

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Crossville35d1900wDual100F, Model: Longley-Rice

Start: 2021.06.24 12:35:49

Study created: 2021.06.24 12:35:48

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

Proposal: W35DZ-D D35 LD APP Crossville, TN

Facility ID: 187450

Station data: User record

Record ID: 337

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	WNPX-LP	N20-	TX	LIC	NASHVILLE, TN	BLTTTL20021119ABM	170.2 km
No	DDWEEE-LP	N32+	TX	APP	KNOXVILLE, TN	BPTTL20120508ADS	86.5
No	DDWEEE-LP	N32+	TX	APP	KNOXVILLE, TN	BLTT19980717JA	81.2
No	W34EY-D	D34	DC	LIC	HUNTSVILLE, AL	BLANK0000069366	211.5
No	WATC-DT	D34	DT	LIC	ATLANTA, GA	BLANK0000107129	230.3
No	W34EN-D	D34	LD	CP	DALTON, GA	BDCCDTL20110721AAJ	143.1
No	W34FG-D	D34	LD	LIC	BOWLING GREEN, KY	BLANK0000120154	172.9
No	WKMJ-TV	D34	DT	LIC	LOUISVILLE, KY	BLANK0000087448	264.3
Yes	WVLT-TV	D34	DT	LIC	KNOXVILLE, TN	BLANK0000081956	86.5
No	WJNK-LD	D34z	LD	LIC	NASHVILLE, TN	BLANK0000025145	170.2
No	WJNK-LD	D34z	LD	CP	NASHVILLE, TN	BLANK0000150185	170.2
No	WOTM-LD	D35	LD	CP	BIRMINGHAM, AL	BLANK0000054796	343.7
No	WHVD-LD	D35	LD	LIC	HUNTSVILLE, AL	BLANK0000129320	211.5
No	WEAC-CD	D35	DC	LIC	JACKSONVILLE, AL	BLANK0000112954	289.6
No	WUVG-DT	D35	LD	LIC	ATHENS, GA	BLANK0000081844	271.2
No	WDTA-LD	D35	LD	LIC	ATLANTA, GA	BLANK0000126643	267.1
No	W35DV-D	D35	LD	CP	AUGUSTA, GA	BLANK0000071990	398.6
No	WLTZ	D35	DT	LIC	COLUMBUS, GA	BLCDT20060627ABT	405.3

No	K49EP-D	D35	LD	CP	EVANSVILLE, IN	BLANK0000071777	289.6
No	WTWO	D35	DT	LIC	TERRE HAUTE, IN	BLANK0000086897	411.4
No	WCTZ-LD	D35	LD	LIC	BOWLING GREEN, KY	BLANK0000141734	170.2
No	WKLE	D35	DT	LIC	LEXINGTON, KY	BLANK0000087400	203.9
No	W35DT-D	D35	LD	LIC	BEAVER DAM, NC	BLANK0000114227	226.8
No	W35CO-D	D35-	LD	LIC	BURNSVILLE, NC	BLANK0000137595	235.6
No	WFMY-TV	D35	DT	LIC	GREENSBORO, NC	BLANK0000113927	456.6
No	W35CK-D	D35	LD	LIC	HIGHLANDS, NC	BLANK0000130265	193.4
No	WPTD	D35	DT	LIC	DAYTON, OH	BLANK0000087301	406.1
No	WMYA-TV	D35	DT	LIC	ANDERSON, SC	BLANK0000120378	288.9
Yes	WTCI	D35	DT	CP	CHATTANOOGA, TN	BLANK0000034751	105.3
Yes	WTCI	D35	DT	LIC	CHATTANOOGA, TN	BLANK0000144354	105.3
No	WBBJ-TV	D35	DT	LIC	JACKSON, TN	BLANK0000116047	344.6
No	WCYB-TV	D35	LD	CP	BRISTOL, VA	BLANK0000054449	253.9
Yes	WCYB-TV	D35	DT	APP	BRISTOL, VA	BLANK0000127663	253.9
No	WJDW-LD	D35	LD	LIC	TAZEWELL, VA	BLDTL20110525ADU	324.6
No	WTAP-TV	D35	DT	LIC	PARKERSBURG, WV	BLANK0000105709	465.2
No	WUPA	D36	DT	LIC	ATLANTA, GA	BLANK0000084466	260.6
No	WAVE	D36	DT	LIC	LOUISVILLE, KY	BLANK0000089043	264.5
No	WASV-LP	D36	LD	LIC	ASHEVILLE, NC	BLANK0000108621	209.4
No	WUNE-TV	D36	DT	LIC	LINVILLE, NC	BLANK0000111606	275.5
No	WCNT-LP	N36-	TX	LIC	CHATTANOOGA, TN	BLTTL20050908AAJ	82.5
No	WTVF	D36	DT	LIC	NASHVILLE, TN	BLANK0000090378	169.5
No	WTVF	D36	DT	LIC	NASHVILLE, TN	BLANK0000115766	169.5
No	WVLR	D36	DT	LIC	TAZEWELL, TN	BLANK0000097858	116.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D35
Mask: Full Service
Latitude: 36 6 17.20 N (NAD83)
Longitude: 84 54 34.00 W
Height AMSL: 533.5 m
HAAT: 0.0 m

