

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: WUOA-LD MOD, Model: Longley-Rice
Start: 2022.10.28 12:47:03

Study created: 2022.10.28 12:47:03

Study build station data: LMS TV 2022-10-25

Proposal: WUOA-LD D28 LD LIC BIRMINGHAM, AL
File number: WUOA-LD MOD
Facility ID: 990
Station data: User record
Record ID: 887
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	WBUN-LD	D27	LD	LIC	BIRMINGHAM, AL	BLDTL20130909ACA	0.0 km
No	WAIQ	D27	DT	LIC	MONTGOMERY, AL	BLEDT20060706ACK	131.6
No	WNAL-LD	N27-	TX	LIC	Scottsboro, AL	BLTT20060126AEL	143.9
No	WNAL-LD	D27-	LD	LIC	Scottsboro, AL	BLANK0000177983	141.4
No	WAGA-TV	D27	DT	LIC	ATLANTA, GA	BLANK0000152298	231.5
No	W27DK-D	D27	LD	APP	COLUMBUS, GA	BLANK0000202071	228.3
No	WCBI-TV	D27	DT	LIC	COLUMBUS, MS	BLANK0000059851	194.0
No	WWBH-LD	D28	LD	LIC	MOBILE, AL	BLANK0000107240	328.8
Yes	WMCB-TV	D28	DT	LIC	MONTGOMERY, AL	BLANK0000107502	133.0
Yes	WYAM-LD	D28	LD	LIC	PRICEVILLE, AL	BLANK0000095679	120.7
No	WUDX-LD	D28	LD	LIC	TUSCALOOSA, AL	BLANK0000177474	129.5
No	WFSG	D28	DT	LIC	PANAMA CITY, FL	BLANK0000064507	356.3
No	WSST-LD	D28	LD	LIC	ALBANY, GA	BLANK0000169383	331.9
No	WDWW-LD	D28	LD	LIC	ATLANTA, GA	BLANK0000105503	231.1
No	WJBF	D28	DT	LIC	AUGUSTA, GA	BLANK0000116201	461.3
Yes	WELF-TV	D28	DT	LIC	DALTON, GA	BLANK0000090766	196.1
No	W28EU-D	D28	LD	LIC	MACON, GA	BLANK0000112812	269.6
No	W28EW-D	D28	LD	LIC	TOCCOA, GA	BLANK0000167502	340.8
No	DDWQTV-LPD28+		LD	APP	MURRAY, KY	BLANK0000054105	367.8
Yes	WMAW-TV	D28	DT	LIC	MERIDIAN, MS	BLANK0000106235	260.8
No	WREG-TV	D28	DT	LIC	MEMPHIS, TN	BLCDT20050513AAE	335.6
No	WKUW-LD	D28	LD	LIC	WHITE HOUSE, TN	BLANK0000142042	309.4
No	WBRC	D29	DT	LIC	BIRMINGHAM, AL	BLANK0000192788	0.8
No	WQMK-LD	D29	LD	LIC	CUSSETA, AL	BLANK0000143981	163.3
No	W29FP-D	D29	LD	CP	MONTGOMERY, AL	BLANK0000197518	132.6
No	WFBD	D29	DD	CP	DESTIN, FL	BLANK0000182313	289.3
No	WYGA-CD	D29	DC	LIC	ATLANTA, GA	BLANK0000081313	228.3
No	WYGA-CD	D29	DC	CP	ATLANTA, GA	BLANK0000199747	228.3
No	WYGA-CD	D29	DC	LIC	ATLANTA, GA	BLANK0000200786	228.3
No	W29FD-D	D29	LD	LIC	COLUMBUS, GA	BLANK0000095112	228.3
No	WTCI	D29	DT	LIC	CHATTANOOGA, TN	BLANK0000001535	237.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D28
Mask: Full Service
Latitude: 33 29 4.80 N (NAD83)
Longitude: 86 48 25.20 W
Height AMSL: 404.4 m
HAAT: 0.0 m
Peak ERP: 10.0 kW
Antenna: DIE TUA-P2-3/6M-K 20.0 deg
Elev Pattnr: Generic

50.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	7.17 kW	225.0 m	48.5 km
45.0	6.03	170.2	44.4
90.0	0.098	199.8	24.9
135.0	0.170	204.1	27.9

