

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Knob17d1kwTUA180IncT, Model: Longley-Rice

Start: 2021.06.24 07:56:00

Study created: 2021.06.24 07:56:00

Study build station data: LMS TV 2021-06-24

Proposal: W17DU-D D17 LD APP Millersburg, PA

Facility ID: 187451

Station data: User record

Record ID: 328

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	131.5 km
No	W16BE-D	D16	LD	LIC	HORNELL, ALFRED, NY	BLDTL20120216ADJ	173.1
No	WNYS-CD	D16	DC	LIC	ITHACA, NY	BLANK0000001083	148.9
No	WZLH-LD	D16	LD	LIC	SYRACUSE, NY	BLANK0000118420	217.8
No	W16EJ-D	D16	LD	LIC	DUBOIS, PA	BLANK0000146480	111.6
No	W16EJ-D	D16	LD	CP	DUBOIS, PA	BLANK0000149634	100.9
No	WDUM-LD	D16	LD	LIC	Philadelphia, PA	BLANK0000124581	149.7
No	WNDC-LP	D17z	LD	CP	SALISBURY, MD	BLANK0000054251	314.2
No	WNMF-LD	D17	LD	APP	MORRISTOWN, NJ	BLANK0000127456	202.9
No	WNMF-LD	D17	LD	LIC	MORRISTOWN, NJ	BLDTL20130325APT	157.3
No	W50ES-D	D17	LD	CP	ELMIRA, NY	BLANK0000071860	131.5
No	WVBG-LP	D17+	LD	CP	GREENWICH, NY	BLANK0000117330	253.4
No	W16BE-D	D17	LD	CP	HORNELL, ALFRED, NY	BLANK0000052817	216.0
No	W16BE-D	D17	LD	APP	HORNELL, ALFRED, NY	BLANK0000146339	212.0
No	W20EF-D	D17	LD	APP	NEW YORK, NY	BLANK0000054825	202.9
No	WLIG-LP	D17	LD	CP	PLAINVIEW, ETC., NY	BDFCDTL20130603AUD	247.3
No	WLIG-LP	N17+	TX	LIC	PLAINVIEW, ETC., NY	BLTTTL20050802AAY	247.3
No	WSYR-TV	D17	DT	CP	SYRACUSE, NY	BLANK0000127611	207.2

No	WSYR-TV	D17	DT	LIC	SYRACUSE, NY	BLANK0000136455	207.2
No	WBNX-TV	D17	DT	LIC	AKRON, OH	BLANK0000100132	448.7
No	WJMB-CD	D17	DC	LIC	BUTLER, PA	BLDTA20121108ALX	298.7
No	WJMB-CD	D17	DC	CP	BUTLER, PA	BLANK0000131009	298.7
Yes	WPHL-TV	D17	DT	LIC	PHILADELPHIA, PA	BLANK0000040408	149.5
Yes	WPHL-TV	D17	DT	CP	PHILADELPHIA, PA	BLANK0000127575	149.5
No	WPXQ-TV	D17	DT	LIC	NEWPORT, RI	BLANK0000068158	382.9
No	WXOB-LP	D17z	LD	LIC	RICHMOND, VA	BLTTA20020809AAN	399.9
No	W30CO-D	D17	LD	CP	WHEELING, WV	BLANK0000054635	389.8
No	WMBC-TV	D18	DT	CP	NEWTON, NJ	BLANK0000035693	200.0
No	WMBC-TV	D18	DD	LIC	NEWTON, NJ	BLCDDT20101130AAX	181.3
No	WTVH	D18	DT	LIC	SYRACUSE, NY	BLANK0000136484	206.4
No	W25FA-D	N24	TX	LIC	New york, NY	BLTTTL20121024AAA	142.1

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: 41 5 44.50 N (NAD83)  
Longitude: 76 20 22.50 W  
Height AMSL: 514.5 m (Adjusted based on actual ground elevation calculation)  
HAAT: 0.0 m  
Peak ERP: 1.00 kW  
Antenna: DIE-TUA (ID 120649) 180.0 deg  
Elev Pattn: Generic

49.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.004 kW	184.0 m	11.4 km
45.0	0.002	241.2	11.1
90.0	0.001	228.3	9.1
135.0	0.191	274.3	33.1
180.0	1.00	283.1	42.4
225.0	0.191	283.8	33.5

270.0	0.001	271.9	9.8
315.0	0.003	217.8	11.7

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m    Computed HAAT: 248 m

Proposal 24.04 dBu contour does not cross Canadian border  
Distance to Canadian border: 284.3 km

