

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Lewisburg31d500wTUA80TT, Model: Longley-Rice

Start: 2021.06.11 10:27:56

Study created: 2021.06.11 10:27:56

Study build station data: LMS TV 2021-06-11

Proposal: W31FC-D D31 LD APP Lewisburg, PA

Facility ID: 187456

Station data: User record

Record ID: 44

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	WHVL-LP	N29+	TX	LIC	STATE COLLEGE, ETC., PA	BLTTTL19911123JH	96.9 km
No	WIAV-CD	D30	DC	LIC	WASHINGTON, DC	BLANK0000133452	223.6
No	WNJJ-LD	D30	LD	CP	PATERSON, NJ	BLANK0000054813	216.3
No	WYDC	D30	DT	LIC	CORNING, NY	BLANK0000086927	135.1
No	WYNB-LD	D30	LD	LIC	ELLENVILLE, NY	BLANK0000116043	221.7
No	WCZS-LD	D30	LD	LIC	Chambersburg, PA	BLANK0000141136	127.0
No	W43CO-D	D30	LD	CP	KINGSTON, PA	BLANK0000054197	88.4
No	KYW-TV	D30	DT	LIC	PHILADELPHIA, PA	BLANK0000129344	166.6
No	WELL-LD	D30	LD	LIC	PHILADELPHIA, PA	BLDTL20100208AAC	167.3
No	WVIT	D31	DT	LIC	NEW BRITAIN, CT	BLANK0000079823	343.4
No	WETA-TV	D31	DT	LIC	WASHINGTON, DC	BLANK0000120146	222.4
No	WETA-TV	D31	LD	CP	WASHINGTON, DC	BDRTEDT20090811ACE	206.2
No	WPPX-TV	D31	DT	LIC	WILMINGTON, DE	BLCDT20031203AFL	167.1
Yes	WSKG-TV	D31	DT	LIC	BINGHAMTON, NY	BLANK0000116396	144.2
No	WNED-TV	D31	DT	LIC	BUFFALO, NY	BLANK0000107983	289.8
No	W31BP	D31+	LD	CP	BURLINGTON, ETC., NY	BLANK0000054409	241.1
No	W31BP	N31+	TX	LIC	BURLINGTON, ETC., NY	BLTTTL19980120JE	241.1
No	WNCE-CD	D31	DC	LIC	GLENS FALLS, NY	BLDTA20100812ABN	363.9

No	WZPK-LD	D31	LD	LIC	HIGHLAND, NY	BLANK0000113730	221.7
No	WHTV-LD	D31+	LD	CP	PORT JERVIS, NY	BLANK0000144262	240.8
No	W31EF-D	D31+	LD	LIC	PORT JERVIS, NY	BLANK0000049440	216.3
No	WWTI	D31	DT	LIC	WATERTOWN, NY	BLANK0000079855	338.8
No	WYTV	D31	DT	LIC	YOUNGSTOWN, OH	BLANK0000081168	321.1
Yes	WATM-TV	D31	DT	LIC	ALTOONA, PA	BLANK0000105303	142.8
No	WWBP-LP	N31+	TX	LIC	FREEDOM, PA	BLTTTL20040909ABD	289.9
No	WWBP-LP	D31	LD	APP	FREEDOM, PA	BDFCDTL20121022ACD	277.8
No	WTFX-TV	D31	DT	LIC	PHILADELPHIA, PA	BLANK0000080320	167.0
No	WIIC-LD	D31+	LD	LIC	PITTSBURGH, PA	BLANK0000001503	270.6
No	KDKA-TV	D31	LD	APP	PITTSBURGH, PA	BDRTCDT20090630ADY	285.2
No	WHRO-TV	D31	DT	LIC	HAMPTON-NORFOLK, VA	BLANK0000120642	460.2
No	WRZB-LD	D32	LD	LIC	WASHINGTON, DC	BLANK0000024420	223.6
No	WLIW	D32	DT	LIC	GARDEN CITY, NY	BLANK0000086492	237.4
Yes	WHP-TV	D32	DT	LIC	HARRISBURG, PA	BLANK0000080028	66.4
No	WKHU-CD	D32	DC	CP	KITTANNING, PA	BLANK0000127549	228.8
No	WZPA-LD	D32	LD	LIC	PHILADELPHIA, PA	BLANK0000121505	214.7
No	W32FP-D	D32	LD	LIC	Scranton, PA	BLANK0000120702	131.2

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: Stringent
 Latitude: 40 56 29.20 N (NAD83)
 Longitude: 76 49 12.30 W
 Height AMSL: 439.1 m (Adjusted based on actual ground elevation calculation)
 HAAT: 0.0 m
 Peak ERP: 0.500 kW
 Antenna: DIE-TUA (ID 120649) 80.0 deg
 Elev Pattn: Generic

