

tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: WUDX\_MOD, Model: Longley-Rice  
Start: 2021.09.12 20:47:45

Study created: 2021.09.12 20:44:20

Study build station data: LMS TV 2021-09-12

Proposal: WUDX-LD D28 LD APP TUSCALOOSA, AL  
File number: WUDX\_MOD  
Facility ID: 182919  
Station data: User record  
Record ID: 736  
Country: U.S.

Build options:  
Protect pre-transition records not on baseline channel

Search options:  
Non-U.S. records included  
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WLMS-LD	N25z	TX	LIC	COLUMBUS, MS	BLTT20031126AOI	22.7 km
No	WBUN-LD	D27	LD	LIC	BIRMINGHAM, AL	BLDTL20130909ACA	129.5
No	WAIQ	D27	DT	LIC	MONTGOMERY, AL	BLEDT20060706ACK	212.8
No	WNAL-LD	D27-	LD	LIC	SCOTTSBORO, AL	BLANK0000044789	213.3
Yes	WCBI-TV	D27	DT	LIC	COLUMBUS, MS	BLANK0000059851	72.1
No	WLJT-DT	D27	DT	LIC	LEXINGTON, TN	BLANK0000058637	255.5
No	WUOA-LD	D28	LD	LIC	BIRMINGHAM, AL	BLANK0000116438	129.5
No	WWBH-LD	D28	LD	LIC	MOBILE, AL	BLANK0000107240	317.4
Yes	WMCF-TV	D28	DT	LIC	MONTGOMERY, AL	BLANK0000107502	219.1
No	WYAM-LD	D28	LD	LIC	PRICEVILLE, AL	BLANK0000095679	173.5
No	KARZ-TV	D28	DT	LIC	LITTLE ROCK, AR	BLANK0000149902	423.0
No	WFSG	D28	DT	LIC	PANAMA CITY, FL	BLANK0000064507	402.4
No	WDWW-LD	D28	LD	LIC	ATLANTA, GA	BLANK0000105503	360.0
No	W28ER-D	D28	LD	CP	COLUMBUS, GA	BNPDTL20090825BAW	327.6
No	WELF-TV	D28	DT	LIC	DALTON, GA	BLANK0000090766	299.4
No	W28EU-D	D28	LD	LIC	MACON, GA	BLANK0000112812	397.3
No	DDDQTV-LPD28+		LD	APP	MURRAY, KY	BLANK0000054105	347.1
No	WYES-TV	D28	DT	CP	NEW ORLEANS, LA	BLANK0000153421	420.1
No	KNLD-LD	D28	LD	LIC	NEW ORLEANS, LA	BLDTL20100312ABM	426.3
No	KNLD-LD	D28	LD	CP	NEW ORLEANS, LA	BDFCDTL20100201ADQ	426.3
Yes	WMAW-TV	D28	DT	LIC	MERIDIAN, MS	BLANK0000106235	165.8
Yes	WREG-TV	D28	DT	LIC	MEMPHIS, TN	BLCDT20050513AAE	245.6
No	WKUW-LD	D28	LD	LIC	WHITE HOUSE, TN	BLANK0000142042	340.7
Yes	WBRC	D29	DT	LIC	BIRMINGHAM, AL	BLANK0000081282	130.3
No	WKNO	D29	DT	LIC	MEMPHIS, TN	BLEDT20060627ABE	242.7

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: 33 25 43.20 N (NAD83)  
Longitude: 88 12 8.30 W  
Height AMSL: 225.5 m  
HAAT: 0.0 m  
Peak ERP: 15.0 kW  
Antenna: ATC BCC312M-V3-28 295.0 deg  
Elev Pattn: Generic  
Elec Tilt: 0.75

50.1 dBu contour:  
Azimuth ERP HAAT Distance  
0.0 deg 9.72 kW 127.9 m 44.0 km

45.0	6.24	108.2	40.2
90.0	7.07	129.2	42.5
135.0	7.22	136.3	43.1
180.0	6.20	144.2	42.8
225.0	9.15	155.8	45.6
270.0	14.0	138.7	46.6
315.0	14.4	133.8	46.4

