

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Algood35d4kwTUA320T, Model: Longley-Rice

Start: 2021.05.18 11:54:29

Study created: 2021.05.18 11:54:29

Study build station data: LMS TV 2021-05-16

Proposal: W48EG-D D35 LD APP ALGOOD, TN

Facility ID: 187450

Station data: User record

Record ID: 2181

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	123.4 km
No	W34EY-D	D34	DC	LIC	HUNTSVILLE, AL	BLANK0000069366	190.4
No	WATC-DT	D34	DT	LIC	ATLANTA, GA	BLANK0000107129	252.1
No	W34EN-D	D34	LD	CP	DALTON, GA	BDCCDTL20110721AAJ	157.1
No	W34FG-D	D34	LD	LIC	BOWLING GREEN, KY	BLANK0000120154	132.4
No	WKMJ-TV	D34	DT	LIC	LOUISVILLE, KY	BLANK0000087448	244.4
No	WVLT-TV	D34	DT	LIC	KNOXVILLE, TN	BLANK0000081956	133.5
No	W34DB	N34+	TX	LIC	LEWISBURG, TN	BLTTTL20050309ABL	148.3
No	WJNK-LD	D34z	LD	LIC	NASHVILLE, TN	BLANK0000025145	123.4
No	WOTM-LD	D35	LD	CP	BIRMINGHAM, AL	BLANK0000054796	332.8
No	WHVD-LD	D35	LD	LIC	HUNTSVILLE, AL	BLANK0000129320	190.4
No	WEAC-CD	D35	DC	LIC	JACKSONVILLE, AL	BLANK0000112954	288.6
No	WUVG-DT	D35	LD	LIC	ATHENS, GA	BLANK0000081844	305.1
No	WDTA-LD	D35	LD	LIC	ATLANTA, GA	BLANK0000126643	288.8
No	WLTZ	D35	DT	LIC	COLUMBUS, GA	BLCDT20060627ABT	418.0
No	K49EP-D	D35	LD	CP	EVANSVILLE, IN	BLANK0000071777	250.3
No	WTWO	D35	DT	LIC	TERRE HAUTE, IN	BLANK0000086897	380.6
Yes	WCTZ-LD	D35	LD	LIC	BOWLING GREEN, KY	BLANK0000141734	123.4

No	WKLE	D35	DT	LIC	LEXINGTON, KY	BLANK0000087400	211.3
No	W35DT-D	D35	LD	LIC	BEAVER DAM, NC	BLANK0000114227	273.9
No	W35CO-D	D35-	LD	LIC	BURNSVILLE, NC	BLANK0000137595	282.3
No	W35CK-D	D35	LD	LIC	HIGHLANDS, NC	BLANK0000130265	236.9
No	WPTD	D35	DT	LIC	DAYTON, OH	BLANK0000087301	405.5
No	WMYA-TV	D35	DT	LIC	ANDERSON, SC	BLANK0000120378	333.2
Yes	WTCI	D35	DT	CP	CHATTANOOGA, TN	BLANK0000034751	110.2
Yes	WTCI	D35	DT	LIC	CHATTANOOGA, TN	BLANK0000144354	110.2
No	WBBJ-TV	D35	DT	LIC	JACKSON, TN	BLANK0000116047	300.7
No	WCYB-TV	D35	LD	CP	BRISTOL, VA	BLANK0000054449	298.2
No	WCYB-TV	D35	DT	APP	BRISTOL, VA	BLANK0000127663	298.2
No	WJDW-LD	D35	LD	LIC	TAZEWELL, VA	BLDTL20110525ADU	364.3
No	WAVE	D36	DT	LIC	LOUISVILLE, KY	BLANK0000089043	244.6
No	WCNT-LP	N36-	TX	LIC	CHATTANOOGA, TN	BLTTL20050908AAJ	110.7
Yes	WTVF	D36	DT	LIC	NASHVILLE, TN	BLANK0000090378	122.6
Yes	WTVF	D36	DT	LIC	NASHVILLE, TN	BLANK0000115766	122.6
No	WVLR	D36	DT	LIC	TAZEWELL, TN	BLANK0000097858	161.1

