

**Special Displacement Window Application**

LPTV or Translator Facility:      WOVA-LD Facility ID 125125 Parkersburg WV  
Licensed Ch. 22    File# BLDTL-20120904ABM

Nature of Displacement:            Interference caused to WSAZ-TV Repack Ch. 22 Huntington WV  
TVStudy Displacement summary in Table 1

Proposed Facility:                    Ch. 20    15 kW ERP    nondirectional

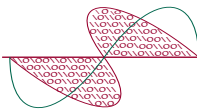
Modification Compliance:          0.0 km from licensed site  
Contour comparison in Figure 1  
TVStudy Analysis report in Table 2

Contingent Application Rule:        Waiver of §73.3700(g)(2)(i) requested  
Operation on proposed channel will not commence until the  
following station discontinues operation on its current channel:  
WVAH-TV Ch. 19 Charleston WV (repacked to Ch. 24, phase 6)  
The applicant will accept a corresponding special operating  
condition on the CP authorization.

RF Exposure:                          The calculated signal density near the tower at two meters above  
ground level attributable to the proposed facility is 0.6 percent of  
the general population/uncontrolled maximum permitted exposure  
limit. Calculations conducted pursuant to FCC OET Bulletin  
Number 65 and incorporate 20 percent relative field at downward  
angles (from antenna elevation pattern data). This is 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.

**Chesapeake RF Consultants, LLC**

Joseph M. Davis, P.E.                    April 5, 2018  
207 Old Dominion Road                  Yorktown, VA 23692                    703-650-9600

