

## EXHIBIT A: CH.24 TVSTUDY ANALYSIS

tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: hv-sta24\_tux, Model: Longley-Rice  
Start: 2021.11.04 18:04:54

Study created: 2021.11.04 18:04:54

Study build station data: LMS TV 2021-10-29 #2

Proposal: HV-STA24\_TUX D24 LD EXP Hunt valley, MD  
File number: hv-sta24\_tux  
Facility ID: 760246  
Station data: User record  
Record ID: 7  
Country: U.S.

Build options:  
Protect pre-transition records not on baseline channel

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WDDN-LD	D23	LD	LIC	WASHINGTON, DC	BLDTL20120810AAG	63.4 km
No	WDVM-TV	D23	DT	LIC	HAGERSTOWN, MD	BLANK0000080408	114.2
No	WDVM-TV	D23	DT	APP	HAGERSTOWN, MD	BLANK0000127595	108.2
No	W23ED-D	D23	LD	CP	SALISBURY, MD	BLANK0000068887	149.9
Yes	WMJF-CD	D23	DC	LIC	TOWSON, MD	BLANK0000116949	9.3
No	WNJS	D23	DT	LIC	CAMDEN, NJ	BLANK0000125056	157.5
No	WDWA-LD	D23	LD	LIC	Damascus, VA	BLDTL20140528ACM	96.2
No	WTVR-TV	D23	DT	LIC	RICHMOND, VA	BLANK0000109887	233.4
No	W23DR-D	D23	LD	LIC	ROMNEY, WV	BLDTT20090609AAZ	178.2
No	W28AJ	D24z	LD	CP	ALLINGTOWN, CT	BLANK0000152150	371.5
No	WDPB	D24	DT	LIC	SEAFORD, DE	BLANK0000080899	128.3
Yes	WWDD-LD	D24	LD	CP	HAVRE DE GRACE, MD	BLANK0000130050	35.7
No	W24EC-D	D24	LD	LIC	MANTEO, NC	BLDTL20150311AAN	411.0
No	W48DP-D	D24	LD	CP	ATLANTIC CITY, NJ	BLANK0000045666	189.9
No	WTEN	D24	DT	LIC	ALBANY, NY	BLANK0000082692	414.2
No	WPXJ-TV	D24	DT	LIC	BATAVIA, NY	BLANK0000106047	397.1
No	WNYE-TV	D24	DT	LIC	NEW YORK, NY	BLANK0000143561	267.6
No	W25FA-D	N24	TX	LIC	New york, NY	BLTTL20121024AAA	268.2
No	WONO-CD	D24	DC	LIC	SYRACUSE, ETC., NY	BLANK0000116745	400.2
No	WEAO	D24	DT	LIC	AKRON, OH	BLANK0000095195	458.4
No	WTAJ-TV	D24	DT	LIC	ALTOONA, PA	BLANK0000079898	194.5
No	W24DB-D	D24z	DC	LIC	CLARKS SUMMIT, PA	BLANK0000004543	231.4
No	DW24BB-D	D24	DC	BL	EAST STROUDSBURG, PA	DTVBL68137	197.9
No	W24EU-D	D24	LD	CP	ERIE, PA	BLANK0000071908	402.8
No	WPHA-CD	D24	DC	LIC	PHILADELPHIA, PA	BLDTA20130920ADK	136.4
No	WPXI	D24	LD	LIC	PITTSBURGH, PA	BLANK0000106625	260.3
No	WPDN-LD	D24	LD	LIC	PITTSBURGH, PA	BLDTL20110601ADS	301.9
No	W24CS-D	D24	LD	LIC	READING, PA	BLANK0000067784	116.8
No	WHSV-TV	D24	LD	LIC	Massanutten, VA	BLANK0000122198	155.4
No	WRLH-TV	D24	DT	LIC	RICHMOND, VA	BLANK0000081561	233.4
No	WDCO-CD	D24	DC	LIC	WOODSTOCK, VA	BLANK0000138193	70.1
No	WVAH-TV	D24	DT	LIC	CHARLESTON, WV	BLANK0000087458	469.1
No	W24ER-D	D24	LD	LIC	CLARKSBURG, WV	BLANK0000058555	313.7
No	W24ES-D	D24	LD	LIC	MOOREFIELD, WV	BLANK0000081242	201.7
No	WNUV	D25	DT	LIC	BALTIMORE, MD	BLANK0000136472	15.6
No	W42CK	D25+	LD	CP	HAGERSTOWN, MD	BLANK0000054340	97.8
No	WWOR-TV	D25	DT	LIC	SECAUCUS, NJ	BLANK0000054140	263.2
No	WTXF-TV	D25	LD	LIC	PHILADELPHIA, PA	BLANK0000064628	159.0
No	W25FG-D	D25	LD	LIC	Philadelphia, PA	BLANK0000124836	136.4
No	WRZH-LD	N27+	TX	LIC	RED LION-HARRISBURG, PA	BLTTL19870929IH	105.1