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D35
 Mask: Stringent
 Latitude: 36 11 32.00 N (NAD83)
 Longitude: 85 25 23.00 W
 Height AMSL: 453.4 m
 HAAT: 0.0 m
 Peak ERP: 4.00 kW
 Antenna: DIE-TUA (ID 120649) 320.0 deg
 Elev Pattn: Generic

50.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	1.09 kW	151.1 m	33.6 km
45.0	0.004	98.5	7.7

90.0	0.020	18.8	6.5
135.0	0.013	23.5	5.9
180.0	0.006	68.8	7.3
225.0	0.007	128.0	10.3
270.0	0.493	129.7	28.1
315.0	3.85	137.6	39.2

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 95 m

Distance to Canadian border: 654.0 km

Distance to Mexican border: 1575.0 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 166.0 degrees Distance: 266.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 290.2 degrees Distance: 1780.8 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 BLANK0000141734 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCTZ-LD	D35	LD	LIC	BOWLING GREEN, KY	BLANK0000141734	
Undesireds:	W48EG-D	D35	LD	APP	ALGOOD, TN		123.4 km
	WHVD-LD	D35	LD	LIC	HUNTSVILLE, AL	BLANK0000129320	171.8

WTCI	D35	DT	CP	CHATTANOOGA, TN	BLANK0000034751	180.5
WBBJ-TV	D35	DT	LIC	JACKSON, TN	BLANK0000116047	184.5
WTVF	D36	DT	LIC	NASHVILLE, TN	BLANK0000090378	0.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
10194.0	1,443,955	10005.2	1,425,551	7386.3	1,201,443	7386.3	1,201,443	0.00	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
W48EG-D D35 LD APP	8.0	137			0.0	0	
WHVD-LD D35 LD LIC	9.0	2,242		0.0	0	0.0	0
WTCI D35 DT CP	20.0	1,060		7.0	95	6.0	74
WBBJ-TV D35 DT LIC	120.9	11,436		40.4	4,528	39.4	4,528
WTVF D36 DT LIC	2567.4	219,406		2486.0	212,567	2484.9	212,567

Interference to BLANK0000141734 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCTZ-LD	D35	LD	LIC	BOWLING GREEN, KY	BLANK0000141734	
Undesireds:	W48EG-D	D35	LD	APP	ALGOOD, TN		123.4 km
	WHVD-LD	D35	LD	LIC	HUNTSVILLE, AL	BLANK0000129320	171.8
	WTCI	D35	DT	CP	CHATTANOOGA, TN	BLANK0000034751	180.5
	WBBJ-TV	D35	DT	LIC	JACKSON, TN	BLANK0000116047	184.5
	WTVF	D36	DT	LIC	NASHVILLE, TN	BLANK0000115766	0.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
10194.0	1,443,955	10005.2	1,425,551	7386.3	1,201,443	7386.3	1,201,443	0.00	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
W48EG-D D35 LD APP	8.0	137			0.0	0	
WHVD-LD D35 LD LIC	9.0	2,242		0.0	0	0.0	0
WTCI D35 DT CP	20.0	1,060		7.0	95	6.0	74
WBBJ-TV D35 DT LIC	120.9	11,436		40.4	4,528	39.4	4,528
WTVF D36 DT LIC	2567.4	219,406		2486.0	212,567	2484.9	212,567