Peak ERP: 1.90 kW
Antenna: DIE-TUA-P2 (ID 1000747) 100.0 deg
Elev Pattn: Generic

50.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.006 kW	34.6 m	5.2 km
45.0	0.085	66.9	13.5
90.0	1.72	76.4	29.1
135.0	0.679	46.2	19.3
180.0	0.006	-3.0	4.9
225.0	0.085	26.7	9.2
270.0	1.72	-10.7	19.6
315.0	0.679	7.9	15.2

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 31 m

Distance to Canadian border: 648.6 km

Distance to Mexican border: 1602.7 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 176.1 degrees Distance: 249.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 290.3 degrees Distance: 1827.4 km

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 BLANK0000081956 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVLT-TV	D34	DT	LIC	KNOXVILLE, TN	BLANK0000081956	
Undesireds:	W35DZ-D	D35	LD	APP	Crossville, TN		86.5 km
	WKHA	D33	DT	LIC	HAZARD, KY	BLANK0000075043	149.7
	WPDP-CD	D33-	DC	LIC	CLEVELAND, TN	BLANK0000081661	113.1
	WATC-DT	D34	DT	LIC	ATLANTA, GA	BLANK00000107129	219.2
	WKMJ-TV	D34	DT	LIC	LOUISVILLE, KY	BLANK0000087448	311.5
	WNSC-TV	D34	DT	LIC	ROCK HILL, SC	BLANK00000105822	295.5
	WSLS-TV	D34	DT	LIC	ROANOKE, VA	BLANK0000081215	365.3
	WTCI	D35	DT	CP	CHATTANOOGA, TN	BLANK0000034751	148.4
	WCYB-TV	D35	DT	APP	BRISTOL, VA	BLANK00000127663	173.2
Service area		Terrain-limited		IX-free, before		IX-free, after	
44078.7	1,887,153	34974.8	1,632,189	33745.3	1,591,924	33717.0	1,591,733
						Percent New IX	
						0.08 0.01	

Undesired	Total IX		Unique IX, before		Unique IX, after	
W35DZ-D D35 LD APP	28.3	191	28.3	191	28.3	191
WKHA D33 DT LIC	31.0	4	31.0	4	31.0	4
WPDP-CD D33- DC LIC	210.3	7,168	98.7	2,318	98.7	2,318
WATC-DT D34 DT LIC	313.2	6,014	214.5	3,304	214.5	3,304
WKMJ-TV D34 DT LIC	84.2	1,624	69.2	1,169	69.2	1,169
WNSC-TV D34 DT LIC	56.7	282	39.8	0	39.8	0
WSLS-TV D34 DT LIC	39.2	1,354	19.1	878	19.1	878
WTCI D35 DT CP	408.0	15,386	287.4	10,011	287.4	10,011
WCYB-TV D35 DT APP	293.5	15,835	276.4	15,364	276.4	15,364

Interference to BLANK0000081956 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVLT-TV	D34	DT	LIC	KNOXVILLE, TN	BLANK0000081956	
Undesireds:	W35DZ-D	D35	LD	APP	Crossville, TN		86.5 km
	WKHA	D33	DT	LIC	HAZARD, KY	BLANK0000075043	149.7

