.6
No	WUNC-TV	D23	LD	CP	CHAPEL HILL, NC	BLANK0000053857	381.1
No	WBTW	D23	DT	LIC	CHARLOTTE, NC	BLCDT19991025AEB	361.5
No	W23ES-D	D23	LD	LIC	MARSHALL, NC	BLANK0000074623	303.7
No	W23EZ-D	D23	LD	LIC	SYLVA, NC	BLANK0000080642	367.5
No	KONV-LD	D23	LD	LIC	CANTON, OH	BLANK0000079956	334.0
Yes	WWHO	D23	DT	CP	CHILLICOTHE, OH	BLANK0000034759	173.0
Yes	WQMC-LD	D23	LD	LIC	COLUMBUS, OH	BLDTL20110318AAC	169.3
No	WNWO-TV	D23	DT	CP	TOLEDO, OH	BLANK0000033631	364.0
No	WDMV-LP	D23	LD	CP	TOLEDO, OH	BDISDTL20100303AAB	368.0
No	WPXI	D23	LD	LIC	PITTSBURGH, PA	BLCDT20100429ADA	266.6
Yes	WPXI	D23	DT	LIC	PITTSBURGH, PA	BLANK0000080213	288.5
No	WFLI-TV	D23	DT	CP	CLEVELAND, TN	BLANK0000034902	463.2
Yes	WAPW-CD	D23	DC	CP	ABINGDON, ETC., VA	BLANK0000026135	188.4
No	WDWA-LD	D23	LD	LIC	DALE CITY, VA	BLDTL20140528ACM	425.5
No	WMDV-LD	D23	LD	CP	DANVILLE, VA	BLANK0000054844	317.7
Yes	WJDG-LD	D23	LD	LIC	GRUNDY, VA	BLDTL20120619ABQ	165.2
No	WTVR-TV	D23	DT	CP	RICHMOND, VA	BLANK0000034245	419.3
No	W23DR-D	D23	LD	LIC	ROMNEY, WV	BLDTT20090609AAZ	315.7
No	WKON	D24	DT	CP	OWENTON, KY	BLANK0000034637	225.4
No	WDEM-CD	D24	DC	LIC	COLUMBUS, OH	BLANK0000071611	173.0
No	WETP-TV	D24	DT	CP	SNEEDVILLE, TN	BLANK0000029748	251.4
Yes	WVAH-TV	D24	DT	CP	CHARLESTON, WV	BLANK0000027764	29.8
No	W24DS-D	D24	LD	LIC	PARKERSBURG, WV	BLDTL20140527AHY	118.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D23  
Latitude: 38 30 36.30 N (NAD83)  
Longitude: 82 13 9.50 W  
Height AMSL: 558.4 m

**Table 1 WSAZ-TV TVStudy Analysis of Proposal  
Phase 6 and 7 Operation of WSAZ-TV Interim Ch. 23**  
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HAAT: 332.0 m  
Peak ERP: 576 kW  
Antenna: RFS-SBB-24C170 (ID 1005326) 180.0 deg  
Elev Pattn: Generic  
Elec Tilt: 1.00

39.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	48.4 kW	337.8 m	79.4 km
45.0	65.8	339.9	81.7
90.0	416	302.3	91.9
135.0	549	345.6	98.8
180.0	433	340.8	96.4
225.0	556	333.4	97.9
270.0	439	337.2	96.2
315.0	58.1	319.0	78.8

Proposal 24.66 dBu contour does not cross Canadian border  
Distance to Canadian border: 352.3 km

Distance to Mexican border: 1957.7 km

Conditions at FCC monitoring station: Laurel MD  
Bearing: 79.5 degrees Distance: 472.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 282.6 degrees Distance: 1980.8 km

Study cell size: 2.00 km  
Profile point spacing: 0.20 km

Maximum new IX to full-service and Class A: 0.50%  
Maximum new IX to LPTV: 2.00%

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Interference to BLANK0000034628 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WKZT-TV	D23	DT	CP	ELIZABETHTOWN, KY	BLANK0000034628	
Undesireds:	WSAZ-TV	D23	DT	STA	HUNTINGTON, WV	BLANK0000079795	330.0 km
	WUSI-TV	D23	DT	CP	OLNEY, IL	BLANK0000034827	237.5
	WFLI-TV	D23	DT	CP	CLEVELAND, TN	BLANK0000034902	284.1
	WNKY	D24	DT	CP	BOWLING GREEN, KY	BLANK0000025367	77.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
13760.9	1,044,532	13538.2	1,025,802	13434.4	1,024,156	13430.4 1,024,108	0.03 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
WSAZ-TV D23 DT STA				4.0	48	4.0	48
WUSI-TV D23 DT CP				31.7	437	27.7	341
WFLI-TV D23 DT CP				16.0	365	8.0	145
WNKY D24 DT CP				68.0	1,160	60.0	940

