

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: Roanoke28dlkwincSam460at235dB1, Model: Longley-Rice
Start: 2022.07.11 06:42:32

Study created: 2022.07.11 06:42:32

Study build station data: LMS TV 2022-06-26

Proposal: W28FC-D D28 LD LIC ROANOKE, WV
Facility ID: 186776
Station data: User record
Record ID: 2198
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	WTTE	D27	DT	LIC	COLUMBUS, OH	BLANK00000129745	239.9 km
No	W27DG-D	D27	LD	LIC	MILLERSBURG, OH	BLANK00000168187	192.3
No	WTAE-TV	D27	DT	LIC	PITTSBURGH, PA	BLANK00000112576	118.3
No	WTAE-TV	D27	DT	CP	PITTSBURGH, PA	BLANK00000127499	118.3
No	WPXR-TV	D27	DT	LIC	ROANOKE, VA	BLANK00000081460	234.2
No	W27EF-D	D27-	LD	LIC	CHARLESTON, WV	BLANK00000171411	153.2
No	W08EE-D	D27	LD	CP	MARTINSBURG, WV	BLANK00000054634	196.8
No	W27EI-D	D27	LD	LIC	MOOREFIELD, WV	BLANK00000081243	128.7
No	WLEX-TV	D28	DT	CP	LEXINGTON, KY	BLANK00000157703	378.6
No	WLEX-TV	D28	DT	LIC	LEXINGTON, KY	BLANK00000087372	378.6
No	WFPT	D28	DT	LIC	FREDERICK, MD	BLANK00000160164	260.8
No	WGDV-LD	D28	LD	LIC	SALISBURY, MD	BLANK00000125653	408.3
No	WMYV	D28	DT	LIC	GREENSBORO, NC	BLANK00000158590	384.3
No	WBQC-LD	D28	LD	LIC	CINCINNATI, OH	BLANK00000088128	358.4
No	W28FG-D	D28	LD	LIC	Cleveland-Akron-Cant, OH	BLANK00000158272	153.6
No	WSYX	D28	DT	LIC	COLUMBUS, OH	BLANK00000129744	239.9
No	WJET-TV	D28	DT	LIC	ERIE, PA	BLANK00000080704	305.4
No	WPCB-TV	D28	DT	LIC	GREENSBURG, PA	BLANK00000079894	130.5
No	WJAC-TV	D28	LD	CP	JOHNSTOWN, PA	BLANK00000150961	173.5
No	WCAU	D28	DT	LIC	PHILADELPHIA, PA	BLANK00000079825	444.6
No	WEMT	D28	DT	LIC	GREENEVILLE, TN	BLANK00000072087	352.7

No	WHSV-TV	D28	LD	CP	HARRISONBURG, VA	BLANK0000071677	167.1
No	WHSV-TV	D28	LD	CP	HARRISONBURG, VA	BLANK0000179266	167.1
No	WRIC-TV	D28	DT	LIC	PETERSBURG, VA	BLANK0000186787	310.7
Yes	W28DR-D	D28	LD	LIC	CEDARVILLE, WV	BLDTT20130220AAB	69.3
No	W28EX-D	D28	LD	LIC	CLARKSBURG, WV	BLANK0000160515	5.0
Yes	W28EX-D	D28	LD	CP	CLARKSBURG, WV	BLANK0000162188	15.9
No	WWPB	D29	DT	LIC	HAGERSTOWN, MD	BLANK0000114259	207.3
No	WNEO	D29	DT	LIC	ALLIANCE, OH	BLANK0000120667	184.9
No	WWAT-CD	D29	DC	LIC	CHARLEROI, PA	BLANK0000101490	98.7
No	WWAT-CD	D29	DC	CP	CHARLEROI, PA	BLANK0000155811	131.4
No	WIIC-LD	N29+	TX	LIC	PITTSBURGH, PA	BLTTL19981230JB	131.4
No	WCHS-TV	D29	DT	LIC	CHARLESTON, WV	BLANK0000167887	167.6
Yes	W29FK-D	D29	LD	CP	CLARKSBURG, WV	BLANK0000162164	15.9
No	W29FK-D	D29	LD	LIC	CLARKSBURG, WV	BLANK0000160508	5.0
No	W29DH-D	D29	LD	LIC	MOOREFIELD, WV	BLDTT20120608ABZ	128.7
No	W29EJ-D	D29	LD	LIC	PARKERSBURG, WV	BLANK0000176902	90.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D28
Mask: Full Service
Latitude: 39 18 2.00 N (NAD83)
Longitude: 80 20 36.00 W
Height AMSL: 429.5 m
HAAT: 0.0 m
Peak ERP: 1.00 kW
Antenna: SAM-SAM-460 (ID 1004146) 235.0 deg
Elev Pattn: Generic

50.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.000 kW	80.5 m	2.9 km
45.0	0.000	73.0	2.8
90.0	0.000	68.6	2.7
135.0	0.000	85.3	2.9
180.0	0.000	56.3	3.0
225.0	0.792	75.6	25.8