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m Computed HAAT: 134 m

Distance to Canadian border: 1037.3 km

Distance to Mexican border: 1180.3 km

Conditions at FCC monitoring station: Powder Springs GA  
Bearing: 80.5 degrees Distance: 325.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 301.1 degrees Distance: 1684.3 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 BLANK0000059851 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WCBI-TV	D27	DT	LIC	COLUMBUS, MS	BLANK0000059851	
Undesireds:	WUDX-LD	D28	LD	APP	TUSCALOOSA, AL	WUDX_MOD	72.1 km
	WFNA	D27	DT	LIC	GULF SHORES, AL	BLANK0000120977	354.4
	WAIQ	D27	DT	LIC	MONTGOMERY, AL	BLEDT20060706ACK	284.9
	KTVE	D27	DT	LIC	EL DORADO, AR	BLCDT20070105ABH	319.4
	KAIT	D27	DT	CP	JONESBORO, AR	BLANK0000151884	302.8
	WLJT-DT	D27	DT	LIC	LEXINGTON, TN	BLANK0000058637	218.4
	WKRN-TV	D27	DT	LIC	NASHVILLE, TN	BLANK0000115874	316.1
	WMAW-TV	D28	DT	LIC	MERIDIAN, MS	BLANK0000106235	180.4
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	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	37838.3	680,328	37491.4	675,938	36611.7	667,022	0.34 0.13
Undesired			Total IX		Unique IX, before	Unique IX, after	
WUDX-LD D28 LD APP		133.2	957			125.2 889	
WFNA D27 DT LIC		74.9	712		17.0 177	17.0 177	
WAIQ D27 DT LIC		239.6	2,069		160.0 1,406	154.0 1,369	
KTVE D27 DT LIC		320.3	2,394		273.2 1,763	273.2 1,763	
KAIT D27 DT CP		82.4	710		9.0 42	9.0 42	
WLJT-DT D27 DT LIC		176.7	2,608		61.2 1,158	61.2 1,158	
WKRN-TV D27 DT LIC		241.1	2,411		112.1 1,037	112.1 1,037	
WMAW-TV D28 DT LIC		23.0	892		19.0 877	19.0 877	

#### ----- Interference to BLANK0000107502 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WMCF-TV	D28	DT	LIC	MONTGOMERY, AL	BLANK0000107502	
Undesireds:	WUDX-LD	D28	LD	APP	TUSCALOOSA, AL	WUDX_MOD	219.1 km
	WAIQ	D27	DT	LIC	MONTGOMERY, AL	BLEDT20060706ACK	9.3
	WFSG	D28	DT	LIC	PANAMA CITY, FL	BLANK0000064507	227.8
	WELF-TV	D28	DT	LIC	DALTON, GA	BLANK0000090766	278.4
	WMAW-TV	D28	DT	LIC	MERIDIAN, MS	BLANK0000106235	273.8
	WBRC	D29	DT	LIC	BIRMINGHAM, AL	BLANK0000081282	133.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
18386.6 612,924	17997.7 609,569	17410.7 601,684	17410.7 601,684	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WUDX-LD D28 LD APP 4.0	119	0.0	0
WAIQ D27 DT LIC 120.7	2,074	100.6	1,619
WFSG D28 DT LIC 99.8	1,281	54.5	785
WELF-TV D28 DT LIC 40.9	665	19.0	401
WMAW-TV D28 DT LIC 267.2	2,889	193.8	1,596
WBRC D29 DT LIC 156.7	2,374	133.7	2,036

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Interference to BLANK0000106235 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WMAW-TV	D28	DT	LIC	MERIDIAN, MS	BLANK0000106235	
Undesireds:	WUDX-LD	D28	LD	APP	TUSCALOOSA, AL	WUDX_MOD	165.8 km
	WCBI-TV	D27	DT	LIC	COLUMBUS, MS	BLANK0000059851	180.4
	WMCF-TV	D28	DT	LIC	MONTGOMERY, AL	BLANK0000107502	273.8
	KATC	D28	DT	LIC	LAFAYETTE, LA	BLCDT20071109AAV	364.7
	WYES-TV	D28	DT	CP	NEW ORLEANS, LA	BLANK0000153421	256.1
	WREG-TV	D28	DT	LIC	MEMPHIS, TN	BLCDT20050513AAE	345.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
32600.2 726,149	32320.5 715,397	31605.4 710,196	31126.6 708,377	1.52 0.26

Undesired	Total IX	Unique IX, before	Unique IX, after
WUDX-LD D28 LD APP 609.9	2,612	478.8	1,819
WCBI-TV D27 DT LIC 44.9	314	9.0	12
WMCF-TV D28 DT LIC 462.6	1,578	423.4	1,161
KATC D28 DT LIC 44.5	462	8.1	195
WYES-TV D28 DT CP 196.7	3,044	143.1	2,694
WREG-TV D28 DT LIC 60.9	378	32.0	55

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Interference to BLCDT20050513AAE LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WREG-TV	D28	DT	LIC	MEMPHIS, TN	BLCDT20050513AAE	
Undesireds:	WUDX-LD	D28	LD	APP	TUSCALOOSA, AL	WUDX_MOD	245.6 km
	KAIT	D27	DT	CP	JONESBORO, AR	BLANK00000151884	127.1
	WCBI-TV	D27	DT	LIC	COLUMBUS, MS	BLANK0000059851	181.4
	WLJT-DT	D27	DT	LIC	LEXINGTON, TN	BLANK0000058637	125.6
	KARZ-TV	D28	DT	LIC	LITTLE ROCK, AR	BLANK0000149902	245.9
	WEVV-TV	D28	DT	LIC	EVANSVILLE, IN	BLANK0000087480	363.7
	KOZL-TV	D28	DT	LIC	SPRINGFIELD, MO	BLCDT20070213ABB	359.8
	WMAW-TV	D28	DT	LIC	MERIDIAN, MS	BLANK0000106235	345.0
	WKNO	D29	DT	LIC	MEMPHIS, TN	BLEDT20060627ABE	3.1