Interference to BLANK0000141734 LIC scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCTZ-LD	D35	LD	LIC	BOWLING GREEN, KY	BLANK0000141734	
Undesireds:	W48EG-D	D35	LD	APP	ALGOOD, TN		123.4 km
	WHVD-LD	D35	LD	LIC	HUNTSVILLE, AL	BLANK0000129320	171.8
	WTCI	D35	DT	LIC	CHATTANOOGA, TN	BLANK0000144354	180.5
	WBBJ-TV	D35	DT	LIC	JACKSON, TN	BLANK0000116047	184.5
	WTVF	D36	DT	LIC	NASHVILLE, TN	BLANK0000090378	0.7
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	10194.0	1,443,955	10005.2	1,425,551	7386.3 1,201,443	7386.3 1,201,443	0.00 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
W48EG-D D35 LD APP		8.0		137		0.0 0	
WHVD-LD D35 LD LIC		9.0		2,242	0.0 0	0.0 0	
WTCI D35 DT LIC		20.0		1,060	7.0 95	6.0 74	
WBBJ-TV D35 DT LIC		120.9		11,436	40.4 4,528	39.4 4,528	
WTVF D36 DT LIC		2567.4		219,406	2486.0 212,567	2484.9 212,567	

Interference to BLANK0000141734 LIC scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCTZ-LD	D35	LD	LIC	BOWLING GREEN, KY	BLANK0000141734	
Undesireds:	W48EG-D	D35	LD	APP	ALGOOD, TN		123.4 km
	WHVD-LD	D35	LD	LIC	HUNTSVILLE, AL	BLANK0000129320	171.8
	WTCI	D35	DT	LIC	CHATTANOOGA, TN	BLANK0000144354	180.5
	WBBJ-TV	D35	DT	LIC	JACKSON, TN	BLANK0000116047	184.5
	WTVF	D36	DT	LIC	NASHVILLE, TN	BLANK0000115766	0.7
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	10194.0	1,443,955	10005.2	1,425,551	7386.3 1,201,443	7386.3 1,201,443	0.00 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
W48EG-D D35 LD APP		8.0		137		0.0 0	
WHVD-LD D35 LD LIC		9.0		2,242	0.0 0	0.0 0	

WTCI D35 DT LIC	20.0	1,060	7.0	95	6.0	74
WBBJ-TV D35 DT LIC	120.9	11,436	40.4	4,528	39.4	4,528
WTVF D36 DT LIC	2567.4	219,406	2486.0	212,567	2484.9	212,567

Interference to BLANK0000034751 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WTCI	D35	DT	CP	CHATTANOOGA, TN	BLANK0000034751	
Undesireds:	W48EG-D	D35	LD	APP	ALGOOD, TN		110.2 km
	WATC-DT	D34	DT	LIC	ATLANTA, GA	BLANK00000107129	147.6
	WVLT-TV	D34	DT	LIC	KNOXVILLE, TN	BLANK00000081956	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	BLANK00000084466	177.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
24354.7	1,215,507	20303.9	1,073,134	0.02 0.01

Undesired	Total IX	Unique IX, before	Unique IX, after
W48EG-D D35 LD APP	9.0	170	3.0
WATC-DT D34 DT LIC	54.3	929	41.2
WVLT-TV D34 DT LIC	216.7	9,307	154.1
WEAC-CD D35 DC LIC	318.6	7,030	284.4
WLTZ D35 DT LIC	30.2	510	15.1
WMYA-TV D35 DT LIC	6.0	2	2.0
WBBJ-TV D35 DT LIC	54.9	909	43.9
WCYB-TV D35 DT APP	141.5	5,158	70.9
WUPA D36 DT LIC	5.0	342	3.0

Interference to BLANK0000144354 LIC scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
------	------	-----	--------	-------------	-------------	----------

Desired: WTCI D35 DT LIC CHATTANOOGA, TN BLANK0000144354

Undesireds:	W48EG-D	D35	LD	APP	ALGOOD, TN		110.2 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	19579.6 1,073,134	0.02 0.01

Undesired	Total IX	Unique IX, before	Unique IX, after
W48EG-D D35 LD APP 9.0	170	3.0 82	
WATC-DT D34 DT LIC 54.3	929	41.2 607	
WVLT-TV D34 DT LIC 216.7	9,307	154.1 7,452	
WEAC-CD D35 DC LIC 318.6	7,030	284.4 6,413	
WLTZ D35 DT LIC 30.2	510	15.1 301	
WMYA-TV D35 DT LIC 6.0	2	2.0 2	
WBBJ-TV D35 DT LIC 54.9	909	43.9 671	
WCYB-TV D35 DT APP 141.5	5,158	70.9 3,183	
WUPA D36 DT LIC 5.0	342	3.0 87	

