

# INTERFERENCE ANALYSIS FOR LICENSED WSB-TV (DRT FACILITY), ATHENS, GA, CHANNEL 31, WITH RESPECT TO WPCH-TV

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: BLCDT20100429ADZ, Model: Longley-Rice

Study build station data: LMS TV 2021-01-10

Proposal: WSB-TV D31 LD LIC ATLANTA, GA  
File number: BLCDT20100429ADZ  
Facility ID: 23960  
Station data: LMS TV 2021-01-10  
Record ID: 605f6052e2b44253a777cf6212b6c0ea  
Country: U.S.

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	WTBS-LD	D30	LD	LIC	ATLANTA, GA	BLDTL20110105ABR	53.1 km
No	WAGT-CD	D30	DC	LIC	AUGUSTA, GA	BLANK0000063630	189.6
Yes	WBUD-LD	D30	LD	CP	BLAIRSVILLE, GA	BLANK0000071622	53.1
No	WDGA-CD	D30	DC	LIC	DALTON, GA	BLANK0000098047	144.2
Yes	WMGT-TV	D30	DT	LIC	MACON, GA	BLANK0000075816	132.4
No	W30DX-D	D30	LD	LIC	BRYSON CITY, ETC, NC	BLANK0000119378	166.8
Yes	WYFF	D30	DT	LIC	GREENVILLE, SC	BLANK0000081030	169.9
No	W11DM-D	N30-	TX	LIC	COLLEGE DALE, TN	BLTTL19990802JH	169.7
No	WAXC-LD	D31	LD	LIC	ALEXANDER CITY, AL	BLDTL20110329ABN	228.2
No	WSFG-LD	D31	LD	CP	BERRY, AL	BLANK0000029418	350.3
No	WWHL-LD	D31-	LD	LIC	Huntsville, AL	BLANK0000118828	323.3
No	W31EB-D	D31	LD	CP	MIDLAND CITY, AL	BNPDTL20100510ALJ	331.9
No	WNCF	D31	DT	LIC	MONTGOMERY, AL	BLANK0000001319	342.2
No	W31DS-D	D31	LD	CP	ASHBURN, GA	BNPDTL20100510ABE	243.5
Yes	WPCH-TV	D31	DT	LIC	ATLANTA, GA	BLANK0000081575	53.1
No	W31EU-D	D31	LD	CP	COLUMBUS, GA	BLANK0000071968	189.6
No	WSWG	D31	DT	LIC	VALDOSTA, GA	BLANK0000063722	309.1
No	W31EE-D	D31	LD	CP	VALDOSTA, GA	BNPDTL20090825CAJ	349.9
Yes	WMUB-LD	D31	LD	CP	WARNER ROBINS, GA	BLANK0000054344	131.3
Yes	W31DH-D	D31	LD	CP	FRANKLIN, ETC, NC	BLANK0000129897	160.6
Yes	W31DH-D	D31	LD	LIC	FRANKLIN, ETC, NC	BLDTT20090615AAP	160.6
No	WDKT-LD	N31-	TX	LIC	HENDERSONVILLE, NC	BLTTL19940525JJ	191.0
No	WGHP	D31	DT	LIC	HIGH POINT, NC	BLANK0000116302	415.9
Yes	W31AN-D	D31	LD	CP	MURPHY, NC	BLANK0000129948	130.0
No	W31AN-D	D31	LD	LIC	MURPHY, NC	BLDTT20090615AAV	129.9
No	W31DI-D	D31	LD	CP	SPRUCE PINE, NC	BLANK0000129695	265.2
No	W31DI-D	D31	LD	LIC	SPRUCE PINE, NC	BLANK0000130730	265.2
No	W31DI-D	D31	LD	LIC	SPRUCE PINE, NC	BLDTT20090506ABZ	265.2
No	WJNI-LD	D31	LD	LIC	NORTH CHARLESTON, SC	BLDTL20100916ADG	359.1
Yes	W31DY-D	D31	LD	LIC	PICKENS, SC	BLANK0000119379	168.6
No	WKTC	D31	DT	LIC	SUMTER, SC	BLANK0000093003	278.9
Yes	WBXX-TV	D31	DT	LIC	CROSSVILLE, TN	BLANK0000081641	247.3
No	WAXC-LD	D32	LD	CP	ALEXANDER CITY, AL	BDISDTL20120831ABQ	228.2
No	W50BO	D32+	LD	CP	ASHVILLE, AL	BLANK0000054790	224.7
Yes	WSB-TV	D32	LD	CP	ATLANTA, GA	BLANK0000054733	0.0
Yes	WSB-TV	D32	LD	CP	ATLANTA, GA	BLANK0000054736	22.7
Yes	WSB-TV	D32	DT	LIC	ATLANTA, GA	BLANK0000104824	56.5
No	W11DD-D	D32	LD	CP	HARTWELL & ROYSTON, GA	BLANK0000053811	88.6
No	W32FN-D	D32	LD	CP	MACON, GA	BLANK0000071800	131.3
No	W32FI-D	D32	LD	LIC	BREVARD, NC	BLANK0000074959	171.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D31

Mask: Stringent

Latitude: 33 55 51.00 N (NAD83)

