

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: ClearfieldPA17d350wUA2at0T, Model: Longley-Rice

Start: 2021.04.26 09:24:34

Study created: 2021.04.26 09:24:33

Study build station data: LMS TV 2021-04-26

Proposal: W17DU-D D17 LD APP Clearfield, PA

Facility ID: 187451

Station data: User record

Record ID: 2107

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	WNYO-TV	D16	DT	LIC	BUFFALO, NY	BLANK0000136976	220.0 km
No	W16DR-D	D16	LD	CP	ELMIRA, NY	BNPDTL20100513ABR	172.4
No	W16BE-D	D16	LD	LIC	HORNELL, ALFRED, NY	BLDTL20120216ADJ	155.4
No	W16EJ-D	D16	LD	LIC	DUBOIS, PA	BLANK0000143817	47.4
No	W16EJ-D	D16	LD	APP	DUBOIS, PA	BLANK0000143939	0.0
No	WHLZ-LD	D16	LD	CP	Harrisburg, PA	BLANK0000104818	159.7
No	WINP-TV	D16	DT	LIC	PITTSBURGH, PA	BLANK0000098050	136.0
No	W41DK-D	D16	LD	CP	KEYSER, WV	BLANK0000035614	191.9
No	WNDC-LP	D17z	LD	CP	SALISBURY, MD	BLANK0000054251	408.8
No	WNMF-LD	D17	LD	LIC	MORRISTOWN, NJ	BLDTL20130325APT	342.2
No	W50ES-D	D17	LD	CP	ELMIRA, NY	BLANK0000071860	172.4
No	WVBG-LP	D17+	LD	CP	GREENWICH, NY	BLANK0000117330	414.6
No	W16BE-D	D17	LD	CP	HORNELL, ALFRED, NY	BLANK0000052817	172.6
No	WSYR-TV	D17	DT	APP	SYRACUSE, NY	BLANK0000127611	296.4
No	WSYR-TV	D17	DT	LIC	SYRACUSE, NY	BLANK0000136455	296.4
No	WBNX-TV	D17	DT	LIC	AKRON, OH	BLANK0000100132	263.7
No	W44DC-D	D17	LD	CP	COLUMBUS, OH	BLANK0000054287	395.8
No	WJMB-CD	D17	DC	LIC	BUTLER, PA	BLDTA20121108ALX	112.1

No	WJMB-CD	D17	DC	CP	BUTLER, PA	BLANK0000131009	112.1
No	WPHL-TV	D17	DT	LIC	PHILADELPHIA, PA	BLANK0000040408	303.3
No	WPHL-TV	D17	DT	CP	PHILADELPHIA, PA	BLANK0000127575	303.3
No	WXOB-LP	D17z	LD	LIC	RICHMOND, VA	BLTTA20020809AAN	394.0
No	W30CO-D	D17	LD	CP	WHEELING, WV	BLANK0000054635	215.4
No	WDTB-LD	D18	LD	CP	HAMBURG, NY	BLANK0000120384	203.4
No	WXTM-LD	D18	LD	CP	ERIE, PA	BLANK0000072360	172.3
No	WWHC-LD	N20	TX	LIC	OLEAN, NY	BLANK0000022154	110.4

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 3 52.20 N (NAD83)
Longitude: 78 34 10.80 W
Height AMSL: 737.9 m (Adjusted based on actual ground elevation calculation)
HAAT: 0.0 m
Peak ERP: 0.350 kW
Antenna: DIE-TUA-P2 (ID 1000747) 0.0 deg
Elev Pattn: Generic

49.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.350 kW	199.0 m	32.6 km
45.0	0.066	75.7	15.0
90.0	0.001	240.4	9.6
135.0	0.066	284.0	27.9
180.0	0.350	231.4	34.3
225.0	0.066	177.3	23.1
270.0	0.001	202.4	9.0
315.0	0.066	212.4	24.8

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 203 m

Proposal 24.04 dBu contour does not cross Canadian border
Distance to Canadian border: 193.7 km

