

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Harrisburg31d15kwincbaat320ffff, Model: Longley-Rice

Start: 2022.02.10 07:50:09

Study created: 2022.02.10 07:50:09

Study build station data: LMS TV 2022-02-09 #127

Proposal: WLHY-LD D31 LD LIC LEBANON - HARRISBURG, PA

Facility ID: 187456

Station data: User record

Record ID: 1738

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	WIAV-CD	D30	DC	LIC	WASHINGTON, DC	BLANK00000133452	115.5 km
No	WNJJ-LD	D30	LD	CP	PATERSON, NJ	BLANK00000163168	220.3
No	WYDC	D30	DT	LIC	CORNING, NY	BLANK00000086927	252.1
No	WCZS-LD	D30	LD	LIC	CHAMBERSBURG, PA	BLANK00000141136	100.9
No	WPCW	D30	LD	LIC	JEANNETTE, PA	BLANK00000064153	218.9
No	W30EB-D	D30	LD	LIC	KINGSTON, PA	BLANK00000150592	167.3
Yes	KYW-TV	D30	DT	LIC	PHILADELPHIA, PA	BLANK00000129344	115.2
No	WVIR-TV	D30	LD	APP	CHARLOTTESVILLE, VA	BLANK00000130293	215.4
No	WVIT	D31	DT	LIC	NEW BRITAIN, CT	BLANK00000079823	373.3
Yes	WETA-TV	D31	DT	LIC	WASHINGTON, DC	BLANK00000120146	114.4
Yes	WETA-TV	D31	LD	CP	WASHINGTON, DC	BDRTEDT20090811ACE	113.5
No	WSKG-TV	D31	DT	LIC	BINGHAMTON, NY	BLANK00000116396	245.5
No	WNED-TV	D31	DT	LIC	BUFFALO, NY	BLANK00000107983	398.2
No	DDDW31BP	N31+	TX	APP	BURLINGTON, ETC., NY	BLTTL19980120JE	334.6
No	WZPK-LD	D31	LD	LIC	HIGHLAND, NY	BLANK00000113730	272.5
No	WHTV-LD	D31+	LD	LIC	New York, NY	BLANK00000153808	240.8
No	W31EF-D	D31+	LD	LIC	PORT JERVIS, NY	BLANK00000049440	220.2
No	WWTI	D31	DT	LIC	WATERTOWN, NY	BLANK00000079855	447.5
No	WYTV	D31	DT	LIC	YOUNGSTOWN, OH	BLANK00000081168	366.5
Yes	WATM-TV	D31	DT	LIC	ALTOONA, PA	BLANK00000105303	174.3
No	DWWBP-LP	N31+	TX	APP	FREEDOM, PA	BLTTL20040909ABD	323.0

Yes	WTFX-TV	D31	DT	LIC	PHILADELPHIA, PA	BLANK0000080320	115.5
No	WIIC-LD	D31+	LD	LIC	PITTSBURGH, PA	BLANK0000001503	293.4
No	WAHU-LD	D31	LD	LIC	CROZET, VA	BLANK0000177047	269.2
No	WHRO-TV	D31	DT	LIC	HAMPTON-NORFOLK, VA	BLANK0000120642	344.2
No	WOAY-TV	D31	DT	LIC	OAK HILL, WV	BLANK0000096583	450.3
No	WRZB-LD	D32	LD	LIC	WASHINGTON, DC	BLANK0000024420	115.5
No	WBOC-TV	D32	DT	LIC	SALISBURY, MD	BLANK0000079962	175.4
No	WLIW	D32	DT	LIC	GARDEN CITY, NY	BLANK0000086492	235.6
Yes	WHP-TV	D32	DT	LIC	HARRISBURG, PA	BLANK0000080028	54.7
No	WZPA-LD	D32	LD	LIC	PHILADELPHIA, PA	BLANK0000121505	149.9
No	WCAV	D32	DT	LIC	CHARLOTTESVILLE, VA	BLANK0000092578	269.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D31
 Mask: Full Service
 Latitude: 39 54 18.30 N (NAD83)
 Longitude: 76 34 57.20 W
 Height AMSL: 379.4 m
 HAAT: 0.0 m
 Peak ERP: 15.0 kW
 Antenna: PSI-PSILPD12BA (ID 111377) 320.0 deg
 Elev Pattn: Generic

