

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

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: WMEL_Ch17_Omni_Less_Pre, Model: Longley-Rice
Start: 2019.04.17 18:29:42

Study created: 2019.04.17 17:27:12

Study build station data: LMS TV 2019-04-16

Proposal: WMEL-LD D17 LD APP AUGUSTA, GA
File number: WMEL_Ch17_Omni
Facility ID: 181848
Station data: User record
Record ID: 830
Country: U.S.

Build options:
Protect pre-transition records not on baseline channel
Protect baseline records from LPTV

Search options:
Baseline record excluded if station has CP

Individual records excluded:
3369 WAGT-CD D16 DC BL AUGUSTA, GA DTVBL3369

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WDMA-CD	D16	DC	CP	MACON, GA	BLANK0000034487	147.5 km
No	WGXA	D16	DT	LIC	MACON, GA	BLCDT20070501AAI	142.0
No	WPXA-TV	D16	DT	CP	ROME, GA	BLANK0000034338	252.7
No	WSAV-TV	D16	DT	LIC	SAVANNAH, GA	BLANK0000055021	162.5
No	WKDC-LD	D16	LD	CP	COLUMBIA, SC	BLANK0000054557	138.2
No	WJPM-TV	D16	DT	CP	FLORENCE, SC	BLANK0000025028	250.4
No	WGGG-TV	D16	DT	LIC	GREENVILLE, SC	BLCDT20130925AJI	182.1
No	WMKH-LD	D16	LD	LIC	HILTON HEAD ISLAND, SC	BLDTL20121019ADL	169.9
No	W28DB-D	D16	LD	CP	HONEA PATH, SC	BLANK0000067625	182.1
No	WUOA-LD	D17	LD	LIC	BIRMINGHAM, AL	BLANK0000011374	428.7
No	WAAY-TV	D17	DT	LIC	HUNTSVILLE, AL	BLANK0000071637	430.1
No	WAAY-TV	D17	DT	CP	HUNTSVILLE, AL	BLANK0000027632	430.1
No	WALE-LD	D17	LD	LIC	MONTGOMERY, AL	BLANK0000001706	397.7
No	WLGA	D17	DD	CP	OPELIKA, AL	BLANK0000030376	257.2
No	WODH-LD	D17	LD	LIC	GAINESVILLE, FL	BLANK0000004250	351.6
No	WFXU	D17	DT	CP	LIVE OAK, FL	BLANK0000026640	316.7
No	WFXU	D17	DT	APP	LIVE OAK, FL	BLANK0000034412	346.2
No	NEW	D17	LD	APP	TALLAHASSEE, FL	BNPDTL20090825BLS	337.3
No	WDRJ-LD	D17	LD	CP	ALBANY, GA	BLANK0000013248	276.1
No	WUVG-DT	D17	LD	LIC	ATHENS, GA	BLCDT20091210ABP	178.7
No	WRDP-LD	D17	LD	CP	COLUMBUS, GA	BLANK0000013699	266.7
No	WDYI-LD	D17	LD	LIC	MACON, GA	BLANK0000010902	145.8
No	W17DW-D	D17	LD	CP	SOPERTON, GA	BNPDTL20100510AHD	101.2
No	W17DQ-D	D17	LD	CP	WAYCROSS, GA	BDCCDTL20120207ANV	262.2
No	WCEE-LD	D17	LD	CP	CHARLOTTE, NC	BLANK0000054738	256.0
No	WNCN	D17	DT	LIC	GOLDSBORO, NC	BMLCDT20140925AEP	426.1
No	W24AY-D	D17	LD	CP	LILESVILLE/WADESBORO, NC	BLANK0000054532	280.3
No	WUNE-TV	D17	DT	LIC	LINVILLE, NC	BLEDT20091118ADR	307.4
No	WRAL-TV	D17	DT	CP	RALEIGH, NC	BLANK0000034032	426.1
No	W17DS-D	D17	LD	CP	SYLVA, ETC, NC	BDCCDTT20120615ADA	253.2
No	W17DO-D	D17	LD	CP	WILMINGTON, NC	BNPDTL20100422AAG	404.2
No	WTAT-TV	D17	DT	CP	CHARLESTON, SC	BLANK0000034503	236.0
Yes	WLTX	D17	DT	LIC	COLUMBIA, SC	BLCDT20050701AAC	158.2
Yes	WHNS	D17	DT	CP	GREENVILLE, SC	BLANK0000024830	212.6
No	WKOP-TV	D17	DT	LIC	KNOXVILLE, TN	BLEDT20040405ACC	339.1
No	WFXR	D17	DT	LIC	ROANOKE, VA	BLCDT20090609ABS	469.6
No	WVVA	D17	DT	CP	BLUEFIELD, WV	BLANK0000027470	447.7
No	WUVG-DT	D18	DT	CP	ATHENS, GA	BLANK0000066944	206.4
Yes	WIEF-LD	D18	LD	CP	ATHENS, GA	BLANK0000051597	34.9
No	WPGA-LP	D18-	LD	CP	MACON, GA	BLANK0000053605	141.8
No	WUET-LD	D18	LD	CP	SWAINSBORO, GA	BLANK0000052865	160.2