Distance to Mexican border: 2378.9 km

Conditions at FCC monitoring station: Canandaigua NY
Bearing: 27.2 degrees Distance: 232.0 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 276.2 degrees Distance: 2242.8 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, 128.1 km
**Proposal fails contour check to land mobile station: FULTON PA WQMC383 ch. 18

(ADDED NOTE: This adjacent-channel LMRS station is secondary to all of its locations with the exception of location 6 at N 39-57-40.0; W 77-28-31.0 and to mobile locations within 128 kilometers of Washington, DC coordinates N 38-53-51.4; W 77-00-31.9. The proposed channel 19D 76 dBu F50,10 contour does not come close to any of these protections; 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%

Interference to proposal scenario 1

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

Undesireds:	W16EJ-D	D16	LD	LIC	DUBOIS, PA	BLANK0000143817	47.4 km
	WSYR-TV	D17	DT	APP	SYRACUSE, NY	BLANK0000127611	296.4
	WJMB-CD	D17	DC	LIC	BUTLER, PA	BLDTA20121108ALX	112.1
	WPHL-TV	D17	DT	LIC	PHILADELPHIA, PA	BLANK0000040408	303.3

Service area	Terrain-limited	IX-free	Percent IX
1692.4 32,890	1432.6 24,944	1428.5 24,937	0.28 0.03

Undesired	Total IX	Unique IX	Prcnt Unique IX
W16EJ-D D16 LD LIC 1.0 7 1.0 7 0.07 0.03			
WJMB-CD D17 DC LIC 3.0 0 3.0 0 0.21 0.00			

Interference to proposal scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W17DU-D	D17	LD	APP	Clearfield, PA		
Undesireds:	WSYR-TV	D17	DT	APP	SYRACUSE, NY	BLANK0000127611	296.4 km
	WJMB-CD	D17	DC	LIC	BUTLER, PA	BLDTA20121108ALX	112.1
	WPHL-TV	D17	DT	LIC	PHILADELPHIA, PA	BLANK0000040408	303.3

Service area	Terrain-limited	IX-free	Percent IX
1692.4 32,890	1432.6 24,944	1429.5 24,944	0.21 0.00

Undesired	Total IX	Unique IX	Prcnt Unique IX
WJMB-CD D17 DC LIC 3.0 0 3.0 0 0.21 0.00			

Interference to proposal scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W17DU-D	D17	LD	APP	Clearfield, PA		
Undesireds:	W16EJ-D	D16	LD	LIC	DUBOIS, PA	BLANK0000143817	47.4 km
	WSYR-TV	D17	DT	APP	SYRACUSE, NY	BLANK0000127611	296.4

WJMB-CD	D17	DC	CP	BUTLER, PA	BLANK00000131009	112.1
WPHL-TV	D17	DT	LIC	PHILADELPHIA, PA	BLANK00000040408	303.3

Service area	Terrain-limited	IX-free	Percent IX
1692.4 32,890	1432.6 24,944	1424.5 24,937	0.56 0.03

Undesired	Total IX	Unique IX	Prcnt Unique IX
W16EJ-D D16 LD LIC	1.0 7	1.0 7	0.07 0.03
WJMB-CD D17 DC CP	7.1 0	7.1 0	0.49 0.00

Interference to proposal scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W17DU-D	D17	LD	APP	Clearfield, PA		
Undesireds:	WSYR-TV	D17	DT	APP	SYRACUSE, NY	BLANK00000127611	296.4 km
	WJMB-CD	D17	DC	CP	BUTLER, PA	BLANK00000131009	112.1
	WPHL-TV	D17	DT	LIC	PHILADELPHIA, PA	BLANK00000040408	303.3

Service area	Terrain-limited	IX-free	Percent IX
1692.4 32,890	1432.6 24,944	1425.5 24,944	0.49 0.00

Undesired	Total IX	Unique IX	Prcnt Unique IX
WJMB-CD D17 DC CP	7.1 0	7.1 0	0.49 0.00