

tvstudy v2.2.2
Database: localhost, Study: WJRA-114, Model: Longley-Rice
Start: 2017.05.24 09:16:55

Study created: 2017.05.24 09:16:38

Study build station data: LMS TV 2017-05-03 (22)

Proposal: WRJA-TV D29 DT BL SUMTER, SC
File number: DTVBL61012
Facility ID: 61012
Station data: User record
Record ID: 445
Country: U.S.
Zone: II

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
WJBF	D28	DT	BL	AUGUSTA, GA	DTVBL27140	154.0 km
WMYV	D28	DT	BL	GREENSBORO, NC	DTVBL25544	224.5
WUND-TV	D29	DT	BL	EDENTON, NC	DTVBL69292	422.3
WSFX-TV	D29	DT	BL	WILMINGTON, NC	DTVBL72871	193.9
WXLV-TV	D29	DT	LIC	WINSTON-SALEM, NC	BLCDT20050624ABB	224.5
WKOP-TV	D29	DT	BL	KNOXVILLE, TN	DTVBL18267	409.9
WUNU	D30	DT	BL	LUMBERTON, NC	DTVBL69416	151.8
WYFF	D30	DT	BL	GREENVILLE, SC	DTVBL53905	254.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D29
Latitude: 33 52 52.00 N (NAD83)
Longitude: 80 16 14.00 W
Height AMSL: 395.9 m
HAAT: 354.6 m
Peak ERP: 114 kW
Antenna: Omnidirectional

40.2 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	114 kW	352.5 m	85.9 km
45.0	114	358.4	86.4
90.0	114	360.6	86.6
135.0	114	357.5	86.4
180.0	114	358.7	86.5
225.0	114	348.2	85.5
270.0	114	354.4	86.1
315.0	114	346.3	85.3

Proposal service area is within baseline plus 1.0%
Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 886.3 km

Distance to Mexican border: 1825.7 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 271.0 degrees Distance: 411.0 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 294.7 degrees Distance: 2312.2 km

Study cell size: 2.00 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 DTVBL27140 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WJBF	D28	DT	BL	AUGUSTA, GA	DTVBL27140			
Undesireds:	WRJA-TV	D29	DT	BL	SUMTER, SC	DTVBL61012	154.0 km		
	WRJA-TV	D29	DT	BL	SUMTER, SC	DTVBL61012	154.0		
	WELF-TV	D28	DT	BL	DALTON, GA	DTVBL60825	365.5		
	WMYV	D28	DT	BL	GREENSBORO, NC	DTVBL25544	329.6		
	WEMT	D28	DT	BL	GREENEVILLE, TN	DTVBL40761	339.2		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
40787.7	1,601,444	40443.6	1,588,816	40170.9	1,583,111	40158.9	1,582,900	0.03	0.01
Undesired				Total IX		Unique IX, before		Unique IX, after	
WRJA-TV D29 DT BL		168.8	1,420	160.7	1,360				
WRJA-TV D29 DT BL		180.8	1,631			172.8	1,571		
WELF-TV D28 DT BL		8.0	4	8.0	4	8.0	4		
WMYV D28 DT BL		103.9	4,341	95.9	4,281	95.9	4,281		

Interference to DTVBL27140 BL, scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance				
Desired:	WJBF	D28	DT	BL	AUGUSTA, GA	DTVBL27140					
Undesireds:	WRJA-TV	D29	DT	BL	SUMTER, SC	DTVBL61012	154.0 km				
	WRJA-TV	D29	DT	BL	SUMTER, SC	DTVBL61012	154.0				
	WELF-TV	D28	DT	BL	DALTON, GA	DTVBL60825	365.5				
	WMYV	D28	DT	BL	GREENSBORO, NC	DTVBL25544	329.6				
	WEMT	D28	DT	BL	GREENEVILLE, TN	DTVBL40761	339.2				
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX				
40787.7	1,601,444	40443.6	1,588,816	40170.9	1,583,111	40158.9	1,582,900	0.03	0.01		
Undesired				Total IX		Unique IX, before		Unique IX, after			
WRJA-TV D29 DT BL		168.8		1,420		160.7		1,360			
WRJA-TV D29 DT BL		180.8		1,631				172.8		1,571	
WELF-TV D28 DT BL		8.0		4		8.0		4		4	
WMYV D28 DT BL		103.9		4,341		95.9		4,281		95.9	4,281

Interference to DTVBL25544 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL69292 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL72871 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
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Desired:	WSFX-TV	D29	DT	BL	WILMINGTON, NC	DTVBL72871			
Undesireds:	WRJA-TV	D29	DT	BL	SUMTER, SC	DTVBL61012		193.9	km
	WRJA-TV	D29	DT	BL	SUMTER, SC	DTVBL61012		193.9	
	WUNM-TV	D28	DT	BL	JACKSONVILLE, NC	DTVBL69444		133.2	
	WUND-TV	D29	DT	BL	EDENTON, NC	DTVBL69292		258.4	
	WXLV-TV	D29	DT	LIC	WINSTON-SALEM, NC	BLCDT20050624ABB		243.7	
	WCVW	D29	DT	BL	RICHMOND, VA	DTVBL9989		379.5	
	WUNU	D30	DT	BL	LUMBERTON, NC	DTVBL69416		107.9	
	WHIG-CD	D30	DC	BL	ROCKY MOUNT, NC	DTVBL168101		200.2	

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
30178.0	928,247	30178.0	928,247	30066.7	922,092	30066.7	922,092	0.00	0.00

