

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Nashville15d15kwOI0F, Model: Longley-Rice

Start: 2021.07.19 11:42:47

Study created: 2021.07.19 11:42:47

Study build station data: LMS TV 2021-07-19

Proposal: W15ER-D D15 LD APP Nashville, TN

Facility ID: 187449

Station data: User record

Record ID: 643

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	W14EV-D	D14	LD	CP	EVANSVILLE, IN	BNPDTL20090825AXM	192.5 km
No	WLKY	D14	DT	LIC	LOUISVILLE, KY	BLANK0000088726	257.7
No	W14EE-D	D14	LD	LIC	ALGOOD, TN	BLANK0000150616	121.6
No	W14EE-D	D14	LD	CP	ALGOOD, TN	BLANK0000150405	121.6
No	WDSI-TV	D14	DT	LIC	CHATTANOOGA, TN	BLANK0000059350	173.6
Yes	DWIIW-LP	N14z	TX	APP	NASHVILLE, TN	BLANK0000010767	2.2
Yes	WIIW-LD	D14	LD	CP	NASHVILLE, TN	BLANK0000143395	10.2
No	W14EJ-D	D14	LD	LIC	SPRING HILL, TN	BLANK0000150569	167.3
No	W14EJ-D	D14	LD	CP	SPRING HILL, TN	BLANK0000150403	167.3
No	DDW15AZ	N15-	TX	APP	ALABASTER, AL	BLTTL19940809IB	327.1
No	WSSF-LD	D15	LD	LIC	FAYETTE, AL	BLDTL20080626AAG	293.2
Yes	WAFF	D15	DT	LIC	HUNTSVILLE, AL	BLANK0000111344	164.4
No	WAGC-LD	D15	LD	CP	ATLANTA, GA	BLANK0000054666	344.5
No	WRBL	D15	DT	LIC	COLUMBUS, GA	BLCDT20061013ABV	465.8
No	WGGD-LD	D15	LD	LIC	GAINESVILLE, GA	BLDTL20121213AIK	344.4
No	W15BU-D	D15	DC	CP	JOHNSON CITY, IL	BLANK0000035857	266.1
No	W15BU-D	D15	DC	LIC	JOHNSON CITY, IL	BLDTA20090804AAF	266.1
No	WICS	D15	DT	LIC	SPRINGFIELD, IL	BLANK0000117321	466.6

No	WICS	D15	DT	CP	SPRINGFIELD, IL	BLANK0000149666	466.6
No	WYYW-CD	D15	DC	LIC	EVANSVILLE, IN	BLDTA20130109AGB	205.8
No	WTTK	D15	DT	LIC	KOKOMO, IN	BLANK0000093987	415.6
No	WREP-LD	D15	LD	LIC	MARTINSVILLE, IN	BLDTL20090710AEP	364.6
Yes	WLCU-CD	D15	DC	LIC	CAMPBELLSVILLE, KY	BLANK0000086921	181.1
No	WDYL-LD	D15	LD	LIC	LOUISVILLE, KY	BLANK0000150487	257.0
No	WXIX-TV	D15	DT	LIC	NEWPORT, KY	BLANK0000087069	381.6
Yes	WPBM-CD	D15	DC	LIC	SCOTTSVILLE, KY	BLANK0000087303	95.8
No	KPOB-TV	D15	DT	LIC	POPLAR BLUFF, MO	BLCDT20090623ABU	335.5
No	K15KP-D	D15	LD	LIC	ST. LOUIS, MO	BLANK0000079901	411.2
No	WFXW	D15	DT	LIC	GREENVILLE, MS	BLCDT20090612ACI	454.4
No	W15CG	N15-	TX	LIC	PONTOTOC, MS	BLTTL20050308ABV	295.0
No	W15CW-D	D15	LD	LIC	FRANKLIN, NC	BLDTT20111227ABE	309.5
No	W15CW-D	D15	LD	CP	FRANKLIN, NC	BMPDTT20110127AAR	309.5
No	W15CW-D	D15	LD	CP	FRANKLIN, NC	BDISDTT20090824ACL	309.5
No	WDKT-LD	D15	LD	LIC	HENDERSONVILLE, NC	BLANK0000089000	418.0
No	W15DR-D	D15	LD	LIC	MAGGIE VALLEY, ETC, NC	BLANK0000119376	338.0
No	WCNT-LP	D15-	LD	CP	CHATTANOOGA, TN	BLANK0000051756	167.3
No	WDDY-LD	D15	LD	CP	JACKSON, TN	BNPDTL20100319AEP	192.1
Yes	WTNZ	D15	DT	LIC	KNOXVILLE, TN	BLANK0000081278	254.2
No	W15EA-D	D15	DC	LIC	MEMPHIS, TN	BLANK0000093191	288.5
No	WBKI	D16	DT	LIC	SALEM, IN	BLANK0000149848	255.1
No	W16EI-D	D16	LD	CP	BOWLING GREEN, KY	BNPDTL20090825BHZ	123.3
No	WNBj-LD	D16	LD	LIC	JACKSON, TN	BLDTL20141216ABU	192.7
No	WHTN	D16	DT	LIC	MURFREESBORO, TN	BLANK0000100650	32.9