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  
Mask: Simple  
Latitude: 39 28 36.60 N (NAD83)  
Longitude: 76 39 13.32 W  
Height AMSL: 111.4 m  
HAAT: 0.0 m  
Peak ERP: 1.00 kW  
Antenna: Dielectric-TUX-01/01 80.0 deg  
Elev Pattn: Generic  
Elec Tilt: 0.75

49.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.086 kW	-31.7 m	9.8 km
45.0	0.555	-37.3	15.3
90.0	0.976	-5.3	18.0
135.0	0.347	1.0	13.7
180.0	0.062	6.3	9.0
225.0	0.028	-44.9	7.4
270.0	0.019	-70.1	6.8
315.0	0.004	-37.6	4.7

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: -27 m

Distance to Canadian border: 418.6 km

Distance to Mexican border: 2407.6 km

Conditions at FCC monitoring station: Laurel MD

Bearing: 202.6 degrees Distance: 37.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 281.0 degrees Distance: 2430.0 km

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 BLANK0000116949 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	WMJF-CD	D23	DC	LIC	TOWSON, MD	BLANK0000116949			
Undesireds:	HV-STA24_TUXD24	LD	EXP		Hunt valley, MD	hv-sta24_tux	9.3 km		
	WMPB	D22	DT	LIC	BALTIMORE, MD	BLANK0000107690	16.0		
	WDVM-TV	D23	DT	LIC	HAGERSTOWN, MD	BLANK0000080408	120.2		
	WNJS	D23	DT	LIC	CAMDEN, NJ	BLANK0000125056	155.0		
	WTVR-TV	D23	DT	LIC	RICHMOND, VA	BLANK0000109887	227.4		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
4309.4		2,355,226		4234.7 2,348,064		3880.9 2,256,054	0.05 0.14		
Undesired				Total IX	Unique IX, before	Unique IX, after			
HV-STA24_TUX D24 LD EXP				2.0 3,180		2.0 3,180			
WMPB D22 DT LIC				239.3 68,676	163.9 56,656	163.9 56,656			
WDVM-TV D23 DT LIC				25.8 2,479	5.0 646	5.0 646			
WNJS D23 DT LIC				164.2 30,007	88.8 18,591	88.8 18,591			
WTVR-TV D23 DT LIC				28.9 2,268	6.0 261	6.0 261			