50.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	13.0 kW	213.6 m	50.5 km
45.0	14.0	246.9	52.8
90.0	3.31	190.4	42.1
135.0	0.759	171.5	33.4
180.0	1.84	132.4	35.5
225.0	12.4	151.9	46.6
270.0	13.3	170.8	48.2
315.0	14.7	201.3	50.4

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 185 m

Distance to Canadian border: 379.6 km

Distance to Mexican border: 2438.5 km

Conditions at FCC monitoring station: Laurel MD
Bearing: 194.0 degrees Distance: 84.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 280.0 degrees Distance: 2427.3 km

Study cell size: 1.00 km
Profile point spacing: 0.10 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 BLANK0000129344 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KYW-TV	D30	DT	LIC	PHILADELPHIA, PA	BLANK0000129344	
Undesireds:	WLHY-LD	D31	LD	LIC	LEBANON - HARRISBURG, PA		115.2 km
	WQMY	D29	DT	LIC	WILLIAMSPORT, PA	BLCDT20090223ABU	204.1
	WEDH	D30	DT	LIC	HARTFORD, CT	BLANK0000080371	274.1
	WIAV-CD	D30	DC	LIC	WASHINGTON, DC	BLANK0000133452	199.7

	Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New
IX	34688.6	11,224,140	33540.8	11,007,444	33415.6	10,971,755	33390.5 10,965,692	0.08
	0.06							

Undesired		Total IX	Unique IX, before	Unique IX, after
WLHY-LD D31 LD LIC	28.1	6,151	25.1	6,063
WEDH D30 DT LIC	24.9	18,036	16.9	14,299

WIAV-CD D30 DC LIC	108.3	21,390	100.3	17,653	97.3	17,565
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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:	WLHY-LD	D31	LD	LIC	LEBANON - HARRISBURG, PA		114.4 km
	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

IX	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New
26569.0 0.38	8,321,076	25463.1	8,254,203	24342.7	1.27

Undesired	Total IX	Unique IX, before	Unique IX, after
WLHY-LD D31 LD LIC	418.7	37,894	312.3
WATM-TV D31 DT LIC	80.4	10,703	41.7
WTFX-TV D31 DT LIC	449.1	38,177	263.4
WHRO-TV D31 DT LIC	370.6	18,263	244.4
WBOC-TV D32 DT LIC	94.2	4,427	21.0
WHP-TV D32 DT LIC	6.0	366	1.0

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Interference to BDRTEDT20090811ACE CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WETA-TV	D31	LD	CP	WASHINGTON, DC	BDRTEDT20090811ACE	
Undesireds:	WLHY-LD	D31	LD	LIC	LEBANON - HARRISBURG, PA		113.5 km
	WIAV-CD	D30	DC	LIC	WASHINGTON, DC	BLANK0000133452	42.4
	WETA-TV	D31	DT	LIC	WASHINGTON, DC	BLANK0000120146	41.9
	WATM-TV	D31	DT	LIC	ALTOONA, PA	BLANK0000105303	176.9
	WTFX-TV	D31	DT	LIC	PHILADELPHIA, PA	BLANK0000080320	216.0

WAHU-LD	D31	LD	LIC	CROZET, VA	BLANK0000177047	156.5
WHRO-TV	D31	DT	LIC	HAMPTON-NORFOLK, VA	BLANK0000120642	274.9
WRZB-LD	D32	LD	LIC	WASHINGTON, DC	BLANK0000024420	42.4

IX	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New
3328.2	847,515	3138.8	812,682	1584.7	331,784
0.00				1583.7	331,784

Undesired	Total IX	Unique IX, before	Unique IX, after
WLHY-LD D31 LD LIC	6.9	627	1.0
WIAV-CD D30 DC LIC	10.9	4,206	0.0
WETA-TV D31 DT LIC	1540.2	478,672	1476.6
WATM-TV D31 DT LIC	12.9	9,354	1.0
WTFX-TV D31 DT LIC	34.8	4,017	4.0
WAHU-LD D31 LD LIC	13.9	2,102	4.0
WHRO-TV D31 DT LIC	14.9	2,811	2.0
WRZB-LD D32 LD LIC	28.8	10,483	1.0