50.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.000 kW	278.7 m	7.2 km

45.0	0.186	276.5	31.4
90.0	0.463	256.2	35.3
135.0	0.038	237.3	21.6
180.0	0.001	252.9	9.6
225.0	0.001	249.7	8.7
270.0	0.002	266.5	9.9
315.0	0.002	278.4	10.7

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 262 m

Proposal 25.42 dBu contour does not cross Canadian border
Distance to Canadian border: 273.2 km

Distance to Mexican border: 2487.2 km

Conditions at FCC monitoring station: Laurel MD
Bearing: 180.0 degrees Distance: 197.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 277.3 degrees Distance: 2390.1 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 BLANK0000116396 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WSKG-TV	D31	DT	LIC	BINGHAMTON, NY	BLANK0000116396	

Undesireds:	W31FC-D	D31	LD	APP	Lewisburg, PA		144.2 km
	WYDC	D30	DT	LIC	CORNING, NY	BLANK0000086927	93.8
	WVIT	D31	DT	LIC	NEW BRITAIN, CT	BLANK0000079823	260.8
	WETA-TV	D31	DT	LIC	WASHINGTON, DC	BLANK0000120146	358.8
	WNED-TV	D31	DT	LIC	BUFFALO, NY	BLANK0000107983	266.3
	WNCE-CD	D31	DC	LIC	GLENS FALLS, NY	BLDTA20100812ABN	225.9
	WWTI	D31	DT	LIC	WATERTOWN, NY	BLANK0000079855	203.0
	WATM-TV	D31	DT	LIC	ALTOONA, PA	BLANK0000105303	266.5
	WTXF-TV	D31	DT	LIC	PHILADELPHIA, PA	BLANK0000080320	232.3

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
21113.1	896,412	18544.3	637,523	0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W31FC-D D31 LD APP	5.0	68	0.0
WYDC D30 DT LIC	110.7	3,737	87.8
WVIT D31 DT LIC	145.3	2,550	55.1
WETA-TV D31 DT LIC	9.1	8	0.0
WNED-TV D31 DT LIC	74.7	3,147	39.4
WNCE-CD D31 DC LIC	1.0	0	0.0
WWTI D31 DT LIC	58.6	1,165	33.3
WATM-TV D31 DT LIC	149.5	2,715	65.2
WTXF-TV D31 DT LIC	251.1	4,303	114.6

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:	W31FC-D	D31	LD	APP	Lewisburg, PA		142.8 km
	WPTG-CD	D30	DC	LIC	Pittsburgh, PA	BLANK0000129480	129.2
	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
	WTXF-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

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
23354.4	890,526	19380.8	737,506	18811.1	726,906	18800.2	726,515	0.06 0.05

Undesired		Total IX		Unique IX, before		Unique IX, after
W31FC-D D31 LD APP	14.9	464			10.9	391
WPTG-CD D30 DC LIC	2.0	78	0.0	0	0.0	0
WETA-TV D31 DT LIC	355.7	5,409	266.5	3,139	265.6	3,134
WSKG-TV D31 DT LIC	16.0	315	3.0	254	3.0	254
WNED-TV D31 DT LIC	32.2	490	4.0	49	4.0	49
WYTV D31 DT LIC	169.1	5,123	113.0	3,288	113.0	3,288
WTXF-TV D31 DT LIC	91.0	1,567	30.9	488	30.0	488
WHP-TV D32 DT LIC	60.9	1,257	30.9	440	30.9	440

Interference to BLANK0000105303 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WATM-TV	D31	DT	LIC	ALTOONA, PA	BLANK0000105303	
Undesireds:	W31FC-D	D31	LD	APP	Lewisburg, PA		142.8 km
	WPTG-CD	D30	DC	LIC	Pittsburgh, PA	BLANK0000129480	129.2
	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
	WTXF-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	CP	KITTANNING, PA	BLANK0000127549	95.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
23354.4	890,526	19380.8	737,506	18811.1	726,906	18800.2	726,515	0.06 0.05

Undesired		Total IX		Unique IX, before		Unique IX, after
W31FC-D D31 LD APP	14.9	464			10.9	391

WPTG-CD D30 DC LIC	2.0	78	0.0	0	0.0	0
WETA-TV D31 DT LIC	355.7	5,409	266.5	3,139	265.6	3,134
WSKG-TV D31 DT LIC	16.0	315	3.0	254	3.0	254
WNED-TV D31 DT LIC	32.2	490	4.0	49	4.0	49
WYTV D31 DT LIC	169.1	5,123	113.0	3,288	113.0	3,288
WTFX-TV D31 DT LIC	91.0	1,567	30.9	488	30.0	488
WHP-TV D32 DT LIC	60.9	1,257	30.9	440	30.9	440
WKHU-CD D32 DC CP	2.0	78	0.0	0	0.0	0

