

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: roan20d8kwinceltiat100f, Model: Longley-Rice

Start: 2021.09.02 11:43:07

Study created: 2021.09.02 11:43:07

Study build station data: LMS TV 2021-09-02

Proposal: W20DY-D D20 LD CP ROANOKE, WV

Facility ID: 186773

Station data: User record

Record ID: 980

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	WKYC	D19	DT	LIC	CLEVELAND, OH	BLANK0000087282	245.7 km
No	WCLL-CD	D19	DC	LIC	COLUMBUS, OH	BLANK0000052505	204.0
No	WBVD-CD	D19	DC	LIC	PITTSBURGH, PA	BLANK0000096151	159.9
No	WFFT-TV	D20	DT	LIC	FORT WAYNE, IN	BLANK0000086952	423.4
No	WYMT-TV	D20	DT	APP	HAZARD, KY	BLANK0000158303	309.8
No	WQAW-LD	D20	LD	LIC	LAKE SHORE, MD	BLANK0000122659	364.4
No	WTVS	D20	DT	LIC	DETROIT, MI	BLANK0000117036	404.1
No	WUNF-TV	D20	DD	LIC	ASHEVILLE, NC	BLANK0000093577	475.8
No	WUNC-TV	D20	DT	LIC	CHAPEL HILL, NC	BLANK0000138116	406.1
No	WWHC-LD	N20	TX	LIC	OLEAN, NY	BLANK0000022154	369.0
No	WLWT	D20	DT	LIC	CINCINNATI, OH	BLANK0000087261	319.1
No	WLWT	D20	DT	CP	CINCINNATI, OH	BLANK0000127507	319.1
No	WLWT	D20	DT	LIC	CINCINNATI, OH	BLANK0000157838	319.1
No	WLFM-LD	D20z	LD	LIC	CLEVELAND, OH	BLANK0000118809	245.7
No	WOHZ-CD	D20	DC	LIC	MANSFIELD, OH	BLANK0000146999	189.0
No	WOHZ-CD	D20	DC	CP	MANSFIELD, OH	BLANK0000149901	183.3
No	W33CR-D	D20	LD	CP	CHAMBERSBURG, PA	BLANK0000130447	276.8
No	WPGH-TV	D20	DT	LIC	PITTSBURGH, PA	BLANK0000112578	152.4

No	WHSV-TV	D20	DT	LIC	Massanutten, VA	BLANK0000063970	180.0
No	WGNT	D20	DT	LIC	PORTSMOUTH, VA	BLANK0000118341	467.0
No	WAZT-CD	D20	DC	LIC	WOODSTOCK, VA	BLANK0000150120	279.3
No	WAZT-CD	D20	DC	CP	WOODSTOCK, VA	BLANK0000151019	324.8
No	WOVA-LD	D20	LD	LIC	PARKERSBURG, WV	BLANK0000120282	64.4
No	WJW	D21	LD	CP	CLEVELAND, OH	BDRTCDDT20101123AOJ	181.3
No	WBNS-TV	D21	DT	LIC	COLUMBUS, OH	BLCDT20021025ABK	204.0
No	WSSS-LP	D21	LD	CP	STEUBENVILLE, OH	BDISDTL20121022AAR	122.8
No	WPNT	D21	DT	LIC	PITTSBURGH, PA	BLANK0000112577	152.4
No	WWCW	D21	DT	LIC	LYNCHBURG, VA	BLANK0000080987	240.9
Yes	W21EB-D	D21	LD	CP	CLARKSBURG, WV	BLANK0000072099	45.3
No	WHWV-LD	D21z	LD	CP	Huntington, WV	BLANK0000143752	166.6
No	WHWV-LD	D21z	LD	LIC	Huntington, WV	BLANK0000143055	135.2
No	W24DS-D	D21	LD	CP	PARKERSBURG, WV	BLANK0000051781	64.4
No	W23DR-D	D21	LD	CP	ROMNEY, WV	BLANK0000054636	181.1

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D20
 Mask: Stringent
 Latitude: 39 16 35.10 N (NAD83)
 Longitude: 80 49 19.90 W
 Height AMSL: 306.1 m
 HAAT: 0.0 m
 Peak ERP: 8.00 kW
 Antenna: ELTI-ELTI UHF Panel (ID 1008435) 100.0 deg
 Elev Pattn: Generic

49.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.009 kW	22.6 m	5.8 km
45.0	0.850	-12.4	17.8
90.0	7.30	-8.1	27.7
135.0	3.03	-22.2	23.7

180.0	0.022	-3.9	7.1
225.0	0.063	-7.9	9.3
270.0	0.015	17.0	6.6
315.0	0.033	-7.0	7.9

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: -3 m

Proposal 24.36 dBu contour does not cross Canadian border
Distance to Canadian border: 298.2 km

Distance to Mexican border: 2104.9 km

Conditions at FCC monitoring station: Laurel MD
Bearing: 90.8 degrees Distance: 344.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 280.5 degrees Distance: 2082.2 km

No land mobile station failures found

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 BLANK0000072099 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W21EB-D	D21	LD	CP	CLARKSBURG, WV	BLANK0000072099	
Undesireds:	W20DY-D	D20	LD	CP	ROANOKE, WV		45.3 km

WBNS-TV	D21	DT	LIC	COLUMBUS, OH	BLCDT20021025ABK	246.4
WPNT	D21	DT	LIC	PITTSBURGH, PA	BLANK0000112577	137.8
WHWV-LD	D21z	LD	CP	Huntington, WV	BLANK0000143752	205.6
WWKH-CD	D22	DC	CP	PITTSBURG, PA	BLANK0000127565	84.5
W22CY-D	D22	LD	LIC	CLARKSBURG, WV	BLANK0000150848	5.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
5333.2 195,137	5121.7 179,488	5023.3 176,859	5021.3 176,843	0.04 0.01

Undesired	Total IX	Unique IX, before	Unique IX, after
W20DY-D D20 LD CP 2.0	16	2.0	16
WBNS-TV D21 DT LIC 17.9	586	7.9	366
WPNT D21 DT LIC 89.5	2,136	79.6	1,916
W22CY-D D22 LD LIC 1.0	127	1.0	127

Interference to proposal scenario 1
2.29% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W20DY-D	D20	LD	CP	ROANOKE, WV		
Undesireds:	WOHZ-CD	D20	DC	LIC	MANSFIELD, OH	BLANK0000146999	189.0 km
	WPGH-TV	D20	DT	LIC	PITTSBURGH, PA	BLANK0000112578	152.4
	WAZT-CD	D20	DC	LIC	WOODSTOCK, VA	BLANK0000150120	279.3
	WOVA-LD	D20	LD	LIC	PARKERSBURG, WV	BLANK0000120282	64.4

Service area	Terrain-limited	IX-free	Percent IX
765.9 10,841	763.9 10,738	757.9 10,492	0.78 2.29

Undesired	Total IX	Unique IX	Prcnt Unique IX
WPGH-TV D20 DT LIC 1.0	246	0.0	0
WOVA-LD D20 LD LIC 6.0	246	5.0	0