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
30865.9 1,641,062	30667.4 1,635,403	30217.7 1,624,479	30214.7 1,624,317	0.01 0.01

Undesired	Total IX	Unique IX, before	Unique IX, after
WUDX-LD D28 LD APP 25.1	1,014	3.0	162
KAIT D27 DT CP 192.2	2,666	154.4	1,345
WCBI-TV D27 DT LIC 5.0	124	0.0	0
WLJT-DT D27 DT LIC 29.8	784	26.8	735
KARZ-TV D28 DT LIC 31.0	3,153	20.0	2,995
WEVV-TV D28 DT LIC 3.0	38	2.0	3
KOZL-TV D28 DT LIC 36.7	1,320	0.0	0
WMAW-TV D28 DT LIC 92.5	3,431	82.5	2,549
WKNO D29 DT LIC 119.2	1,160	111.2	933

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Interference to BLANK0000081282 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WBRC	D29	DT	LIC	BIRMINGHAM, AL	BLANK0000081282	

Undesireds:	WUDX-LD	D28	LD	APP	TUSCALOOSA, AL	WUDX_MOD	130.3 km
	WMCF-TV	D28	DT	LIC	MONTGOMERY, AL	BLANK00000107502	133.0
	WFBD	D29	DT	LIC	DESTIN, FL	BLANK00000131443	276.9
	WFXL	D29	DT	CP	ALBANY, GA	BLANK00000150485	365.3
	WYGA-CD	D29	DC	CP	ATLANTA, GA	BLANK00000127583	227.6
	WKOP-TV	D29	DT	LIC	KNOXVILLE, TN	BLANK0000081273	380.9
	WKNO	D29	DT	LIC	MEMPHIS, TN	BLEDT20060627ABE	333.6
	WIAT	D30	DT	LIC	BIRMINGHAM, AL	BLCDT20021219AAV	0.8

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	35203.0	1,883,707	33743.0	1,847,092	32670.8	1,820,659	32669.8	1,820,652	0.00 0.00

Undesired				Total IX	Unique IX, before	Unique IX, after
WUDX-LD D28 LD APP		2.0		7		1.0 7
WMCF-TV D28 DT LIC		220.3		6,328	195.3 5,659	195.3 5,659
WFBD D29 DT LIC		210.2		1,584	157.2 769	157.2 769
WFXL D29 DT CP		157.5		2,716	94.7 1,552	94.7 1,552
WYGA-CD D29 DC CP		51.8		1,649	18.9 392	18.9 392
WKOP-TV D29 DT LIC		6.0		882	4.0 544	4.0 544
WKNO D29 DT LIC		138.9		2,613	134.0 2,558	133.0 2,558
WIAT D30 DT LIC		388.4		13,061	380.4 12,925	380.4 12,925

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Interference to BLANK0000081282 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WBRC	D29	DT	LIC	BIRMINGHAM, AL	BLANK0000081282			
Undesireds:	WUDX-LD	D28	LD	APP	TUSCALOOSA, AL	WUDX_MOD	130.3 km		
	WMCF-TV	D28	DT	LIC	MONTGOMERY, AL	BLANK00000107502	133.0		
	WFBD	D29	DT	LIC	DESTIN, FL	BLANK00000131443	276.9		
	WFXL	D29	DT	CP	ALBANY, GA	BLANK00000150485	365.3		
	WYGA-CD	D29	DC	LIC	ATLANTA, GA	BLANK0000081313	227.6		
	WKOP-TV	D29	DT	LIC	KNOXVILLE, TN	BLANK0000081273	380.9		
	WKNO	D29	DT	LIC	MEMPHIS, TN	BLEDT20060627ABE	333.6		
	WIAT	D30	DT	LIC	BIRMINGHAM, AL	BLCDT20021219AAV	0.8		
	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
35203.0	1,883,707	33743.0	1,847,092	32670.8	1,820,659	32669.8	1,820,652	0.00	0.00

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Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WUDX-LD	D28	LD	APP	TUSCALOOSA, AL	WUDX_MOD	
Undesireds:	WCBI-TV	D27	DT	LIC	COLUMBUS, MS	BLANK0000059851	72.1 km
	WMCF-TV	D28	DT	LIC	MONTGOMERY, AL	BLANK00000107502	219.1
	WMAW-TV	D28	DT	LIC	MERIDIAN, MS	BLANK00000106235	165.8
	WREG-TV	D28	DT	LIC	MEMPHIS, TN	BLCDT20050513AAE	245.6
	Service area			Terrain-limited		IX-free	Percent IX
	6065.6	110,924		5976.2	110,549	5792.7	109,252 3.07 1.17

Undesired				Total IX	Unique IX	Prcnt Unique IX
WCBI-TV D27 DT LIC		14.9		118	3.0 0	0.05 0.00
WMCF-TV D28 DT LIC		18.9		67	5.0 17	0.08 0.02
WMAW-TV D28 DT LIC		168.6		1,251	143.8 1,115	2.41 1.01
WREG-TV D28 DT LIC		14.9		74	3.0 0	0.05 0.00