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:

WVOL 1470 L DA2 D BERRY HILL, TN BL19790626AE

WVOL 1470 L DA2 N BERRY HILL, TN BL19790626AE

Record parameters as studied:

Channel: D15

Mask: Full Service

Latitude: 36 10 37.30 N (NAD83)

Longitude: 86 46 41.20 W

Height AMSL: 266.4 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: PSI-PSILP12OI (ID 1004154) 0.0 deg
Elev Pattn: Generic

48.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	81.3 m	42.7 km
45.0	11.9	119.8	46.0
90.0	6.53	122.2	43.1
135.0	5.58	108.5	41.2
180.0	6.73	76.4	38.1
225.0	5.58	96.1	39.9
270.0	6.53	128.9	43.6
315.0	11.9	74.7	40.6

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 101 m

Distance to Canadian border: 706.4 km

Distance to Mexican border: 1487.6 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 143.4 degrees Distance: 318.0 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 290.8 degrees Distance: 1667.5 km

No land mobile station failures found

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 BLANK0000010767 APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	DWIIW-LP	N14z	TX	APP	NASHVILLE, TN	BLANK0000010767	
Undesireds:	W15ER-D	D15	LD	APP	Nashville, TN		2.2 km
	WYMP-LD	D14	LD	LIC	BRUCE, MS	BLANK00000129753	286.6
	W14EE-D	D14	LD	LIC	ALGOOD, TN	BLANK00000150616	119.7
	WIIW-LD	D14	LD	CP	NASHVILLE, TN	BLANK00000143395	9.6
	W14EJ-D	D14	LD	LIC	SPRING HILL, TN	BLANK00000150569	169.4
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
21.2	28,280	19.2	25,047	7.1	8,058	7.1 8,058	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
W15ER-D	D15 LD APP	4.0	5,457			0.0 0	
WIIW-LD	D14 LD CP	12.1	16,989	12.1	16,989	8.1 11,532	

Interference to BLANK00000143395 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WIIW-LD	D14	LD	CP	NASHVILLE, TN	BLANK00000143395	
Undesireds:	W15ER-D	D15	LD	APP	Nashville, TN		10.2 km
	WDBB	D14	DT	LIC	BESSEMER, AL	BLANK00000098219	315.2
	WLKY	D14	DT	LIC	LOUISVILLE, KY	BLANK00000088726	248.6
	WYMP-LD	D14	LD	LIC	BRUCE, MS	BLANK00000129753	288.6
	W14EE-D	D14	LD	LIC	ALGOOD, TN	BLANK00000150616	123.4
	WDSI-TV	D14	DT	LIC	CHATTANOOGA, TN	BLANK00000059350	181.5
	W14EJ-D	D14	LD	LIC	SPRING HILL, TN	BLANK00000150569	169.2

WPBM-CD	D15	DC	LIC	SCOTTSVILLE, KY	BLANK0000087303	89.4
Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
7871.1 1,309,776	7774.6	1,299,916	7657.5	1,294,436	7655.5 1,294,065	0.03 0.03
Undesired	Total IX		Unique IX, before		Unique IX, after	
W15ER-D D15 LD APP	4.0	474			2.0 371	
WDBB D14 DT LIC	7.0	135	4.0	121	4.0 121	
WLKY D14 DT LIC	38.4	926	25.3	624	24.3 578	
W14EE-D D14 LD LIC	86.8	4,735	71.6	4,433	71.6 4,433	
WDSI-TV D14 DT LIC	1.0	0	0.0	0	0.0 0	
WPBM-CD D15 DC LIC	2.0	0	0.0	0	0.0 0	