Distance to Mexican border: 2529.9 km

Conditions at FCC monitoring station: Canandaigua NY  
Bearing: 339.6 degrees    Distance: 216.0 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 277.1 degrees    Distance: 2428.0 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

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%

-----  
Interference to BLANK0000040408 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WPHL-TV	D17	DT	LIC	PHILADELPHIA, PA	BLANK0000040408	
Undesireds:	W17DU-D	D17	LD	APP	Millersburg, PA		149.5 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
30786.0 10,424,992	29894.9 10,280,974	29741.1 10,214,611	29740.1 10,214,611	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W17DU-D D17 LD APP	1.0 0	1.0 0	1.0 0
WSYR-TV D17 DT CP	1.0 445	1.0 445	1.0 445
WPXQ-TV D17 DT LIC	3.0 1,741	2.0 87	2.0 87
WMBC-TV D18 DT CP	150.8 65,831	149.8 64,177	149.8 64,177

-----  
Interference to BLANK0000040408 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WPHL-TV	D17	DT	LIC	PHILADELPHIA, PA	BLANK0000040408	
Undesireds:	W17DU-D	D17	LD	APP	Millersburg, PA		149.5 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
30786.0 10,424,992	29894.9 10,280,974	29742.1 10,215,056	29741.1 10,215,056	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W17DU-D D17 LD APP	1.0 0	1.0 0	1.0 0
WPXQ-TV D17 DT LIC	3.0 1,741	2.0 87	2.0 87
WMBC-TV D18 DT CP	150.8 65,831	149.8 64,177	149.8 64,177

-----  
Interference to BLANK0000040408 LIC scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WPHL-TV	D17	DT	LIC	PHILADELPHIA, PA	BLANK0000040408	

Undesireds:	W17DU-D	D17	LD	APP	Millersburg, PA		149.5 km
	WCPB	D16	DT	CP	SALISBURY, MD	BLANK00000143851	186.6
	WSYR-TV	D17	DT	CP	SYRACUSE, NY	BLANK00000127611	329.2
	WPXQ-TV	D17	DT	LIC	NEWPORT, RI	BLANK00000068158	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
	30786.0	10,424,992	29894.9	10,280,974	29831.1	10,235,987	29830.1	10,235,987	0.00 0.00

Undesired				Total IX	Unique IX, before	Unique IX, after
W17DU-D	D17	LD	APP	1.0	0	1.0 0
WSYR-TV	D17	DT	CP	1.0	445	1.0 445
WPXQ-TV	D17	DT	LIC	3.0	1,741	2.0 87
WMBC-TV	D18	DD	LIC	60.8	44,455	59.8 42,801

-----  
Interference to BLANK0000040408 LIC scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WPHL-TV	D17	DT	LIC	PHILADELPHIA, PA	BLANK0000040408	
Undesireds:	W17DU-D	D17	LD	APP	Millersburg, PA		149.5 km
	WCPB	D16	DT	CP	SALISBURY, MD	BLANK00000143851	186.6
	WPXQ-TV	D17	DT	LIC	NEWPORT, RI	BLANK00000068158	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
	30786.0	10,424,992	29894.9	10,280,974	29832.1	10,236,432	29831.1	10,236,432	0.00 0.00

Undesired				Total IX	Unique IX, before	Unique IX, after
W17DU-D	D17	LD	APP	1.0	0	1.0 0
WPXQ-TV	D17	DT	LIC	3.0	1,741	2.0 87
WMBC-TV	D18	DD	LIC	60.8	44,455	59.8 42,801

-----  
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	Millersburg, PA		149.5 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	32319.9	10,793,758	32034.4	10,607,478	32033.4	10,607,478	0.00	0.00

Undesired			Total IX		Unique IX, before		Unique IX, after
W17DU-D D17 LD APP	1.0		0		1.0		0
WPXQ-TV D17 DT LIC	16.0		11,515		0.0		0
WMBC-TV D18 DT CP	285.5		186,280		269.5		174,765

-----

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	Millersburg, PA		149.5 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	32319.9	10,793,758	32191.3	10,691,418	32190.3	10,691,418	0.00	0.00

Undesired			Total IX		Unique IX, before		Unique IX, after
W17DU-D D17 LD APP	1.0		0		1.0		0
WPXQ-TV D17 DT LIC	16.0		11,515		7.0		3,162
WMBC-TV D18 DD LIC	121.5		99,178		112.6		90,825

