

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Soperton29d10kwTUA180T, Model: Longley-Rice

Start: 2021.06.01 08:19:33

Study created: 2021.06.01 08:19:33

Study build station data: LMS TV 2021-05-28

Proposal: W29EN-D D29 LD APP SOPERTON, GA

Facility ID: 186377

Station data: User record

Record ID: 2347

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	W23FE-D	N14+	TX	LIC	Savannah, GA	BLTT20040915ADW	25.7 km
No	WFDY-LD	D28	LD	CP	ALBANY, GA	BLANK0000073539	193.3
Yes	WJBF	D28	DT	LIC	AUGUSTA, GA	BLANK0000116201	121.3
No	W28EU-D	D28	LD	LIC	MACON, GA	BLANK0000112812	162.0
No	WJNI-LD	D28	LD	CP	NORTH CHARLESTON, SC	BLANK0000054748	221.4
No	WBRC	D29	DT	LIC	BIRMINGHAM, AL	BLANK0000081282	428.0
No	WQMK-LD	D29	LD	LIC	CUSSETA, AL	BLANK0000143981	274.1
No	W29FJ-D	D29	LD	CP	DOTHAN, AL	BLANK0000071839	322.5
No	W29FP-D	D29	LD	CP	MONTGOMERY, AL	BNPDTL20090825BZR	360.4
No	WFBD	D29	DT	LIC	DESTIN, FL	BLANK0000131443	438.8
No	WTBZ-LP	N29z	TX	LIC	GAINESVILLE, FL	BLTTTL20050907ABX	334.0
No	WGFL	D29	DT	LIC	HIGH SPRINGS, FL	BLANK0000100460	310.6
No	W29EK-D	D29	LD	CP	MADISON, FL	BNPDTL20100513ALL	241.9
No	W29FN-D	D29	LD	CP	PANAMA CITY, FL	BLANK0000116672	405.0
No	WQXT-CD	D29	DC	LIC	ST. AUGUSTINE, FL	BLANK0000098976	295.6
No	W29FO-D	D29	LD	CP	TALLAHASSEE, FL	BNPDTL20090825AMR	244.5
No	WFXL	D29	DT	APP	ALBANY, GA	BLANK0000127633	184.2
No	W48DU-D	D29	LD	CP	ALBANY, GA	BLANK0000052013	196.7

No	W29ED-D	D29	LD	CP	ASHBURN, GA	BNPDTL20100510ABD	141.3
No	W29DN-D	D29	LD	LIC	ATHENS, GA	BLDTL20140221ACE	169.9
No	W29DN-D	D29	LD	CP	ATHENS, GA	BPDTL20140228AEM	220.1
No	WYGA-CD	D29	DC	CP	ATLANTA, GA	BLANK0000127583	235.2
No	WYGA-CD	D29	DC	LIC	ATLANTA, GA	BLANK0000081313	235.2
No	WDZC-LD	D29	LD	CP	AUGUSTA, GA	BMPDTL20140528ACZ	101.7
No	W29FD-D	D29	LD	LIC	COLUMBUS, GA	BLANK0000095112	225.6
No	WJDO-LD	D29	LD	CP	MACON, GA	BLANK0000074456	115.9
No	W29FE-D	D29	LD	LIC	BAT CAVE, ETC., NC	BLANK0000073778	334.1
No	WNCB-LD	D29	LD	LIC	FAYETTEVILLE, NC	BLANK0000107110	429.5
No	W29DE-D	D29	LD	LIC	HAYESVILLE, NC	BLANK0000138231	317.2
No	WSFX-TV	D29	DT	LIC	WILMINGTON, NC	BLANK0000111706	434.4
No	WXLV-TV	D29	DT	LIC	WINSTON-SALEM, NC	BLCDT20050624ABB	450.1
No	W29EC-D	D29	LD	CP	FLORENCE, SC	BNPDTL20100409ABX	301.1
No	WAZS-LD	D29	LD	LIC	NORTH CHARLESTON, SC	BLDTL20100916ADH	221.4
No	WSQY-LD	D29	LD	LIC	SPARTANBURG, SC	BLANK0000136293	280.3
No	WRJA-TV	D29	DT	LIC	SUMTER, SC	BLANK0000081209	255.6
No	WRJA-TV	D29	DT	CP	SUMTER, SC	BLANK0000135314	255.6
No	WTCI	D29	DT	LIC	CHATTANOOGA, TN	BLANK0000001535	408.9
No	WKOP-TV	D29	DT	LIC	KNOXVILLE, TN	BLANK0000081273	422.7
No	WGBP-TV	D30	DT	LIC	OPELIKA, AL	BLCDT20140827ABB	225.6
No	WAGT-CD	D30	DC	LIC	AUGUSTA, GA	BLANK0000063630	121.3
No	WMGT-TV	D30	DT	LIC	MACON, GA	BLANK0000075816	115.9
No	W30CV-D	D30	DC	CP	HILTON HEAD ISLAND, SC	BLANK0000127486	145.9
No	W30CV-D	D30	DC	LIC	HILTON HEAD ISLAND, SC	BLDTL20110110AAR	155.8

