

EXHIBIT B: TVSTUDY ANALYSIS

tvstudy v2.2.5 (4uoc83)

Database: 127.0.0.1, Study: SinclairHQ_TUA-C1 #428, Model: Longley-Rice

Start: 2020.12.17 10:34:33

Study created: 2020.12.17 10:34:33

Study build station data: LMS TV 2020-12-17

Proposal: NEW02-24 D24 LD Hunt Valley, MD
File number: SinclairHQ_TUA-C1
Facility ID: 0
Station data: User record
Record ID: 391
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	WDPB	D24	DT	LIC	SEAFORD, DE	BLANK0000080899	128.3
Yes	WWDD-LD	D24	LD	CP	HAVRE DE GRACE, MD	BLANK0000129562	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	W25FA-D	N24	TX	LIC	West Orange, NJ	BLTTL20121024AAA	268.2
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	CP	NEW YORK, NY	BLANK0000035705	267.6
No	WNYE-TV	D24	DT	LIC	NEW YORK, NY	BLEDT20071228ABM	267.6
No	WRGB	D24	LD	LIC	SCHENECTADY, NY	BLCDT20110523AEL	353.8
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	W24EU-D	D24	LD	CP	ERIE, PA	BLANK0000071908	402.8
No	WPHA-CD	D24	DC	LIC	PHILADELPHIA, PA	BLDTA20130920ADK	136.4
No	WPHA-CD	D24	DC	CP	PHILADELPHIA, PA	BLANK0000036105	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	BLANK0000118371	70.1
No	WVAH-TV	D24	DT	LIC	CHARLESTON, WV	BLANK0000087458	469.1
No	W46EJ-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	BLANK0000059729	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	W36DO-D	D25	LD	CP	Philadelphia, PA	BLANK0000117919	136.4
No	W36DO-D	D25	LD	LIC	Philadelphia, PA	BLANK0000124836	136.4
No	WRZH-LP	N27+	TX	LIC	DOVER, DE	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 36.59 N (NAD83)
Longitude: 76 39 13.32 W
Height AMSL: 111.4 m
HAAT: 0.0 m
Peak ERP: 0.900 kW
Antenna: TUA-C1 80.0 deg
Elev Pattnr: Generic

49.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.000 kW	-31.7 m	3.1 km
45.0	0.335	-37.3	13.6
90.0	0.833	-5.3	17.3
135.0	0.069	1.0	9.3
180.0	0.003	6.3	4.2
225.0	0.002	-44.9	3.8
270.0	0.003	-70.1	4.2
315.0	0.003	-37.6	4.4

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 BLANK0000116949 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WMJF-CD	D23	DC	LIC	TOWSON, MD	BLANK0000116949	
Undesireds:	NEW02-24	D24	LD		Hunt Valley, MD	SinclairHQ_TUA-C1	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
	WETM-TV	D23	DT	CP	ELMIRA, NY	BLANK0000115775	301.3
	WTVR-TV	D23	DT	LIC	RICHMOND, VA	BLANK0000109887	227.4
	WPHA-CD	D24	DC	LIC	PHILADELPHIA, PA	BLDTA20130920ADK	136.7
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
4309.4 2,355,226		4234.7 2,348,064		3882.8 2,259,234		3881.8 2,256,974	0.03 0.10
Undesired			Total IX		Unique IX, before		Unique IX, after
NEW02-24 D24 LD			1.0 2,260		1.0 2,260		
WMPB D22 DT LIC			239.3 68,676		163.9 56,656		
WDVM-TV D23 DT LIC			25.8 2,479		5.0 646		
WNJS D23 DT LIC			164.2 30,007		88.8 18,591		
WTVR-TV D23 DT LIC			28.9 2,268		6.0 261		

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:	NEW02-24	D24	LD		Hunt Valley, MD	SinclairHQ_TUA-C1	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
	WETM-TV	D23	DT	CP	ELMIRA, NY	BLANK0000115775	301.3
	WTVR-TV	D23	DT	LIC	RICHMOND, VA	BLANK0000109887	227.4
	WPHA-CD	D24	DC	LIC	PHILADELPHIA, PA	BLDTA20130920ADK	136.7
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
4309.4 2,355,226		4234.7 2,348,064		3589.7 2,138,156		3588.7 2,135,896	0.03 0.11
Undesired			Total IX		Unique IX, before		Unique IX, after
NEW02-24 D24 LD			1.0 2,260		1.0 2,260		
WMPB D22 DT LIC			239.3 68,676		89.4 16,981		

