

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: aAug16d15kwDLPB340IncF, Model: Longley-Rice

Start: 2023.07.25 13:57:30

Study created: 2023.07.25 13:57:30

Study build station data: LMS TV 2023-07-24

Proposal: W16EE-D D16 LD APP AUGUSTA, GA

Facility ID: 181854

Station data: User record

Record ID: 1650

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	WPHJ-LD	D15+	LD	LIC	BAXLEY, GA	BLANK0000187241	171.2 km
No	WGGD-LD	D15	LD	LIC	GAINESVILLE, GA	BLDTL20121213AIK	194.7
No	W15EB-D	D15	DC	LIC	CHARLOTTE, NC	BLANK0000188950	212.9
No	WDKT-LD	D15	LD	LIC	HENDERSONVILLE, NC	BLANK0000089000	164.7
Yes	WLTX	D15	DT	LIC	COLUMBIA, SC	BLANK0000082085	128.7
No	W16DV-D	D16	LD	LIC	Alexander City, AL	BLANK0000190001	340.1
No	WALE-LD	D16	LD	LIC	MONTGOMERY, AL	BLANK0000152783	424.0
No	WCJB-TV	D16	DT	LIC	GAINESVILLE, FL	BLCDT20071119AJB	443.1
No	WJHG-TV	D16	DT	LIC	PANAMA CITY, FL	BLANK0000068516	476.9
No	DDW38EM-D	D16	LD	APP	ALBANY, GA	BLANK0000052733	304.3
Yes	W16EL-D	D16	LD	LIC	AUGUSTA, GA	BLANK0000194477	21.7
Yes	W16EL-D	D16	LD	CP	AUGUSTA, GA	BLANK0000217786	20.0
No	WRDP-LD	D16	LD	LIC	COLUMBUS, GA	BLANK0000178766	296.4
No	WRDP-LD	D16	LD	CP	COLUMBUS, GA	BLANK0000185006	295.0
No	W16EK-D	D16	LD	LIC	Douglas, GA	BLANK0000217699	255.9
No	DDW26DS-D	D16	LD	APP	LA GRANGE, GA	BLANK0000053055	300.1
No	WDMA-CD	D16	DC	LIC	MACON, GA	BLANK0000074865	175.4
Yes	WPXA-TV	D16	DT	LIC	ROME, GA	BLANK0000081827	263.6

Yes	WSAV-TV	D16	DT	LIC	SAVANNAH, GA	BLANK0000055021	172.4
No	WPXU-TV	D16	DT	LIC	JACKSONVILLE, NC	BLANK0000129487	426.6
No	WDRH-LD	D16-	LD	LIC	Raleigh, NC	BLANK0000193085	393.0
Yes	W16DZ-D	D16	LD	LIC	TRYON, NC	BLANK0000121648	197.4
No	WXII-TV	D16	DT	LIC	WINSTON-SALEM, NC	BLANK0000157823	350.2
Yes	WJPM-TV	D16	DT	LIC	FLORENCE, SC	BLANK0000138174	222.1
No	WWYA-LD	D16	LD	LIC	HONEA PATH, SC	BLANK0000093423	164.7
No	WAPK-CD	D16	DC	LIC	BRISTOL VA/KINGSPORT, TN	BLANK0000070481	325.6
No	WEZK-LD	D16z	LD	LIC	KNOXVILLE, TN	BLANK0000100286	331.4
No	WGBP-TV	D17	DD	APP	OPELIKA, AL	BLANK0000194947	284.7
No	WGBP-TV	D17	DD	LIC	OPELIKA, AL	BLANK0000129713	284.7
No	WSB-TV	D17	LD	LIC	ATLANTA, GA	BLANK0000197030	174.9
No	WGAT-LD	D17	LD	LIC	AUGUSTA, GA	BLANK0000214228	15.3
No	WCEE-LD	D17	LD	LIC	CHARLOTTE, NC	BLANK0000180361	226.6
No	WTAT-TV	D17	DT	LIC	CHARLESTON, SC	BLANK0000184941	219.9
No	WHNS	D17	DT	LIC	GREENVILLE, SC	BLANK0000190316	197.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D16
Mask: Full Service
Latitude: 33 30 21.00 N (NAD83)
Longitude: 81 57 43.00 W
Height AMSL: 268.6 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: DIE-DLP12-B (ID 1002083) 340.0 deg
Elev Pattnr: Generic

