

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

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: WEEL_Ch26_Omni_Pre, Model: Longley-Rice
Start: 2019.04.18 17:40:59

Study created: 2019.04.18 17:32:14

Study build station data: LMS TV 2019-04-18

Proposal: WEEL-LD D26 LD APP TUSCALOOSA, AL
File number: WEEL_Ch26_Omni
Facility ID: 188702
Station data: User record
Record ID: 880
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

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WOTM-LD	N19+	TX	LIC	Birmingham, AL	BLTTL19970514JI	117.4 km
Yes	WJMY-CD	D25	DC	LIC	DEMOPOLIS, AL	BLANK0000001389	54.1
No	W16CM-D	D25	LD	CP	JASPER, AL	BLANK0000052934	101.0
No	WAKA	D25	DT	CP	SELMA, AL	BLANK0000034432	171.2
No	W25AD	N25z	TX	LIC	COLUMBUS, MS	BLTT20031126AOI	46.4
No	W25AD	D25	LD	CP	COLUMBUS, MS	BMPDTL20120206AAI	85.5
No	WMAO-TV	D25	DT	LIC	GREENWOOD, MS	BLEDT20090612AAI	227.9
No	WATN-TV	D25	DT	LIC	MEMPHIS, TN	BLCDT20050628AAP	275.9
No	WGEI-LD	D26	LD	LIC	ENTERPRISE, AL	BLANK0000014108	337.1
Yes	WTJP-TV	D26	DT	LIC	GADSDEN, AL	BLCDT20110304ACB	166.5
No	KPMF-LD	D26	LD	LIC	PARAGOULD, AR	BLANK0000011028	275.9
No	WEDS-LD	D26	LD	CP	FORT WALTON, FL	BLANK0000052524	307.4
No	WBIF	D26	DT	CP	MARIANNA, FL	BLANK0000059983	400.0
No	W26BV	N26-	TX	LIC	PANAMA CITY, FL	BLTTL20001201ABZ	341.6
No	WLVO-LD	D26	LD	LIC	ATLANTA, GA	BLANK0000008263	354.3
No	WTBS-LP	N26-	TX	LIC	ATLANTA, GA	BLTTL20000620AEP	348.9
No	WYBU-CD	D26	DC	CP	COLUMBUS, GA	BLANK0000025321	296.0
No	W26DS-D	D26	LD	LIC	LA GRANGE, GA	BLDTL20140226AGK	270.0
No	WGXA	D26	DT	CP	MACON, GA	BLANK0000034372	426.2
No	NEW	D26	LD	APP	MACON, GA	BNPDTL20090825BPP	426.3
No	NEW	D26	LD	APP	WARNER ROBBINS, GA	BNPDTL20090825AFK	426.2
No	WGNO	D26	DT	LIC	NEW ORLEANS, LA	BLCDT20121019AAK	403.8
No	WBUY-TV	D26	DT	LIC	HOLLY SPRINGS, MS	BLANK0000063641	275.9
Yes	W27DW-D	D26	LD	APP	TUPELO, MS	BLANK0000071787	131.0
No	W26BB	N26+	TX	LIC	VICKSBURG, MS	BLTTL19940527JF	273.2
No	W26BB	D26	LD	CP	VICKSBURG, MS	BDFCDTL20090818ABI	273.2
No	W18DS-D	D26	LD	CP	CHATTANOOGA, TN	BLANK0000051827	340.3
No	WNTU-LP	D26-	LD	CP	NASHVILLE, TN	BLANK0000048995	359.1
No	WNTU-LP	N26-	TX	LIC	NASHVILLE, TN	BLTTL20001018ABZ	348.8
No	WUWT-CD	D26	DC	LIC	UNION CITY, TN	BLDTA20120625ACG	368.9
No	WBUN-LD	D27	LD	LIC	BIRMINGHAM, AL	BLDTL20130909ACA	123.3
No	WAIQ	D27	DT	LIC	MONTGOMERY, AL	BLEDT20060706ACK	192.5
No	WNAL-LD	D27-	LD	LIC	SCOTTSBORO, AL	BLANK0000044789	223.2
Yes	WCBI-TV	D27	DT	LIC	COLUMBUS, MS	BLANK0000059851	93.6
No	W27DS-D	D27	LD	CP	STARKVILLE, MS	BNPDTL20100512AII	67.9
No	W27DW-D	D27	LD	CP	TUPELO, MS	BNPDTL20100512AIL	131.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D26