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Interference to BLANK0000034629 CP scenario 1

\*\*IX: 1.12% interference caused

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WKPI-TV	D23	DT	CP	PIKEVILLE, KY	BLANK0000034629	
Undesireds:	WSAZ-TV	D23	DT	STA	HUNTINGTON, WV	BLANK0000079795	138.8 km
	WKPT-CD	D22	DC	LIC	KINGSPORT, TN	BLDTA20120420ACJ	84.4
	WBTV	D23	DT	LIC	CHARLOTTE, NC	BLCDT19991025AEB	244.8
	WWHO	D23	DT	CP	CHILLICOTHE, OH	BLANK0000034759	297.9
	WAPW-CD	D23	DC	CP	ABINGDON, ETC., VA	BLANK0000026135	96.9
	WETP-TV	D24	DT	CP	SNEEDVILLE, TN	BLANK0000029748	116.2
	WVAH-TV	D24	DT	CP	CHARLESTON, WV	BLANK0000027764	136.2

**Table 1 WSAZ-TV TVStudy Analysis of Proposal  
Phase 6 and 7 Operation of WSAZ-TV Interim Ch. 23**  
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Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
22851.4 606,666	21132.8 527,551	21053.4 526,260	20750.9 520,382	1.44 1.12
Undesired	Total IX	Unique IX, before	Unique IX, after	
WSAZ-TV D23 DT STA	334.3 6,392		302.5 5,878	
WKPT-CD D22 DC LIC	23.9 215	0.0 0	0.0 0	
WBTV D23 DT LIC	15.9 151	0.0 0	0.0 0	
WWHO D23 DT CP	23.8 679	19.8 558	19.8 558	
WAPW-CD D23 DC CP	12.0 47	7.9 47	4.0 0	
WETP-TV D24 DT CP	23.9 150	4.0 40	4.0 40	
WVAH-TV D24 DT CP	23.7 431	19.8 310	4.0 12	

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Interference to BLANK0000034759 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WWHO	D23	DT	CP	CHILLICOTHE, OH	BLANK0000034759	
Undesireds:	WSAZ-TV	D23	DT	STA	HUNTINGTON, WV	BLANK0000079795	173.0 km
	WBGU-TV	D22	DT	LIC	BOWLING GREEN, OH	BLANK0000063785	152.9
	WDTI	D23	DT	CP	INDIANAPOLIS, IN	BLANK0000034481	271.5
	WKPI-TV	D23	DT	CP	PIKEVILLE, KY	BLANK0000034629	297.9
	WNWO-TV	D23	DT	CP	TOLEDO, OH	BLANK0000033631	194.4
	WPXI	D23	DT	LIC	PITTSBURGH, PA	BLANK0000080213	262.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
29030.1 2,762,344	28345.9 2,723,464	26306.1 2,652,999	26035.1 2,647,769	1.03 0.20
Undesired	Total IX	Unique IX, before	Unique IX, after	
WSAZ-TV D23 DT STA	462.9 12,349		271.0 5,230	
WBGU-TV D22 DT LIC	4.0 99	0.0 0	0.0 0	
WDTI D23 DT CP	48.2 2,091	4.0 151	0.0 0	
WKPI-TV D23 DT CP	19.9 260	4.0 0	0.0 0	
WNWO-TV D23 DT CP	1935.4 65,176	1835.3 61,987	1727.4 57,759	
WPXI D23 DT LIC	144.3 6,211	96.4 5,138	88.4 4,956	