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  
Mask: Stringent  
Latitude: 32 25 11.20 N (NAD83)  
Longitude: 82 23 27.00 W  
Height AMSL: 82.0 m  
HAAT: 0.0 m

Peak ERP: 10.0 kW  
Antenna: DIE-TUA (ID 120649) 180.0 deg  
Elev Pattn: Generic

50.2 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.037 kW	8.9 m	7.7 km
45.0	0.021	12.6	6.7
90.0	0.010	22.6	5.7
135.0	1.91	5.9	20.6
180.0	10.0	16.8	28.2
225.0	1.91	7.4	20.6
270.0	0.010	3.8	5.7
315.0	0.031	17.4	7.4

Database HAAT does not agree with computed HAAT  
Database HAAT: 0 m    Computed HAAT: 12 m

Distance to Canadian border: 1028.9 km

Distance to Mexican border: 1579.6 km

Conditions at FCC monitoring station: Powder Springs GA  
Bearing: 307.1 degrees    Distance: 269.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 299.2 degrees    Distance: 2209.8 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%

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Interference to BLANK0000116201 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WJBF	D28	DT	LIC	AUGUSTA, GA	BLANK0000116201	
Undesireds:	W29EN-D	D29	LD	APP	SOPERTON, GA		121.3 km
	WRDW-TV	D27	DT	CP	AUGUSTA, GA	BLANK0000127528	1.0
	WELF-TV	D28	DT	LIC	DALTON, GA	BLANK0000090766	365.5
	WMYV	D28	DT	LIC	GREENSBORO, NC	BLANK0000119626	329.6
	WHMC	D28	DT	LIC	CONWAY, SC	BLANK0000115805	259.2
	WRJA-TV	D29	DT	LIC	SUMTER, SC	BLANK0000081209	154.0
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	40794.6	1,598,713	40414.6	1,584,168	40075.4	1,566,695	40073.4 1,566,695 0.01 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
W29EN-D D29 LD APP		2.0		0		2.0	0
WRDW-TV D27 DT CP		12.0		160	12.0	160	12.0 160
WELF-TV D28 DT LIC		23.7		52	23.7	52	23.7 52
WMYV D28 DT LIC		89.4		5,241	38.3	1,371	38.3 1,371
WHMC D28 DT LIC		189.0		14,683	63.7	10,114	63.7 10,114
WRJA-TV D29 DT LIC		156.3		2,058	76.2	1,207	76.2 1,207

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Interference to BLANK0000116201 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WJBF	D28	DT	LIC	AUGUSTA, GA	BLANK0000116201	
Undesireds:	W29EN-D	D29	LD	APP	SOPERTON, GA		121.3 km
	WRDW-TV	D27	DT	BL	AUGUSTA, GA	DTVBL73937	1.0
	WELF-TV	D28	DT	LIC	DALTON, GA	BLANK0000090766	365.5
	WMYV	D28	DT	LIC	GREENSBORO, NC	BLANK0000119626	329.6
	WHMC	D28	DT	LIC	CONWAY, SC	BLANK0000115805	259.2
	WRJA-TV	D29	DT	LIC	SUMTER, SC	BLANK0000081209	154.0
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX

40794.6	1,598,713	40414.6	1,584,168	40076.4	1,566,695	40074.4	1,566,695	0.01	0.00
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Undesired		Total IX	Unique IX, before	Unique IX, after
W29EN-D D29 LD APP	2.0	0		2.0 0
WRDW-TV D27 DT BL	11.0	160	11.0 160	11.0 160
WELF-TV D28 DT LIC	23.7	52	23.7 52	23.7 52
WMYV D28 DT LIC	89.4	5,241	38.3 1,371	38.3 1,371
WHMC D28 DT LIC	189.0	14,683	63.7 10,114	63.7 10,114
WRJA-TV D29 DT LIC	156.3	2,058	76.2 1,207	76.2 1,207