270.0	0.062	49.2	11.3
315.0	0.000	73.5	2.8

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 70 m

Distance to Canadian border: 316.0 km

Distance to Mexican border: 2138.5 km

Conditions at FCC monitoring station: Laurel MD

Bearing: 91.7 degrees Distance: 303.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 280.5 degrees Distance: 2122.2 km

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%

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Interference to BLDTT20130220AAB LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W28DR-D	D28	LD	LIC	CEDARVILLE, WV	BLDTT20130220AAB	
Undesireds:	W28FC-D	D28	LD	LIC	ROANOKE, WV		69.3 km
	WLEX-TV	D28	DT	CP	LEXINGTON, KY	BLANK0000157703	334.1
	WSYX	D28	DT	LIC	COLUMBUS, OH	BLANK0000129744	243.2
	WPCB-TV	D28	DT	LIC	GREENSBURG, PA	BLANK0000079894	199.8
	W28EX-D	D28	LD	LIC	CLARKSBURG, WV	BLANK0000160515	68.6
	WCHS-TV	D29	DT	LIC	CHARLESTON, WV	BLANK0000167887	113.5
	W29FK-D	D29	LD	CP	CLARKSBURG, WV	BLANK0000162164	83.2

IX	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New			
7223.9 0.04	87,464	6949.8	78,013	6927.7	77,906	6924.8	77,877	0.04

Undesired	Total IX	Unique IX, before	Unique IX, after
W28FC-D D28 LD LIC	3.0	29	3.0
WSYX D28 DT LIC	10.0	24	10.0
WPCB-TV D28 DT LIC	9.0	83	8.0
WCHS-TV D29 DT LIC	4.0	1	3.0

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Interference to BLDTT20130220AAB LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W28DR-D	D28	LD	LIC	CEDARVILLE, WV	BLDTT20130220AAB	
Undesireds:	W28FC-D	D28	LD	LIC	ROANOKE, WV		69.3 km
	WLEX-TV	D28	DT	CP	LEXINGTON, KY	BLANK00000157703	334.1
	WSYX	D28	DT	LIC	COLUMBUS, OH	BLANK00000129744	243.2
	WPCB-TV	D28	DT	LIC	GREENSBURG, PA	BLANK00000079894	199.8
	W28EX-D	D28	LD	CP	CLARKSBURG, WV	BLANK00000162188	83.2
	WCHS-TV	D29	DT	LIC	CHARLESTON, WV	BLANK00000167887	113.5
	W29FK-D	D29	LD	CP	CLARKSBURG, WV	BLANK00000162164	83.2

IX	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New			
7223.9 0.01	87,464	6949.8	78,013	6923.8	77,840	6921.8	77,835	0.03

Undesired	Total IX	Unique IX, before	Unique IX, after
W28FC-D D28 LD LIC	3.0	29	2.0
WSYX D28 DT LIC	10.0	24	10.0
WPCB-TV D28 DT LIC	9.0	83	7.0
W28EX-D D28 LD CP	5.0	66	3.0
WCHS-TV D29 DT LIC	4.0	1	3.0

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Interference to BLANK00000162188 CP scenario 1

Desired:	Call W28EX-D	Chan D28	Svc LD	Status CP	City, State CLARKSBURG, WV	File Number BLANK0000162188	Distance
Undesireds:	W28FC-D	D28	LD	LIC	ROANOKE, WV		15.9 km
	WTAE-TV	D27	DT	LIC	PITTSBURGH, PA	BLANK0000112576	105.4
	WSYX	D28	DT	LIC	COLUMBUS, OH	BLANK0000129744	250.2
	WPCB-TV	D28	DT	LIC	GREENSBURG, PA	BLANK0000079894	117.8
	W28DR-D	D28	LD	LIC	CEDARVILLE, WV	BLDTT20130220AAB	83.2
	WWAT-CD	D29	DC	LIC	CHARLEROI, PA	BLANK0000101490	86.5
	W29FK-D	D29	LD	CP	CLARKSBURG, WV	BLANK0000162164	0.0

	Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New
IX	3440.2	117,978	3268.5	106,083	3208.9	105,165	3205.9	105,064
	0.10							0.09

Undesired				Total IX	Unique IX, before		Unique IX, after
W28FC-D D28 LD LIC		6.0		214		3.0	101
WSYX D28 DT LIC		7.9		68	6.9	68	68
WPCB-TV D28 DT LIC		35.9		539	26.9	319	319
W28DR-D D28 LD LIC		25.8		531	15.8	311	200

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 Interference to BLANK0000162164 CP scenario 1