48.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	14.4 kW	132.6 m	47.7 km
45.0	9.67	159.8	47.6
90.0	6.01	181.4	46.5

135.0	6.73	183.7	47.2
180.0	6.90	229.8	49.9
225.0	5.95	191.3	47.0
270.0	9.08	175.6	48.3
315.0	14.0	183.8	50.9

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 180 m

Distance to Canadian border: 909.0 km

Distance to Mexican border: 1666.4 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 279.6 degrees Distance: 258.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 296.3 degrees Distance: 2189.0 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

Study cell size: 1.00 km
Profile point spacing: 0.10 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Interference to BLANK0000082085 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WLTX	D15	DT	LIC	COLUMBIA, SC	BLANK0000082085	

Undesireds:	W16EE-D	D16	LD	APP	AUGUSTA, GA		128.7 km
	W15EB-D	D15	DC	LIC	CHARLOTTE, NC	BLANK0000188950	122.9
	WRAZ	D15	DT	LIC	RALEIGH, NC	BLANK0000143683	268.9
	WJPM-TV	D16	DT	LIC	FLORENCE, SC	BLANK0000138174	96.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
34749.0	1,582,666	34636.0	1,580,796	33496.0	1,513,991	33480.2	1,512,907	0.05 0.07

Undesired		Total IX	Unique IX, before	Unique IX, after
W16EE-D D16 LD APP	15.9	1,084		15.9 1,084
W15EB-D D15 DC LIC	354.5	14,857	297.5 10,889	297.5 10,889
WRAZ D15 DT LIC	564.6	12,611	448.2 7,974	448.2 7,974
WJPM-TV D16 DT LIC	337.3	43,974	277.9 43,305	277.9 43,305

Interference to BLANK0000194477 LIC scenario 1

**IX: 8.67% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W16EL-D	D16	LD	LIC	AUGUSTA, GA	BLANK0000194477	
Undesireds:	W16EE-D	D16	LD	APP	AUGUSTA, GA		21.7 km
	WRDP-LD	D16	LD	LIC	COLUMBUS, GA	BLANK0000178766	278.2
	WDMA-CD	D16	DC	LIC	MACON, GA	BLANK0000074865	156.9
	WPXA-TV	D16	DT	LIC	ROME, GA	BLANK0000081827	258.8
	WSAV-TV	D16	DT	LIC	SAVANNAH, GA	BLANK0000055021	161.6
	WWYA-LD	D16	LD	LIC	HONEA PATH, SC	BLANK0000093423	179.4
	WGAT-LD	D17	LD	LIC	AUGUSTA, GA	BLANK0000214228	24.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
652.3	273,784	544.1	216,010	340.6	141,898	295.9	129,602	13.12 8.67

Undesired		Total IX	Unique IX, before	Unique IX, after
W16EE-D D16 LD APP	234.3	79,868		44.7 12,296
WDMA-CD D16 DC LIC	6.9	888	0.0 0	0.0 0
WPXA-TV D16 DT LIC	7.9	1,236	0.0 0	0.0 0
WSAV-TV D16 DT LIC	168.8	64,775	53.6 23,153	10.9 4,832

WWYA-LD D16 LD LIC	3.0	367	0.0	0	0.0	0
WGAT-LD D17 LD LIC	146.9	50,101	34.8	9,337	1.0	72

Interference to BLANK0000217786 CP scenario 1
**IX: 63.81% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W16EL-D	D16	LD	CP	AUGUSTA, GA	BLANK0000217786	
Undesireds:	W16EE-D	D16	LD	APP	AUGUSTA, GA		20.0 km
	WRDP-LD	D16	LD	LIC	COLUMBUS, GA	BLANK0000178766	316.2
	WPXA-TV	D16	DT	LIC	ROME, GA	BLANK0000081827	276.0
	WSAV-TV	D16	DT	LIC	SAVANNAH, GA	BLANK0000055021	177.4
	WJPM-TV	D16	DT	LIC	FLORENCE, SC	BLANK0000138174	202.3
	WWYA-LD	D16	LD	LIC	HONEA PATH, SC	BLANK0000093423	159.6
	WGAT-LD	D17	LD	LIC	AUGUSTA, GA	BLANK0000214228	22.2