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Interference to BLANK0000116201 LIC scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WJBF	D28	DT	LIC	AUGUSTA, GA	BLANK0000116201	
Undesireds:	W29EN-D	D29	LD	APP	SOPERTON, GA		121.3 km
	WRDW-TV	D27	DT	CP	AUGUSTA, GA	BLANK0000127528	1.0
	WELF-TV	D28	DT	LIC	DALTON, GA	BLANK0000090766	365.5
	WMYV	D28	DT	LIC	GREENSBORO, NC	BLANK0000119626	329.6
	WHMC	D28	DT	LIC	CONWAY, SC	BLANK0000115805	259.2
	WRJA-TV	D29	DT	CP	SUMTER, SC	BLANK0000135314	154.0

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
40794.6	1,598,713	40414.6	1,584,168	40017.0	1,566,101	40015.0	1,566,101	0.01	0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
W29EN-D D29 LD APP	2.0	0		2.0 0
WRDW-TV D27 DT CP	12.0	160	12.0 160	12.0 160
WELF-TV D28 DT LIC	23.7	52	23.7 52	23.7 52
WMYV D28 DT LIC	89.4	5,241	38.3 1,371	38.3 1,371
WHMC D28 DT LIC	189.0	14,683	59.8 10,097	59.8 10,097
WRJA-TV D29 DT CP	218.6	2,669	134.6 1,801	134.6 1,801

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Interference to BLANK0000116201 LIC scenario 4

Call	Chan	Svc	Status	City, State	File Number	Distance
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Desired: WJBF D28 DT LIC AUGUSTA, GA BLANK0000116201

Undesireds:	W29EN-D	D29	LD	APP	SOPERTON, GA		121.3 km
	WRDW-TV	D27	DT	BL	AUGUSTA, GA	DTVBL73937	1.0
	WELF-TV	D28	DT	LIC	DALTON, GA	BLANK0000090766	365.5
	WMYV	D28	DT	LIC	GREENSBORO, NC	BLANK0000119626	329.6
	WHMC	D28	DT	LIC	CONWAY, SC	BLANK0000115805	259.2
	WRJA-TV	D29	DT	CP	SUMTER, SC	BLANK0000135314	154.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
40794.6 1,598,713	40414.6 1,584,168	40018.0 1,566,101	40016.0 1,566,101	0.01 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W29EN-D D29 LD APP	2.0 0	2.0 0	
WRDW-TV D27 DT BL	11.0 160	11.0 160	
WELF-TV D28 DT LIC	23.7 52	23.7 52	
WMYV D28 DT LIC	89.4 5,241	38.3 1,371	
WHMC D28 DT LIC	189.0 14,683	59.8 10,097	
WRJA-TV D29 DT CP	218.6 2,669	134.6 1,801	

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Interference to proposal scenario 1

\*\*MX: 5.51% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W29EN-D	D29	LD	APP	SOPERTON, GA		
Undesireds:	WFXL	D29	DT	APP	ALBANY, GA	BLANK0000127633	184.2 km
	W29DN-D	D29	LD	LIC	ATHENS, GA	BLDTL20140221ACE	169.9
	WYGA-CD	D29	DC	CP	ATLANTA, GA	BLANK0000127583	235.2
	WJDO-LD	D29	LD	CP	MACON, GA	BLANK0000074456	115.9
	WRJA-TV	D29	DT	LIC	SUMTER, SC	BLANK0000081209	255.6

Service area	Terrain-limited	IX-free	Percent IX
735.0 23,214	720.9 22,443	698.8 21,207	3.07 5.51

Undesired	Total IX	Unique IX	Prcnt Unique IX
WFXL D29 DT APP	22.1 1,236	20.1 1,213	2.79 5.40

W29DN-D D29 LD LIC	1.0	0	0.0	0	0.00	0.00
WJDO-LD D29 LD CP	2.0	23	0.0	0	0.00	0.00

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Interference to proposal scenario 2

\*\*MX: 5.51% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W29EN-D	D29	LD	APP	SOPERTON, GA		
Undesireds:	WFXL	D29	DT	APP	ALBANY, GA	BLANK00000127633	184.2 km
	WYGA-CD	D29	DC	CP	ATLANTA, GA	BLANK00000127583	235.2
	WJDO-LD	D29	LD	CP	MACON, GA	BLANK00000074456	115.9
	WRJA-TV	D29	DT	LIC	SUMTER, SC	BLANK00000081209	255.6

Service area	Terrain-limited	IX-free	Percent IX
735.0      23,214	720.9      22,443	698.8      21,207	3.07      5.51

Undesired	Total IX	Unique IX	Prcnt Unique IX
WFXL D29 DT APP      22.1	1,236	20.1	1,213      2.79      5.40
WJDO-LD D29 LD CP      2.0	23	0.0	0      0.00      0.00