Undesired				Total IX	Unique IX, before		Unique IX, after		
WRJA-TV	D29	DT	BL	12.0	312	12.0	312		
WRJA-TV	D29	DT	BL	12.0	312			12.0	312
WUNM-TV	D28	DT	BL	23.8	2,195	0.0	0	0.0	0
WUND-TV	D29	DT	BL	23.8	2,195	0.0	0	0.0	0
WUNU	D30	DT	BL	75.5	3,648	75.5	3,648	75.5	3,648

Interference to BLCDT20050624ABB LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WXLV-TV	D29	DT	LIC	WINSTON-SALEM, NC	BLCDT20050624ABB	
Undesireds:	WRJA-TV	D29	DT	BL	SUMTER, SC	DTVBL61012	224.5 km
	WRJA-TV	D29	DT	BL	SUMTER, SC	DTVBL61012	224.5
	WMYV	D28	DT	BL	GREENSBORO, NC	DTVBL25544	0.0
	WEMT	D28	DT	BL	GREENEVILLE, TN	DTVBL40761	214.9
	WUND-TV	D29	DT	BL	EDENTON, NC	DTVBL69292	313.2
	WSFX-TV	D29	DT	BL	WILMINGTON, NC	DTVBL72871	243.7
	WKOP-TV	D29	DT	BL	KNOXVILLE, TN	DTVBL18267	372.2
	WCVW	D29	DT	BL	RICHMOND, VA	DTVBL9989	269.6
	WCHS-TV	D29	DT	BL	CHARLESTON, WV	DTVBL71280	337.1
	WUNU	D30	DT	BL	LUMBERTON, NC	DTVBL69416	138.3
	WHIG-CD	D30	DC	BL	ROCKY MOUNT, NC	DTVBL168101	184.1
	WDBJ	D30	DT	BL	ROANOKE, VA	DTVBL71329	150.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
39632.3	4,362,761	38821.8	4,333,737	37853.3	4,257,620	37829.4	4,255,961	0.06	0.04

Undesired		Total IX	Unique IX, before	Unique IX, after		
WRJA-TV D29 DT BL	278.1	14,208	186.9	10,996		
WRJA-TV D29 DT BL	310.0	16,608		210.7	12,655	
WUND-TV D29 DT BL	176.6	39,620	120.4	34,916	120.4	34,916
WSFX-TV D29 DT BL	335.1	15,712	120.4	7,616	120.4	7,616
WCVW D29 DT BL	71.9	2,858	47.9	1,423	47.9	1,423
WCHS-TV D29 DT BL	7.9	185	7.9	185	7.9	185
WUNU D30 DT BL	257.7	6,709	95.1	1,483	95.1	1,483
WDBJ D30 DT BL	147.4	11,040	143.4	11,015	143.4	11,015

Interference to DTVBL18267 BL, scenario 1

Proposal causes no interference.

Interference to DTVBL18267 BL, scenario 2

Proposal causes no interference.

Interference to DTVBL69416 BL, scenario 1

Proposal causes no interference.

Interference to DTVBL53905 BL, scenario 1

Proposal causes no interference.

Interference to DTVBL53905 BL, scenario 2

Proposal causes no interference.

Interference to proposal, scenario 1

1.22% interference

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WRJA-TV	D29	DT	BL	SUMTER, SC	DTVBL61012	
Undesireds:	WJBF	D28	DT	BL	AUGUSTA, GA	DTVBL27140	154.0 km
	WYGA-CD	D29	DC	APP	ATLANTA, GA	BLANK0000024452	377.9
	WSFX-TV	D29	DT	BL	WILMINGTON, NC	DTVBL72871	193.9
	WXLV-TV	D29	DT	LIC	WINSTON-SALEM, NC	BLCDT20050624ABB	224.5
	WUNU	D30	DT	BL	LUMBERTON, NC	DTVBL69416	151.8

Service area		Terrain-limited		IX-free		Percent IX	
23259.5	1,138,948	23155.8	1,132,862	22505.2	1,119,050	2.81	1.22

Undesired		Total IX		Unique IX		Prcnt Unique IX	
WJBF D28 DT BL		40.0	1,432	36.0	1,347	0.16	0.12
WSFX-TV D29 DT BL		140.4	1,899	128.4	1,633	0.55	0.14
WXLV-TV D29 DT LIC		486.1	10,832	470.2	10,481	2.03	0.93
WUNU D30 DT BL		4.0	70	0.0	0	0.00	0.00

Interference to proposal, scenario 2

1.22% interference

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WRJA-TV	D29	DT	BL	SUMTER, SC	DTVBL61012	
Undesireds:	WJBF	D28	DT	BL	AUGUSTA, GA	DTVBL27140	154.0 km
	WYGA-CD	D29	DC	BL	ATLANTA, GA	DTVBL168094	377.9
	WSFX-TV	D29	DT	BL	WILMINGTON, NC	DTVBL72871	193.9
	WXLV-TV	D29	DT	LIC	WINSTON-SALEM, NC	BLCDT20050624ABB	224.5
	WUNU	D30	DT	BL	LUMBERTON, NC	DTVBL69416	151.8

Service area		Terrain-limited		IX-free		Percent IX	
23259.5	1,138,948	23155.8	1,132,862	22505.2	1,119,050	2.81	1.22

Undesired		Total IX		Unique IX		Prcnt Unique IX	
WJBF D28 DT BL		40.0	1,432	36.0	1,347	0.16	0.12
WSFX-TV D29 DT BL		140.4	1,899	128.4	1,633	0.55	0.14
WXLV-TV D29 DT LIC		486.1	10,832	470.2	10,481	2.03	0.93
WUNU D30 DT BL		4.0	70	0.0	0	0.00	0.00