

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Millersburg17d2kwTUA20t, Model: Longley-Rice

Start: 2021.06.07 10:26:26

Study created: 2021.06.07 10:26:25

Study build station data: LMS TV 2021-06-07

Proposal: W17DU-D D17 LD APP Millersburg, PA

Facility ID: 187451

Station data: User record

Record ID: 3

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	WCPB	D16	DT	CP	SALISBURY, MD	BLANK0000143851	269.8 km
No	WCPB	D16	DT	LIC	SALISBURY, MD	BLANK0000080044	269.8
No	W16DR-D	D16	LD	CP	ELMIRA, NY	BNPDTL20100513ABR	177.0
No	W16EJ-D	D16	LD	LIC	DUBOIS, PA	BLANK0000146480	32.3
Yes	W16EJ-D	D16	LD	APP	DUBOIS, PA	BLANK0000149634	26.7
Yes	WHLZ-LD	D16	LD	CP	Harrisburg, PA	BLANK0000104818	26.7
No	WDUM-LD	D16	LD	LIC	Philadelphia, PA	BLANK0000124581	161.0
No	WINP-TV	D16	DT	LIC	PITTSBURGH, PA	BLANK0000098050	249.5
No	W41DK-D	D16	LD	CP	KEYSER, WV	BLANK0000035614	218.6
No	WNDC-LP	D17z	LD	CP	SALISBURY, MD	BLANK0000054251	282.4
No	WNMF-LD	D17	LD	APP	MORRISTOWN, NJ	BLANK0000127456	258.0
No	WNMF-LD	D17	LD	LIC	MORRISTOWN, NJ	BLDTL20130325APT	212.7
No	W50ES-D	D17	LD	CP	ELMIRA, NY	BLANK0000071860	177.0
No	WVBG-LP	D17+	LD	CP	GREENWICH, NY	BLANK0000117330	336.1
No	W16BE-D	D17	LD	CP	HORNELL, ALFRED, NY	BLANK0000052817	239.9
No	W16BE-D	D17	LD	APP	HORNELL, ALFRED, NY	BLANK0000146339	247.6
No	W20EF-D	D17	LD	APP	NEW YORK, NY	BLANK0000054825	258.0
No	WLIG-LP	D17	LD	CP	PLAINVIEW, ETC., NY	BDFCDTL20130603AUD	303.8

No	WLIG-LP	N17+	TX	LIC	PLAINVIEW, ETC., NY	BLTTL20050802AAY	303.8
No	WSYR-TV	D17	DT	CP	SYRACUSE, NY	BLANK0000127611	278.5
Yes	WSYR-TV	D17	DT	LIC	SYRACUSE, NY	BLANK0000136455	278.5
No	WBNX-TV	D17	DT	LIC	AKRON, OH	BLANK0000100132	403.5
No	WJMB-CD	D17	DC	LIC	BUTLER, PA	BLDTA20121108ALX	246.0
No	WJMB-CD	D17	DC	CP	BUTLER, PA	BLANK0000131009	246.0
No	WPHL-TV	D17	DT	LIC	PHILADELPHIA, PA	BLANK0000040408	160.8
No	WPHL-TV	D17	DT	CP	PHILADELPHIA, PA	BLANK0000127575	160.8
No	WPXQ-TV	D17	DT	LIC	NEWPORT, RI	BLANK0000068158	450.9
No	WKTD-CD	D17	DC	LIC	PORTSMOUTH, VA	BLTTA20050316ACC	416.9
No	WXOB-LP	D17z	LD	LIC	RICHMOND, VA	BLTTA20020809AAN	329.2
No	WXOB-LP	N17z	TX	CP	RICHMOND, VA	BPTTL20150303ACH	341.4
No	W30CO-D	D17	LD	CP	WHEELING, WV	BLANK0000054635	321.4
No	WMBC-TV	D18	DT	CP	NEWTON, NJ	BLANK0000035693	253.8
No	WMBC-TV	D18	DD	LIC	NEWTON, NJ	BLCDT20101130AAX	239.7
No	WTVH	D18	DT	LIC	SYRACUSE, NY	BLANK0000136484	276.3

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 33 2.10 N (NAD83)
 Longitude: 77 0 53.20 W
 Height AMSL: 347.0 m
 HAAT: 0.0 m
 Peak ERP: 2.00 kW
 Antenna: DIE-TUA (ID 120649) 20.0 deg
 Elev Pattnr: Generic