Mask: Full Service
Latitude: 33 13 7.00 N (NAD83)
Longitude: 88 5 47.20 W
Height AMSL: 207.3 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: Omnidirectional
Elev Pattn: Generic

50.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	120.1 m	45.9 km
45.0	15.0	113.4	45.3
90.0	15.0	126.7	46.3
135.0	15.0	125.4	46.2
180.0	15.0	147.5	47.8
225.0	15.0	143.1	47.5
270.0	15.0	130.8	46.6
315.0	15.0	113.9	45.4

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 128 m

Distance to Canadian border: 1054.1 km

Distance to Mexican border: 1172.1 km

Conditions at FCC monitoring station: Powder Springs GA

Bearing: 76.2 degrees Distance: 320.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 301.6 degrees Distance: 1704.8 km

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 BLANK0000001389 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	WJMY-CD	D25	DC	LIC	DEMOPOLIS, AL	BLANK0000001389			
Undesireds:	WEEL-LD	D26	LD	APP	TUSCALOOSA, AL	WEEL_Ch26_Omni	54.1 km		
	WBXA-CD	D24	DC	LIC	BIRMINGHAM, AL	BLANK0000001638	83.9		
	WMDN	D24	DT	APP	MERIDIAN, MS	BLANK0000035927	134.0		
	WFNA	D25	DT	LIC	GULF SHORES, AL	BLCDT20100614AQJ	264.0		
	WMAO-TV	D25	DT	LIC	GREENWOOD, MS	BLEDT20090612AAI	280.6		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
9463.6		255,916		9361.1 255,103		9270.5 253,829	0.90 0.50		
Undesired				Total IX	Unique IX, before	Unique IX, after			
WEEL-LD D26 LD APP				87.6 1,270		84.6 1,265			
WFNA D25 DT LIC				1.0 2	1.0 2	1.0 2			
WMAO-TV D25 DT LIC				5.0 7	5.0 7	2.0 2			

Interference to BLCDT20110304ACB LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTJP-TV	D26	DT	LIC	GADSDEN, AL	BLCDT20110304ACB	
Undesireds:	WEEL-LD	D26	LD	APP	TUSCALOOSA, AL	WEEL_Ch26_Omni	166.5 km
	WAKA	D25	DT	CP	SELMA, AL	BLANK0000034432	187.6
	WYBU-CD	D26	DC	CP	COLUMBUS, GA	BLANK0000025321	198.1
	WGXA	D26	DT	CP	MACON, GA	BLANK0000034372	293.4
	WBUY-TV	D26	DT	LIC	HOLLY SPRINGS, MS	BLANK0000063641	345.3

WATE-TV	D26	DT	LIC	KNOXVILLE, TN	BMLCDT20041203AEG	333.7
WAIQ	D27	DT	LIC	MONTGOMERY, AL	BLEDT20060706ACK	159.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
32981.1 1,942,033	31254.7 1,891,008	30882.3 1,881,486	30839.5 1,880,584	0.14 0.05

Undesired	Total IX	Unique IX, before	Unique IX, after
WEEL-LD D26 LD APP	56.7 1,204		42.8 902
WAKA D25 DT CP	19.0 1,777	17.0 1,765	15.0 1,524
WYBU-CD D26 DC CP	109.6 2,074	28.9 798	28.9 798
WGXA D26 DT CP	257.4 4,706	169.9 3,405	164.9 3,375
WBUY-TV D26 DT LIC	18.1 1,229	18.1 1,229	18.1 1,229
WATE-TV D26 DT LIC	47.9 1,025	40.0 995	39.0 995
WAIQ D27 DT LIC	11.0 29	9.0 17	9.0 17