WDVM-TV D23 DT APP	439.1	175,377	298.1	121,724	298.1	121,724
WNJS D23 DT LIC	164.2	30,007	80.8	15,360	80.8	15,360
WTVR-TV D23 DT LIC	28.9	2,268	4.0	103	4.0	103

Interference to BLANK0000129562 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WWDD-LD	D24	LD	CP	HAVRE DE GRACE, MD	BLANK0000129562	
Undesireds:	NEW02-24	D24	LD		Hunt Valley, MD	SinclairHQ_TUA-C1	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	CP	NEW YORK, NY	BLANK0000035705	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	BLANK0000118371	96.6
	WNUV	D25	DT	LIC	BALTIMORE, MD	BLANK0000059729	40.4
	W36DO-D	D25	LD	CP	Philadelphia, PA	BLANK0000117919	103.8
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	4775.9	1,240,255	4679.0	1,222,982	4398.9	1,042,900	4385.0 1,034,834 0.31 0.77

Undesired		Total IX	Unique IX, before	Unique IX, after
NEW02-24 D24 LD	46.5	14,747		13.8 8,066
WMJF-CD D23 DC LIC	42.6	42,547	2.0 2,378	2.0 2,378
WDPB D24 DT LIC	7.0	10,078	1.0 86	1.0 86
WNYE-TV D24 DT CP	8.0	1,790	1.0 4	1.0 4
WTAJ-TV D24 DT LIC	18.9	2,226	3.0 0	3.0 0
WPHA-CD D24 DC LIC	4.0	990	0.0 0	0.0 0
W24CS-D D24 LD LIC	30.2	1,817	22.1 1,379	22.1 1,379
WRLH-TV D24 DT LIC	21.9	16,092	6.0 171	6.0 171
WDCO-CD D24 DC LIC	54.6	103,600	15.0 26,476	14.0 26,466
WNUV D25 DT LIC	219.0	146,717	146.7 47,172	120.0 40,800

Interference to BLANK0000129562 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WWDD-LD	D24	LD	CP	HAVRE DE GRACE, MD	BLANK0000129562	
Undesireds:	NEW02-24	D24	LD		Hunt Valley, MD	SinclairHQ_TUA-C1	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	BLEDT20071228ABM	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	BLANK0000118371	96.6
	WNUV	D25	DT	LIC	BALTIMORE, MD	BLANK0000059729	40.4
	W36DO-D	D25	LD	CP	Philadelphia, PA	BLANK0000117919	103.8
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	4775.9	1,240,255	4679.0	1,222,982	4398.9	1,042,900	4385.0 1,034,834 0.31 0.77

Undesired		Total IX	Unique IX, before	Unique IX, after
NEW02-24 D24 LD	46.5	14,747		13.8 8,066
WMJF-CD D23 DC LIC	42.6	42,547	2.0 2,378	2.0 2,378
WDPB D24 DT LIC	7.0	10,078	1.0 86	1.0 86
WNYE-TV D24 DT LIC	5.0	768	1.0 4	1.0 4
WTAJ-TV D24 DT LIC	18.9	2,226	3.0 0	3.0 0
WPHA-CD D24 DC LIC	4.0	990	0.0 0	0.0 0
W24CS-D D24 LD LIC	30.2	1,817	22.1 1,379	22.1 1,379
WRLH-TV D24 DT LIC	21.9	16,092	6.0 171	6.0 171
WDCO-CD D24 DC LIC	54.6	103,600	15.0 26,476	14.0 26,466
WNUV D25 DT LIC	219.0	146,717	146.7 47,172	120.0 40,800

Interference to BLANK0000129562 CP scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WWDD-LD	D24	LD	CP	HAVRE DE GRACE, MD	BLANK0000129562	
Undesireds:	NEW02-24	D24	LD		Hunt Valley, MD	SinclairHQ_TUA-C1	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	CP	NEW YORK, NY	BLANK0000035705	236.0
WTAJ-TV	D24	DT	LIC	ALTOONA, PA	BLANK0000079898	220.8
WPHA-CD	D24	DC	CP	PHILADELPHIA, PA	BLANK0000036105	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	BLANK0000118371	96.6
WNUV	D25	DT	LIC	BALTIMORE, MD	BLANK0000059729	40.4
W36DO-D	D25	LD	CP	Philadelphia, PA	BLANK0000117919	103.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
4775.9 1,240,255	4679.0 1,222,982	4338.7 1,036,825	4324.9 1,028,759	0.32 0.78