49.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	1.45 kW	146.2 m	36.8 km
45.0	1.20	185.4	38.2
90.0	0.018	180.0	16.9

135.0	0.010	195.6	15.3
180.0	0.005	174.9	12.0
225.0	0.005	165.1	11.6
270.0	0.010	131.0	12.4
315.0	0.044	133.1	17.9

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 164 m

Proposal 24.04 dBu contour does not cross Canadian border

Distance to Canadian border: 299.2 km

Distance to Mexican border: 2448.6 km

Conditions at FCC monitoring station: Laurel MD

Bearing: 173.8 degrees Distance: 154.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 278.2 degrees Distance: 2379.7 km

**Proposal fails distance check to land mobile station: FRANKLIN PA WQMC383 ch. 18, 123.0 km
**Proposal fails distance check to land mobile station: FRANKLIN PA WQMC383 ch. 18, 87.3 km
**Proposal fails distance check to land mobile station: FRANKLIN PA WQMC383 ch. 18, 76.3 km
**Proposal fails distance check to land mobile station: FRANKLIN PA WQMC383 ch. 18, 84.1 km
**Proposal fails distance check to land mobile station: FRANKLIN PA WQMC383 ch. 18, 70.3 km
**Proposal fails distance check to land mobile station: FULTON PA WQMC383 ch. 18, 106.0 km
**Proposal fails distance check to land mobile station: WASHINGTON MD WQMC384 ch. 18, 103.9 km

(ADDED NOTE: The above LMRS fixed location stations are all secondary to LPTV with the exception of WQMC383 (location 6) and WQMC384 (location 3). Both of these channel 18 adjacent-channel locations are well beyond the proposed 72 dBu F50,10 contour. The mobile locations of these two LMRS callsigns 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 and WQMC384 are 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%

Interference to BLANK0000149634 APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	W16EJ-D	D16	LD	APP	DUBOIS, PA	BLANK0000149634			
Undesireds:	W17DU-D	D17	LD	APP	Millersburg, PA		26.7 km		
	WCPB	D16	DT	CP	SALISBURY, MD	BLANK0000143851	244.3		
	WHLZ-LD	D16	LD	CP	Harrisburg, PA	BLANK0000104818	0.0		
	WUSV-LD	D16	LD	CP	Fairmont, WV	BLANK0000072244	308.0		
	W41DK-D	D16	LD	CP	KEYSER, WV	BLANK0000035614	209.1		
	WPHL-TV	D17	DT	LIC	PHILADELPHIA, PA	BLANK0000040408	148.6		
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
	8628.7 1,137,307	7553.9 1,073,655		1937.7 129,657		1937.7 129,657	0.00 0.00		
Undesired				Total IX	Unique IX, before		Unique IX, after		
W17DU-D D17 LD APP				139.3 4,778			0.0 0		
WCPB D16 DT CP				24.1 2,457	0.0 0		0.0 0		
WHLZ-LD D16 LD CP				5616.2 943,998	5581.1 941,502		5442.8 936,758		
W41DK-D D16 LD CP				13.0 73	0.0 0		0.0 0		

Interference to BLANK0000149634 APP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W16EJ-D	D16	LD	APP	DUBOIS, PA	BLANK0000149634	
Undesireds:	W17DU-D	D17	LD	APP	Millersburg, PA		26.7 km

WCPB	D16	DT	LIC	SALISBURY, MD	BLANK0000080044	244.3
WHLZ-LD	D16	LD	CP	Harrisburg, PA	BLANK00000104818	0.0
WUSV-LD	D16	LD	CP	Fairmont, WV	BLANK00000072244	308.0
W41DK-D	D16	LD	CP	KEYSER, WV	BLANK00000035614	209.1
WPHL-TV	D17	DT	LIC	PHILADELPHIA, PA	BLANK00000040408	148.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
8628.7	1,137,307	7553.9	1,073,655	1937.7	129,657	1937.7	129,657	0.00	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
W17DU-D D17 LD APP	139.3	4,778			0.0	0	
WCPB D16 DT LIC	15.0	500	0.0	0	0.0	0	
WHLZ-LD D16 LD CP	5616.2	943,998	5590.2	943,459	5451.9	938,715	
W41DK-D D16 LD CP	13.0	73	0.0	0	0.0	0	