WPDP-CD	D33-	DC	LIC	CLEVELAND, TN	BLANK0000081661	113.1
WATC-DT	D34	DT	LIC	ATLANTA, GA	BLANK00000107129	219.2
WKMJ-TV	D34	DT	LIC	LOUISVILLE, KY	BLANK0000087448	311.5
WNSC-TV	D34	DT	LIC	ROCK HILL, SC	BLANK00000105822	295.5
WSLS-TV	D34	DT	LIC	ROANOKE, VA	BLANK0000081215	365.3
WTCI	D35	DT	LIC	CHATTANOOGA, TN	BLANK00000144354	148.4
WCYB-TV	D35	DT	APP	BRISTOL, VA	BLANK00000127663	173.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
44078.7	1,887,153	34974.8	1,632,189	33745.3	1,591,924	33717.0	1,591,733	0.08	0.01

Undesired		Total IX	Unique IX, before		Unique IX, after	
W35DZ-D D35 LD APP	28.3	191			28.3	191
WKHA D33 DT LIC	31.0	4	31.0	4	31.0	4
WPDP-CD D33- DC LIC	210.3	7,168	98.7	2,318	98.7	2,318
WATC-DT D34 DT LIC	313.2	6,014	214.5	3,304	214.5	3,304
WKMJ-TV D34 DT LIC	84.2	1,624	69.2	1,169	69.2	1,169
WNSC-TV D34 DT LIC	56.7	282	39.8	0	39.8	0
WSLS-TV D34 DT LIC	39.2	1,354	19.1	878	19.1	878
WTCI D35 DT LIC	408.0	15,386	287.4	10,011	287.4	10,011
WCYB-TV D35 DT APP	293.5	15,835	276.4	15,364	276.4	15,364

Interference to BLANK0000034751 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WTCI	D35	DT	CP	CHATTANOOGA, TN	BLANK0000034751	
Undesireds:	W35DZ-D	D35	LD	APP	Crossville, TN		105.3 km
	WATC-DT	D34	DT	LIC	ATLANTA, GA	BLANK00000107129	147.6
	WVLT-TV	D34	DT	LIC	KNOXVILLE, TN	BLANK0000081956	148.4
	WEAC-CD	D35	DC	LIC	JACKSONVILLE, AL	BLANK00000112954	184.3
	WLTZ	D35	DT	LIC	COLUMBUS, GA	BLCDT20060627ABT	307.7
	WMYA-TV	D35	DT	LIC	ANDERSON, SC	BLANK00000120378	281.4
	WBBJ-TV	D35	DT	LIC	JACKSON, TN	BLANK00000116047	312.7
	WCYB-TV	D35	DT	APP	BRISTOL, VA	BLANK00000127663	317.5
	WUPA	D36	DT	LIC	ATLANTA, GA	BLANK0000084466	177.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
24354.7	1,215,507	20303.9	1,094,584	19582.6	1,073,216	19582.6	1,073,216	0.00	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
W35DZ-D D35 LD APP	3.0	0		0.0		0	
WATC-DT D34 DT LIC	54.3	929		41.2	607	41.2	607
WVLT-TV D34 DT LIC	216.7	9,307		154.1	7,452	153.0	7,452
WEAC-CD D35 DC LIC	318.6	7,030		284.4	6,413	284.4	6,413
WLTZ D35 DT LIC	30.2	510		15.1	301	15.1	301
WMYA-TV D35 DT LIC	6.0	2		2.0	2	2.0	2
WBBJ-TV D35 DT LIC	54.9	909		49.8	759	49.8	759
WCYB-TV D35 DT APP	141.5	5,158		70.9	3,183	70.9	3,183
WUPA D36 DT LIC	5.0	342		3.0	87	3.0	87