Interference to BLANK0000090378 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTVF	D36	DT	LIC	NASHVILLE, TN	BLANK0000090378	
Undesireds:	W48EG-D	D35	LD	APP	ALGOOD, TN		122.6 km
	WTCI	D35	DT	CP	CHATTANOOGA, TN	BLANK0000034751	179.9
	WBBJ-TV	D35	DT	LIC	JACKSON, TN	BLANK0000116047	185.1
	WSES	D36	DT	LIC	TUSCALOOSA, AL	BLANK0000123837	315.4
	WUPA	D36	DT	LIC	ATLANTA, GA	BLANK0000084466	352.8
	WAVE	D36	DT	LIC	LOUISVILLE, KY	BLANK0000089043	248.4

KBSI	D36	DT	LIC	CAPE GIRARDEAU, MO	BLANK0000115700	277.3
WMAV-TV	D36	DT	LIC	OXFORD, MS	BLEDT20090612AAK	344.0
WVLR	D36	DT	LIC	TAZEWELL, TN	BLANK0000097858	283.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
37496.3	2,385,122	36150.5	2,370,149	35011.0	2,347,338	34955.5	2,343,992	0.16	0.14

Undesired		Total IX	Unique IX, before		Unique IX, after	
W48EG-D D35 LD APP	75.6	3,972			55.4	3,346
WBBJ-TV D35 DT LIC	1.0	0	0.0	0	0.0	0
WSES D36 DT LIC	289.8	7,124	223.9	4,963	223.9	4,963
WUPA D36 DT LIC	25.0	912	2.0	0	2.0	0
WAVE D36 DT LIC	457.2	9,673	336.2	7,912	321.1	7,338
KBSI D36 DT LIC	494.4	7,099	373.6	5,341	373.6	5,341
WMAV-TV D36 DT LIC	12.0	416	1.0	0	1.0	0
WVLR D36 DT LIC	67.0	2,099	19.9	817	18.9	817

Interference to BLANK0000115766 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WTVF	D36	DT	LIC	NASHVILLE, TN	BLANK0000115766	
Undesireds:	W48EG-D	D35	LD	APP	ALGOOD, TN		122.6 km
	WTCI	D35	DT	CP	CHATTANOOGA, TN	BLANK0000034751	179.9
	WBBJ-TV	D35	DT	LIC	JACKSON, TN	BLANK0000116047	185.1
	WSES	D36	DT	LIC	TUSCALOOSA, AL	BLANK0000123837	315.4
	WUPA	D36	DT	LIC	ATLANTA, GA	BLANK0000084466	352.8
	WAVE	D36	DT	LIC	LOUISVILLE, KY	BLANK0000089043	248.4
	KBSI	D36	DT	LIC	CAPE GIRARDEAU, MO	BLANK0000115700	277.3
	WMAV-TV	D36	DT	LIC	OXFORD, MS	BLEDT20090612AAK	344.0
	WVLR	D36	DT	LIC	TAZEWELL, TN	BLANK0000097858	283.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
37496.3	2,385,122	36150.5	2,370,149	35011.0	2,347,338	34955.5	2,343,992	0.16	0.14

Undesired		Total IX	Unique IX, before		Unique IX, after	
W48EG-D D35 LD APP	75.6	3,972			55.4	3,346

WBBJ-TV D35 DT LIC	1.0	0	0.0	0	0.0	0
WSES D36 DT LIC	289.8	7,124	223.9	4,963	223.9	4,963
WUPA D36 DT LIC	25.0	912	2.0	0	2.0	0
WAVE D36 DT LIC	457.2	9,673	336.2	7,912	321.1	7,338
KBSI D36 DT LIC	494.4	7,099	373.6	5,341	373.6	5,341
WMAV-TV D36 DT LIC	12.0	416	1.0	0	1.0	0
WVLR D36 DT LIC	67.0	2,099	19.9	817	18.9	817