	Service area	Terrain-limited		IX-free, before		IX-free, after	
	2613.5	296,199	2549.0	289,204	2337.7	253,590	1036.5
							91,769
							55.66
							63.81

Undesired				Total IX	Unique IX, before	Unique IX, after	
W16EE-D D16 LD APP		1485.8		196,459		1301.3	161,821
WPXA-TV D16 DT LIC		5.0		183	1.0	1.0	6
WSAV-TV D16 DT LIC		131.9		26,483	62.4	8.9	70
WJPM-TV D16 DT LIC		5.0		952	3.0	3.0	172
WWYA-LD D16 LD LIC		2.0		0	1.0	1.0	0
WGAT-LD D17 LD LIC		143.0		27,601	71.5	10.9	666

Interference to BLANK0000081827 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WPXA-TV	D16	DT	LIC	ROME, GA	BLANK0000081827	
Undesireds:	W16EE-D	D16	LD	APP	AUGUSTA, GA		263.6 km
	WAFF	D15	DT	LIC	HUNTSVILLE, AL	BLANK0000111344	178.4
	WTNZ	D15	DT	LIC	KNOXVILLE, TN	BLANK0000081278	197.3

W16DS-D	D16	DC	LIC	BIRMINGHAM, AL	BLANK0000080930	219.6
WDMA-CD	D16	DC	LIC	MACON, GA	BLANK0000074865	187.0
WSAV-TV	D16	DT	LIC	SAVANNAH, GA	BLANK0000055021	399.8
WLOV-TV	D16	DT	LIC	WEST POINT, MS	BLCDT20070405ABC	412.8
WHTN	D16	DT	LIC	MURFREESBORO, TN	BLANK0000100650	254.7
WAAY-TV	D17	DT	LIC	HUNTSVILLE, AL	BLANK0000163425	178.9
WGBP-TV	D17	DD	APP	OPELIKA, AL	BLANK0000194947	200.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
41232.5	6,586,413	38353.1	6,431,555	37333.3	6,350,822	37324.3	6,350,590	0.02	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
W16EE-D	D16 LD APP	16.0	406			9.0	232
WAFF	D15 DT LIC	298.3	10,399	7.0	342	7.0	342
WTNZ	D15 DT LIC	6.0	0	2.0	0	2.0	0
W16DS-D	D16 DC LIC	16.9	447	10.9	304	10.9	304
WDMA-CD	D16 DC LIC	188.7	16,616	174.8	16,253	168.8	16,088
WSAV-TV	D16 DT LIC	17.8	282	6.9	139	6.9	139
WLOV-TV	D16 DT LIC	4.0	67	0.0	0	0.0	0
WHTN	D16 DT LIC	599.9	30,314	288.6	19,276	288.6	19,276
WAAY-TV	D17 DT LIC	350.6	12,845	29.2	1,435	29.2	1,435
WGBP-TV	D17 DD APP	145.1	30,579	142.1	30,359	142.1	30,359

Interference to BLANK0000081827 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WPXA-TV	D16	DT	LIC	ROME, GA	BLANK0000081827	
Undesireds:	W16EE-D	D16	LD	APP	AUGUSTA, GA		263.6 km
	WAFF	D15	DT	LIC	HUNTSVILLE, AL	BLANK0000111344	178.4
	WTNZ	D15	DT	LIC	KNOXVILLE, TN	BLANK0000081278	197.3
	W16DS-D	D16	DC	LIC	BIRMINGHAM, AL	BLANK0000080930	219.6
	WDMA-CD	D16	DC	LIC	MACON, GA	BLANK0000074865	187.0
	WSAV-TV	D16	DT	LIC	SAVANNAH, GA	BLANK0000055021	399.8
	WLOV-TV	D16	DT	LIC	WEST POINT, MS	BLCDT20070405ABC	412.8
	WHTN	D16	DT	LIC	MURFREESBORO, TN	BLANK0000100650	254.7
	WAAY-TV	D17	DT	LIC	HUNTSVILLE, AL	BLANK0000163425	178.9