Interference to BLANK0000143395 CP scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WIIW-LD	D14	LD	CP	NASHVILLE, TN	BLANK0000143395	
Undesireds:	W15ER-D	D15	LD	APP	Nashville, TN		10.2 km
	WDBB	D14	DT	LIC	BESSEMER, AL	BLANK0000098219	315.2
	WLKY	D14	DT	LIC	LOUISVILLE, KY	BLANK0000088726	248.6
	WYMP-LD	D14	LD	LIC	BRUCE, MS	BLANK0000129753	288.6
	W14EE-D	D14	LD	CP	ALGOOD, TN	BLANK0000150405	123.4
	WDSI-TV	D14	DT	LIC	CHATTANOOGA, TN	BLANK0000059350	181.5
	W14EJ-D	D14	LD	LIC	SPRING HILL, TN	BLANK0000150569	169.2
	WPBM-CD	D15	DC	LIC	SCOTTSVILLE, KY	BLANK0000087303	89.4

Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
7871.1 1,309,776	7774.6	1,299,916	7657.5	1,294,436	7655.5 1,294,065	0.03 0.03
Undesired	Total IX		Unique IX, before		Unique IX, after	
W15ER-D D15 LD APP	4.0	474			2.0 371	
WDBB D14 DT LIC	7.0	135	4.0	121	4.0 121	
WLKY D14 DT LIC	38.4	926	25.3	624	24.3 578	
W14EE-D D14 LD CP	86.8	4,735	71.6	4,433	71.6 4,433	
WDSI-TV D14 DT LIC	1.0	0	0.0	0	0.0 0	
WPBM-CD D15 DC LIC	2.0	0	0.0	0	0.0 0	

Interference to BLANK0000111344 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WAFF	D15	DT	LIC	HUNTSVILLE, AL	BLANK0000111344	
Undesireds:	W15ER-D	D15	LD	APP	Nashville, TN		164.4 km
	WDBB	D14	DT	LIC	BESSEMER, AL	BLANK0000098219	159.7
	WDSI-TV	D14	DT	LIC	CHATTANOOGA, TN	BLANK0000059350	121.6
	WRBL	D15	DT	LIC	COLUMBUS, GA	BLCDT20061013ABV	310.9
	WPBM-CD	D15	DC	LIC	SCOTTSVILLE, KY	BLANK0000087303	239.4
	WFXW	D15	DT	LIC	GREENVILLE, MS	BLCDT20090612ACI	400.8
	WTNZ	D15	DT	LIC	KNOXVILLE, TN	BLANK0000081278	273.9
	W15EA-D	D15	DC	LIC	MEMPHIS, TN	BLANK0000093191	301.8
	W16DS-D	D16	DC	LIC	BIRMINGHAM, AL	BLANK0000080930	138.7
	WPXA-TV	D16	DT	LIC	ROME, GA	BLANK0000081827	178.4
	WHTN	D16	DT	LIC	MURFREESBORO, TN	BLANK0000100650	152.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
35099.1 1,530,946	32877.5 1,468,486	31382.9 1,412,039	31322.2 1,409,554	0.19 0.18

Undesired	Total IX	Unique IX, before	Unique IX, after
W15ER-D D15 LD APP 80.5	2,774	60.6 2,485	
WDBB D14 DT LIC 679.7	21,993	627.4 18,601	627.4 18,601
WDSI-TV D14 DT LIC 27.0	564	20.0 116	20.0 116
WRBL D15 DT LIC 445.4	25,469	230.6 14,375	230.6 14,375
WPBM-CD D15 DC LIC 1.0	0	0.0 0	0.0 0
WFXW D15 DT LIC 3.0	164	2.0 164	2.0 164
WTNZ D15 DT LIC 308.6	12,236	184.5 5,824	169.6 5,539
W15EA-D D15 DC LIC 1.0	0	0.0 0	0.0 0
W16DS-D D16 DC LIC 11.9	629	1.0 0	1.0 0
WPXA-TV D16 DT LIC 238.6	7,509	115.7 3,344	115.7 3,344
WHTN D16 DT LIC 69.5	2,102	67.5 2,098	64.5 2,098