Interference to BLANK0000144354 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTCI	D35	DT	LIC	CHATTANOOGA, TN	BLANK0000144354	
Undesireds:	W35DZ-D	D35	LD	APP	Crossville, TN		105.3 km
	WATC-DT	D34	DT	LIC	ATLANTA, GA	BLANK0000107129	147.6
	WVLT-TV	D34	DT	LIC	KNOXVILLE, TN	BLANK0000081956	148.4
	WEAC-CD	D35	DC	LIC	JACKSONVILLE, AL	BLANK0000112954	184.3
	WLTZ	D35	DT	LIC	COLUMBUS, GA	BLCDT20060627ABT	307.7
	WMYA-TV	D35	DT	LIC	ANDERSON, SC	BLANK0000120378	281.4
	WBBJ-TV	D35	DT	LIC	JACKSON, TN	BLANK0000116047	312.7
	WCYB-TV	D35	DT	APP	BRISTOL, VA	BLANK0000127663	317.5
	WUPA	D36	DT	LIC	ATLANTA, GA	BLANK0000084466	177.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
24354.7	1,215,507	20303.9	1,094,584	19582.6	1,073,216	19582.6	1,073,216	0.00	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
W35DZ-D D35 LD APP	3.0	0		0.0		0	
WATC-DT D34 DT LIC	54.3	929		41.2	607	41.2	607
WVLT-TV D34 DT LIC	216.7	9,307		154.1	7,452	153.0	7,452
WEAC-CD D35 DC LIC	318.6	7,030		284.4	6,413	284.4	6,413

WLTZ D35 DT LIC	30.2	510	15.1	301	15.1	301
WMYA-TV D35 DT LIC	6.0	2	2.0	2	2.0	2
WBBJ-TV D35 DT LIC	54.9	909	49.8	759	49.8	759
WCYB-TV D35 DT APP	141.5	5,158	70.9	3,183	70.9	3,183
WUPA D36 DT LIC	5.0	342	3.0	87	3.0	87

Interference to BLANK0000127663 APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCYB-TV	D35	DT	APP	BRISTOL, VA	BLANK0000127663	
Undesireds:	W35DZ-D	D35	LD	APP	Crossville, TN		253.9 km
	WNSC-TV	D34	DT	LIC	ROCK HILL, SC	BLANK0000105822	204.2
	WVLT-TV	D34	DT	LIC	KNOXVILLE, TN	BLANK0000081956	173.2
	WSLS-TV	D34	DT	LIC	ROANOKE, VA	BLANK0000081215	193.3
	WKLE	D35	DT	LIC	LEXINGTON, KY	BLANK0000087400	252.7
	WFMY-TV	D35	DT	LIC	GREENSBORO, NC	BLANK0000113927	213.5
	WPTD	D35	DT	LIC	DAYTON, OH	BLANK0000087301	409.1
	WMYA-TV	D35	DT	LIC	ANDERSON, SC	BLANK0000120378	200.8
	WTCI	D35	DT	CP	CHATTANOOGA, TN	BLANK0000034751	317.5
	WTAP-TV	D35	DT	LIC	PARKERSBURG, WV	BLANK0000105709	325.9
	WUNE-TV	D36	DT	LIC	LINVILLE, NC	BLANK0000111606	49.0
	WVLR	D36	DT	LIC	TAZEWELL, TN	BLANK0000097858	137.8
	WFXR	D36	DT	LIC	ROANOKE, VA	BLANK0000080996	192.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
51894.4	2,300,047	37008.6	1,324,415	0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W35DZ-D D35 LD APP	6.1	17	0.0
WNSC-TV D34 DT LIC	4.0	0	0.0
WVLT-TV D34 DT LIC	259.9	16,356	84.4
WSLS-TV D34 DT LIC	64.0	1,862	17.0
WKLE D35 DT LIC	154.1	1,858	111.0
WFMY-TV D35 DT LIC	1145.5	86,245	418.0
WPTD D35 DT LIC	27.1	661	6.0
WMYA-TV D35 DT LIC	655.3	55,830	122.2

WTCI D35 DT CP	77.5	1,756	28.2	581	28.2	581
WTAP-TV D35 DT LIC	196.4	4,785	154.2	3,834	154.2	3,834
WUNE-TV D36 DT LIC	981.3	94,850	271.7	14,975	271.7	14,975
WVLR D36 DT LIC	450.6	23,003	247.9	7,850	247.9	7,850
WFXR D36 DT LIC	42.0	1,379	6.0	74	6.0	74