Interference to BLANK00000104818 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHLZ-LD	D16	LD	CP	Harrisburg, PA	BLANK00000104818	
Undesireds:	W17DU-D	D17	LD	APP	Millersburg, PA		26.7 km
	WCPB	D16	DT	CP	SALISBURY, MD	BLANK00000143851	244.3
	W16EJ-D	D16	LD	LIC	DUBOIS, PA	BLANK00000146480	40.8
	WUSV-LD	D16	LD	CP	Fairmont, WV	BLANK00000072244	308.0
	W41DK-D	D16	LD	CP	KEYSER, WV	BLANK00000035614	209.1
	WPHL-TV	D17	DT	LIC	PHILADELPHIA, PA	BLANK00000040408	148.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
8628.7	1,137,307	7553.9	1,073,655	6954.6	963,099	6834.2	958,655	1.73	0.46

Undesired		Total IX		Unique IX, before		Unique IX, after	
W17DU-D D17 LD APP	139.3	4,778			120.4	4,444	
WCPB D16 DT CP	24.1	2,457	12.0	326	12.0	326	
W16EJ-D D16 LD LIC	578.3	110,192	564.3	108,060	546.4	107,760	
W41DK-D D16 LD CP	13.0	73	8.0	38	8.0	38	

Interference to BLANK0000104818 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHLZ-LD	D16	LD	CP	Harrisburg, PA	BLANK0000104818	
Undesireds:	W17DU-D	D17	LD	APP	Millersburg, PA		26.7 km
	WCPB	D16	DT	CP	SALISBURY, MD	BLANK0000143851	244.3
	W16EJ-D	D16	LD	APP	DUBOIS, PA	BLANK0000149634	0.0
	WUSV-LD	D16	LD	CP	Fairmont, WV	BLANK0000072244	308.0
	W41DK-D	D16	LD	CP	KEYSER, WV	BLANK0000035614	209.1
	WPHL-TV	D17	DT	LIC	PHILADELPHIA, PA	BLANK0000040408	148.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
8628.7 1,137,307		7553.9 1,073,655		1937.7 129,657		1937.7 129,657	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
W17DU-D	D17 LD APP	139.3	4,778			0.0	0
WCPB	D16 DT CP	24.1	2,457	0.0	0	0.0	0
W16EJ-D	D16 LD APP	5616.2	943,998	5581.1	941,502	5442.8	936,758
W41DK-D	D16 LD CP	13.0	73	0.0	0	0.0	0

Interference to BLANK0000104818 CP scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHLZ-LD	D16	LD	CP	Harrisburg, PA	BLANK0000104818	
Undesireds:	W17DU-D	D17	LD	APP	Millersburg, PA		26.7 km
	WCPB	D16	DT	LIC	SALISBURY, MD	BLANK0000080044	244.3
	W16EJ-D	D16	LD	LIC	DUBOIS, PA	BLANK0000146480	40.8
	WUSV-LD	D16	LD	CP	Fairmont, WV	BLANK0000072244	308.0
	W41DK-D	D16	LD	CP	KEYSER, WV	BLANK0000035614	209.1
	WPHL-TV	D17	DT	LIC	PHILADELPHIA, PA	BLANK0000040408	148.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
8628.7 1,137,307		7553.9 1,073,655		6957.6 963,150		6837.2 958,706	1.73 0.46
Undesired		Total IX		Unique IX, before		Unique IX, after	

W17DU-D D17 LD APP	139.3	4,778			120.4	4,444
WCPB D16 DT LIC	15.0	500	9.0	275	9.0	275
W16EJ-D D16 LD LIC	578.3	110,192	570.3	109,966	552.4	109,666
W41DK-D D16 LD CP	13.0	73	8.0	38	8.0	38