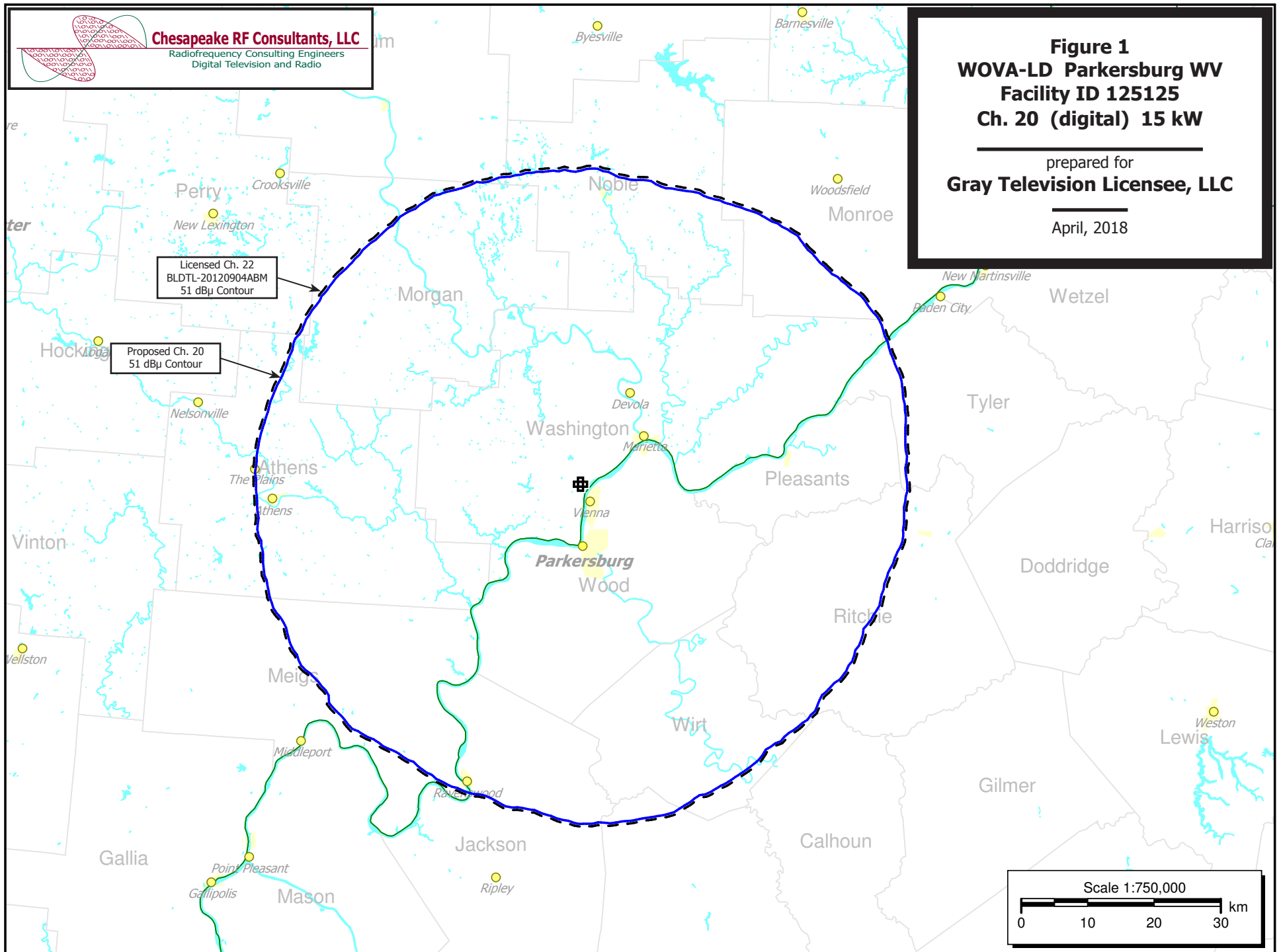


**Chesapeake RF Consultants, LLC**  
Radiofrequency Consulting Engineers  
Digital Television and Radio

**Figure 1**  
**WOVA-LD Parkersburg WV**  
**Facility ID 125125**  
**Ch. 20 (digital) 15 kW**

prepared for  
**Gray Television Licensee, LLC**

April, 2018



**Table 1 WOVA-LD Ch. 22 TV Study Displacement Summary**  
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## Interference caused to WSAZ-TV Repack Ch. 22 Huntington WV

Interference to BLANK0000034103 CP scenario 1

\*\*IX: 5.23% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WSAZ-TV	D22	DT	CP	HUNTINGTON, WV	BLANK0000034103	
Undesireds:	WOVA-LD	D22	LD	LIC	PARKERSBURG, WV	BLDTL20120904ABM	109.1 km
	WKYT-TV	D21	DT	CP	LEXINGTON, KY	BLANK0000034282	197.6
	WBNS-TV	D21	DT	LIC	COLUMBUS, OH	BLCDT20021025ABK	176.7
	WXIN	D22	DT	CP	INDIANAPOLIS, IN	BLANK0000034056	375.7
	WCVN-TV	D22	DT	CP	COVINGTON, KY	BLANK0000034633	206.5
	WVPX-TV	D22	DT	CP	AKRON, OH	BLANK0000026965	289.1
	WBGU-TV	D22	DT	CP	BOWLING GREEN, OH	BLANK0000027978	325.5
	WOCB-CD	D22	DC	CP	MARION, OH	BLANK0000034205	212.7
	WCTE	D22	DT	LIC	COOKEVILLE, TN	BLCDT20110413ACS	379.0
	WKPI-TV	D23	DT	CP	PIKEVILLE, KY	BLANK0000025330	138.8
	WWHO	D23	DT	CP	CHILLICOTHE, OH	BLANK0000027709	142.5

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
36769.6 1,279,374	34931.1 1,212,941	34635.4 1,203,655	33053.9 1,140,665	4.57 5.23

Undesired	Total IX	Unique IX, before	Unique IX, after
WOVA-LD D22 LD LIC 1680.3	67,864	1581.5	62,990
WKYT-TV D21 DT CP 2.0	60	1.0	0
WBNS-TV D21 DT LIC 5.0	176	0.0	0
WXIN D22 DT CP 7.0	88	2.0	0
WCVN-TV D22 DT CP 102.0	1,813	81.1	937
WVPX-TV D22 DT CP 54.7	3,992	46.7	335
WBGU-TV D22 DT CP 19.8	337	0.0	0
WOCB-CD D22 DC CP 29.8	362	7.9	94
WCTE D22 DT LIC 3.0	0	0.0	0
WKPI-TV D23 DT CP 52.7	1,718	51.7	1,395
WWHO D23 DT CP 77.4	1,581	67.4	1,114

**Table 2 WOVA-LD TVStudy Analysis of Proposal**  
(page 1 of 5)



tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: WOVA-LD Ch20 prop repack, Model: Longley-Rice  
Start: 2018.04.02 15:51:06

Study created: 2018.04.02 15:50:53

Study build station data: LMS TV 2018-04-01

Proposal: WOVA-LD D20 LD APP PARKERSBURG, WV  
File number: WOVA-LD Ch20 prop  
Facility ID: 125125  
Station data: User record  
Record ID: 1934  
Country: U.S.