180.0	7.17	219.5	48.2
225.0	6.03	214.8	47.0
270.0	0.098	224.3	26.1
315.0	0.170	221.1	28.8

Database HAAT does not agree with computed HAAT
 Database HAAT: 0 m Computed HAAT: 210 m

Distance to Canadian border: 980.1 km

Distance to Mexican border: 1283.3 km

Conditions at FCC monitoring station: Powder Springs GA
 Bearing: 77.1 degrees Distance: 197.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
 Bearing: 299.6 degrees Distance: 1792.8 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 BLANK0000107502 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WMCN-TV	D28	DT	LIC	MONTGOMERY, AL	BLANK0000107502	
Undesireds:	WUOA-LD	D28	LD	LIC	BIRMINGHAM, AL	WUOA-LD MOD	133.0 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	BLANK0000192788	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 17310.7 599,682 0.57 0.33
Undesired		Total IX		Unique IX, before		Unique IX, after	
WUOA-LD D28 LD LIC		246.0		4,585		100.0	2,002
WAIQ D27 DT LIC		120.7		2,074		96.6	1,617
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	1,685
WBRC D29 DT LIC		156.7		2,374		133.7	2,036

----- Interference to BLANK0000095679 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WYAM-LD	D28	LD	LIC	PRICEVILLE, AL	BLANK0000095679	
Undesireds:	WUOA-LD	D28	LD	LIC	BIRMINGHAM, AL	WUOA-LD MOD	120.7 km
	WNAL-LD	N27-	TX	LIC	Scottsboro, AL	BLTT20060126AEL	84.3
	WMCN-TV	D28	DT	LIC	MONTGOMERY, AL	BLANK0000107502	249.4
	WELF-TV	D28	DT	LIC	DALTON, GA	BLANK0000090766	139.5
	WREG-TV	D28	DT	LIC	MEMPHIS, TN	BLCDT20050513AAE	274.8
	WFET-LD	D29	LD	LIC	LEWISBURG, TN	BLANK0000091947	117.4
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
4168.7		445,904		4095.3		441,059	4007.8 433,420 3995.7 433,060 0.30 0.08
Undesired		Total IX		Unique IX, before		Unique IX, after	
WUOA-LD D28 LD LIC		32.2		1,465		12.1	360
WMCN-TV D28 DT LIC		11.1		288		2.0	0
WELF-TV D28 DT LIC		84.5		7,617		72.4	7,277
WREG-TV D28 DT LIC		6.0		74		1.0	22

----- Interference to BLANK0000095679 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WYAM-LD	D28	LD	LIC	PRICEVILLE, AL	BLANK0000095679	

Undesireds:	WUOA-LD	D28	LD	LIC	BIRMINGHAM, AL	WUOA-LD MOD	120.7 km
	WNAL-LD	D27-	LD	LIC	Scottsboro, AL	BLANK0000177983	39.5
	WMCf-TV	D28	DT	LIC	MONTGOMERY, AL	BLANK0000107502	249.4
	WELF-TV	D28	DT	LIC	DALTON, GA	BLANK0000090766	139.5
	WREG-TV	D28	DT	LIC	MEMPHIS, TN	BLCDT20050513AAE	274.8
	WFET-LD	D29	LD	LIC	LEWISBURG, TN	BLANK0000091947	117.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
4168.7 445,904	4095.3 441,059	4006.8 432,145	3994.7 431,785	0.30 0.08

Undesired	Total IX	Unique IX, before	Unique IX, after
WUOA-LD D28 LD LIC	32.2 1,465		12.1 360
WNAL-LD D27- LD LIC	4.0 2,716	1.0 1,275	1.0 1,275
WMCf-TV D28 DT LIC	11.1 288	2.0 0	1.0 0
WELF-TV D28 DT LIC	84.5 7,617	69.4 5,836	57.3 4,961
WREG-TV D28 DT LIC	6.0 74	1.0 22	1.0 22

