

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Carlisle16dlkw4DR130T, Model: Longley-Rice

Start: 2021.05.13 10:17:01

Study created: 2021.05.13 10:17:01

Study build station data: LMS TV 2021-05-12

Proposal: W16EJ-D D16 LD APP Carlisle, PA

Facility ID: 187454

Station data: User record

Record ID: 2166

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	WPSU-TV	D15	DD	LIC	CLEARFIELD, PA	BLEDT20130614ACC	114.1 km
No	W15CO-D	D15	LD	LIC	TOWANDA, PA	BLDTT20081125AUS	153.7
No	WFDC-DT	D15	DT	LIC	ARLINGTON, VA	BLANK0000041206	172.9
No	WCPB	D16	DT	CP	SALISBURY, MD	BLANK0000143851	278.8
No	WCPB	D16	DT	LIC	SALISBURY, MD	BLANK0000080044	278.8
No	WNYO-TV	D16	DT	LIC	BUFFALO, NY	BLANK0000136976	310.8
No	W16DR-D	D16	LD	CP	ELMIRA, NY	BNPDTL20100513ABR	186.8
No	WFNY-CD	D16	DC	LIC	GLOVERSVILLE, NY	BLANK0000068459	384.0
No	W16BE-D	D16	LD	LIC	HORNELL, ALFRED, NY	BLDTL20120216ADJ	203.1
No	WNYS-CD	D16	DC	LIC	ITHACA, NY	BLANK0000001083	229.3
No	WZLH-LD	D16	LD	LIC	SYRACUSE, NY	BLANK0000118420	303.7
No	WRAP-LP	D16-	LD	CP	CLEVELAND, OH	BLANK0000137492	375.6
No	WOSU-TV	D16	DT	LIC	COLUMBUS, OH	BLANK0000111772	470.6
Yes	WHLZ-LD	D16	LD	CP	Harrisburg, PA	BLANK0000104818	40.8
No	WDUM-LD	D16	LD	LIC	Philadelphia, PA	BLANK0000124581	188.6
No	WINP-TV	D16	DT	LIC	PITTSBURGH, PA	BLANK0000098050	218.1
No	WVAW-LD	D16	LD	LIC	CHARLOTTESVILLE, VA	BLDTL20090218AEG	292.7
No	WTKR	D16	DT	LIC	NORFOLK, VA	BLANK0000118339	414.9

No	WUSV-LD	D16	LD	CP	Fairmont, WV	BLANK0000072244	281.9
No	WUSV-LD	D16	LD	LIC	Fairmont, WV	BLDTL20140616AEQ	281.9
No	W41DK-D	D16	LD	CP	KEYSER, WV	BLANK0000035614	188.9
No	W16CV-D	D16	LD	LIC	PARKERSBURG, WV	BLDTL20140527AHW	366.7
No	W50ES-D	D17	LD	CP	ELMIRA, NY	BLANK0000071860	186.8
No	WJMB-CD	D17	DC	CP	BUTLER, PA	BLANK0000131009	217.2
No	W17DU-D	D17	LD	APP	DUBOIS, PA	BLANK0000145038	84.2
No	W17DU-D	D17	LD	LIC	DUBOIS, PA	BLANK0000144568	119.1
No	W17DU-D	D17	LD	CP	DUBOIS, PA	BLANK0000144717	84.2
No	WPHL-TV	D17	DT	LIC	PHILADELPHIA, PA	BLANK0000040408	188.3
No	WPHL-TV	D17	DT	CP	PHILADELPHIA, PA	BLANK0000127575	188.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D16
 Mask: Stringent
 Latitude: 40 28 39.50 N (NAD83)
 Longitude: 77 23 7.10 W
 Height AMSL: 620.0 m
 HAAT: 0.0 m
 Peak ERP: 1.00 kW
 Antenna: SCA-4DR (ID 103837) 130.0 deg
 Elev Pattnr: Generic

48.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.000 kW	451.0 m	9.3 km
45.0	0.009	429.4	21.5
90.0	0.462	392.5	42.9
135.0	0.980	378.3	46.9
180.0	0.281	378.9	39.4
225.0	0.000	264.4	9.4
270.0	0.000	431.4	11.7
315.0	0.011	363.7	21.2

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 386 m

Proposal 23.94 dBu contour does not cross Canadian border
Distance to Canadian border: 291.3 km

Distance to Mexican border: 2418.4 km

Conditions at FCC monitoring station: Laurel MD
Bearing: 161.5 degrees Distance: 153.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 278.3 degrees Distance: 2349.9 km