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Interference to BLDTL20110318AAC LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WQMC-LD	D23	LD	LIC	COLUMBUS, OH	BLDTL20110318AAC	
Undesireds:	WSAZ-TV	D23	DT	STA	HUNTINGTON, WV	BLANK0000079795	169.3 km
	WOCB-CD	D22	DC	LIC	MARION, OH	BLANK0000072129	46.8
	WUEA-LD	D23	LD	LIC	South Bend, IN	BLANK0000004243	324.2
	WWHO	D23	DT	CP	CHILLICOTHE, OH	BLANK0000034759	5.4
	WNWO-TV	D23	DT	CP	TOLEDO, OH	BLANK0000033631	199.1
	WPXI	D23	DT	LIC	PITTSBURGH, PA	BLANK0000080213	266.0
	WDEM-CD	D24	DC	LIC	COLUMBUS, OH	BLANK0000071611	5.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
6172.8 1,582,199	6124.8 1,574,115	283.5 33,963	283.5 33,963	0.00 0.00
Undesired	Total IX	Unique IX, before	Unique IX, after	
WSAZ-TV D23 DT STA	4.0 1,196		0.0 0	
WOCB-CD D22 DC LIC	4.0 485	0.0 0	0.0 0	
WWHO D23 DT CP	5837.3 1,540,029	5825.3 1,538,223	5825.3 1,538,223	
WNWO-TV D23 DT CP	4.0 123	4.0 123	4.0 123	
WPXI D23 DT LIC	4.0 1,196	0.0 0	0.0 0	
WDEM-CD D24 DC LIC	4.0 125	0.0 0	0.0 0	

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Interference to BLANK0000080213 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WPXI	D23	DT	LIC	PITTSBURGH, PA	BLANK0000080213	
Undesireds:	WSAZ-TV	D23	DT	STA	HUNTINGTON, WV	BLANK0000079795	288.5 km
	WVPX-TV	D22	DT	LIC	AKRON, OH	BLANK0000080180	149.1
	WTOO-CD	D22	DC	CP	BOLIVAR, PA	BLANK0000073060	87.0
	WDVM-TV	D23	DT	LIC	HAGERSTOWN, MD	BLANK0000080408	195.0

**Table 1 WSAZ-TV TVStudy Analysis of Proposal  
Phase 6 and 7 Operation of WSAZ-TV Interim Ch. 23**  
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WETM-TV	D23	DT	CP	ELMIRA, NY	BLANK0000029984	319.1
WWHO	D23	DT	CP	CHILLICOTHE, OH	BLANK0000034759	262.7
WNWO-TV	D23	DT	CP	TOLEDO, OH	BLANK0000033631	311.1
WTAJ-TV	D24	DT	LIC	ALTOONA, PA	BLANK0000079898	132.6

  

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
27360.3 3,300,896	26371.3 3,233,271	25946.2 3,184,227	25942.2 3,184,166	0.02 0.00

  

Undesired	Total IX	Unique IX, before	Unique IX, after
WSAZ-TV D23 DT STA 4.0	61	4.0	61
WVPX-TV D22 DT LIC 55.8	9,025	19.9	5,448
WTOO-CD D22 DC CP 56.1	3,477	52.1	3,461
WDVM-TV D23 DT LIC 268.9	33,951	196.9	22,342
WETM-TV D23 DT CP 4.0	237	4.0	237
WWHO D23 DT CP 128.2	12,677	56.2	3,873
WNWO-TV D23 DT CP 16.0	5,042	0.0	0
WTAJ-TV D24 DT LIC 8.1	83	4.0	36

  

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Interference to BLANK0000026135 CP scenario 1

  

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: WAPW-CD	D23	DC	CP	ABINGDON, ETC., VA	BLANK0000026135	
Undesireds: WSAZ-TV	D23	DT	STA	HUNTINGTON, WV	BLANK0000079795	188.4 km
WKPI-TV	D23	DT	CP	PIKEVILLE, KY	BLANK0000034629	96.9
WBTW	D23	DT	LIC	CHARLOTTE, NC	BLCDT19991025AEB	173.8

  

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
4621.2 122,479	3732.1 101,039	3724.1 101,039	3716.1 100,991	0.21 0.05

  

Undesired	Total IX	Unique IX, before	Unique IX, after
WSAZ-TV D23 DT STA 8.0	48	8.0	48
WKPI-TV D23 DT CP 4.0	0	4.0	0
WBTW D23 DT LIC 4.0	0	4.0	0

  

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Interference to BLDTL20120619ABQ LIC scenario 1

  

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: WJDG-LD	D23	LD	LIC	GRUNDY, VA	BLDTL20120619ABQ	
Undesireds: WSAZ-TV	D23	DT	STA	HUNTINGTON, WV	BLANK0000079795	165.2 km
WKPI-TV	D23	DT	CP	PIKEVILLE, KY	BLANK0000034629	102.2
WBTW	D23	DT	LIC	CHARLOTTE, NC	BLCDT19991025AEB	202.6

  

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
4581.6 124,144	3692.8 98,889	3621.0 98,282	3621.0 98,282	0.00 0.00

  

Undesired	Total IX	Unique IX, before	Unique IX, after
WSAZ-TV D23 DT STA 8.0	0	0.0	0
WKPI-TV D23 DT CP 71.8	607	63.8	607
WBTW D23 DT LIC 8.0	0	0.0	0