Interference to BLANK0000071787 APP scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: W27DW-D	D26	LD	APP	TUPELO, MS	BLANK0000071787	
Undesireds: WEEL-LD	D26	LD	APP	TUSCALOOSA, AL	WEEL_Ch26_Omni	131.0 km
W25AD	N25z	TX	LIC	COLUMBUS, MS	BLTT20031126AOI	87.3
WTJP-TV	D26	DT	LIC	GADSDEN, AL	BLCDDT20110304ACB	207.9
WBUY-TV	D26	DT	LIC	HOLLY SPRINGS, MS	BLANK0000063641	150.0
W26BB	N26+	TX	LIC	VICKSBURG, MS	BLTTTL19940527JF	298.7
WNTU-LP	D26-	LD	CP	NASHVILLE, TN	BLANK0000048995	273.5
WCBI-TV	D27	DT	LIC	COLUMBUS, MS	BLANK0000059851	66.5

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
6559.0 205,135	6531.9 204,929	6113.5 197,265	6113.5 197,265	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WEEL-LD D26 LD APP	1.0 0		0.0 0
WTJP-TV D26 DT LIC	156.8 4,370	92.5 2,690	92.5 2,690
WBUY-TV D26 DT LIC	120.2 3,613	46.1 1,491	46.1 1,491
WCBI-TV D27 DT LIC	228.5 1,835	203.7 1,361	203.7 1,361

Interference to BLANK0000059851 LIC scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: WCBI-TV	D27	DT	LIC	COLUMBUS, MS	BLANK0000059851	
Undesireds: WEEL-LD	D26	LD	APP	TUSCALOOSA, AL	WEEL_Ch26_Omni	93.6 km
WFNA	D27	DT	CP	GULF SHORES, AL	BLANK0000034857	354.4
WAIQ	D27	DT	LIC	MONTGOMERY, AL	BLEDT20060706ACK	284.9
KTVE	D27	DT	LIC	EL DORADO, AR	BLCDDT20070105ABH	319.4
WLJT-DT	D27	DT	LIC	LEXINGTON, TN	BLANK0000058637	218.4
WKRN-TV	D27	DT	LIC	NASHVILLE, TN	BLCDDT20090624ABO	316.1
WMAW-TV	D28	DT	CP	MERIDIAN, MS	BLANK0000026608	180.4

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
37838.3 680,328	37370.7 674,688	36846.6 668,549	36670.4 666,577	0.48 0.29

Undesired	Total IX	Unique IX, before	Unique IX, after
WEEL-LD D26 LD APP	202.1 2,745		176.2 1,972
WFNA D27 DT CP	45.9 794	17.0 416	16.0 416
WAIQ D27 DT LIC	124.3 1,830	87.5 1,461	69.5 749
KTVE D27 DT LIC	235.6 1,642	217.6 1,352	217.6 1,352
WLJT-DT D27 DT LIC	79.3 1,066	37.2 297	37.2 297
WKRN-TV D27 DT LIC	123.0 2,028	73.0 1,098	73.0 1,098
WMAW-TV D28 DT CP	6.0 186	6.0 186	6.0 186

Interference to proposal scenario 1
6.38% interference received

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: WEEL-LD	D26	LD	APP	TUSCALOOSA, AL	WEEL_Ch26_Omni	
Undesireds: W25AD	N25z	TX	LIC	COLUMBUS, MS	BLTT20031126AOI	46.4 km
WTJP-TV	D26	DT	LIC	GADSDEN, AL	BLCDDT20110304ACB	166.5
W27DW-D	D26	LD	APP	TUPELO, MS	BLANK0000071787	131.0

W26BB	N26+	TX	LIC	VICKSBURG, MS	BLTTTL19940527JF	273.2
WCBI-TV	D27	DT	LIC	COLUMBUS, MS	BLANK0000059851	93.6

Service area	Terrain-limited	IX-free	Percent IX
6790.5 96,541	6641.2 93,078	6367.6 87,142	4.12 6.38

Undesired	Total IX	Unique IX	Prcnt Unique IX
WTJP-TV D26 DT LIC	239.9 4,407	223.0 4,342	3.36 4.66
WCBI-TV D27 DT LIC	50.6 1,594	33.7 1,529	0.51 1.64