No	WCCB	D18	DT	CP	CHARLOTTE, NC	BLANK0000067979	255.1
No	WLCN-CD	D18	DC	LIC	CHARLESTON, SC	BLDTA20090616AAY	195.1
No	WNEH	D18	DT	LIC	GREENWOOD, SC	BLEDT20090622ADL	117.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

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Channel: D17
Mask: Full Service
Latitude: 33 18 46.00 N (NAD83)
Longitude: 82 11 29.00 W
Height AMSL: 240.5 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: Omnidirectional
Elev Pattn: Generic

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49.0 dBu contour:
Azimuth      ERP      HAAT      Distance
  0.0 deg    15.0 kW   104.3 m   45.5 km
  45.0         15.0    136.7    48.1
  90.0         15.0    134.0    47.9
 135.0         15.0    149.4    49.0
 180.0         15.0    146.9    48.8
 225.0         15.0    129.3    47.6
 270.0         15.0    133.0    47.8
 315.0         15.0    110.0    46.0

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Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 130 m

Distance to Canadian border: 929.8 km

Distance to Mexican border: 1637.8 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 285.3 degrees Distance: 242.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 296.9 degrees Distance: 2179.5 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 BLCDT20050701AAC LIC scenario 1
**IX: 3.42% interference caused

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WLTX	D17	DT	LIC	COLUMBIA, SC	BLCDT20050701AAC	
Undesireds:	WMEL-LD	D17	LD	APP	AUGUSTA, GA	WMEL_Ch17_Omni	158.2 km
	WPDE-TV	D16	DT	LIC	FLORENCE, SC	BLCDT20080815ABI	135.1
	WGGG-TV	D16	DT	LIC	GREENVILLE, SC	BLCDT20130925AJI	177.6
	WNCN	D17	DT	LIC	GOLDSBORO, NC	BMLCDT20140925AEP	268.9
	WUNE-TV	D17	DT	LIC	LINVILLE, NC	BLEDT20091118ADR	239.6
	WFXR	D17	DT	LIC	ROANOKE, VA	BLCDT20090609ABS	348.9
	WLCN-CD	D18	DC	LIC	CHARLESTON, SC	BLDTA20090616AAY	133.3
	WNEH	D18	DT	LIC	GREENWOOD, SC	BLEDT20090622ADL	132.6
	WFXB	D18	DT	LIC	MYRTLE BEACH, SC	BLCDT20070205ACJ	145.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
35147.6	1,598,318	35005.8	1,592,843	33508.3	1,508,378	32624.7	1,456,794	2.64	3.42

Undesired		Total IX		Unique IX, before		Unique IX, after	
WMEL-LD D17 LD APP	917.6	52,275				883.7	51,584
WPDE-TV D16 DT LIC	232.1	8,887	63.3	1,372		63.3	1,372
WGGG-TV D16 DT LIC	5.0	4	1.0	4		1.0	4
WNCN D17 DT LIC	343.9	7,168	138.4	2,052		137.4	2,052
WUNE-TV D17 DT LIC	676.3	25,321	516.9	21,019		507.0	21,006
WFXR D17 DT LIC	77.2	1,211	4.0	84		4.0	84
WLCN-CD D18 DC LIC	26.9	261	26.9	261		26.9	261
WNEH D18 DT LIC	90.5	1,666	53.3	703		49.3	587
WFXB D18 DT LIC	454.0	52,807	358.4	47,340		358.4	47,340