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	74.7 km
No	W16CE	N16-	TX	LIC	CHARLESTON, WV	BLTTTL20030606ABF	108.6
No	WKYC	D19	DT	CP	CLEVELAND, OH	BLANK0000028024	226.6
No	WKYC	D19	DT	APP	CLEVELAND, OH	BLANK0000034823	226.6
No	WCLL-CD	D19	DC	LIC	COLUMBUS, OH	BLDTA20110616AAM	142.9
No	WYFX-LD	D19	LD	LIC	YOUNGSTOWN, OH	BLDTL20110329AAF	205.1
No	WBYD-CD	D19	DC	APP	PITTSBURGH, PA	BLANK0000034566	198.6
No	W19DU-D	D19	LD	CP	CLARKSBURG, WV	BNPDTL20100330AEP	109.5
No	WDGM-LD	D20	LD	CP	FORT WAYNE, IN	BLANK0000008633	350.5
No	WFFT-TV	D20	DT	CP	FORT WAYNE, IN	BLANK0000027652	364.8
No	W20CT-D	D20	LD	LIC	AUGUSTA, KY	BLDTT20080819ACK	220.6
No	WTVS	D20	DT	CP	DETROIT, MI	BLANK0000027886	369.9
No	WHNE-LD	D20	LD	LIC	DETROIT, MI	BLDTL20140922ADJ	369.9
No	WUNF-TV	D20	DD	CP	ASHEVILLE, NC	BLANK0000029742	467.0
No	WUNC-TV	D20	DT	CP	CHAPEL HILL, NC	BLANK0000034414	441.0
No	W20DD-D	D20	LD	LIC	MARION, ETC., NC	BLDTT20100209ABG	404.7
Yes	WLWT	D20	DT	CP	CINCINNATI, OH	BLANK0000034539	255.7
No	WOHZ-CD	D20	DC	CP	MANSFIELD, OH	BLANK0000026543	180.9
No	WLWD-LD	D20	LD	LIC	SPRINGFIELD, OH	BLANK0000017721	234.3
No	WLWD-LD	N20+	TX	LIC	SPRINGFIELD, OH	BLTT20051219ADW	208.1
Yes	WPGH-TV	D20	DT	CP	PITTSBURGH, PA	BLANK0000034375	184.1
Yes	WHSV-TV	D20	DT	CP	HARRISONBURG, VA	BLANK0000029912	235.5
No	WAZT-CD	D20	DC	CP	WOODSTOCK, VA	BLANK0000034549	322.2
Yes	W20DY-D	D20	LD	CP	ROANOKE, WV	BNPDTL20100514AAR	99.2
No	WQDI-LD	D21	LD	LIC	Cleveland, OH	BLDTL20150129ABN	111.7
No	WJW	D21	LD	CP	CLEVELAND, OH	BDRTCDT20101123AOJ	181.7
No	WBNS-TV	D21	DT	LIC	COLUMBUS, OH	BLCDT20021025ABK	142.9
No	WSSS-LP	D21	LD	CP	STEUBENVILLE, OH	BDISDTL20121022AAR	140.4
No	WPNT	D21	DT	APP	PITTSBURGH, PA	BLANK0000034376	184.1
No	WPNT	D21	DT	CP	PITTSBURGH, PA	BLANK0000025702	184.1
No	WOCW-LP	N21+	TX	LIC	CHARLESTON, WV	BLTTTL20051114AGM	108.5
No	WOCW-LP	D21+	LD	CP	CHARLESTON, WV	BLANK0000007638	108.7
No	W22CY	N22-	TX	LIC	CLARKSBURG, WV	BLTTTL20060120ADM	109.5

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  
Mask: Full Service  
Latitude: 39 20 59.80 N (NAD83)  
Longitude: 81 33 55.40 W  
Height AMSL: 414.6 m  
HAAT: 0.0 m  
Peak ERP: 15.0 kW  
Antenna: Omnidirectional  
Elev Pattn: Generic  
Elec Tilt: 1.50

49.4 dBu contour:

**Table 2 WOVA-LD TV Study Analysis of Proposal**  
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Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	155.9 m	49.0 km
45.0	15.0	187.7	51.0
90.0	15.0	186.0	50.9
135.0	15.0	184.0	50.8
180.0	15.0	219.3	52.8
225.0	15.0	203.5	51.9
270.0	15.0	180.7	50.6
315.0	15.0	167.7	49.8

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m Computed HAAT: 186 m

Proposal 24.36 dBu contour does not cross Canadian border  
Distance to Canadian border: 268.0 km

Distance to Mexican border: 2061.8 km

Conditions at FCC monitoring station: Laurel MD  
Bearing: 91.4 degrees Distance: 408.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 280.1 degrees Distance: 2017.9 km

No land mobile station failures found

Study cell size: 1.00 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%

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Interference to BLANK0000034539 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WLWT	D20	DT	CP	CINCINNATI, OH	BLANK0000034539	
Undesireds:	WOVA-LD	D20	LD	APP	PARKERSBURG, WV	WOVA-LD Ch20 prop	255.7 km
	WIPB	D19	DT	CP	MUNCIE, IN	BLANK0000027189	131.0
	WDKY-TV	D19	DT	CP	DANVILLE, KY	BLANK0000034383	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
	WZTV	D20	DT	CP	NASHVILLE, TN	BLANK0000028847	375.5
	WVPB-TV	D20	DT	BL	HUNTINGTON, WV	DTVBL71657	212.8
	WRLW-CD	D21-	DC	CP	SALEM, IN	BLANK0000034328	147.6
	WKYT-TV	D21	DT	CP	LEXINGTON, KY	BLANK0000034282	121.0
	WBNS-TV	D21	DT	LIC	COLUMBUS, OH	BLCDT20021025ABK	158.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
32157.7	3,398,683	31695.4	3,387,501	30316.4	3,333,792	30308.5	3,333,694	0.03	0.00
Undesired		Total IX		Unique IX, before		Unique IX, after			
WOVA-LD	D20 LD APP	15.9	265	7.9	98	7.9	98		
WIPB	D19 DT CP	76.6	560	2.0	8	2.0	8		
WDKY-TV	D19 DT CP	501.9	26,999	38.2	1,185	38.2	1,185		
WAND	D20 DT CP	7.9	116	0.0	0	0.0	0		
WFFT-TV	D20 DT CP	429.6	15,660	336.1	14,752	333.1	14,684		
WTVS	D20 DT CP	5.0	205	0.0	0	0.0	0		
WZTV	D20 DT CP	11.1	211	0.0	0	0.0	0		
WVPB-TV	D20 DT BL	31.0	1,669	23.0	276	19.0	182		
WRLW-CD	D21- DC CP	5.0	57	0.0	0	0.0	0		
WKYT-TV	D21 DT CP	772.3	33,643	305.6	7,722	305.6	7,722		
WBNS-TV	D21 DT LIC	113.9	2,937	113.9	2,937	113.9	2,937		

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Interference to BLANK0000034539 CP scenario 2

**Table 2 WOVA-LD TV Study Analysis of Proposal**  
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Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WLWT	D20	DT	CP	CINCINNATI, OH	BLANK0000034539	
Undesireds:	WOVA-LD	D20	LD	APP	PARKERSBURG, WV	WOVA-LD Ch20 prop	255.7 km
	WIPB	D19	DT	CP	MUNCIE, IN	BLANK0000027189	131.0
	WDKY-TV	D19	DT	CP	DANVILLE, KY	BLANK0000034383	139.3
	WAND	D20	DT	APP	DECATUR, IL	BLANK0000034594	380.8
	WFFT-TV	D20	DT	CP	FORT WAYNE, IN	BLANK0000027652	227.9
	WTVS	D20	DT	CP	DETROIT, MI	BLANK0000027886	386.5
	WZTV	D20	DT	CP	NASHVILLE, TN	BLANK0000028847	375.5
	WVPB-TV	D20	DT	BL	HUNTINGTON, WV	DTVBL71657	212.8
	WRLW-CD	D21-	DC	CP	SALEM, IN	BLANK0000034328	147.6
	WKYT-TV	D21	DT	CP	LEXINGTON, KY	BLANK0000034282	121.0
	WBNS-TV	D21	DT	LIC	COLUMBUS, OH	BLCDT20021025ABK	158.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
32157.7 3,398,683	31695.4 3,387,501	30316.4 3,333,792	30308.5 3,333,694	0.03 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WOVA-LD D20 LD APP	15.9 265	7.9 98	
WIPB D19 DT CP	76.6 560	2.0 8	
WDKY-TV D19 DT CP	501.9 26,999	38.2 1,185	
WAND D20 DT APP	9.9 116	0.0 0	
WFFT-TV D20 DT CP	429.6 15,660	334.1 14,752	
WTVS D20 DT CP	5.0 205	0.0 0	
WZTV D20 DT CP	11.1 211	0.0 0	
WVPB-TV D20 DT BL	31.0 1,669	23.0 276	
WRLW-CD D21- DC CP	5.0 57	0.0 0	
WKYT-TV D21 DT CP	772.3 33,643	305.6 7,722	
WBNS-TV D21 DT LIC	113.9 2,937	113.9 2,937	

