

EXHIBIT A: CH30 TVSTUDY ANALYSIS

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: hv-sta30_tux, Model: Longley-Rice
Start: 2021.11.05 09:12:50

Study created: 2021.11.05 09:12:50

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

Proposal: HV-STA30_TUX D30 LD EXP Hunt valley, MD
File number: hv-sta30_tux
Facility ID: 760246
Station data: User record
Record ID: 11
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	WRZH-LD	N27+	TX	LIC	RED LION-HARRISBURG, PA	BLTTL19870929IH	105.1 km
No	W29FM-D	D29	LD	CP	WYOMING, DE	BLANK0000071866	113.4
No	WWPB	D29	DT	LIC	HAGERSTOWN, MD	BLANK0000114259	114.5
No	WMDT	D29	DT	LIC	SALISBURY, MD	BLANK0000125726	134.3
No	W29FF-D	D29	LD	LIC	ATLANTIC CITY, NJ	BLANK0000094133	183.7
No	WELL-LD	D29	LD	LIC	PHILADELPHIA, PA	BLANK0000150430	136.4
No	W28DP-D	D29	LD	CP	POTTSVILLE, PA	BLANK0000131982	138.8
No	WQMY	D29	DT	LIC	WILLIAMSPORT, PA	BLCDT20090223ABU	195.6
No	WQMY	D29	DT	CP	WILLIAMSPORT, PA	BLANK0000035754	195.6
No	WDWA-LD	D29	LD	CP	Damascus, VA	BLANK0000112251	52.2
No	WCVW	D29	DT	LIC	RICHMOND, VA	BLANK0000112380	233.4
No	WEDH	D30	DT	LIC	HARTFORD, CT	BLANK0000080371	406.5
No	WIAV-CD	D30	DC	LIC	WASHINGTON, DC	BLANK0000133452	70.1
No	W30DT-D	D30	LD	CP	SALISBURY, MD	BDCCDTL20120628AAS	148.3
No	W30DN-D	D30	LD	LIC	MANTEO, NC	BLDTL20150311AAK	411.0
No	WNJJ-LD	D30	LD	CP	PATERSON, NJ	BLANK0000163168	250.6
No	WYDC	D30	DT	LIC	CORNING, NY	BLANK0000086927	298.4
No	WYNB-LD	D30	LD	LIC	ELLENVILLE, NY	BLANK0000116043	312.8
No	WYXN-LD	D30	LD	CP	NEW YORK, NY	BLANK0000054668	252.1
No	WNYN-LD	D30	LD	CP	NEW YORK, NY	BLANK0000078764	244.1
No	WBUO-LD	N30+	TX	LIC	OLEAN, NY	BLTT20020307ABR	322.4
No	WBUO-LD	D30	LD	LIC	OLEAN, NY	BLANK0000120315	353.8
No	WBUO-LD	D30	LD	APP	OLEAN, NY	BLANK0000130314	391.4
No	WAWW-LP	D30-	LD	CP	ROCHESTER, NY	BLANK0000144377	414.0
No	WUTR	D30	DT	LIC	UTICA, NY	BLCDT20040217ADC	426.0
No	WHIZ-TV	D30	DT	LIC	ZANESVILLE, OH	BLANK0000125049	458.6
No	WCZS-LD	D30	LD	LIC	CHAMBERSBURG, PA	BLANK0000141136	113.2
No	WPCW	D30	LD	LIC	JEANNETTE, PA	BLANK0000064153	225.3
No	W30EB-D	D30	LD	LIC	KINGSTON, PA	BLANK0000150592	214.3
No	KYW-TV	D30	DT	LIC	PHILADELPHIA, PA	BLANK0000129344	136.0
No	WBPA-LD	N30+	TX	LIC	PITTSBURGH, PA	BLANK0000007299	307.4
No	WPTG-CD	D30	DC	LIC	Pittsburgh, PA	BLANK0000129480	301.9
No	W30EI-D	D30z	LD	LIC	SHARON, PA	BLANK0000107600	375.0
No	WVIR-TV	D30	LD	APP	CHARLOTTESVILLE, VA	BLANK0000130293	174.4
No	WSVW-LD	D30	LD	LIC	HARRISONBURG, VA	BLANK0000120244	219.1
No	WFWG-LD	D30	LD	LIC	RICHMOND, VA	BLANK0000080886	233.4
No	WDBJ	D30	DT	LIC	ROANOKE, VA	BLANK0000094109	396.9
No	W30CO-D	D30	LD	LIC	WHEELING, WV	BLDTT20100112AAM	356.1
Yes	WETA-TV	D31	DT	LIC	WASHINGTON, DC	BLANK0000120146	69.1
No	WETA-TV	D31	LD	CP	WASHINGTON, DC	BDRTEDT20090811ACE	79.8
No	WPPX-TV	D31	DT	LIC	WILMINGTON, DE	BLCDT20031203AFL	136.4
No	WATM-TV	D31	DT	LIC	ALTOONA, PA	BLANK0000105303	194.7
No	WLHY-LD	D31	LD	LIC	Lebanon - Harrisburg, PA	BLANK0000153613	88.8
No	WTFX-TV	D31	DT	LIC	PHILADELPHIA, PA	BLANK0000080320	136.2
No	WAHU-LD	D31	LD	CP	CROZET, VA	BLANK0000158120	229.4