Interference to BLANK0000086921 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WLCU-CD	D15	DC	LIC	CAMPBELLSVILLE, KY	BLANK0000086921	
Undesireds:	W15ER-D	D15	LD	APP	Nashville, TN		181.1 km
	W15BU-D	D15	DC	CP	JOHNSON CITY, IL	BLANK0000035857	319.3
	WXIX-TV	D15	DT	LIC	NEWPORT, KY	BLANK0000087069	209.9
	WPBM-CD	D15	DC	LIC	SCOTTSVILLE, KY	BLANK0000087303	85.7
	WTNZ	D15	DT	LIC	KNOXVILLE, TN	BLANK0000081278	195.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
2529.5 54,280	2407.1 53,414	2366.1 53,050	2366.1 53,050	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W15ER-D D15 LD APP	1.0 0	0.0 0	
WXIX-TV D15 DT LIC	4.0 17	2.0 17	
WPBM-CD D15 DC LIC	35.0 339	33.0 339	
WTNZ D15 DT LIC	4.0 8	4.0 8	

Interference to BLANK0000087303 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WPBM-CD	D15	DC	LIC	SCOTTSVILLE, KY	BLANK0000087303	
Undesireds:	W15ER-D	D15	LD	APP	Nashville, TN		95.8 km
	WAFF	D15	DT	LIC	HUNTSVILLE, AL	BLANK0000111344	239.4
	W15BU-D	D15	DC	CP	JOHNSON CITY, IL	BLANK0000035857	275.5
	WLCU-CD	D15	DC	LIC	CAMPBELLSVILLE, KY	BLANK0000086921	85.7
	WTNZ	D15	DT	LIC	KNOXVILLE, TN	BLANK0000081278	211.8
	WHTN	D16	DT	LIC	MURFREESBORO, TN	BLANK0000100650	89.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
5737.5 229,353	5660.5 228,732	5609.6 228,167	5579.4 227,197	0.54 0.43

Undesired	Total IX	Unique IX, before	Unique IX, after
W15ER-D D15 LD APP	37.2 1,110	30.1 970	
WAFF D15 DT LIC	5.0 0	2.0 0	
WLCU-CD D15 DC LIC	43.9 565	39.9 425	

WTNZ D15 DT LIC	2.0	0	2.0	0	2.0	0
WHTN D16 DT LIC	1.0	0	0.0	0	0.0	0

Interference to BLANK0000081278 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WTNZ	D15	DT	LIC	KNOXVILLE, TN	BLANK0000081278	
Undesireds:	W15ER-D	D15	LD	APP	Nashville, TN		254.2 km
	WDSI-TV	D14	DT	LIC	CHATTANOOGA, TN	BLANK0000059350	154.2
	WLFG	D14	DD	LIC	GRUNDY, VA	BLANK0000071597	191.8
	WAFF	D15	DT	LIC	HUNTSVILLE, AL	BLANK0000111344	273.9
	WLCU-CD	D15	DC	LIC	CAMPBELLSVILLE, KY	BLANK0000086921	195.2
	WXIX-TV	D15	DT	LIC	NEWPORT, KY	BLANK0000087069	351.4
	WPBM-CD	D15	DC	LIC	SCOTTSVILLE, KY	BLANK0000087303	211.8
	W15EB-D	D15	DC	CP	CHARLOTTE, NC	BLANK0000127538	292.1
	WQCW	D15	DT	LIC	PORTSMOUTH, OH	BLANK0000100248	318.9
	WLTX	D15	DT	LIC	COLUMBIA, SC	BLANK0000082085	359.0
	WPXA-TV	D16	DT	LIC	ROME, GA	BLANK0000081827	197.3
	WAPK-CD	D16	DC	LIC	BRISTOL VA/KINGSPORT, TN	BLANK0000070481	170.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
37423.8 1,701,723	30593.4 1,520,323	29470.3 1,485,103	29470.3 1,485,103	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W15ER-D D15 LD APP 22.2	1,144	0.0	0
WDSI-TV D14 DT LIC 117.4	3,001	86.5	2,051
WLFG D14 DD LIC 45.3	2,041	42.3	1,727
WAFF D15 DT LIC 525.1	19,819	386.5	16,001
WLCU-CD D15 DC LIC 148.7	3,363	45.2	689
WXIX-TV D15 DT LIC 75.1	1,258	19.0	372
WPBM-CD D15 DC LIC 85.7	3,312	15.1	1,067
W15EB-D D15 DC CP 6.9	21	6.0	21
WQCW D15 DT LIC 332.8	8,308	252.6	6,024
WLTX D15 DT LIC 29.8	0	22.9	0
WPXA-TV D16 DT LIC 2.0	0	2.0	0
WAPK-CD D16 DC LIC 20.2	1,363	15.1	1,124

