

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Lewisburg17d500wTUA110T, Model: Longley-Rice

Start: 2021.06.11 10:47:34

Study created: 2021.06.11 10:47:34

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

Proposal: W17DU-D D17 LD APP Lewisburg, PA

Facility ID: 187451

Station data: User record

Record ID: 45

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	W16DR-D	D16	LD	CP	ELMIRA, NY	BNPDTL20100513ABR	135.1 km
No	W16BE-D	D16	LD	LIC	HORNELL, ALFRED, NY	BLDTL20120216ADJ	166.1
No	WNYS-CD	D16	DC	LIC	ITHACA, NY	BLANK0000001083	167.6
No	W16EJ-D	D16	LD	LIC	DUBOIS, PA	BLANK0000146480	70.2
No	W16EJ-D	D16	LD	CP	DUBOIS, PA	BLANK0000149634	70.5
No	WDUM-LD	D16	LD	LIC	Philadelphia, PA	BLANK0000124581	167.1
No	WINP-TV	D16	DT	LIC	PITTSBURGH, PA	BLANK0000098050	270.6
No	WNDC-LP	D17z	LD	CP	SALISBURY, MD	BLANK0000054251	312.7
No	WNMF-LD	D17	LD	APP	MORRISTOWN, NJ	BLANK0000127456	240.8
No	WNMF-LD	D17	LD	LIC	MORRISTOWN, NJ	BLDTL20130325APT	194.9
No	W50ES-D	D17	LD	CP	ELMIRA, NY	BLANK0000071860	135.1
No	WVBG-LP	D17+	LD	CP	GREENWICH, NY	BLANK0000117330	295.5
No	W16BE-D	D17	LD	CP	HORNELL, ALFRED, NY	BLANK0000052817	207.2
No	W16BE-D	D17	LD	APP	HORNELL, ALFRED, NY	BLANK0000146339	210.3
No	W20EF-D	D17	LD	APP	NEW YORK, NY	BLANK0000054825	240.8
No	WLIG-LP	D17	LD	CP	PLAINVIEW, ETC., NY	BDFCDTL20130603AUD	286.0
No	WLIG-LP	N17+	TX	LIC	PLAINVIEW, ETC., NY	BLTTTL20050802AAY	286.0
No	WSYR-TV	D17	DT	CP	SYRACUSE, NY	BLANK0000127611	232.2

No	WSYR-TV	D17	DT	LIC	SYRACUSE, NY	BLANK0000136455	232.2
No	WBNX-TV	D17	DT	LIC	AKRON, OH	BLANK0000100132	410.8
No	WJMB-CD	D17	DC	LIC	BUTLER, PA	BLDTA20121108ALX	258.1
No	WJMB-CD	D17	DC	CP	BUTLER, PA	BLANK0000131009	258.1
No	WPHL-TV	D17	DT	LIC	PHILADELPHIA, PA	BLANK0000040408	166.9
Yes	WPHL-TV	D17	DT	CP	PHILADELPHIA, PA	BLANK0000127575	166.9
No	WPXQ-TV	D17	DT	LIC	NEWPORT, RI	BLANK0000068158	425.4
No	WXOB-LP	D17z	LD	LIC	RICHMOND, VA	BLTTA20020809AAN	374.6
No	W30CO-D	D17	LD	CP	WHEELING, WV	BLANK0000054635	346.4
No	WMBC-TV	D18	DT	CP	NEWTON, NJ	BLANK0000035693	237.4
No	WMBC-TV	D18	DD	LIC	NEWTON, NJ	BLCDDT20101130AAX	220.2
No	WTVH	D18	DT	LIC	SYRACUSE, NY	BLANK0000136484	230.1

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D17  
 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) 110.0 deg  
 Elev Pattnr: Generic

49.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.003 kW	278.7 m	12.6 km
45.0	0.011	276.5	18.6
90.0	0.363	256.2	35.7
135.0	0.300	237.3	33.8
180.0	0.005	252.9	14.0
225.0	0.003	249.7	11.9
270.0	0.001	266.5	10.2

315.0        0.001        278.4        10.4

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m    Computed HAAT: 262 m

Proposal 24.04 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

\*\*Proposal fails contour check to land mobile station: FRANKLIN PA WQMC383 ch. 18

\*\*Proposal fails distance check to land mobile station: FRANKLIN PA WQMC383 ch. 18, 122.2 km

\*\*Proposal fails distance check to land mobile station: FRANKLIN PA WQMC383 ch. 18, 127.1 km

\*\*Proposal fails distance check to land mobile station: FRANKLIN PA WQMC383 ch. 18, 113.0 km

(ADDED NOTE: The above LMRS fixed location stations are all secondary to LPTV with the exception of WQMC383 (location 6). This channel 18 adjacent-channel location is well beyond the proposed 72 dBu F50,10 contour. The mobile locations of this LMRS callsign are protected within 128 kilometers of Washington, DC coordinates N 38-53-51.4; W 77-00-31.9. The proposed channel 17D 72 dBu F50,10 contour does not come close this protection arc; so WQMC383 is adequately protected.)