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D30
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

50.3 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.086 kW	-31.7 m	9.5 km
45.0	0.555	-37.3	15.1
90.0	0.976	-5.3	17.4
135.0	0.347	1.0	13.3
180.0	0.062	6.3	8.7
225.0	0.028	-44.9	7.2
270.0	0.019	-70.1	6.6
315.0	0.004	-37.6	4.5

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%

 Interference to BLANK0000120146 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WETA-TV	D31	DT	LIC	WASHINGTON, DC	BLANK0000120146	
Undesireds:	HV-STA30_TUXD30	LD	EXP		Hunt valley, MD	hv-sta30_tux	69.1 km
	WIAV-CD	D30	DC	LIC	WASHINGTON, DC	BLANK0000133452	1.1
	WATM-TV	D31	DT	LIC	ALTOONA, PA	BLANK0000105303	214.3
	WTFX-TV	D31	DT	LIC	PHILADELPHIA, PA	BLANK0000080320	199.0
	WHRO-TV	D31	DT	LIC	HAMPTON-NORFOLK, VA	BLANK0000120642	243.3
	WBOC-TV	D32	DT	LIC	SALISBURY, MD	BLANK0000079962	134.0
	WHP-TV	D32	DT	LIC	HARRISBURG, PA	BLANK0000080028	156.1
	WCAV	D32	DT	LIC	CHARLOTTESVILLE, VA	BLANK0000092578	162.5

	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	26569.0	8,321,076	25562.9	8,262,915	24501.0	8,179,660	0.13 0.20

Undesired	Total IX	Unique IX, before	Unique IX, after
HV-STA30 TUX D30 LD EXP	38.5	16,340	31.6 16,003
WIAV-CD D30 DC LIC	1.0	0	1.0 0
WATM-TV D31 DT LIC	213.4	17,854	127.9 9,394
WTFX-TV D31 DT LIC	582.3	55,870	382.5 41,102
WHRO-TV D31 DT LIC	419.9	22,726	281.6 16,552
WBOC-TV D32 DT LIC	88.2	2,505	27.0 315
WHP-TV D32 DT LIC	16.1	1,682	10.1 552
WCAV D32 DT LIC	1.0	51	0.0 0

 Interference to proposal scenario 1
 17.60% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	HV-STA30_TUXD30	LD	EXP		Hunt valley, MD	hv-sta30_tux	
Undesireds:	WIAV-CD	D30	DC	LIC	WASHINGTON, DC	BLANK0000133452	70.1 km
	WCZS-LD	D30	LD	LIC	CHAMBERSBURG, PA	BLANK0000141136	113.2
	KYW-TV	D30	DT	LIC	PHILADELPHIA, PA	BLANK0000129344	136.0
	WETA-TV	D31	DT	LIC	WASHINGTON, DC	BLANK0000120146	69.1

Service area	Terrain-limited		IX-free	Percent IX
388.6 146,361	354.0 134,379	296.7	110,727	16.20 17.60
Undesired	Total IX		Unique IX	Prcnt Unique IX
WIAV-CD D30 DC LIC	47.5 19,621	25.7	6,274	7.26 4.67
WCZS-LD D30 LD LIC	10.9 5,175	2.0	0	0.56 0.00
KYW-TV D30 DT LIC	26.7 17,043	6.9	3,982	1.96 2.96
WETA-TV D31 DT LIC	1.0 4,025	0.0	0	0.00 0.00