WGBP-TV D17 DD LIC OPELIKA, AL BLANK0000129713 200.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
41232.5 6,586,413	38353.1 6,431,555	37333.3 6,350,822	37324.3 6,350,590	0.02 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W16EE-D D16 LD APP 16.0	406	9.0 232	
WAFF D15 DT LIC 298.3	10,399	7.0 342	
WTNZ D15 DT LIC 6.0	0	2.0 0	
W16DS-D D16 DC LIC 16.9	447	10.9 304	
WDMA-CD D16 DC LIC 188.7	16,616	174.8 16,253	
WSAV-TV D16 DT LIC 17.8	282	6.9 139	
WLOV-TV D16 DT LIC 4.0	67	0.0 0	
WHTN D16 DT LIC 599.9	30,314	288.6 19,276	
WAAY-TV D17 DT LIC 350.6	12,845	29.2 1,435	
WGBP-TV D17 DD LIC 145.1	30,579	142.1 30,359	

Interference to BLANK0000055021 LIC scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: WSAV-TV	D16	DT	LIC	SAVANNAH, GA	BLANK0000055021	
Undesireds: W16EE-D	D16	LD	APP	AUGUSTA, GA		172.4 km
WCJB-TV	D16	DT	LIC	GAINESVILLE, FL	BLCDDT20071119AJB	299.4
WRCF-CD	D16	DC	LIC	ORLANDO, FL	BLANK0000099575	386.5
WDMA-CD	D16	DC	LIC	MACON, GA	BLANK0000074865	239.0
WPXA-TV	D16	DT	LIC	ROME, GA	BLANK0000081827	399.8
WJPM-TV	D16	DT	LIC	FLORENCE, SC	BLANK0000138174	286.2
WTAT-TV	D17	DT	LIC	CHARLESTON, SC	BLANK0000184941	179.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
39843.8 1,000,457	39812.7 1,000,370	39631.4 998,183	39224.8 993,938	1.03 0.43

Undesired	Total IX	Unique IX, before	Unique IX, after
W16EE-D D16 LD APP 414.6	4,263	406.6 4,245	
WCJB-TV D16 DT LIC 3.0	14	2.0 0	
WDMA-CD D16 DC LIC 4.0	34	2.0 0	

WPXA-TV D16 DT LIC	13.0	55	12.0	35	4.0	17
WJPM-TV D16 DT LIC	1.0	0	1.0	0	1.0	0
WTAT-TV D17 DT LIC	162.3	2,118	162.3	2,118	162.3	2,118

Interference to BLANK0000121648 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W16DZ-D	D16	LD	LIC	TRYON, NC	BLANK0000121648	
Undesireds:	W16EE-D	D16	LD	APP	AUGUSTA, GA		197.4 km
	W15CW-D	D15	LD	LIC	FRANKLIN, NC	BLDTT20111227ABE	121.8
	WDKT-LD	D15	LD	LIC	HENDERSONVILLE, NC	BLANK0000089000	39.3
	W16EL-D	D16	LD	LIC	AUGUSTA, GA	BLANK0000194477	213.7
	WPXA-TV	D16	DT	LIC	ROME, GA	BLANK0000081827	243.7
	WXII-TV	D16	DT	LIC	WINSTON-SALEM, NC	BLANK0000157823	208.8
	WWYA-LD	D16	LD	LIC	HONEA PATH, SC	BLANK0000093423	39.3
	WHNS	D17	DT	LIC	GREENVILLE, SC	BLANK0000190316	40.9
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
5183.1	509,038	4595.6	455,213	3756.0	281,986	3756.0 281,986	0.00 0.00
Undesired				Total IX	Unique IX, before		Unique IX, after
W16EE-D D16 LD APP	1.0	161	0.0	0	0.0	0	
WDKT-LD D15 LD LIC	6.0	505	0.0	0	0.0	0	
WPXA-TV D16 DT LIC	1.0	26	0.0	0	0.0	0	
WXII-TV D16 DT LIC	15.0	500	9.0	207	9.0	207	
WWYA-LD D16 LD LIC	524.9	142,780	456.9	133,582	456.9	133,582	
WHNS D17 DT LIC	371.7	39,246	302.8	30,202	301.8	30,041	