  

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Interference to BLANK0000027764 CP scenario 1

\*\*IX: 0.87% interference caused

  

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: WVAH-TV	D24	DT	CP	CHARLESTON, WV	BLANK0000027764	
Undesireds: WSAZ-TV	D23	DT	STA	HUNTINGTON, WV	BLANK0000079795	29.8 km
WKON	D24	DT	CP	OWENTON, KY	BLANK0000034637	253.4
WCNC-TV	D24	DT	CP	CHARLOTTE, NC	BLANK0000063810	346.4
WEAO	D24	DT	CP	AKRON, OH	BLANK0000075952	298.2
WDEM-CD	D24	DC	LIC	COLUMBUS, OH	BLANK0000071611	195.4
WTAJ-TV	D24	DT	LIC	ALTOONA, PA	BLANK0000079898	381.8
WETP-TV	D24	DT	CP	SNEEDVILLE, TN	BLANK0000029748	251.9
WRLH-TV	D24	DT	CP	RICHMOND, VA	BLANK0000034147	389.9
WLFB	D25	DT	CP	BLUEFIELD, WV	BLANK0000034862	143.8

**Table 1 WSAZ-TV TVStudy Analysis of Proposal  
Phase 6 and 7 Operation of WSAZ-TV Interim Ch. 23**  
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Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
39340.0	1,373,555	38253.1	1,293,547	38054.1	1,287,816	37969.7	1,276,660	0.22	0.87
Undesired		Total IX		Unique IX, before		Unique IX, after			
WSAZ-TV D23 DT STA		84.5	11,156			84.5	11,156		
WKON D24 DT CP		3.9	14	3.9	14	3.9	14		
WCNC-TV D24 DT CP		11.9	136	8.0	48	8.0	48		
WEAO D24 DT CP		27.9	2,962	23.9	2,923	23.9	2,923		
WDEM-CD D24 DC LIC		27.9	982	15.9	657	15.9	657		
WTAJ-TV D24 DT LIC		12.0	327	4.0	41	4.0	41		
WETP-TV D24 DT CP		87.5	1,494	67.6	1,297	67.6	1,297		
WLFB D25 DT CP		63.7	426	43.8	229	43.8	229		

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**Table 2 TVStudy Analysis – Incoming Interference  
WSAZ-TV Proposed Operation Phase 6 to Phase 7**

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**WSAZ-TV on Pre-Auction Channel 23  
Interim Antenna LMS File# 0000079795**

Proposal: WSAZ-TV D23 DT STA HUNTINGTON, WV  
File number: BLANK0000079795  
Facility ID: 36912  
Station data: LMS TV 2019-09-18  
Record ID: 25076f916c250944016c251add6f007a  
Country: U.S.  
Zone: I

Channel: D23  
Latitude: 38 30 36.30 N (NAD83)  
Longitude: 82 13 9.50 W  
Height AMSL: 558.4 m  
HAAT: 332.0 m  
Peak ERP: 576 kW  
Antenna: RFS-SBB-24C170 (ID 1005326) 180.0 deg  
Elev Pattn: Generic  
Elec Tilt: 1.00

Study cell size: 2.00 km  
Profile point spacing: 0.20 km

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Interference to proposal scenario 1  
7.84% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WSAZ-TV	D23	DT	STA	HUNTINGTON, WV	BLANK0000079795	
Undesireds:	WKPI-TV	D23	DT	CP	PIKEVILLE, KY	BLANK0000034629	138.8 km
	WPXI	D23	DT	LIC	PITTSBURGH, PA	BLANK0000080213	288.5
	WVAH-TV	D24	DT	CP	CHARLESTON, WV	BLANK0000027764	29.8

Service area		Terrain-limited		IX-free		Percent IX	
25629.3	976,513	25234.7	953,709	24381.1	878,928	3.38	7.84
Undesired				Total IX	Unique IX	Prcnt Unique IX	
WKPI-TV	D23	DT	CP	345.5	9,249	309.7	7,581
WPXI	D23	DT	LIC	4.0	7	0.0	0
WVAH-TV	D24	DT	CP	543.9	67,200	504.0	65,525
						2.00	6.87

Phase 8 Station Omitted, not relevant through phase 7:  
WWHO D23 DT CP CHILLICOTHE, OH BLANK0000034759 173.0

**WSAZ-TV would receive 6.87 percent unique interference from WVAH-TV beginning at phase 6 when downstream station WVAH-TV commences operation on its reassignment Channel 24**