

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Algood15d15kwTUA290IncF, Model: Longley-Rice

Start: 2021.06.17 14:56:19

Study created: 2021.06.17 14:56:19

Study build station data: LMS TV 2021-06-16

Proposal: W15ER-D D15 LD APP ALGOOD, TN

Facility ID: 187449

Station data: User record

Record ID: 165

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	WLKY	D14	DT	LIC	LOUISVILLE, KY	BLANK0000088726	244.6 km
No	W14EG-D	D14	LD	LIC	ROBBINSVILLE, ETC, NC	BLANK0000119375	179.8
No	W14EE-D	D14	LD	CP	ALGOOD, TN	BNPDTL20100609AFW	0.0
No	WDSI-TV	D14	DT	LIC	CHATTANOOGA, TN	BLANK0000059350	115.0
No	W14CX-D	D14	LD	LIC	KNOXVILLE, TN	BLDTL20090729ACQ	133.5
No	DWIIW-LP	N14z	TX	APP	NASHVILLE, TN	BLANK0000010767	119.7
No	WIIW-LD	D14	LD	CP	NASHVILLE, TN	BLANK0000143395	123.4
No	W15AZ	N15-	TX	LIC	ALABASTER, AL	BLTTTL19940809IB	351.5
No	WSSF-LD	D15	LD	LIC	FAYETTE, AL	BLDTL20080626AAG	354.5
No	WAFF	D15	DT	LIC	HUNTSVILLE, AL	BLANK0000111344	193.0
No	WAGC-LD	D15	LD	CP	ATLANTA, GA	BLANK0000054666	282.8
No	WRBL	D15	DT	LIC	COLUMBUS, GA	BLCDT20061013ABV	434.1
No	WGGD-LD	D15	LD	LIC	GAINESVILLE, GA	BLDTL20121213AIK	266.2
No	W15BU-D	D15	DC	CP	JOHNSON CITY, IL	BLANK0000035857	361.3
No	W15BU-D	D15	DC	LIC	JOHNSON CITY, IL	BLDTA20090804AAF	361.3
No	WYYW-CD	D15	DC	LIC	EVANSVILLE, IN	BLDTA20130109AGB	258.1
No	WTTK	D15	DT	LIC	KOKOMO, IN	BLANK0000093987	416.5
No	WREP-LD	D15	LD	LIC	MARTINSVILLE, IN	BLDTL20090710AEP	372.0

No	WLCU-CD	D15	DC	LIC	CAMPBELLSVILLE, KY	BLANK0000086921	128.2
No	WDYL-LD	D15	LD	CP	LOUISVILLE, KY	BLANK0000150167	244.3
No	WXIX-TV	D15	DT	LIC	NEWPORT, KY	BLANK0000087069	334.6
Yes	WPBM-CD	D15	DC	LIC	SCOTTSVILLE, KY	BLANK0000087303	92.5
No	KPOB-TV	D15	DT	LIC	POPLAR BLUFF, MO	BLCDT20090623ABU	454.3
No	W15EB-D	D15	DC	CP	CHARLOTTE, NC	BLANK0000127538	424.9
No	W15EB-D	D15	DC	LIC	CHARLOTTE, NC	BLANK0000083736	424.9
No	W15CW-D	D15	LD	LIC	FRANKLIN, NC	BLDTT20111227ABE	201.2
No	W15CW-D	D15	LD	CP	FRANKLIN, NC	BMPDTT20110127AAR	201.2
No	W15CW-D	D15	LD	CP	FRANKLIN, NC	BDISDTT20090824ACL	201.2
No	WDKT-LD	D15	LD	LIC	HENDERSONVILLE, NC	BLANK0000089000	305.8
No	W15DR-D	D15	LD	LIC	MAGGIE VALLEY, ETC, NC	BLANK0000119376	221.0
No	W15DY-D	D15	LD	LIC	MARION, ETC., NC	BLANK0000119377	313.0
No	W15EL-D	D15	LD	LIC	MARS HILL, NC	BLANK0000081166	260.6
No	WQCW	D15	DT	LIC	PORTSMOUTH, OH	BLANK0000100248	382.7
No	WCNT-LP	D15-	LD	CP	CHATTANOOGA, TN	BLANK0000051756	95.8
No	WDDY-LD	D15	LD	CP	JACKSON, TN	BNPDTL20100319AEP	310.7
Yes	WTNZ	D15	DT	LIC	KNOXVILLE, TN	BLANK0000081278	133.5
No	W15EA-D	D15	DC	LIC	MEMPHIS, TN	BLANK0000093191	405.8
No	WPXA-TV	D16	DT	LIC	ROME, GA	BLANK0000081827	220.3
No	WBKI	D16	DT	LIC	SALEM, IN	BLANK0000149848	242.8
No	W16EI-D	D16	LD	CP	BOWLING GREEN, KY	BNPDTL20090825BHZ	138.6
No	WEZK-LD	D16z	LD	LIC	KNOXVILLE, TN	BLANK0000100286	135.4
No	WHTN	D16	DT	LIC	MURFREESBORO, TN	BLANK0000100650	91.3
No	WCTD-LP	N22-	TX	LIC	DUCKTOWN, TN	BLTTTL20070622ADD	155.3
No	DDWJZC-LP	N22+	TX	APP	SEVIERVILLE, TN	BLTTTL19901017JE	171.6

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D15  
Mask: Full Service  
Latitude: 36 11 31.80 N (NAD83)  
Longitude: 85 25 22.80 W  
Height AMSL: 453.4 m