Interference to BLANK0000090766 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WELF-TV	D28	DT	LIC	DALTON, GA	BLANK0000090766	
Undesireds:	WUOA-LD	D28	LD	LIC	BIRMINGHAM, AL	WUOA-LD MOD	196.1 km
	WAGA-TV	D27	DT	LIC	ATLANTA, GA	BLANK0000152298	151.3
	WMCf-TV	D28	DT	LIC	MONTGOMERY, AL	BLANK0000107502	278.4
	WJBF	D28	DT	LIC	AUGUSTA, GA	BLANK0000116201	365.5
	WLEX-TV	D28	DT	LIC	LEXINGTON, KY	BLANK0000087372	368.5
	WEMT	D28	DT	LIC	GREENEVILLE, TN	BLANK0000072087	349.4
	WYGA-CD	D29	DC	LIC	ATLANTA, GA	BLANK0000081313	154.3
	WKOP-TV	D29	DT	LIC	KNOXVILLE, TN	BLANK0000081273	185.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
29358.6 1,476,583	25642.7 1,384,766	25147.2 1,358,921	25125.2 1,358,581	0.09 0.03

Undesired	Total IX	Unique IX, before	Unique IX, after
WUOA-LD D28 LD LIC	37.0 563		22.0 340
WAGA-TV D27 DT LIC	33.2 2,561	22.1 2,204	22.1 2,204
WMCf-TV D28 DT LIC	350.9 18,812	341.8 18,645	326.8 18,422
WJBF D28 DT LIC	22.1 1,263	6.0 814	6.0 814
WLEX-TV D28 DT LIC	19.8 243	14.9 81	14.9 81
WEMT D28 DT LIC	94.5 3,744	80.5 3,359	80.5 3,359
WKOP-TV D29 DT LIC	7.0 0	2.0 0	2.0 0

Interference to BLANK0000090766 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WELF-TV	D28	DT	LIC	DALTON, GA	BLANK0000090766	
Undesireds:	WUOA-LD	D28	LD	LIC	BIRMINGHAM, AL	WUOA-LD MOD	196.1 km
	WAGA-TV	D27	DT	LIC	ATLANTA, GA	BLANK0000152298	151.3
	WMCf-TV	D28	DT	LIC	MONTGOMERY, AL	BLANK0000107502	278.4
	WJBF	D28	DT	LIC	AUGUSTA, GA	BLANK0000116201	365.5
	WLEX-TV	D28	DT	LIC	LEXINGTON, KY	BLANK0000087372	368.5
	WEMT	D28	DT	LIC	GREENEVILLE, TN	BLANK0000072087	349.4
	WYGA-CD	D29	DC	CP	ATLANTA, GA	BLANK0000199747	154.3
	WKOP-TV	D29	DT	LIC	KNOXVILLE, TN	BLANK0000081273	185.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
29358.6 1,476,583	25642.7 1,384,766	25147.2 1,358,921	25125.2 1,358,581	0.09 0.03

Undesired	Total IX	Unique IX, before	Unique IX, after
WUOA-LD D28 LD LIC	37.0 563		22.0 340
WAGA-TV D27 DT LIC	33.2 2,561	22.1 2,204	22.1 2,204
WMCf-TV D28 DT LIC	350.9 18,812	341.8 18,645	326.8 18,422
WJBF D28 DT LIC	22.1 1,263	6.0 814	6.0 814
WLEX-TV D28 DT LIC	19.8 243	14.9 81	14.9 81
WEMT D28 DT LIC	94.5 3,744	80.5 3,359	80.5 3,359
WYGA-CD D29 DC CP	1.0 0	0.0 0	0.0 0
WKOP-TV D29 DT LIC	7.0 0	2.0 0	2.0 0

Interference to BLANK0000090766 LIC scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WELF-TV	D28	DT	LIC	DALTON, GA	BLANK0000090766	

Undesireds:	WUOA-LD	D28	LD	LIC	BIRMINGHAM, AL	WUOA-LD MOD	196.1 km
	WAGA-TV	D27	DT	LIC	ATLANTA, GA	BLANK0000152298	151.3
	WMCF-TV	D28	DT	LIC	MONTGOMERY, AL	BLANK0000107502	278.4
	WJBF	D28	DT	LIC	AUGUSTA, GA	BLANK0000116201	365.5
	WLEX-TV	D28	DT	LIC	LEXINGTON, KY	BLANK0000087372	368.5
	WEMT	D28	DT	LIC	GREENEVILLE, TN	BLANK0000072087	349.4
	WYGA-CD	D29	DC	LIC	ATLANTA, GA	BLANK0000200786	154.3
	WKOP-TV	D29	DT	LIC	KNOXVILLE, TN	BLANK0000081273	185.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
29358.6 1,476,583	25642.7 1,384,766	25147.2 1,358,921	25125.2 1,358,581	0.09 0.03