Interference to BLANK0000024830 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WHNS	D17	DT	CP	GREENVILLE, SC	BLANK0000024830	
Undesireds:	WMEL-LD	D17	LD	APP	AUGUSTA, GA	WMEL_Ch17_Omni	212.6 km
	WPXA-TV	D16	DT	CP	ROME, GA	BLANK0000034338	203.9
	WAPK-CD	D16	DC	LIC	BRISTOL VA/KINGSPORT, TN	BLANK0000070481	147.3
	WAAY-TV	D17	DT	LIC	HUNTSVILLE, AL	BLANK0000071637	354.3
	WLGA	D17	DD	CP	OPELIKA, AL	BLANK0000030376	354.3
	WKSO-TV	D17	DT	CP	SOMERSET, KY	BLANK0000034631	292.7
	WRAL-TV	D17	DT	CP	RALEIGH, NC	BLANK0000034032	380.2
	WTAT-TV	D17	DT	CP	CHARLESTON, SC	BLANK0000034503	371.1
	WVVA	D17	DT	CP	BLUEFIELD, WV	BLANK0000027470	266.9
	WCCB	D18	DT	CP	CHARLOTTE, NC	BLANK0000067979	177.1
	WPXK-TV	D18	DT	APP	JELICO, TN	BLANK0000068234	145.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
42370.3	2,550,583	37929.7	2,326,839	37763.1	2,316,349	37746.0	2,316,108	0.05	0.01

Undesired		Total IX		Unique IX, before		Unique IX, after	
WMEL-LD D17 LD APP	26.0	281				17.0	241
WPXA-TV D16 DT CP	1.0	38	0.0	0		0.0	0
WAPK-CD D16 DC LIC	2.0	364	0.0	0		0.0	0
WAAY-TV D17 DT LIC	3.0	0	3.0	0		2.0	0
WLGA D17 DD CP	44.2	2,535	43.2	2,497		39.2	2,457
WKSO-TV D17 DT CP	8.0	0	5.0	0		4.0	0
WRAL-TV D17 DT CP	37.9	2,304	25.9	1,523		25.9	1,523
WTAT-TV D17 DT CP	2.0	95	0.0	0		0.0	0
WVVA D17 DT CP	70.6	5,985	61.6	4,929		58.6	4,929
WCCB D18 DT CP	14.9	423	9.9	358		9.9	358
WPXK-TV D18 DT APP	2.0	0	1.0	0		1.0	0

Interference to BLANK0000024830 CP scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WHNS	D17	DT	CP	GREENVILLE, SC	BLANK0000024830	
Undesireds:	WMEL-LD	D17	LD	APP	AUGUSTA, GA	WMEL_Ch17_Omni	212.6 km
	WPXA-TV	D16	DT	CP	ROME, GA	BLANK0000034338	203.9
	WAPK-CD	D16	DC	LIC	BRISTOL VA/KINGSPORT, TN	BLANK0000070481	147.3
	WAAY-TV	D17	DT	CP	HUNTSVILLE, AL	BLANK0000027632	354.3
	WLGA	D17	DD	CP	OPELIKA, AL	BLANK0000030376	354.3
	WKSO-TV	D17	DT	CP	SOMERSET, KY	BLANK0000034631	292.7
	WRAL-TV	D17	DT	CP	RALEIGH, NC	BLANK0000034032	380.2
	WTAT-TV	D17	DT	CP	CHARLESTON, SC	BLANK0000034503	371.1
	WVVA	D17	DT	CP	BLUEFIELD, WV	BLANK0000027470	266.9
	WCCB	D18	DT	CP	CHARLOTTE, NC	BLANK0000067979	177.1
	WPXK-TV	D18	DT	APP	JELICO, TN	BLANK0000068234	145.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
42370.3	2,550,583	37929.7	2,326,839	37763.1	2,316,349	37746.0	2,316,108	0.05	0.01