Interference to BLANK0000034375 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WPGH-TV	D20	DT	CP	PITTSBURGH, PA	BLANK0000034375	
Undesireds:	WOVA-LD	D20	LD	APP	PARKERSBURG, WV	WOVA-LD Ch20 prop	184.1 km
	WKYC	D19	DT	CP	CLEVELAND, OH	BLANK0000028024	172.7
	WBND-CD	D19	DC	APP	PITTSBURGH, PA	BLANK0000034566	24.9
	WTVS	D20	DT	CP	DETROIT, MI	BLANK0000027886	341.6
	WOHZ-CD	D20	DC	CP	MANSFIELD, OH	BLANK0000026543	222.5
	WHSV-TV	D20	DT	CP	HARRISONBURG, VA	BLANK0000029912	265.7
	WSEE-TV	D21	DT	CP	ERIE, PA	BLANK0000028628	174.4
	WPNT	D21	DT	APP	PITTSBURGH, PA	BLANK0000034376	0.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
27150.8 3,240,087	25534.6 3,112,622	25452.4 3,105,785	25380.0 3,102,464	0.28 0.11

Undesired	Total IX	Unique IX, before	Unique IX, after
WOVA-LD D20 LD APP	75.3 3,374	72.4 3,321	
WBND-CD D19 DC APP	7.0 147	7.0 147	
WTVS D20 DT CP	15.1 831	14.1 831	
WOHZ-CD D20 DC CP	3.0 53	2.0 53	
WHSV-TV D20 DT CP	46.1 5,751	46.1 5,751	
WPNT D21 DT APP	12.0 55	12.0 55	

Interference to BLANK0000034375 CP scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WPGH-TV	D20	DT	CP	PITTSBURGH, PA	BLANK0000034375	
Undesireds:	WOVA-LD	D20	LD	APP	PARKERSBURG, WV	WOVA-LD Ch20 prop	184.1 km
	WKYC	D19	DT	CP	CLEVELAND, OH	BLANK0000028024	172.7
	WBND-CD	D19	DC	APP	PITTSBURGH, PA	BLANK0000034566	24.9
	WTVS	D20	DT	CP	DETROIT, MI	BLANK0000027886	341.6
	WOHZ-CD	D20	DC	CP	MANSFIELD, OH	BLANK0000026543	222.5
	WHSV-TV	D20	DT	CP	HARRISONBURG, VA	BLANK0000029912	265.7
	WSEE-TV	D21	DT	CP	ERIE, PA	BLANK0000028628	174.4
	WPNT	D21	DT	CP	PITTSBURGH, PA	BLANK0000025702	0.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
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**Table 2 WOVA-LD TVStudy Analysis of Proposal**  
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27150.8 3,240,087 25534.6 3,112,622 25459.4 3,105,834 25387.0 3,102,513 0.28 0.11

Undesired		Total IX	Unique IX, before	Unique IX, after
WOVA-LD D20 LD APP	75.3	3,374		72.4 3,321
WBYD-CD D19 DC APP	7.0	147	7.0 147	
WTVS D20 DT CP	15.1	831	14.1 831	13.1 831
WOHZ-CD D20 DC CP	3.0	53	2.0 53	1.0 0
WHSV-TV D20 DT CP	46.1	5,751	46.1 5,751	46.1 5,751
WPNT D21 DT CP	5.0	6	5.0 6	5.0 6