Undesired	Total IX	Unique IX, before	Unique IX, after
WUOA-LD D28 LD LIC	37.0 563	22.0 340	
WAGA-TV D27 DT LIC	33.2 2,561	22.1 2,204	
WMCF-TV D28 DT LIC	350.9 18,812	341.8 18,645	
WJBF D28 DT LIC	22.1 1,263	6.0 814	
WLEX-TV D28 DT LIC	19.8 243	14.9 81	
WEMT D28 DT LIC	94.5 3,744	80.5 3,359	
WYGA-CD D29 DC LIC	1.0 0	0.0 0	
WKOP-TV D29 DT LIC	7.0 0	2.0 0	

Interference to BLANK0000090766 LIC scenario 4

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: WELF-TV	D28	DT	LIC	DALTON, GA	BLANK0000090766	

Undesireds:	WUOA-LD	D28	LD	LIC	BIRMINGHAM, AL	WUOA-LD MOD	196.1 km
	WAGA-TV	D27	DT	LIC	ATLANTA, GA	BLANK0000152298	151.3
	WMCF-TV	D28	DT	LIC	MONTGOMERY, AL	BLANK0000107502	278.4
	WJBF	D28	DT	LIC	AUGUSTA, GA	BLANK0000116201	365.5
	WLEX-TV	D28	DT	CP	LEXINGTON, KY	BLANK0000157703	368.5
	WEMT	D28	DT	LIC	GREENEVILLE, TN	BLANK0000072087	349.4
	WYGA-CD	D29	DC	LIC	ATLANTA, GA	BLANK0000081313	154.3
	WKOP-TV	D29	DT	LIC	KNOXVILLE, TN	BLANK0000081273	185.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
29358.6 1,476,583	25642.7 1,384,766	25118.5 1,358,734	25096.4 1,358,394	0.09 0.03

Undesired	Total IX	Unique IX, before	Unique IX, after
WUOA-LD D28 LD LIC	37.0 563	22.0 340	
WAGA-TV D27 DT LIC	33.2 2,561	22.1 2,204	
WMCF-TV D28 DT LIC	350.9 18,812	341.8 18,645	
WJBF D28 DT LIC	22.1 1,263	6.0 814	
WLEX-TV D28 DT CP	54.6 594	43.6 268	
WEMT D28 DT LIC	94.5 3,744	74.6 3,195	
WKOP-TV D29 DT LIC	7.0 0	2.0 0	

Interference to BLANK0000090766 LIC scenario 5

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: WELF-TV	D28	DT	LIC	DALTON, GA	BLANK0000090766	

Undesireds:	WUOA-LD	D28	LD	LIC	BIRMINGHAM, AL	WUOA-LD MOD	196.1 km
	WAGA-TV	D27	DT	LIC	ATLANTA, GA	BLANK0000152298	151.3
	WMCF-TV	D28	DT	LIC	MONTGOMERY, AL	BLANK0000107502	278.4
	WJBF	D28	DT	LIC	AUGUSTA, GA	BLANK0000116201	365.5
	WLEX-TV	D28	DT	CP	LEXINGTON, KY	BLANK0000157703	368.5
	WEMT	D28	DT	LIC	GREENEVILLE, TN	BLANK0000072087	349.4
	WYGA-CD	D29	DC	CP	ATLANTA, GA	BLANK0000199747	154.3
	WKOP-TV	D29	DT	LIC	KNOXVILLE, TN	BLANK0000081273	185.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
29358.6 1,476,583	25642.7 1,384,766	25118.5 1,358,734	25096.4 1,358,394	0.09 0.03

Undesired	Total IX	Unique IX, before	Unique IX, after
WUOA-LD D28 LD LIC	37.0 563	22.0 340	
WAGA-TV D27 DT LIC	33.2 2,561	22.1 2,204	
WMCF-TV D28 DT LIC	350.9 18,812	341.8 18,645	
WJBF D28 DT LIC	22.1 1,263	6.0 814	
WLEX-TV D28 DT CP	54.6 594	43.6 268	
WEMT D28 DT LIC	94.5 3,744	74.6 3,195	
WYGA-CD D29 DC CP	1.0 0	0.0 0	
WKOP-TV D29 DT LIC	7.0 0	2.0 0	