Undesired		Total IX		Unique IX, before		Unique IX, after	
WMEL-LD D17 LD APP	26.0	281				17.0	241
WPXA-TV D16 DT CP	1.0	38	0.0	0		0.0	0
WAPK-CD D16 DC LIC	2.0	364	0.0	0		0.0	0

WAAY-TV D17 DT CP	3.0	0	3.0	0	2.0	0
WLGA D17 DD CP	44.2	2,535	43.2	2,497	39.2	2,457
WKSO-TV D17 DT CP	8.0	0	5.0	0	4.0	0
WRAL-TV D17 DT CP	37.9	2,304	25.9	1,523	25.9	1,523
WTAT-TV D17 DT CP	2.0	95	0.0	0	0.0	0
WVVA D17 DT CP	70.6	5,985	61.6	4,929	58.6	4,929
WCCB D18 DT CP	14.9	423	9.9	358	9.9	358
WPXK-TV D18 DT APP	2.0	0	1.0	0	1.0	0

Interference to BLANK0000024830 CP scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WHNS	D17	DT	CP	GREENVILLE, SC	BLANK0000024830	
Undesireds:	WMEL-LD	D17	LD	APP	AUGUSTA, GA	WMEL_Ch17_Omni	212.6 km
	WPXA-TV	D16	DT	CP	ROME, GA	BLANK0000034338	203.9
	WAPK-CD	D16	DC	LIC	BRISTOL VA/KINGSPORT, TN	BLANK0000070481	147.3
	WAAY-TV	D17	DT	LIC	HUNTSVILLE, AL	BLANK0000071637	354.3
	WLGA	D17	DD	CP	OPELIKA, AL	BLANK0000030376	354.3
	WKSO-TV	D17	DT	CP	SOMERSET, KY	BLANK0000034631	292.7
	WRAL-TV	D17	DT	CP	RALEIGH, NC	BLANK0000034032	380.2
	WTAT-TV	D17	DT	CP	CHARLESTON, SC	BLANK0000034503	371.1
	WVVA	D17	DT	CP	BLUEFIELD, WV	BLANK0000027470	266.9
	WCCB	D18	DT	CP	CHARLOTTE, NC	BLANK0000067979	177.1
	WPXK-TV	D18	DT	CP	JELICO, TN	BLANK0000026977	146.0

	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
42370.3	2,550,583	37929.7	2,326,839	37762.1	2,316,349	37745.0 2,316,108	0.05 0.01

Undesired	Total IX	Unique IX, before	Unique IX, after
WMEL-LD D17 LD APP	26.0 281	17.0 241	
WPXA-TV D16 DT CP	1.0 38	0.0 0	
WAPK-CD D16 DC LIC	2.0 364	0.0 0	
WAAY-TV D17 DT LIC	3.0 0	2.0 0	
WLGA D17 DD CP	44.2 2,535	39.2 2,457	
WKSO-TV D17 DT CP	8.0 0	4.0 0	
WRAL-TV D17 DT CP	37.9 2,304	25.9 1,523	
WTAT-TV D17 DT CP	2.0 95	0.0 0	
WVVA D17 DT CP	70.6 5,985	58.6 4,929	
WCCB D18 DT CP	14.9 423	9.9 358	
WPXK-TV D18 DT CP	3.0 0	2.0 0	

Interference to BLANK0000024830 CP scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WHNS	D17	DT	CP	GREENVILLE, SC	BLANK0000024830	
Undesireds:	WMEL-LD	D17	LD	APP	AUGUSTA, GA	WMEL_Ch17_Omni	212.6 km
	WPXA-TV	D16	DT	CP	ROME, GA	BLANK0000034338	203.9
	WAPK-CD	D16	DC	LIC	BRISTOL VA/KINGSPORT, TN	BLANK0000070481	147.3
	WAAY-TV	D17	DT	CP	HUNTSVILLE, AL	BLANK0000027632	354.3
	WLGA	D17	DD	CP	OPELIKA, AL	BLANK0000030376	354.3
	WKSO-TV	D17	DT	CP	SOMERSET, KY	BLANK0000034631	292.7
	WRAL-TV	D17	DT	CP	RALEIGH, NC	BLANK0000034032	380.2
	WTAT-TV	D17	DT	CP	CHARLESTON, SC	BLANK0000034503	371.1
	WVVA	D17	DT	CP	BLUEFIELD, WV	BLANK0000027470	266.9
	WCCB	D18	DT	CP	CHARLOTTE, NC	BLANK0000067979	177.1
	WPXK-TV	D18	DT	CP	JELICO, TN	BLANK0000026977	146.0