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Interference to BLANK0000116949 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	WMJF-CD	D23	DC	LIC	TOWSON, MD	BLANK0000116949			
Undesireds:	HV-STA24_TUXD24	LD	EXP		Hunt valley, MD	hv-sta24_tux	9.3 km		
	WMPB	D22	DT	CP	BALTIMORE, MD	BLANK0000143850	16.0		
	WDVM-TV	D23	DT	LIC	HAGERSTOWN, MD	BLANK0000080408	120.2		
	WNJS	D23	DT	LIC	CAMDEN, NJ	BLANK0000125056	155.0		
	WTVR-TV	D23	DT	LIC	RICHMOND, VA	BLANK0000109887	227.4		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
4309.4		2,355,226		4234.7 2,348,064		3871.9 2,254,366	0.05 0.14		
Undesired				Total IX	Unique IX, before	Unique IX, after			
HV-STA24_TUX D24 LD EXP				2.0 3,180		2.0 3,180			
WMPB D22 DT CP				251.2 76,807	174.8 61,524	174.8 61,524			
WDVM-TV D23 DT LIC				25.8 2,479	5.0 646	5.0 646			
WNJS D23 DT LIC				164.2 30,007	87.8 15,328	87.8 15,328			
WTVR-TV D23 DT LIC				28.9 2,268	6.0 261	6.0 261			

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## Interference to BLANK0000116949 LIC scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WMJF-CD	D23	DC	LIC	TOWSON, MD	BLANK0000116949	
Undesireds:	HV-STA24_TUXD24	LD	EXP		Hunt valley, MD	hv-sta24_tux	9.3 km
	WMPB	D22	DT	LIC	BALTIMORE, MD	BLANK0000107690	16.0
	WDVM-TV	D23	DT	APP	HAGERSTOWN, MD	BLANK0000127595	109.8
	WNJS	D23	DT	LIC	CAMDEN, NJ	BLANK0000125056	155.0
	WTVR-TV	D23	DT	LIC	RICHMOND, VA	BLANK0000109887	227.4
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	4309.4	2,355,226	4234.7	2,348,064	3878.8	2,253,643	0.05 0.14
Undesired				Total IX	Unique IX, before	Unique IX, after	
HV-STA24_TUX D24 LD EXP		2.0		3,180		2.0	3,180
WMPB D22 DT LIC		239.3		68,676	161.9	54,869	161.9 54,869
WDVM-TV D23 DT APP		28.8		9,890	8.9	3,057	8.9 3,057
WNJS D23 DT LIC		164.2		30,007	89.7	16,669	89.7 16,669
WTVR-TV D23 DT LIC		28.9		2,268	8.0	310	8.0 310

## Interference to BLANK0000116949 LIC scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WMJF-CD	D23	DC	LIC	TOWSON, MD	BLANK0000116949	
Undesireds:	HV-STA24_TUXD24	LD	EXP		Hunt valley, MD	hv-sta24_tux	9.3 km
	WMPB	D22	DT	CP	BALTIMORE, MD	BLANK0000143850	16.0
	WDVM-TV	D23	DT	APP	HAGERSTOWN, MD	BLANK0000127595	109.8
	WNJS	D23	DT	LIC	CAMDEN, NJ	BLANK0000125056	155.0
	WTVR-TV	D23	DT	LIC	RICHMOND, VA	BLANK0000109887	227.4
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	4309.4	2,355,226	4234.7	2,348,064	3867.9	2,248,775	0.05 0.14
Undesired				Total IX	Unique IX, before	Unique IX, after	
HV-STA24_TUX D24 LD EXP		2.0		3,180		2.0	3,180
WMPB D22 DT CP		251.2		76,807	172.8	59,737	172.8 59,737
WDVM-TV D23 DT APP		28.8		9,890	8.9	3,057	8.9 3,057
WNJS D23 DT LIC		164.2		30,007	88.7	13,406	88.7 13,406
WTVR-TV D23 DT LIC		28.9		2,268	8.0	310	8.0 310