Interference to BLANK0000104818 CP scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance	
	WHLZ-LD	D16	LD	CP	Harrisburg, PA	BLANK0000104818		
Undesireds:	W17DU-D	D17	LD	APP	Millersburg, PA		26.7 km	
	WCPB	D16	DT	LIC	SALISBURY, MD	BLANK0000080044	244.3	
	W16EJ-D	D16	LD	APP	DUBOIS, PA	BLANK0000149634	0.0	
	WUSV-LD	D16	LD	CP	Fairmont, WV	BLANK0000072244	308.0	
	W41DK-D	D16	LD	CP	KEYSER, WV	BLANK0000035614	209.1	
	WPHL-TV	D17	DT	LIC	PHILADELPHIA, PA	BLANK0000040408	148.6	
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
8628.7 1,137,307		7553.9 1,073,655		1937.7 129,657		1937.7 129,657		0.00 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after		
W17DU-D D17 LD APP	139.3	4,778			0.0	0		
WCPB D16 DT LIC	15.0	500	0.0	0	0.0	0		
W16EJ-D D16 LD APP	5616.2	943,998	5590.2	943,459	5451.9	938,715		
W41DK-D D16 LD CP	13.0	73	0.0	0	0.0	0		

Interference to BLANK0000136455 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WSYR-TV	D17	DT	LIC	SYRACUSE, NY	BLANK0000136455	
Undesireds:	W17DU-D	D17	LD	APP	Millersburg, PA		278.5 km
	WFNY-CD	D16	DC	LIC	GLOVERSVILLE, NY	BLANK0000068459	135.5
	WNYS-CD	D16	DC	LIC	ITHACA, NY	BLANK0000001083	69.1
	WPHL-TV	D17	DT	LIC	PHILADELPHIA, PA	BLANK0000040408	329.2
	WTVH	D18	DT	LIC	SYRACUSE, NY	BLANK0000136484	7.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
23446.0	1,330,107	22006.3	1,244,711	21532.6	1,222,358	21532.6	1,222,358	0.00	0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W17DU-D D17 LD APP	1.0	0	0.0
WFNY-CD D16 DC LIC	5.0	98	5.0
WNYS-CD D16 DC LIC	37.5	7,998	37.5
WPHL-TV D17 DT LIC	48.6	568	47.6
WTVH D18 DT LIC	382.6	13,689	382.6

Interference to BLANK0000136455 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WSYR-TV	D17	DT	LIC	SYRACUSE, NY	BLANK0000136455	
Undesireds:	W17DU-D	D17	LD	APP	Millersburg, PA		278.5 km
	WFNY-CD	D16	DC	LIC	GLOVERSVILLE, NY	BLANK0000068459	135.5
	WNYS-CD	D16	DC	LIC	ITHACA, NY	BLANK0000001083	69.1
	WPHL-TV	D17	DT	CP	PHILADELPHIA, PA	BLANK0000127575	329.2
	WTVH	D18	DT	LIC	SYRACUSE, NY	BLANK0000136484	7.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
23446.0	1,330,107	22006.3	1,244,711	21511.4	1,221,706	21511.4	1,221,706	0.00	0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W17DU-D D17 LD APP	1.0	0	0.0
WFNY-CD D16 DC LIC	5.0	98	5.0
WNYS-CD D16 DC LIC	37.5	7,998	37.5
WPHL-TV D17 DT CP	70.8	1,272	68.8
WTVH D18 DT LIC	382.6	13,689	381.6

Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W17DU-D	D17	LD	APP	Millersburg, PA		

Undesireds:	W16EJ-D	D16	LD	LIC	DUBOIS, PA	BLANK00000146480	32.3 km
	WHLZ-LD	D16	LD	CP	Harrisburg, PA	BLANK00000104818	26.7
	WNMF-LD	D17	LD	APP	MORRISTOWN, NJ	BLANK00000127456	258.0
	W16BE-D	D17	LD	CP	HORNELL, ALFRED, NY	BLANK00000052817	239.9
	WLIG-LP	D17	LD	CP	PLAINVIEW, ETC., NY	BDFCDTL20130603AUD	303.8
	WSYR-TV	D17	DT	CP	SYRACUSE, NY	BLANK00000127611	278.5
	WJMB-CD	D17	DC	LIC	BUTLER, PA	BLDTA20121108ALX	246.0
	WPHL-TV	D17	DT	LIC	PHILADELPHIA, PA	BLANK00000040408	160.8

Service area	Terrain-limited	IX-free	Percent IX
1559.8 73,132	1301.4 61,422	1281.5 60,728	1.53 1.13

Undesired	Total IX	Unique IX	Prcnt Unique IX
WHLZ-LD D16 LD CP 13.9	408	12.9 404	0.99 0.66
WPHL-TV D17 DT LIC 7.0	290	6.0 286	0.46 0.47