Interference to BLANK0000081278 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WTNZ	D15	DT	LIC	KNOXVILLE, TN	BLANK0000081278	
Undesireds:	W15ER-D	D15	LD	APP	Nashville, TN		254.2 km
	WDSI-TV	D14	DT	LIC	CHATTANOOGA, TN	BLANK0000059350	154.2
	WLFG	D14	DD	LIC	GRUNDY, VA	BLANK0000071597	191.8
	WAFF	D15	DT	LIC	HUNTSVILLE, AL	BLANK00000111344	273.9
	WLCU-CD	D15	DC	LIC	CAMPBELLSVILLE, KY	BLANK0000086921	195.2
	WXIX-TV	D15	DT	LIC	NEWPORT, KY	BLANK0000087069	351.4
	WPBM-CD	D15	DC	LIC	SCOTTSVILLE, KY	BLANK0000087303	211.8
	W15EB-D	D15	DC	LIC	CHARLOTTE, NC	BLANK0000083736	292.1
	WQCW	D15	DT	LIC	PORTSMOUTH, OH	BLANK00000100248	318.9
	WLTX	D15	DT	LIC	COLUMBIA, SC	BLANK0000082085	359.0
	WPXA-TV	D16	DT	LIC	ROME, GA	BLANK0000081827	197.3
	WAPK-CD	D16	DC	LIC	BRISTOL VA/KINGSPORT, TN	BLANK0000070481	170.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
37423.8 1,701,723	30593.4 1,520,323	29471.3 1,485,103	29471.3 1,485,103	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W15ER-D D15 LD APP 22.2	1,144	0.0	0
WDSI-TV D14 DT LIC 117.4	3,001	86.5	2,051
WLFG D14 DD LIC 45.3	2,041	42.3	1,727
WAFF D15 DT LIC 525.1	19,819	386.5	16,001
WLCU-CD D15 DC LIC 148.7	3,363	45.2	689
WXIX-TV D15 DT LIC 75.1	1,258	19.0	372
WPBM-CD D15 DC LIC 85.7	3,312	15.1	1,067
W15EB-D D15 DC LIC 6.0	21	5.0	21
WQCW D15 DT LIC 332.8	8,308	252.6	6,024
WLTX D15 DT LIC 29.8	0	22.9	0
WPXA-TV D16 DT LIC 2.0	0	2.0	0
WAPK-CD D16 DC LIC 20.2	1,363	15.1	1,124

Interference to proposal scenario 1
 12.04% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W15ER-D	D15	LD	APP	Nashville, TN		
Undesireds:	W14EE-D	D14	LD	LIC	ALGOOD, TN	BLANK00000150616	121.6 km
	WIIW-LD	D14	LD	CP	NASHVILLE, TN	BLANK00000143395	10.2
	WAFF	D15	DT	LIC	HUNTSVILLE, AL	BLANK00000111344	164.4
	W15BU-D	D15	DC	CP	JOHNSON CITY, IL	BLANK00000035857	266.1
	WPBM-CD	D15	DC	LIC	SCOTTSDALE, KY	BLANK00000087303	95.8
	W15CW-D	D15	LD	LIC	FRANKLIN, NC	BLDTR20111227ABE	309.5
	WTNZ	D15	DT	LIC	KNOXVILLE, TN	BLANK00000081278	254.2
	WHTN	D16	DT	LIC	MURFREESBORO, TN	BLANK00000100650	32.9

Service area	Terrain-limited	IX-free	Percent IX
5552.1 1,181,967	5340.9 1,156,717	4455.4 1,017,420	16.58 12.04

Undesired	Total IX	Unique IX	Prcnt Unique IX
WIIW-LD D14 LD CP	129.1 10,961 89.8	7,629	1.68 0.66
WAFF D15 DT LIC	205.3 12,051 134.9	7,428	2.53 0.64
WPBM-CD D15 DC LIC	83.5 8,505 35.2	3,358	0.66 0.29
WTNZ D15 DT LIC	15.1 573 6.1	4	0.11 0.00
WHTN D16 DT LIC	560.2 117,044 524.9	112,115	9.83 9.69