Proposal is not within the Offshore Radio Service protected area

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 BLANK0000127575 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WPHL-TV	D17	DT	CP	PHILADELPHIA, PA	BLANK0000127575	
Undesireds:	W17DU-D	D17	LD	APP	Lewisburg, PA		166.9 km
	WCPB	D16	DT	CP	SALISBURY, MD	BLANK0000143851	186.6
	WSYR-TV	D17	DT	CP	SYRACUSE, NY	BLANK0000127611	329.2
	WPXQ-TV	D17	DT	LIC	NEWPORT, RI	BLANK0000068158	332.6
	WMBC-TV	D18	DT	CP	NEWTON, NJ	BLANK0000035693	127.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
33338.1	10,962,735	32247.2	10,819,878	31974.8	10,657,361	31973.8 10,657,221	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
W17DU-D	D17 LD APP	1.0	140			1.0 140	
WSYR-TV	D17 DT CP	1.0	21	1.0	21	1.0 21	
WPXQ-TV	D17 DT LIC	5.0	5,032	1.0	1,499	1.0 1,499	
WMBC-TV	D18 DT CP	270.4	160,997	266.4	157,464	266.4 157,464	

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Interference to BLANK0000127575 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WPHL-TV	D17	DT	CP	PHILADELPHIA, PA	BLANK0000127575	
Undesireds:	W17DU-D	D17	LD	APP	Lewisburg, PA		166.9 km
	WCPB	D16	DT	CP	SALISBURY, MD	BLANK0000143851	186.6
	WPXQ-TV	D17	DT	LIC	NEWPORT, RI	BLANK0000068158	332.6
	WMBC-TV	D18	DT	CP	NEWTON, NJ	BLANK0000035693	127.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
33338.1	10,962,735	32247.2	10,819,878	31975.8	10,657,382	31974.8 10,657,242	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	

W17DU-D D17 LD APP	1.0	140			1.0	140
WPXQ-TV D17 DT LIC	5.0	5,032	1.0	1,499	1.0	1,499
WMBC-TV D18 DT CP	270.4	160,997	266.4	157,464	266.4	157,464

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Interference to BLANK0000127575 CP scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WPHL-TV	D17	DT	CP	PHILADELPHIA, PA	BLANK0000127575	
Undesireds:	W17DU-D	D17	LD	APP	Lewisburg, PA		166.9 km
	WCPB	D16	DT	CP	SALISBURY, MD	BLANK0000143851	186.6
	WSYR-TV	D17	DT	CP	SYRACUSE, NY	BLANK0000127611	329.2
	WPXQ-TV	D17	DT	LIC	NEWPORT, RI	BLANK0000068158	332.6
	WMBC-TV	D18	DD	LIC	NEWTON, NJ	BLCDT20101130AAX	126.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
33338.1	10,962,735	32247.2	10,819,878	32075.9	10,706,684	32075.0 10,706,544	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W17DU-D D17 LD APP	1.0 140	1.0 140	
WSYR-TV D17 DT CP	1.0 21	1.0 21	
WPXQ-TV D17 DT LIC	5.0 5,032	2.0 2,018	
WMBC-TV D18 DD LIC	168.3 111,155	165.3 108,141	

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Interference to BLANK0000127575 CP scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WPHL-TV	D17	DT	CP	PHILADELPHIA, PA	BLANK0000127575	
Undesireds:	W17DU-D	D17	LD	APP	Lewisburg, PA		166.9 km
	WCPB	D16	DT	CP	SALISBURY, MD	BLANK0000143851	186.6
	WPXQ-TV	D17	DT	LIC	NEWPORT, RI	BLANK0000068158	332.6
	WMBC-TV	D18	DD	LIC	NEWTON, NJ	BLCDT20101130AAX	126.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
33338.1	10,962,735	32247.2	10,819,878	32076.9	10,706,705	32075.9 10,706,565	0.00 0.00

Undesired			Total IX	Unique IX, before	Unique IX, after
W17DU-D D17 LD APP	1.0		140		1.0 140
WPXQ-TV D17 DT LIC	5.0		5,032	2.0 2,018	2.0 2,018
WMBC-TV D18 DD LIC	168.3		111,155	165.3 108,141	165.3 108,141

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Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W17DU-D	D17	LD	APP	Lewisburg, PA		
Undesireds:	W16EJ-D	D16	LD	LIC	DUBOIS, PA	BLANK0000146480	70.2 km
	WNMF-LD	D17	LD	APP	MORRISTOWN, NJ	BLANK0000127456	240.8
	WLIG-LP	D17	LD	CP	PLAINVIEW, ETC., NY	BDFCDTL20130603AUD	286.0
	WSYR-TV	D17	DT	CP	SYRACUSE, NY	BLANK0000127611	232.2
	WJMB-CD	D17	DC	LIC	BUTLER, PA	BLDTA20121108ALX	258.1
	WPHL-TV	D17	DT	LIC	PHILADELPHIA, PA	BLANK0000040408	166.9

Service area	Terrain-limited	IX-free	Percent IX
1305.6 115,124	1178.4 108,029	1178.4 108,029	0.00 0.00

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Interference to proposal scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W17DU-D	D17	LD	APP	Lewisburg, PA		
Undesireds:	W16EJ-D	D16	LD	LIC	DUBOIS, PA	BLANK0000146480	70.2 km
	WNMF-LD	D17	LD	APP	MORRISTOWN, NJ	BLANK0000127456	240.8
	WLIG-LP	D17	LD	CP	PLAINVIEW, ETC., NY	BDFCDTL20130603AUD	286.0
	WSYR-TV	D17	DT	CP	SYRACUSE, NY	BLANK0000127611	232.2
	WJMB-CD	D17	DC	LIC	BUTLER, PA	BLDTA20121108ALX	258.1
	WPHL-TV	D17	DT	CP	PHILADELPHIA, PA	BLANK0000127575	166.9

Service area	Terrain-limited	IX-free	Percent IX
1305.6 115,124	1178.4 108,029	1175.5 107,802	0.25 0.21

Undesired		Total IX		Unique IX	Prct Unique IX
WPHL-TV D17 DT CP	3.0	227	3.0	227	0.25 0.21