Interference to proposal scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W17DU-D	D17	LD	APP	Millersburg, PA		
Undesireds:	W16EJ-D	D16	LD	APP	DUBOIS, PA	BLANK00000149634	26.7 km
	WHLZ-LD	D16	LD	CP	Harrisburg, PA	BLANK00000104818	26.7
	WNMF-LD	D17	LD	APP	MORRISTOWN, NJ	BLANK00000127456	258.0
	W16BE-D	D17	LD	CP	HORNELL, ALFRED, NY	BLANK00000052817	239.9
	WLIG-LP	D17	LD	CP	PLAINVIEW, ETC., NY	BDFCDTL20130603AUD	303.8
	WSYR-TV	D17	DT	CP	SYRACUSE, NY	BLANK00000127611	278.5
	WJMB-CD	D17	DC	LIC	BUTLER, PA	BLDTA20121108ALX	246.0
	WPHL-TV	D17	DT	LIC	PHILADELPHIA, PA	BLANK00000040408	160.8

Service area	Terrain-limited	IX-free	Percent IX
1559.8 73,132	1301.4 61,422	1281.5 60,728	1.53 1.13

Undesired	Total IX	Unique IX	Prcnt Unique IX
W16EJ-D D16 LD APP 13.9	408	0.0 0	0.00 0.00
WHLZ-LD D16 LD CP 13.9	408	0.0 0	0.00 0.00

WPHL-TV D17 DT LIC 7.0 290 6.0 286 0.46 0.47

Interference to proposal scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W17DU-D	D17	LD	APP	Millersburg, PA		
Undesireds:	W16EJ-D	D16	LD	LIC	DUBOIS, PA	BLANK0000146480	32.3 km
	WHLZ-LD	D16	LD	CP	Harrisburg, PA	BLANK0000104818	26.7
	WNMF-LD	D17	LD	APP	MORRISTOWN, NJ	BLANK0000127456	258.0
	W16BE-D	D17	LD	CP	HORNELL, ALFRED, NY	BLANK0000052817	239.9
	WLIG-LP	D17	LD	CP	PLAINVIEW, ETC., NY	BDFCDTL20130603AUD	303.8
	WSYR-TV	D17	DT	CP	SYRACUSE, NY	BLANK0000127611	278.5
	WJMB-CD	D17	DC	LIC	BUTLER, PA	BLDTA20121108ALX	246.0
	WPHL-TV	D17	DT	CP	PHILADELPHIA, PA	BLANK0000127575	160.8

Service area	Terrain-limited	IX-free	Percent IX
1559.8 73,132	1301.4 61,422	1280.5 60,725	1.61 1.13

Undesired	Total IX	Unique IX	Prcnt Unique IX
WHLZ-LD D16 LD CP 13.9 408 12.9 404 0.99 0.66			
WPHL-TV D17 DT CP 8.0 293 7.0 289 0.53 0.47			

Interference to proposal scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W17DU-D	D17	LD	APP	Millersburg, PA		
Undesireds:	W16EJ-D	D16	LD	APP	DUBOIS, PA	BLANK0000149634	26.7 km
	WHLZ-LD	D16	LD	CP	Harrisburg, PA	BLANK0000104818	26.7
	WNMF-LD	D17	LD	APP	MORRISTOWN, NJ	BLANK0000127456	258.0
	W16BE-D	D17	LD	CP	HORNELL, ALFRED, NY	BLANK0000052817	239.9
	WLIG-LP	D17	LD	CP	PLAINVIEW, ETC., NY	BDFCDTL20130603AUD	303.8
	WSYR-TV	D17	DT	CP	SYRACUSE, NY	BLANK0000127611	278.5
	WJMB-CD	D17	DC	LIC	BUTLER, PA	BLDTA20121108ALX	246.0
	WPHL-TV	D17	DT	CP	PHILADELPHIA, PA	BLANK0000127575	160.8

Service area	Terrain-limited		IX-free	Percent IX
1559.8 73,132	1301.4 61,422	1280.5	60,725	1.61 1.13
Undesired	Total IX		Unique IX	Prcnt Unique IX
W16EJ-D D16 LD APP	13.9 408	0.0	0	0.00 0.00
WHLZ-LD D16 LD CP	13.9 408	0.0	0	0.00 0.00
WPHL-TV D17 DT CP	8.0 293	7.0	289	0.53 0.47