**Proposal fails distance check to land mobile station: LANCASTER PA WQNI284 ch. 15, 127.7 km
**Proposal fails distance check to land mobile station: LANCASTER PA WQNI284 ch. 15, 109.0 km
**Proposal fails distance check to land mobile station: LANCASTER PA WQNI284 ch. 15, 124.1 km
**Proposal fails distance check to land mobile station: LANCASTER PA WQNI284 ch. 15, 110.9 km
**Proposal fails distance check to land mobile station: LANCASTER PA WQNI286 ch. 15, 91.6 km
**Proposal fails distance check to land mobile station: LANCASTER PA WQNI287 ch. 15, 103.8 km
**Proposal fails distance check to land mobile station: LANCASTER PA WQRB478 ch. 15, 84.8 km
**Proposal fails distance check to land mobile station: LANCASTER PA WQRB478 ch. 15, 90.9 km
**Proposal fails distance check to land mobile station: LANCASTER PA WQRB478 ch. 15, 74.4 km
**Proposal fails distance check to land mobile station: LANCASTER PA WQRB478 ch. 15, 109.3 km
**Proposal fails distance check to land mobile station: LANCASTER PA WQRB478 ch. 15, 89.8 km
**Proposal fails distance check to land mobile station: LANCASTER PA WQRB480 ch. 15, 125.1 km
**Proposal fails distance check to land mobile station: LANCASTER PA WQRB480 ch. 15, 117.2 km
**Proposal fails distance check to land mobile station: LANCASTER PA WQRB480 ch. 15, 109.0 km
**Proposal fails distance check to land mobile station: LANCASTER PA WQRB480 ch. 15, 77.4 km
**Proposal fails distance check to land mobile station: LANCASTER PA WQRB480 ch. 15, 124.1 km
**Proposal fails distance check to land mobile station: LANCASTER PA WQRB483 ch. 15, 103.7 km
**Proposal fails distance check to land mobile station: LANCASTER PA WQRB483 ch. 15, 102.0 km
**Proposal fails distance check to land mobile station: LANCASTER PA WQRB483 ch. 15, 106.4 km
**Proposal fails distance check to land mobile station: LANCASTER PA WQRB483 ch. 15, 91.6 km
**Proposal fails distance check to land mobile station: LANCASTER PA WQRB483 ch. 15, 103.9 km

**Proposal fails distance check to land mobile station: LANCASTER PA WQRB483 ch. 15, 100.1 km
 **Proposal fails contour check to land mobile station: LANCASTER PA WQRB485 ch. 15
 **Proposal fails contour check to land mobile station: LANCASTER PA WQRB485 ch. 15
 **Proposal fails distance check to land mobile station: LANCASTER PA WQRB485 ch. 15, 115.1 km
 **Proposal fails distance check to land mobile station: LANCASTER PA WQRB485 ch. 15, 127.9 km
 **Proposal fails distance check to land mobile station: LANCASTER PA WQRB485 ch. 15, 125.9 km
 **Proposal fails distance check to land mobile station: LANCASTER PA WQVS780 ch. 15, 126.7 km

(ADDED NOTE: The above LMRS stations are protected within Lancaster County only using the 72 dBu F50,10 contour of the channel 16 adjacent-channel LPTV facility. The 72 dBu F50,10 contour does not come close to Lancaster County.)

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 BLANK0000104818 CP scenario 1
 **IX: 10.09% interference caused

(ADDED NOTE: A consent for this predicted interference is included with this application.)

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHLZ-LD	D16	LD	CP	Harrisburg, PA	BLANK0000104818	
Undesireds:	W16EJ-D	D16	LD	APP	Carlisle, PA		40.8 km
	WCPB	D16	DT	CP	SALISBURY, MD	BLANK0000143851	244.3
	WUSV-LD	D16	LD	CP	Fairmont, WV	BLANK0000072244	308.0
	W41DK-D	D16	LD	CP	KEYSER, WV	BLANK0000035614	209.1
	W17DU-D	D17	LD	APP	DUBOIS, PA	BLANK0000145038	124.9

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	7518.8	1,071,159	6954.6	963,099	7.50	10.09

Undesired		Total IX		Unique IX, before		Unique IX, after	
W16EJ-D D16 LD APP	578.3	110,192				564.3	108,060
WCPB D16 DT CP	24.1	2,457	22.1	2,423	12.0	326	
W41DK-D D16 LD CP	13.0	73	11.0	39	8.0	38	

Interference to BLANK0000104818 CP scenario 2

**IX: 10.25% interference caused

(ADDED NOTE: A consent for this predicted interference is included with this application.)

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHLZ-LD	D16	LD	CP	Harrisburg, PA	BLANK0000104818	
Undesireds:	W16EJ-D	D16	LD	APP	Carlisle, PA		40.8 km
	WCPB	D16	DT	LIC	SALISBURY, MD	BLANK0000080044	244.3
	WUSV-LD	D16	LD	CP	Fairmont, WV	BLANK0000072244	308.0
	W41DK-D	D16	LD	CP	KEYSER, WV	BLANK0000035614	209.1
	W17DU-D	D17	LD	APP	DUBOIS, PA	BLANK0000145038	124.9
	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	7527.9	1,073,116	6957.6	963,150	7.58	10.25

Undesired		Total IX		Unique IX, before		Unique IX, after	
W16EJ-D D16 LD APP	578.3	110,192				570.3	109,966
WCPB D16 DT LIC	15.0	500	13.1	466	9.0	275	
W41DK-D D16 LD CP	13.0	73	11.0	39	8.0	38	

Interference to proposal scenario 1

38.58% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W16EJ-D	D16	LD	APP	Carlisle, PA		
Undesireds:	WCPB	D16	DT	CP	SALISBURY, MD	BLANK00000143851	278.8 km
	WHLZ-LD	D16	LD	CP	Harrisburg, PA	BLANK00000104818	40.8
	WINP-TV	D16	DT	LIC	PITTSBURGH, PA	BLANK00000098050	218.1
	WUSV-LD	D16	LD	CP	Fairmont, WV	BLANK00000072244	281.9
	W17DU-D	D17	LD	APP	DUBOIS, PA	BLANK00000145038	84.2

	Service area		Terrain-limited		IX-free		Percent IX
	2592.5	252,655	1826.9	97,850	1491.7	60,099	18.35 38.58
Undesired				Total IX		Unique IX	Prcnt Unique IX
WHLZ-LD D16 LD CP		332.2		37,720	329.2	37,720	18.02 38.55
WINP-TV D16 DT LIC		6.0		31	3.0	31	0.16 0.03