Desired:	Call W29FK-D	Chan D29	Svc LD	Status CP	City, State CLARKSBURG, WV	File Number BLANK0000162164	Distance
Undesireds:	W28FC-D	D28	LD	LIC	ROANOKE, WV		15.9 km
	W28EX-D	D28	LD	LIC	CLARKSBURG, WV	BLANK0000160515	14.8
	WWPB	D29	DT	LIC	HAGERSTOWN, MD	BLANK0000114259	192.6
	WNEO	D29	DT	LIC	ALLIANCE, OH	BLANK0000120667	180.4
	WOOH-LD	D29	LD	LIC	ZANESVILLE, OH	BLANK0000114544	242.8
	WWAT-CD	D29	DC	LIC	CHARLEROI, PA	BLANK0000101490	86.5
	WQMY	D29	DT	LIC	WILLIAMSPORT, PA	BLCDT20090223ABU	329.6
	WCHS-TV	D29	DT	LIC	CHARLESTON, WV	BLANK0000167887	183.5

	Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New
IX								

3420.3	117,841	3246.7	105,946	3178.2	104,598	3177.2	104,590	0.03
0.01								

Undesired		Total IX	Unique IX, before	Unique IX, after
W28FC-D D28 LD LIC	1.0	8		1.0 8
WWPB D29 DT LIC	8.9	337	7.9 337	7.9 337
WNEO D29 DT LIC	28.8	482	17.9 209	17.9 209
WWAT-CD D29 DC LIC	17.0	237	4.0 0	4.0 0
WCHS-TV D29 DT LIC	29.7	706	23.8 390	23.8 390

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 Interference to BLANK0000162164 CP scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W29FK-D	D29	LD	CP	CLARKSBURG, WV	BLANK0000162164	
Undesireds:	W28FC-D	D28	LD	LIC	ROANOKE, WV		15.9 km
	W28EX-D	D28	LD	LIC	CLARKSBURG, WV	BLANK0000160515	14.8
	WWPB	D29	DT	LIC	HAGERSTOWN, MD	BLANK0000114259	192.6
	WNEO	D29	DT	LIC	ALLIANCE, OH	BLANK0000120667	180.4
	WOOH-LD	D29	LD	LIC	ZANESVILLE, OH	BLANK0000114544	242.8
	WWAT-CD	D29	DC	CP	CHARLEROI, PA	BLANK0000155811	120.1
	WQMY	D29	DT	LIC	WILLIAMSPORT, PA	BLCDT20090223ABU	329.6
	WCHS-TV	D29	DT	LIC	CHARLESTON, WV	BLANK0000167887	183.5

IX	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New
3420.3	117,841	3246.7	105,946	3181.2 104,598	3180.2 104,590
0.01					0.03

Undesired		Total IX	Unique IX, before	Unique IX, after
W28FC-D D28 LD LIC	1.0	8		1.0 8
WWPB D29 DT LIC	8.9	337	7.9 337	7.9 337
WNEO D29 DT LIC	28.8	482	25.9 305	25.9 305
WWAT-CD D29 DC CP	3.0	2	1.0 0	1.0 0
WCHS-TV D29 DT LIC	29.7	706	26.7 529	26.7 529

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 Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W28FC-D	D28	LD	LIC	ROANOKE, WV		
Undesireds:	WPCB-TV	D28	DT	LIC	GREENSBURG, PA	BLANK0000079894	130.5 km
	W28DR-D	D28	LD	LIC	CEDARVILLE, WV	BLDTT20130220AAB	69.3
	W28EX-D	D28	LD	LIC	CLARKSBURG, WV	BLANK0000160515	5.0
	WWAT-CD	D29	DC	LIC	CHARLEROI, PA	BLANK0000101490	98.7
	W29FK-D	D29	LD	CP	CLARKSBURG, WV	BLANK0000162164	15.9

Service area	Terrain-limited	IX-free	Percent IX
357.3 24,741	350.4 24,262	345.4 24,061	1.42 0.83

Undesired	Total IX	Unique IX	Prcnt Unique IX
WPCB-TV D28 DT LIC 4.0 24 3.0 0 0.85 0.00			
W28DR-D D28 LD LIC 2.0 201 1.0 177 0.28 0.73			

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Interference to proposal scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W28FC-D	D28	LD	LIC	ROANOKE, WV		
Undesireds:	WPCB-TV	D28	DT	LIC	GREENSBURG, PA	BLANK0000079894	130.5 km
	W28DR-D	D28	LD	LIC	CEDARVILLE, WV	BLDTT20130220AAB	69.3
	W28EX-D	D28	LD	CP	CLARKSBURG, WV	BLANK0000162188	15.9
	WWAT-CD	D29	DC	LIC	CHARLEROI, PA	BLANK0000101490	98.7
	W29FK-D	D29	LD	CP	CLARKSBURG, WV	BLANK0000162164	15.9

Service area	Terrain-limited	IX-free	Percent IX
357.3 24,741	350.4 24,262	337.5 23,905	3.68 1.47

Undesired	Total IX	Unique IX	Prcnt Unique IX
WPCB-TV D28 DT LIC 4.0 24 2.0 0 0.57 0.00			
W28DR-D D28 LD LIC 2.0 201 1.0 177 0.28 0.73			
W28EX-D D28 LD CP 9.9 180 7.9 156 2.27 0.64			