Undesired		Total IX	Unique IX, before	Unique IX, after
NEW02-24 D24 LD	46.5	14,747		13.8 8,066
WMJF-CD D23 DC LIC	42.6	42,547	2.0 2,378	
WDPB D24 DT LIC	7.0	10,078	1.0 86	1.0 86
WNYE-TV D24 DT CP	8.0	1,790	1.0 4	1.0 4
WTAJ-TV D24 DT LIC	18.9	2,226	3.0 0	3.0 0
WPHA-CD D24 DC CP	83.0	11,935	60.1 6,075	60.1 6,075
W24CS-D D24 LD LIC	30.2	1,817	21.1 1,228	21.1 1,228
WRLH-TV D24 DT LIC	21.9	16,092	6.0 171	6.0 171
WDCO-CD D24 DC LIC	54.6	103,600	15.0 26,476	14.0 26,466
WNUV D25 DT LIC	219.0	146,717	137.8 46,183	111.1 39,811

Interference to BLANK0000129562 CP scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WWDD-LD	D24	LD	CP	HAVRE DE GRACE, MD	BLANK0000129562	
Undesireds:							
	NEW02-24	D24	LD		Hunt Valley, MD	SinclairHQ_TUA-C1	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	BLEDT20071228ABM	236.0
	WTAJ-TV	D24	DT	LIC	ALTOONA, PA	BLANK0000079898	220.8
	WPHA-CD	D24	DC	CP	PHILADELPHIA, PA	BLANK0000036105	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	BLANK0000118371	96.6
	WNUV	D25	DT	LIC	BALTIMORE, MD	BLANK0000059729	40.4
	W36DO-D	D25	LD	CP	Philadelphia, PA	BLANK0000117919	103.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
4775.9 1,240,255	4679.0 1,222,982	4338.7 1,036,825	4324.9 1,028,759	0.32 0.78

Undesired		Total IX	Unique IX, before	Unique IX, after
NEW02-24 D24 LD	46.5	14,747		13.8 8,066
WMJF-CD D23 DC LIC	42.6	42,547	2.0 2,378	
WDPB D24 DT LIC	7.0	10,078	1.0 86	1.0 86
WNYE-TV D24 DT LIC	5.0	768	1.0 4	1.0 4
WTAJ-TV D24 DT LIC	18.9	2,226	3.0 0	3.0 0
WPHA-CD D24 DC CP	83.0	11,935	60.1 6,075	60.1 6,075
W24CS-D D24 LD LIC	30.2	1,817	21.1 1,228	21.1 1,228
WRLH-TV D24 DT LIC	21.9	16,092	6.0 171	6.0 171
WDCO-CD D24 DC LIC	54.6	103,600	15.0 26,476	14.0 26,466
WNUV D25 DT LIC	219.0	146,717	137.8 46,183	111.1 39,811

Interference to proposal scenario 1

18.32% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	NEW02-24	D24	LD		Hunt Valley, MD	SinclairHQ_TUA-C1	
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	BLANK0000129562	35.7
	WNYE-TV	D24	DT	CP	NEW YORK, NY	BLANK0000035705	267.6
	WTAJ-TV	D24	DT	LIC	ALTOONA, PA	BLANK0000079898	194.5
	WPHA-CD	D24	DC	LIC	PHILADELPHIA, PA	BLDTA20130920ADK	136.4
	WRLH-TV	D24	DT	LIC	RICHMOND, VA	BLANK0000081561	233.4
	WDCO-CD	D24	DC	LIC	WOODSTOCK, VA	BLANK0000118371	70.1
	WNUV	D25	DT	LIC	BALTIMORE, MD	BLANK0000059729	15.6

Service area	Terrain-limited	IX-free	Percent IX
251.2 63,982	226.4 60,852	177.0 49,702	21.84 18.32

Undesired		Total IX	Unique IX	Prct Unique IX
WMJF-CD D23 DC LIC	13.8	2,136	0.0 0	0.00 0.00

WDPB D24 DT LIC	4.0	322	0.0	0	0.00	0.00
WWDD-LD D24 LD CP	32.6	8,601	9.9	5,266	4.37	8.65
WTAJ-TV D24 DT LIC	11.9	1,808	0.0	0	0.00	0.00
WRLH-TV D24 DT LIC	7.9	408	0.0	0	0.00	0.00
WDCO-CD D24 DC LIC	11.9	589	1.0	10	0.44	0.02
WNUV D25 DT LIC	36.6	4,691	9.9	1,824	4.37	3.00