	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
42370.3	2,550,583	37929.7	2,326,839	37762.1	2,316,349	37745.0 2,316,108	0.05 0.01

Undesired	Total IX	Unique IX, before	Unique IX, after
WMEL-LD D17 LD APP	26.0 281	17.0 241	
WPXA-TV D16 DT CP	1.0 38	0.0 0	
WAPK-CD D16 DC LIC	2.0 364	0.0 0	
WAAY-TV D17 DT CP	3.0 0	2.0 0	
WLGA D17 DD CP	44.2 2,535	39.2 2,457	
WKSO-TV D17 DT CP	8.0 0	4.0 0	
WRAL-TV D17 DT CP	37.9 2,304	25.9 1,523	
WTAT-TV D17 DT CP	2.0 95	0.0 0	
WVVA D17 DT CP	70.6 5,985	58.6 4,929	

WCCB D18 DT CP	14.9	423	9.9	358	9.9	358
WPXK-TV D18 DT CP	3.0	0	2.0	0	2.0	0

Interference to BLANK0000051597 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WIEF-LD	D18	LD	CP	ATHENS, GA	BLANK0000051597	
Undesireds:	WMEL-LD	D17	LD	APP	AUGUSTA, GA	WMEL_Ch17_Omni	34.9 km
	WUVG-DT	D18	DT	CP	ATHENS, GA	BLANK0000066944	235.4
	WUET-LD	D18	LD	CP	SWAINSBORO, GA	BLANK0000052865	158.2
	WCCB	D18	DT	CP	CHARLOTTE, NC	BLANK0000067979	228.8
	WPXK-TV	D18	DT	APP	JELICO, TN	BLANK0000068234	345.4
	W19DO-D	D19	LD	CP	AUGUSTA, GA	BNPDTL20100421ABO	40.1
	WBPI-CD	D19	DC	LIC	AUGUSTA, GA	BLANK0000059661	14.1
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	6876.0	523,821	6809.6	523,015	6000.7	449,049	5913.2 448,034 1.46 0.23

Undesired	Total IX	Unique IX, before	Unique IX, after
WMEL-LD D17 LD APP	122.3	1,194	87.5 1,015
WUVG-DT D18 DT CP	41.7	669	18.9 41
WUET-LD D18 LD CP	1.0	0	0.0 0
WCCB D18 DT CP	11.9	42	1.0 1
W19DO-D D19 LD CP	51.6	12,472	6.9 2,755
WBPI-CD D19 DC LIC	777.1	71,165	715.6 60,824

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WMEL-LD	D17	LD	APP	AUGUSTA, GA	WMEL_Ch17_Omni	
Undesireds:	WLGA	D17	DD	CP	OPELIKA, AL	BLANK0000030376	257.2 km
	WFXU	D17	DT	CP	LIVE OAK, FL	BLANK0000026640	316.7
	WTAT-TV	D17	DT	CP	CHARLESTON, SC	BLANK0000034503	236.0
	WHNS	D17	DT	CP	GREENVILLE, SC	BLANK0000024830	212.6
	WIEF-LD	D18	LD	CP	ATHENS, GA	BLANK0000051597	34.9
	Service area	Terrain-limited		IX-free		Percent IX	
	7042.8	486,538	6983.3	486,283	6727.4	480,399	3.66 1.21

Undesired	Total IX	Unique IX	Prcnt Unique IX
WLGA D17 DD CP	22.8	12	8.0 2 0.11 0.00
WTAT-TV D17 DT CP	30.8	1,014	19.9 609 0.28 0.13
WHNS D17 DT CP	187.4	2,308	169.5 2,298 2.43 0.47
WIEF-LD D18 LD CP	39.7	2,965	38.7 2,560 0.55 0.53