Interference to BLANK0000105303 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WATM-TV	D31	DT	LIC	ALTOONA, PA	BLANK0000105303	
Undesireds:	WLHY-LD	D31	LD	LIC	LEBANON - HARRISBURG, PA		174.3 km
	WETA-TV	D31	DT	LIC	WASHINGTON, DC	BLANK0000120146	214.3
	WSKG-TV	D31	DT	LIC	BINGHAMTON, NY	BLANK0000116396	266.5
	WNED-TV	D31	DT	LIC	BUFFALO, NY	BLANK0000107983	276.5
	WYTV	D31	DT	LIC	YOUNGSTOWN, OH	BLANK0000081168	193.0
	WTFX-TV	D31	DT	LIC	PHILADELPHIA, PA	BLANK0000080320	277.9
	WMVH-CD	D32	DC	LIC	CHARLEROI, PA	BLANK0000079929	132.6
	WHP-TV	D32	DT	LIC	HARRISBURG, PA	BLANK0000080028	135.5
	WKHU-CD	D32	DC	LIC	KITTANNING, PA	BLANK0000079958	95.2

IX	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New
23354.4	890,526	19944.2	751,931	19745.7	748,853
0.02				19738.7	748,726

Undesired			Total IX	Unique IX, before		Unique IX, after	
WLHY-LD D31 LD LIC	24.0		300			7.0	127
WETA-TV D31 DT LIC	107.1		1,529	86.1	1,473	86.1	1,473
WSKG-TV D31 DT LIC	7.0		14	4.0	14	4.0	14
WNED-TV D31 DT LIC	16.1		114	4.0	66	4.0	66
WYTV D31 DT LIC	76.2		1,230	58.2	1,126	58.2	1,126
WTFX-TV D31 DT LIC	16.0		173	2.0	0	2.0	0
WHP-TV D32 DT LIC	19.0		295	9.0	122	4.0	122

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Interference to BLANK0000080320 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTFX-TV	D31	DT	LIC	PHILADELPHIA, PA	BLANK0000080320	
Undesireds:	WLHY-LD	D31	LD	LIC	LEBANON - HARRISBURG, PA		115.5 km
	KYW-TV	D30	DT	LIC	PHILADELPHIA, PA	BLANK00000129344	0.4
	WVIT	D31	DT	LIC	NEW BRITAIN, CT	BLANK00000079823	273.8
	WETA-TV	D31	DT	LIC	WASHINGTON, DC	BLANK00000120146	199.0
	WATM-TV	D31	DT	LIC	ALTOONA, PA	BLANK00000105303	277.9
	WHRO-TV	D31	DT	LIC	HAMPTON-NORFOLK, VA	BLANK00000120642	375.7
	WLIW	D32	DT	LIC	GARDEN CITY, NY	BLANK00000086492	127.9
	WHP-TV	D32	DT	LIC	HARRISBURG, PA	BLANK00000080028	142.5

IX	Service area	Terrain-limited	IX-free, before		IX-free, after		Percent New	
32418.3 0.36	10,779,133	30942.1	10,493,464	28570.9	9,880,994	28254.9	9,845,205	1.11

Undesired			Total IX	Unique IX, before		Unique IX, after	
WLHY-LD D31 LD LIC	1100.4		269,270			316.0	35,789
KYW-TV D30 DT LIC	28.9		2,654	23.0	1,792	19.0	1,568
WVIT D31 DT LIC	236.6		106,636	23.9	3,851	21.9	3,493
WETA-TV D31 DT LIC	1936.2		458,642	1376.1	219,128	1054.4	142,739
WATM-TV D31 DT LIC	305.3		91,206	58.0	11,799	40.0	9,492
WHRO-TV D31 DT LIC	3.0		0	0.0	0	0.0	0
WLIW D32 DT LIC	334.5		202,830	130.7	87,814	128.7	87,195
WHP-TV D32 DT LIC	373.9		121,667	139.4	29,333	34.1	5,129