Longitude: 83 47 0.00 W

Height AMSL: 540.0 m

HAAT: 0.0 m

Peak ERP: 9.00 kW

Antenna: AND-ALP16L3-HSP (ID 16550) 80.0 deg

Elev Pattern: Generic

Elec Tilt: 0.75

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50.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	8.52 kW	251.0 m	50.4 km
45.0	6.76	268.9	50.2
90.0	4.90	282.6	49.2
135.0	8.52	279.5	52.0
180.0	6.23	284.7	50.6
225.0	0.770	263.0	38.4
270.0	0.752	244.6	37.4
315.0	2.39	250.6	43.8

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m    Computed HAAT: 266 m

Distance to Canadian border: 866.4 km

Distance to Mexican border: 1541.6 km

Conditions at FCC monitoring station: Powder Springs GA

Bearing: 265.2 degrees    Distance: 87.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 296.2 degrees    Distance: 2017.0 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%

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Interference to BLANK0000081575 LIC scenario 1

**\*\*IX: 6.78% interference caused**

	Call	Chan	Svc	Status	City, State	File Number	Distance
<b>Desired:</b>	WPCH-TV	D31	DT	LIC	ATLANTA, GA	BLANK0000081575	
<b>Undesireds:</b>	WSB-TV	D31	LD	LIC	ATLANTA, GA	BLCDT20100429ADZ	53.1 km
	WDGA-CD	D30	DC	LIC	DALTON, GA	BLANK0000098047	120.3
	WMGT-TV	D30	DT	LIC	MACON, GA	BLANK0000075816	137.6
	WNCF	D31	DT	LIC	MONTGOMERY, AL	BLANK0000001319	292.7
	WSWG	D31	DT	LIC	VALDOSTA, GA	BLANK0000063722	306.8
	WKTC	D31	DT	LIC	SUMTER, SC	BLANK0000093003	331.4
	WBXX-TV	D31	DT	LIC	CROSSVILLE, TN	BLANK0000081641	255.8
	WSB-TV	D32	DT	LIC	ATLANTA, GA	BLANK0000104824	5.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
30835.6    5,947,220	29471.1    5,881,851	28442.7    5,813,086	24006.7    5,419,074	15.60    6.78

Undesired	Total IX	Unique IX, before	Unique IX, after
WSB-TV D31 LD LIC    4583.6	403,003	4436.0    394,012	
WDGA-CD D30 DC LIC    328.9	26,393	120.7    6,246	
WMGT-TV D30 DT LIC    4.0	51	0.0    0	
WNCF D31 DT LIC    229.5	8,313	143.1    3,948	
WSWG D31 DT LIC    12.0	1,462	3.0    77	
WKTC D31 DT LIC    65.8	2,777	11.0    196	
WBXX-TV D31 DT LIC    538.4	43,308	265.7    19,585	
WSB-TV D32 DT LIC    140.4	10,544	92.6    8,345	

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Interference to proposal scenario 4

**64.95% interference received**

	Call	Chan	Svc	Status	City, State	File Number	Distance
<b>Desired:</b>	WSB-TV	D31	LD	LIC	ATLANTA, GA	BLCDT20100429ADZ	
<b>Undesireds:</b>	WTBS-LD	D30	LD	LIC	ATLANTA, GA	BLDTL20110105ABR	53.1 km
	WBUD-LD	D30	LD	CP	BLAIRSVILLE, GA	BLANK0000071622	53.1
	WPCH-TV	D31	DT	LIC	ATLANTA, GA	BLANK0000081575	53.1
	WMUB-LD	D31	LD	CP	WARNER ROBINS, GA	BLANK0000054344	131.3

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W31DH-D	D31	LD	LIC	FRANKLIN, ETC, NC	BLDTT20090615AAP	160.6
W31AN-D	D31	LD	CP	MURPHY, NC	BLANK0000129948	130.0
W31DI-D	D31	LD	CP	SPRUCE PINE, NC	BLANK0000129695	265.2
W31DY-D	D31	LD	LIC	PICKENS, SC	BLANK0000119379	168.6
WBXX-TV	D31	DT	LIC	CROSSVILLE, TN	BLANK0000081641	247.3
WSB-TV	D32	LD	CP	ATLANTA, GA	BLANK0000054736	22.7
WSB-TV	D32	DT	LIC	ATLANTA, GA	BLANK0000104824	56.5

Service area	Terrain-limited		IX-free		Percent IX	
6884.8	1,497,302	6831.9	1,486,443	3035.3	520,958	55.57 64.95

Undesired	Total IX		Unique IX		Prcnt Unique IX	
WTBS-LD D30 LD LIC	1.0	232	0.0	0	0.00	0.00
WBUD-LD D30 LD CP	1.0	232	0.0	0	0.00	0.00
WPCH-TV D31 DT LIC	3755.6	954,083	3484.9	855,414	51.01	57.55
WMUB-LD D31 LD CP	11.9	1,553	1.0	0	0.01	0.00
W31DH-D D31 LD LIC	5.0	60	0.0	0	0.00	0.00
W31DY-D D31 LD LIC	1.0	176	0.0	0	0.00	0.00
WBXX-TV D31 DT LIC	5.9	615	1.0	0	0.01	0.00
WSB-TV D32 LD CP	159.3	26,316	26.2	6,805	0.38	0.46
WSB-TV D32 DT LIC	143.5	84,780	12.8	4,597	0.19	0.31

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