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W48EG-D	D35	LD	APP	ALGOOD, TN		
Undesireds:	WCTZ-LD	D35	LD	LIC	BOWLING GREEN, KY	BLANK00000141734	123.4 km
	WTCI	D35	DT	CP	CHATTANOOGA, TN	BLANK00000034751	110.2
	WTVF	D36	DT	LIC	NASHVILLE, TN	BLANK00000090378	122.6
	Service area	Terrain-limited			IX-free	Percent IX	
	1487.5 71,830	1336.4	69,031	1294.1	68,797	3.17 0.34	
Undesired			Total IX		Unique IX	Prcnt Unique IX	
WCTZ-LD D35 LD LIC	16.1	97	14.1	11	1.06	0.02	
WTCI D35 DT CP	28.2	223	25.2	137	1.88	0.20	
WTVF D36 DT LIC	1.0	0	0.0	0	0.00	0.00	

Interference to proposal scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W48EG-D	D35	LD	APP	ALGOOD, TN		
Undesireds:	WCTZ-LD	D35	LD	LIC	BOWLING GREEN, KY	BLANK00000141734	123.4 km
	WTCI	D35	DT	CP	CHATTANOOGA, TN	BLANK00000034751	110.2
	WTVF	D36	DT	LIC	NASHVILLE, TN	BLANK00000115766	122.6
	Service area	Terrain-limited			IX-free	Percent IX	
	1487.5 71,830	1336.4	69,031	1294.1	68,797	3.17 0.34	

Undesired			Total IX		Unique IX	Prcnt Unique IX
WCTZ-LD D35 LD LIC	16.1		97	14.1	11	1.06 0.02
WTCI D35 DT CP	28.2		223	25.2	137	1.88 0.20
WTVF D36 DT LIC	1.0		0	0.0	0	0.00 0.00

Interference to proposal scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W48EG-D	D35	LD	APP	ALGOOD, TN		
Undesireds:	WCTZ-LD	D35	LD	LIC	BOWLING GREEN, KY	BLANK00000141734	123.4 km
	WTCI	D35	DT	LIC	CHATTANOOGA, TN	BLANK00000144354	110.2
	WTVF	D36	DT	LIC	NASHVILLE, TN	BLANK00000090378	122.6

Service area	Terrain-limited	IX-free	Percent IX
1487.5 71,830	1336.4 69,031	1294.1 68,797	3.17 0.34

Undesired			Total IX		Unique IX	Prcnt Unique IX
WCTZ-LD D35 LD LIC	16.1		97	14.1	11	1.06 0.02
WTCI D35 DT LIC	28.2		223	25.2	137	1.88 0.20
WTVF D36 DT LIC	1.0		0	0.0	0	0.00 0.00

Interference to proposal scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W48EG-D	D35	LD	APP	ALGOOD, TN		
Undesireds:	WCTZ-LD	D35	LD	LIC	BOWLING GREEN, KY	BLANK00000141734	123.4 km
	WTCI	D35	DT	LIC	CHATTANOOGA, TN	BLANK00000144354	110.2
	WTVF	D36	DT	LIC	NASHVILLE, TN	BLANK00000115766	122.6

Service area	Terrain-limited	IX-free	Percent IX
1487.5 71,830	1336.4 69,031	1294.1 68,797	3.17 0.34

Undesired		Total IX	Unique IX	Prcnt Unique IX
-----------	--	----------	-----------	-----------------

WCTZ-LD D35 LD LIC	16.1	97	14.1	11	1.06	0.02
WTCI D35 DT LIC	28.2	223	25.2	137	1.88	0.20
WTVF D36 DT LIC	1.0	0	0.0	0	0.00	0.00