Interference to BLANK0000090766 LIC scenario 6

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WELF-TV	D28	DT	LIC	DALTON, GA	BLANK0000090766	
Undesireds:	WUOA-LD	D28	LD	LIC	BIRMINGHAM, AL	WUOA-LD MOD	196.1 km
	WAGA-TV	D27	DT	LIC	ATLANTA, GA	BLANK0000152298	151.3
	WMCF-TV	D28	DT	LIC	MONTGOMERY, AL	BLANK0000107502	278.4
	WJBF	D28	DT	LIC	AUGUSTA, GA	BLANK0000116201	365.5
	WLEX-TV	D28	DT	CP	LEXINGTON, KY	BLANK0000157703	368.5
	WEMT	D28	DT	LIC	GREENEVILLE, TN	BLANK0000072087	349.4
	WYGA-CD	D29	DC	LIC	ATLANTA, GA	BLANK0000200786	154.3
	WKOP-TV	D29	DT	LIC	KNOXVILLE, TN	BLANK0000081273	185.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
29358.6		1,476,583		25642.7		1,384,766	25118.5
						1,358,734	25096.4
						1,358,394	0.09
							0.03
Undesired		Total IX		Unique IX, before		Unique IX, after	
WUOA-LD D28 LD LIC		37.0		563		22.0	
WAGA-TV D27 DT LIC		33.2		2,561		22.1	
WMCF-TV D28 DT LIC		350.9		18,812		326.8	
WJBF D28 DT LIC		22.1		1,263		6.0	
WLEX-TV D28 DT CP		54.6		594		43.6	
WEMT D28 DT LIC		94.5		3,744		74.6	
WYGA-CD D29 DC LIC		1.0		0		0.0	
WKOP-TV D29 DT LIC		7.0		0		2.0	

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:	WUOA-LD	D28	LD	LIC	BIRMINGHAM, AL	WUOA-LD MOD	260.8 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	31605.4
						710,196	0.00
							0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
WUOA-LD D28 LD LIC		3.0		0		0.0	
WCBI-TV D27 DT LIC		44.9		314		22.9	
WMCF-TV D28 DT LIC		462.6		1,578		420.4	
KATC D28 DT LIC		44.5		462		8.1	
WYES-TV D28 DT CP		196.7		3,044		143.1	
WREG-TV D28 DT LIC		60.9		378		32.0	

Interference to proposal scenario 1
35.19% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WUOA-LD	D28	LD	LIC	BIRMINGHAM, AL	WUOA-LD MOD	
Undesireds:	WBUN-LD	D27	LD	LIC	BIRMINGHAM, AL	BLDTL20130909ACA	0.0 km
	WNAL-LD	N27-	TX	LIC	Scottsboro, AL	BLTT20060126AEL	143.9
	WMCF-TV	D28	DT	LIC	MONTGOMERY, AL	BLANK0000107502	133.0
	WYAM-LD	D28	LD	LIC	PRICEVILLE, AL	BLANK0000095679	120.7
	WELF-TV	D28	DT	LIC	DALTON, GA	BLANK0000090766	196.1
	WMAW-TV	D28	DT	LIC	MERIDIAN, MS	BLANK0000106235	260.8
	WBRC	D29	DT	LIC	BIRMINGHAM, AL	BLANK0000192788	0.8
Service area		Terrain-limited		IX-free		Percent IX	
4641.7		884,547		4206.9		860,243	2171.3
						557,547	48.39
							35.19
Undesired		Total IX		Unique IX		Prct Unique IX	
WBUN-LD D27 LD LIC		19.8		3,663		1.0	
WMCF-TV D28 DT LIC		200.7		17,339		25.8	
WYAM-LD D28 LD LIC		6.0		825		0.0	
WELF-TV D28 DT LIC		58.6		2,854		4.0	
WMAW-TV D28 DT LIC		19.8		2,930		3.0	
WBRC D29 DT LIC		1994.9		299,583		1781.3	