-----

Interference to proposal scenario 1

	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	BLANK00000146480	111.6 km
	WNMF-LD	D17	LD	APP	MORRISTOWN, NJ	BLANK00000127456	202.9
	W50ES-D	D17	LD	CP	ELMIRA, NY	BLANK00000071860	131.5
	WLIG-LP	D17	LD	CP	PLAINVIEW, ETC., NY	BDFCDTL20130603AUD	247.3
	WSYR-TV	D17	DT	CP	SYRACUSE, NY	BLANK00000127611	207.2
	WJMB-CD	D17	DC	LIC	BUTLER, PA	BLDTA20121108ALX	298.7
	WPHL-TV	D17	DT	LIC	PHILADELPHIA, PA	BLANK00000040408	149.5

Service area	Terrain-limited	IX-free	Percent IX
1811.6 144,866	1540.6 117,228	1510.8 116,431	1.93 0.68

Undesired	Total IX	Unique IX	Prcnt Unique IX
W50ES-D D17 LD CP 6.0 0 2.0 0 0.13 0.00			
WSYR-TV D17 DT CP 13.9 24 6.0 21 0.39 0.02			
WPHL-TV D17 DT LIC 19.9 776 13.9 773 0.90 0.66			

-----  
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	LIC	DUBOIS, PA	BLANK00000146480	111.6 km
	WNMF-LD	D17	LD	APP	MORRISTOWN, NJ	BLANK00000127456	202.9
	W50ES-D	D17	LD	CP	ELMIRA, NY	BLANK00000071860	131.5
	WLIG-LP	D17	LD	CP	PLAINVIEW, ETC., NY	BDFCDTL20130603AUD	247.3
	WSYR-TV	D17	DT	LIC	SYRACUSE, NY	BLANK00000136455	207.2
	WJMB-CD	D17	DC	LIC	BUTLER, PA	BLDTA20121108ALX	298.7
	WPHL-TV	D17	DT	LIC	PHILADELPHIA, PA	BLANK00000040408	149.5

Service area	Terrain-limited	IX-free	Percent IX
1811.6 144,866	1540.6 117,228	1513.8 116,452	1.74 0.66

Undesired				Total IX		Unique IX	Prcnt Unique IX
W50ES-D D17 LD CP	6.0		0	2.0	0	0.13	0.00
WSYR-TV D17 DT LIC	8.9		0	3.0	0	0.19	0.00
WPHL-TV D17 DT LIC	19.9		776	15.9	776	1.03	0.66

-----  
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	BLANK00000146480	111.6 km
	WNMF-LD	D17	LD	APP	MORRISTOWN, NJ	BLANK00000127456	202.9
	W50ES-D	D17	LD	CP	ELMIRA, NY	BLANK00000071860	131.5
	WLIG-LP	D17	LD	CP	PLAINVIEW, ETC., NY	BDFCDTL20130603AUD	247.3
	WSYR-TV	D17	DT	CP	SYRACUSE, NY	BLANK00000127611	207.2
	WJMB-CD	D17	DC	LIC	BUTLER, PA	BLDTA20121108ALX	298.7
	WPHL-TV	D17	DT	CP	PHILADELPHIA, PA	BLANK00000127575	149.5

Service area	Terrain-limited	IX-free	Percent IX
1811.6 144,866	1540.6 117,228	1510.8 116,431	1.93 0.68

Undesired				Total IX		Unique IX	Prcnt Unique IX
W50ES-D D17 LD CP	6.0		0	2.0	0	0.13	0.00
WSYR-TV D17 DT CP	13.9		24	6.0	21	0.39	0.02
WPHL-TV D17 DT CP	19.9		776	13.9	773	0.90	0.66

-----  
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	LIC	DUBOIS, PA	BLANK00000146480	111.6 km
	WNMF-LD	D17	LD	APP	MORRISTOWN, NJ	BLANK00000127456	202.9
	W50ES-D	D17	LD	CP	ELMIRA, NY	BLANK00000071860	131.5
	WLIG-LP	D17	LD	CP	PLAINVIEW, ETC., NY	BDFCDTL20130603AUD	247.3
	WSYR-TV	D17	DT	LIC	SYRACUSE, NY	BLANK00000136455	207.2



WJMB-CD	D17	DC	LIC	BUTLER, PA	BLDTA20121108ALX	298.7
WPHL-TV	D17	DT	CP	PHILADELPHIA, PA	BLANK00000127575	149.5

Service area		Terrain-limited		IX-free		Percent IX
1811.6	144,866	1540.6	117,228	1513.8	116,452	1.74 0.66

Undesired		Total IX		Unique IX		Prcnt Unique IX
W50ES-D D17 LD CP	6.0	0	2.0	0	0.13	0.00
WSYR-TV D17 DT LIC	8.9	0	3.0	0	0.19	0.00
WPHL-TV D17 DT CP	19.9	776	15.9	776	1.03	0.66