Interference to BLANK0000080028 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	WHP-TV	D32	DT	LIC	HARRISBURG, PA	BLANK0000080028			
Undesireds:	W31FC-D	D31	LD	APP	Lewisburg, PA		66.4 km		
	WETA-TV	D31	DT	LIC	WASHINGTON, DC	BLANK00000120146	156.1		
	WATM-TV	D31	DT	LIC	ALTOONA, PA	BLANK00000105303	135.5		
	WTFX-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	BLANK00000136979	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	BLANK00000113419	393.8		
	WHUT-TV	D33	DT	CP	WASHINGTON, DC	BLANK0000035679	156.1		
	WPSG	D33	DT	LIC	PHILADELPHIA, PA	BLANK00000129342	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		29471.8 3,493,609		27609.4 3,099,185		27393.7 3,092,104	
Undesired		Total IX		Unique IX, before		Unique IX, after			
W31FC-D D31 LD APP		229.7		7,368		215.7		7,081	
WETA-TV D31 DT LIC		120.7		63,019		4.0		1,511	
WATM-TV D31 DT LIC		69.6		2,189		65.6		2,189	
WTFX-TV D31 DT LIC		307.2		79,122		27.1		5,127	

WBOC-TV D32 DT LIC	1296.4	279,996	860.7	159,329	850.7	159,111
WUTV D32 DT LIC	10.0	103	7.0	69	7.0	69
WLIW D32 DT LIC	141.2	25,622	22.0	4,985	21.0	4,985
WCAV D32 DT LIC	240.3	41,522	170.0	29,576	170.0	29,576
WPXV-TV D32 DT LIC	37.6	22,829	2.0	3,871	2.0	3,871
WHUT-TV D33 DT CP	101.9	57,118	0.0	0	0.0	0
WPSG D33 DT LIC	446.7	104,568	105.3	18,828	105.3	18,828
WQPX-TV D33 DT LIC	10.9	139	7.9	53	5.9	18

Interference to BLANK0000080028 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHP-TV	D32	DT	LIC	HARRISBURG, PA	BLANK0000080028	
Undesireds:	W31FC-D	D31	LD	APP	Lewisburg, PA		66.4 km
	WETA-TV	D31	DT	LIC	WASHINGTON, DC	BLANK00000120146	156.1
	WATM-TV	D31	DT	LIC	ALTOONA, PA	BLANK00000105303	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	BLANK00000136979	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	BLANK00000113419	393.8
	WHUT-TV	D33	DT	LIC	WASHINGTON, DC	BLEDT20071018AIJ	156.1
	WPSG	D33	DT	LIC	PHILADELPHIA, PA	BLANK00000129342	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	29471.8	3,493,609	27609.4
		3,099,185	27393.7	3,092,104
				0.78
				0.23

Undesired	Total IX	Unique IX, before	Unique IX, after
W31FC-D D31 LD APP	229.7	7,368	215.7
WETA-TV D31 DT LIC	120.7	63,019	26.7
WATM-TV D31 DT LIC	69.6	2,189	65.6
WTXF-TV D31 DT LIC	307.2	79,122	27.1
			5,127
			27.1
			5,127

WBOC-TV D32 DT LIC	1296.4	279,996	860.7	159,329	850.7	159,111
WUTV D32 DT LIC	10.0	103	7.0	69	7.0	69
WLIW D32 DT LIC	141.2	25,622	22.0	4,985	21.0	4,985
WCAV D32 DT LIC	240.3	41,522	170.0	29,576	170.0	29,576
WPXV-TV D32 DT LIC	37.6	22,829	2.0	3,871	2.0	3,871
WHUT-TV D33 DT LIC	39.6	17,571	0.0	0	0.0	0
WPSG D33 DT LIC	446.7	104,568	105.3	18,828	105.3	18,828
WQPX-TV D33 DT LIC	10.9	139	7.9	53	5.9	18

Interference to proposal scenario 1
6.00% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W31FC-D	D31	LD	APP	Lewisburg, PA		
Undesireds:	WETA-TV	D31	DT	LIC	WASHINGTON, DC	BLANK00000120146	222.4 km
	W31BP	D31+	LD	CP	BURLINGTON, ETC., NY	BLANK0000054409	241.1
	WATM-TV	D31	DT	LIC	ALTOONA, PA	BLANK00000105303	142.8
	WWBP-LP	N31+	TX	LIC	FREEDOM, PA	BLTTL20040909ABD	289.9
	WTFX-TV	D31	DT	LIC	PHILADELPHIA, PA	BLANK0000080320	167.0
	WHP-TV	D32	DT	LIC	HARRISBURG, PA	BLANK0000080028	66.4

Service area	Terrain-limited	IX-free	Percent IX
1158.0 79,570	1060.5 73,051	1004.5 68,671	5.27 6.00

Undesired	Total IX	Unique IX	Prcnt Unique IX
WETA-TV D31 DT LIC 1.0 47 0.0 0	0.00 0.00		
WATM-TV D31 DT LIC 53.9 4,336 52.9 4,289	4.99 5.87		
WTFX-TV D31 DT LIC 1.0 0 1.0 0	0.10 0.00		
WHP-TV D32 DT LIC 1.0 44 1.0 44	0.09 0.06		