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Interference to BLANK0000029912 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WHSV-TV	D20	DT	CP	HARRISONBURG, VA	BLANK0000029912	
Undesireds:	WOVA-LD	D20	LD	APP	PARKERSBURG, WV	WOVA-LD Ch20 prop	235.5 km
	WLHG-CD	D19	DC	CP	LYNCHBURG, VA	BLANK0000034402	90.6
	WUNC-TV	D20	DT	CP	CHAPEL HILL, NC	BLANK0000034414	255.9
	WPGH-TV	D20	DT	CP	PITTSBURGH, PA	BLANK0000034375	265.7
	WGNT	D20	DT	CP	PORTSMOUTH, VA	BLANK0000034473	290.0
	WAZT-CD	D20	DC	CP	WOODSTOCK, VA	BLANK0000034549	167.8
	WVPB-TV	D20	DT	BL	HUNTINGTON, WV	DTVBL71657	254.5
	WWCW	D21	DT	CP	LYNCHBURG, VA	BLANK0000027725	98.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
27350.3	829,013	22273.7	708,919	19115.1	555,856	19115.1 555,856	0.00 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
WOVA-LD D20 LD APP	3.0	0		0.0 0
WLHG-CD D19 DC CP	686.5	86,924	67.9 4,870	67.9 4,870
WUNC-TV D20 DT CP	974.4	34,872	207.4 3,187	207.4 3,187
WPGH-TV D20 DT CP	86.9	210	71.0 2	69.0 2
WGNT D20 DT CP	2038.0	72,011	1280.7 38,660	1280.7 38,660
WAZT-CD D20 DC CP	274.0	5,586	216.8 4,171	216.8 4,171
WVPB-TV D20 DT BL	5.0	0	2.0 0	2.0 0
WWCW D21 DT CP	810.0	89,519	184.5 8,425	184.5 8,425

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Interference to BNPDTL20100514AAR CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W20DY-D	D20	LD	CP	ROANOKE, WV	BNPDTL20100514AAR	
Undesireds:	WOVA-LD	D20	LD	APP	PARKERSBURG, WV	WOVA-LD Ch20 prop	99.2 km
	W19DU-D	D19	LD	CP	CLARKSBURG, WV	BNPDTL20100330AEP	40.4
	WLWD-LD	D20	LD	LIC	SPRINGFIELD, OH	BLANK0000017721	331.3
	WPGH-TV	D20	DT	CP	PITTSBURGH, PA	BLANK0000034375	176.3
	WOCW-LP	N21+	TX	LIC	CHARLESTON, WV	BLTTL20051114AGM	117.5
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
3432.4	59,288	2999.1	46,185	2878.6	43,207	2835.7 42,787	1.49 0.97

Undesired		Total IX	Unique IX, before	Unique IX, after
WOVA-LD D20 LD APP	74.7	1,027		42.8 420
W19DU-D D19 LD CP	14.9	777	7.0 344	7.0 344
WPGH-TV D20 DT CP	113.6	2,634	105.7 2,201	75.8 1,689

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Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WOVA-LD	D20	LD	APP	PARKERSBURG, WV	WOVA-LD Ch20 prop	
Undesireds:	WLWT	D20	DT	CP	CINCINNATI, OH	BLANK0000034539	255.7 km
	WLWD-LD	D20	LD	LIC	SPRINGFIELD, OH	BLANK0000017721	234.3
	WPGH-TV	D20	DT	CP	PITTSBURGH, PA	BLANK0000034375	184.1
	W20DY-D	D20	LD	CP	ROANOKE, WV	BNPDTL20100514AAR	99.2
	WOCW-LP	N21+	TX	LIC	CHARLESTON, WV	BLTTL20051114AGM	108.5
Service area		Terrain-limited		IX-free		Percent IX	
8093.5	261,320	7728.4	249,111	7560.5	244,460	2.17 1.87	

**Table 2    WOVA-LD TVStudy Analysis of Proposal**  
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Undesired		Total IX		Unique IX	Prcnt Unique IX	
WLWT D20 DT CP	45.7	2,971	18.8	1,890	0.24	0.76
WPGH-TV D20 DT CP	133.2	2,482	103.4	1,418	1.34	0.57
W20DY-D D20 LD CP	22.8	306	14.9	262	0.19	0.11