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 Interference to BLANK0000080028 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHP-TV	D32	DT	LIC	HARRISBURG, PA	BLANK0000080028	
Undesireds:	WLHY-LD	D31	LD	LIC	LEBANON - HARRISBURG, PA		54.7 km
	WETA-TV	D31	DT	LIC	WASHINGTON, DC	BLANK0000120146	156.1
	WATM-TV	D31	DT	LIC	ALTOONA, PA	BLANK0000105303	135.5
	WTXF-TV	D31	DT	LIC	PHILADELPHIA, PA	BLANK0000080320	142.5
	WBOC-TV	D32	DT	LIC	SALISBURY, MD	BLANK0000079962	230.0
	WUTV	D32	DT	LIC	BUFFALO, NY	BLANK0000136979	343.4
	WLIW	D32	DT	LIC	GARDEN CITY, NY	BLANK0000086492	244.7
	WMVH-CD	D32	DC	LIC	CHARLEROI, PA	BLANK0000079929	258.0
	WKHU-CD	D32	DC	LIC	KITTANNING, PA	BLANK0000079958	230.4
	WCAV	D32	DT	LIC	CHARLOTTESVILLE, VA	BLANK0000092578	296.9
	WPXV-TV	D32	DT	LIC	NORFOLK, VA	BLANK0000113419	393.8
	WHUT-TV	D33	DT	LIC	WASHINGTON, DC	BLANK0000178029	156.1
	WPSG	D33	DT	LIC	PHILADELPHIA, PA	BLANK0000129342	142.2
	WQPX-TV	D33	DT	LIC	SCRANTON, PA	BLANK0000080158	154.6

	Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New
IX								
33664.3	4,030,514	29881.3	3,516,665	28838.2	3,280,114	28835.2	3,279,773	0.01
0.01								

Undesired			Total IX	Unique IX, before	Unique IX, after
WLHY-LD D31 LD LIC	3.0		341		3.0 341
WETA-TV D31 DT LIC	88.1		38,854	7.9 3,062	7.9 3,062
WATM-TV D31 DT LIC	15.9		591	15.9 591	15.9 591
WTXF-TV D31 DT LIC	168.7		47,647	4.0 137	4.0 137
WBOC-TV D32 DT LIC	726.2		166,310	499.4 98,526	499.4 98,526
WUTV D32 DT LIC	2.0		0	2.0 0	2.0 0
WLIW D32 DT LIC	71.2		15,414	18.0 2,781	18.0 2,781
WCAV D32 DT LIC	157.3		34,376	117.7 23,052	117.7 23,052
WPXV-TV D32 DT LIC	26.7		12,891	1.0 745	1.0 745
WHUT-TV D33 DT LIC	73.2		35,198	0.0 0	0.0 0
WPSG D33 DT LIC	251.1		62,439	54.2 9,653	54.2 9,653
WQPX-TV D33 DT LIC	6.0		51	4.0 36	4.0 36

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 Interference to proposal scenario 1
 13.74% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WLHY-LD	D31	LD	LIC	LEBANON - HARRISBURG, PA		
Undesireds:	WETA-TV	D31	DT	LIC	WASHINGTON, DC	BLANK0000120146	114.4 km
	WETA-TV	D31	LD	CP	WASHINGTON, DC	BDRTEDT20090811ACE	113.5
	WATM-TV	D31	DT	LIC	ALTOONA, PA	BLANK0000105303	174.3
	WTXF-TV	D31	DT	LIC	PHILADELPHIA, PA	BLANK0000080320	115.5
	WHP-TV	D32	DT	LIC	HARRISBURG, PA	BLANK0000080028	54.7

	Service area		Terrain-limited		IX-free		Percent IX
	6448.3	1,369,927	5763.5	1,135,439	4950.3	979,441	14.11 13.74

Undesired		Total IX		Unique IX	Prcnt Unique IX
WETA-TV D31 DT LIC	481.8	81,866	244.1	32,601	4.24 2.87
WETA-TV D31 LD CP	14.1	611	0.0	0	0.00 0.00
WATM-TV D31 DT LIC	71.4	8,480	11.1	901	0.19 0.08
WTXF-TV D31 DT LIC	318.4	50,149	159.7	30,650	2.77 2.70
WHP-TV D32 DT LIC	278.7	84,458	126.3	37,392	2.19 3.29