Interference to BLANK0000138174 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WJPM-TV	D16	DT	LIC	FLORENCE, SC	BLANK0000138174	
Undesireds:	W16EE-D	D16	LD	APP	AUGUSTA, GA		222.1 km
	WLTX	D15	DT	LIC	COLUMBIA, SC	BLANK0000082085	96.0

WSAV-TV	D16	DT	LIC	SAVANNAH, GA	BLANK0000055021	286.2
WPXU-TV	D16	DT	LIC	JACKSONVILLE, NC	BLANK00000129487	208.2
WXII-TV	D16	DT	LIC	WINSTON-SALEM, NC	BLANK00000157823	239.8
WTAT-TV	D17	DT	LIC	CHARLESTON, SC	BLANK00000184941	149.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
17230.6 621,726	17206.6 621,396	16949.1 611,624	16949.1 611,624	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W16EE-D D16 LD APP 3.0 90			0.0 0
WLTX D15 DT LIC 127.3 3,674		53.1 1,887	53.1 1,887
WSAV-TV D16 DT LIC 41.1 979		0.0 0	0.0 0
WPXU-TV D16 DT LIC 38.1 1,319		1.0 0	1.0 0
WXII-TV D16 DT LIC 172.5 7,273		121.3 6,047	121.3 6,047
WTAT-TV D17 DT LIC 5.9 4		5.9 4	5.9 4

Interference to proposal scenario 1
2.43% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W16EE-D	D16	LD	APP	AUGUSTA, GA		
Undesireds:	W16EL-D	D16	LD	LIC	AUGUSTA, GA	BLANK00000194477	21.7 km
	WRDP-LD	D16	LD	LIC	COLUMBUS, GA	BLANK00000178766	296.4
	WPXA-TV	D16	DT	LIC	ROME, GA	BLANK00000081827	263.6
	WSAV-TV	D16	DT	LIC	SAVANNAH, GA	BLANK00000055021	172.4
	WWYA-LD	D16	LD	LIC	HONEA PATH, SC	BLANK00000093423	164.7
	WGAT-LD	D17	LD	LIC	AUGUSTA, GA	BLANK00000214228	15.3

Service area	Terrain-limited	IX-free	Percent IX
7329.0 534,608	7291.3 534,463	6739.6 521,471	7.57 2.43

Undesired	Total IX	Unique IX	Prcnt Unique IX
W16EL-D D16 LD LIC 25.8 7,790		22.9 7,746	0.31 1.45
WPXA-TV D16 DT LIC 4.0 0		2.0 0	0.03 0.00
WSAV-TV D16 DT LIC 258.6 1,906		186.1 1,484	2.55 0.28
WWYA-LD D16 LD LIC 13.8 19		4.9 13	0.07 0.00

WGAT-LD D17 LD LIC	326.0	3,743	260.4	3,283	3.57	0.61
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Interference to proposal scenario 2
11.16% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W16EE-D	D16	LD	APP	AUGUSTA, GA		
Undesireds:	W16EL-D	D16	LD	CP	AUGUSTA, GA	BLANK00000217786	20.0 km
	WRDP-LD	D16	LD	LIC	COLUMBUS, GA	BLANK00000178766	296.4
	WPXA-TV	D16	DT	LIC	ROME, GA	BLANK00000081827	263.6
	WSAV-TV	D16	DT	LIC	SAVANNAH, GA	BLANK00000055021	172.4
	WWYA-LD	D16	LD	LIC	HONEA PATH, SC	BLANK00000093423	164.7
	WGAT-LD	D17	LD	LIC	AUGUSTA, GA	BLANK00000214228	15.3

Service area	Terrain-limited	IX-free	Percent IX
7329.0	534,608	474,799	23.36 11.16

Undesired	Total IX	Unique IX	Prcnt Unique IX
W16EL-D D16 LD CP	1469.0 56,542	1174.4 54,418	16.11 10.18
WPXA-TV D16 DT LIC	4.0 0	1.0 0	0.01 0.00
WSAV-TV D16 DT LIC	258.6 1,906	82.2 1,091	1.13 0.20
WWYA-LD D16 LD LIC	13.8 19	4.0 0	0.05 0.00
WGAT-LD D17 LD LIC	326.0 3,743	114.4 1,843	1.57 0.34