HAAT: 0.0 m  
Peak ERP: 15.0 kW  
Antenna: DIE-TUA (ID 120649) 290.0 deg  
Elev Pattn: Generic

48.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.138 kW	151.2 m	25.4 km
45.0	0.078	98.2	18.0
90.0	0.037	19.1	8.4
135.0	0.037	23.3	8.4
180.0	0.078	68.7	15.1
225.0	0.333	128.0	28.3
270.0	10.9	129.6	46.2
315.0	9.01	137.5	45.8

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m    Computed HAAT: 94 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

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: 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 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	ALGOOD, TN		92.5 km
	WAFF	D15	DT	LIC	HUNTSVILLE, AL	BLANK00000111344	239.4
	W15BU-D	D15	DC	CP	JOHNSON CITY, IL	BLANK00000035857	275.5
	WLCU-CD	D15	DC	LIC	CAMPBELLSVILLE, KY	BLANK00000086921	85.7
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	5737.5	229,353	5688.5	227,546	5640.7	226,070	0.57 0.49
Undesired				Total IX	Unique IX, before	Unique IX, after	
W15ER-D D15 LD APP				33.1	1,109	32.1	1,109
WAFF D15 DT LIC				2.0	0	0.0	0
WLCU-CD D15 DC LIC				46.9	367	45.9	367

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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	ALGOOD, TN		133.5 km
	WDSI-TV	D14	DT	LIC	CHATTANOOGA, TN	BLANK00000059350	154.2
	WLFG	D14	DD	LIC	GRUNDY, VA	BLANK00000071597	191.8
	WAFF	D15	DT	LIC	HUNTSVILLE, AL	BLANK00000111344	273.9
	WLCU-CD	D15	DC	LIC	CAMPBELLSVILLE, KY	BLANK00000086921	195.2
	WXIX-TV	D15	DT	LIC	NEWPORT, KY	BLANK00000087069	351.4
	WPBM-CD	D15	DC	LIC	SCOTTSVILLE, KY	BLANK00000087303	211.8
	W15EB-D	D15	DC	CP	CHARLOTTE, NC	BLANK00000127538	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	32934.5	1,552,061	32432.2	1,533,261	32432.2	1,533,261	0.00	0.00

Undesired				Total IX	Unique IX, before		Unique IX, after	
W15ER-D	D15	LD	APP	1.0	114		0.0	0
WDSI-TV	D14	DT	LIC	29.9	830	17.9	585	17.9
WLFG	D14	DD	LIC	13.1	647	13.1	647	13.1
WAFF	D15	DT	LIC	326.0	13,160	224.4	10,361	224.4
WLCU-CD	D15	DC	LIC	63.3	1,616	11.1	32	11.1
WXIX-TV	D15	DT	LIC	34.1	926	7.0	67	7.0
WPBM-CD	D15	DC	LIC	61.5	2,007	8.1	291	8.1
W15EB-D	D15	DC	CP	2.0	0	2.0	0	2.0
WQCW	D15	DT	LIC	117.3	4,104	86.2	1,889	86.2
WLTX	D15	DT	LIC	6.0	0	5.0	0	5.0
WPXA-TV	D16	DT	LIC	1.0	0	1.0	0	1.0
WAPK-CD	D16	DC	LIC	4.0	1,091	2.0	156	2.0

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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	ALGOOD, TN		133.5 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
	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	32934.5	1,552,061	32434.2	1,533,261	32434.2	1,533,261	0.00 0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
W15ER-D D15 LD APP	1.0	114				0.0	0
WDSI-TV D14 DT LIC	29.9	830		17.9	585	17.9	585
WLFG D14 DD LIC	13.1	647		13.1	647	13.1	647
WAFF D15 DT LIC	326.0	13,160		224.4	10,361	224.4	10,361
WLCU-CD D15 DC LIC	63.3	1,616		11.1	32	11.1	32
WXIX-TV D15 DT LIC	34.1	926		7.0	67	7.0	67
WPBM-CD D15 DC LIC	61.5	2,007		8.1	291	8.1	291
WQCW D15 DT LIC	117.3	4,104		86.2	1,889	86.2	1,889
WLTX D15 DT LIC	6.0	0		5.0	0	5.0	0
WPXA-TV D16 DT LIC	1.0	0		1.0	0	1.0	0
WAPK-CD D16 DC LIC	4.0	1,091		2.0	156	2.0	156

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Interference to proposal scenario 1  
3.21% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W15ER-D	D15	LD	APP	ALGOOD, TN		
Undesireds:	W14EE-D	D14	LD	CP	ALGOOD, TN	BNPDTL20100609AFW	0.0 km
	WAFF	D15	DT	LIC	HUNTSVILLE, AL	BLANK0000111344	193.0
	WPBM-CD	D15	DC	LIC	SCOTTSVILLE, KY	BLANK0000087303	92.5
	W15CW-D	D15	LD	LIC	FRANKLIN, NC	BLDTT20111227ABE	201.2
	WTNZ	D15	DT	LIC	KNOXVILLE, TN	BLANK0000081278	133.5

Service area		Terrain-limited		IX-free		Percent IX
2464.8	94,197	2330.6	92,345	2252.9	89,385	3.33 3.21

Undesired		Total IX		Unique IX		Prcnt Unique IX
W14EE-D D14 LD CP	63.6	2,739		52.5	2,497	2.25 2.70
WAFF D15 DT LIC	15.1	414		5.0	217	0.22 0.23
WPBM-CD D15 DC LIC	10.1	47		5.0	2	0.22 0.00

WTNZ D15 DT LIC	2.0	2	2.0	2	0.09	0.00
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