Interference to BLANK0000127663 APP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCYB-TV	D35	DT	APP	BRISTOL, VA	BLANK0000127663	
Undesireds:	W35DZ-D	D35	LD	APP	Crossville, TN		253.9 km
	WNSC-TV	D34	DT	LIC	ROCK HILL, SC	BLANK0000105822	204.2
	WVLT-TV	D34	DT	LIC	KNOXVILLE, TN	BLANK0000081956	173.2
	WSLS-TV	D34	DT	LIC	ROANOKE, VA	BLANK0000081215	193.3
	WKLE	D35	DT	LIC	LEXINGTON, KY	BLANK0000087400	252.7
	WFMY-TV	D35	DT	LIC	GREENSBORO, NC	BLANK0000113927	213.5
	WPTD	D35	DT	LIC	DAYTON, OH	BLANK0000087301	409.1
	WMYA-TV	D35	DT	LIC	ANDERSON, SC	BLANK0000120378	200.8
	WTCI	D35	DT	LIC	CHATTANOOGA, TN	BLANK0000144354	317.5
	WTAP-TV	D35	DT	LIC	PARKERSBURG, WV	BLANK0000105709	325.9
	WUNE-TV	D36	DT	LIC	LINVILLE, NC	BLANK0000111606	49.0
	WVLR	D36	DT	LIC	TAZEWELL, TN	BLANK0000097858	137.8
	WFXR	D36	DT	LIC	ROANOKE, VA	BLANK0000080996	192.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
51894.4	2,300,047	37008.6	1,473,610	34423.9
		1,324,415	1,324,415	0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W35DZ-D D35 LD APP	6.1	17	0.0
WNSC-TV D34 DT LIC	4.0	0	0.0
WVLT-TV D34 DT LIC	259.9	16,356	84.4
WSLS-TV D34 DT LIC	64.0	1,862	17.0
WKLE D35 DT LIC	154.1	1,858	111.0
WFMY-TV D35 DT LIC	1145.5	86,245	418.0
WPTD D35 DT LIC	27.1	661	6.0
WMYA-TV D35 DT LIC	655.3	55,830	122.2

WTCI D35 DT LIC	77.5	1,756	28.2	581	28.2	581
WTAP-TV D35 DT LIC	196.4	4,785	154.2	3,834	154.2	3,834
WUNE-TV D36 DT LIC	981.3	94,850	271.7	14,975	271.7	14,975
WVLR D36 DT LIC	450.6	23,003	247.9	7,850	247.9	7,850
WFXR D36 DT LIC	42.0	1,379	6.0	74	6.0	74

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W35DZ-D	D35	LD	APP	Crossville, TN		
Undesireds:	WVLT-TV	D34	DT	LIC	KNOXVILLE, TN	BLANK0000081956	86.5 km
	WCTZ-LD	D35	LD	LIC	BOWLING GREEN, KY	BLANK0000141734	170.2
	WTCI	D35	DT	CP	CHATTANOOGA, TN	BLANK0000034751	105.3
	WCYB-TV	D35	DT	APP	BRISTOL, VA	BLANK0000127663	253.9

Service area	Terrain-limited	IX-free	Percent IX
895.3 12,413	816.5 11,809	798.3 11,693	2.23 0.98

Undesired	Total IX	Unique IX	Prcnt Unique IX
WVLT-TV D34 DT LIC	8.1 0 5.1	0 0.62	0.00
WCTZ-LD D35 LD LIC	1.0 0 0.0	0 0.00	0.00
WTCI D35 DT CP	10.1 35 7.1	35 0.87	0.30
WCYB-TV D35 DT APP	4.0 81 2.0	81 0.25	0.69

Interference to proposal scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W35DZ-D	D35	LD	APP	Crossville, TN		
Undesireds:	WVLT-TV	D34	DT	LIC	KNOXVILLE, TN	BLANK0000081956	86.5 km
	WCTZ-LD	D35	LD	LIC	BOWLING GREEN, KY	BLANK0000141734	170.2
	WTCI	D35	DT	LIC	CHATTANOOGA, TN	BLANK0000144354	105.3
	WCYB-TV	D35	DT	APP	BRISTOL, VA	BLANK0000127663	253.9

Service area	Terrain-limited	IX-free	Percent IX
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895.3	12,413	816.5	11,809	798.3	11,693	2.23	0.98
Undesired			Total IX		Unique IX	Prcnt Unique IX	
WVLT-TV D34 DT LIC	8.1	0	5.1	0	0.62	0.00	
WCTZ-LD D35 LD LIC	1.0	0	0.0	0	0.00	0.00	
WTCI D35 DT LIC	10.1	35	7.1	35	0.87	0.30	
WCYB-TV D35 DT APP	4.0	81	2.0	81	0.25	0.69	