## Interference to BLANK0000130050 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WWDD-LD	D24	LD	CP	HAVRE DE GRACE, MD	BLANK0000130050	
Undesireds:	HV-STA24_TUXD24	LD	EXP		Hunt valley, MD	hv-sta24_tux	35.7 km
	WMJF-CD	D23	DC	LIC	TOWSON, MD	BLANK0000116949	33.5
	WDPB	D24	DT	LIC	SEAFORD, DE	BLANK0000080899	110.0
	WNYE-TV	D24	DT	LIC	NEW YORK, NY	BLANK0000143561	236.0
	WTAJ-TV	D24	DT	LIC	ALTOONA, PA	BLANK0000079898	220.8
	WPHA-CD	D24	DC	LIC	PHILADELPHIA, PA	BLDTA20130920ADK	103.8
	W24CS-D	D24	LD	LIC	READING, PA	BLANK0000067784	97.7
	WRLH-TV	D24	DT	LIC	RICHMOND, VA	BLANK0000081561	252.1
	WDCO-CD	D24	DC	LIC	WOODSTOCK, VA	BLANK0000138193	96.6
	WNUV	D25	DT	LIC	BALTIMORE, MD	BLANK0000136472	40.4
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	4730.2	1,335,030	4650.4	1,320,383	4356.3	1,041,702	0.68 1.51
Undesired				Total IX	Unique IX, before	Unique IX, after	
HV-STA24_TUX D24 LD EXP		83.0		34,189		29.6	15,988
WMJF-CD D23 DC LIC		51.5		74,891	4.0	6,458	3.0 4,896
WDPB D24 DT LIC		14.0		4,825	4.0	321	4.0 321
WNYE-TV D24 DT LIC		2.0		682	0.0	0	0.0 0
WTAJ-TV D24 DT LIC		22.0		2,008	4.0	148	4.0 148
WPHA-CD D24 DC LIC		2.0		251	0.0	0	0.0 0
W24CS-D D24 LD LIC		23.2		878	15.1	674	15.1 674
WRLH-TV D24 DT LIC		27.0		3,505	7.1	261	7.1 261
WDCO-CD D24 DC LIC		60.6		137,595	13.0	29,708	13.0 29,708
WNUV D25 DT LIC		227.9		223,625	150.6	78,448	112.1 70,401

Interference to proposal scenario 1  
32.81% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	HV-STA24_TUXD	24	LD	EXP	Hunt valley, MD	hv-sta24_tux	
Undesireds:	WMJF-CD	D23	DC	LIC	TOWSON, MD	BLANK0000116949	9.3 km
	WDPB	D24	DT	LIC	SEAFORD, DE	BLANK0000080899	128.3
	WWDD-LD	D24	LD	CP	HAVRE DE GRACE, MD	BLANK0000130050	35.7
	WTAJ-TV	D24	DT	LIC	ALTOONA, PA	BLANK0000079898	194.5
	W24CS-D	D24	LD	LIC	READING, PA	BLANK0000067784	116.8
	WHSV-TV	D24	LD	LIC	Massanutten, VA	BLANK0000122198	155.4
	WRLH-TV	D24	DT	LIC	RICHMOND, VA	BLANK0000081561	233.4
	WDCO-CD	D24	DC	LIC	WOODSTOCK, VA	BLANK0000138193	70.1
	WNUV	D25	DT	LIC	BALTIMORE, MD	BLANK0000136472	15.6

	Service area	Terrain-limited	IX-free	Percent IX
	410.4	155,700	381.7	140,602
			278.9	94,467
				26.95
				32.81

Undesired	Total IX	Unique IX	Prcnt Unique IX
WMJF-CD D23 DC LIC	40.6	22,601	1.0
WDPB D24 DT LIC	11.9	8,550	0.0
WWDD-LD D24 LD CP	74.2	33,230	15.8
WTAJ-TV D24 DT LIC	34.6	15,019	0.0
W24CS-D D24 LD LIC	1.0	114	0.0
WHSV-TV D24 LD LIC	1.0	2	0.0
WRLH-TV D24 DT LIC	18.8	6,601	0.0
WDCO-CD D24 DC LIC	32.6	14,846	0.0
WNUV D25 DT LIC	84.1	31,491	11.9
			2,545
			3.11
			1.81