

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: Dothan20dDir, Model: Longley-Rice
Start: 2018.05.23 08:03:07

Study created: 2018.05.23 08:03:07

Study build station data: LMS TV 2018-05-22

Proposal: WJJN-LD D20 LD APP DOTHAN, AL
Facility ID: 168277
Station data: User record
Record ID: 773
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	WIIQ	D19	DT	LIC	DEMOPOLIS, AL	BLEDT20090511AHE	265.5 km
No	WDSF-LD	D19	LD	LIC	MONTGOMERY, AL	BLANK0000001458	163.3
No	WIYC	D19	DT	CP	TROY, AL	BLANK00000034521	104.7
No	WIDM-LD	D19	LD	LIC	PANAMA CITY, FL	BLANK00000013986	124.0
No	W19CO-D	D19	LD	LIC	PENSACOLA, FL	BLDTL20100408ACF	199.3
No	NEW	D19	LD	APP	TALLAHASSEE, FL	BNPDTL20090825AAO	134.6
No	NEW	D19	LD	APP	TALLAHASSEE, FL	BNPDTL20090825BLU	149.0
No	NEW	D19	LD	APP	ALBANY, GA	BNPDTL20090825CAA	124.1
No	NEW	D19	LD	APP	ALBANY, GA	BNPDTL20090825AII	124.1
No	WTLH	D19	DT	CP	BAINBRIDGE, GA	BLANK00000027936	149.0
No	WTLH	D19	DT	APP	BAINBRIDGE, GA	BLANK00000034478	149.0
No	NEW	D19	LD	APP	CAMILLA/MOULTRIE, GA	BNPDTL20090825AYL	124.4
No	W19DW-D	D19	LD	CP	COLUMBUS, GA	BLANK00000015603	146.6
No	WANX-LP	N19+	TX	LIC	COLUMBUS, GA	BLTTL20070813AAT	132.3
Yes	WABM	D20	DT	CP	BIRMINGHAM, AL	BLANK00000034382	281.9
No	W20DE-D	D20	LD	LIC	BIRMINGHAM, AL	BLDTL20120222AAL	281.6
Yes	WKRG-TV	D20	DT	CP	MOBILE, AL	BLANK00000027663	240.9
Yes	WMPV-TV	D20	DT	LIC	MOBILE, AL	BLCDT20100420AAK	223.1

Yes	WCOV-TV	D20	DT	LIC	MONTGOMERY, AL	BLCDT20090312AAO	109.0
No	W20DF-D	D20	LD	LIC	RUSSELLVILLE, AL	BLANK0000004499	423.3
No	NEW	D20	LD	APP	DUNNELLON, FL	BNPDTL20090825BFT	365.8
No	NEW	D20	LD	APP	GAINESVILLE, FL	BNPDTL20090825AOQ	340.0
No	WKBJ-LD	D20	LD	LIC	Jacksonville, FL	BLANK0000008067	380.9
No	WCWJ	D20	DT	CP	JACKSONVILLE, FL	BLANK00000029603	382.0
No	NEW	D20	LD	APP	MADISON, FL	BNPDTL20090825AHV	197.7
No	NEW	D20	LD	APP	OCALA, FL	BNPDTL20090825AMY	361.0
No	W20DX-D	D20	LD	CP	PANAMA CITY, FL	BLANK00000036245	119.1
No	NEW	D20	LD	APP	REDDICK, FL	BNPDTL20090825AKM	370.4
No	NEW	D20	LD	APP	TALLAHASSEE, FL	BNPDTL20090825AJC	131.8
No	NEW	D20	LD	APP	WILLISTON, FL	BNPDTL20090825BUO	359.4
No	W20DO-D	D20	LD	CP	ALBANY, GA	BLANK00000011851	124.1
No	WANN-CD	D20	DC	CP	ATLANTA, GA	BLANK00000028242	300.9
No	WPCH-TV	D20	DT	LIC	ATLANTA, GA	BLCDT20050204AAD	300.9
No	WCZC-LD	D20	LD	LIC	AUGUSTA, GA	BLDTL20150112ACR	378.1
No	W20DZ-D	D20	LD	CP	BYRON, GA	BNPDTL20100510AFP	217.9
No	WCGZ-LD	D20	LD	APP	Columbus, GA	BLANK00000053202	196.4
No	W20DL-D	D20	LD	CP	MACON, GA	BNPDTL20100205ACG	240.2
No	WHDS-LD	D20	LD	APP	SAVANNAH, GA	BLANK00000054260	416.5
Yes	WCTV	D20	DT	CP	THOMASVILLE, GA	BLANK00000033928	152.3
No	W20CY	D20	LD	CP	TIFTON, GA	BDFCDTL20091118AGP	179.9
No	W20CY	N20	TX	LIC	TIFTON, GA	BLTTTL20121211ABO	179.9
No	NEW	D20	LD	APP	VALDOSTA, GA	BNPDTL20090825CAG	199.9
No	W20EC-D	D20	LD	CP	VIDALIA, GA	BDCCDTL20121001AGL	326.3
No	NEW	D20	LD	APP	COLUMBUS, MS	BNPDTL20100507ACM	381.1
No	WDHN	D21	DT	LIC	DOTHAN, AL	BLCDT20090303ACR	7.4
No	WETU-LD	D21	LD	APP	MONTGOMERY, AL	BLANK00000054278	147.6
No	WPAN	D21	DT	CP	FORT WALTON BEACH, FL	BLANK00000029983	201.2
No	WCGZ-LD	D21	LD	CP	Columbus, GA	BLANK00000009477	167.9
No	WCGZ-LD	D21	LD	LIC	Columbus, GA	BLDTL20140226AGJ	178.5

Non-directional AM stations within 0.8 km:

WDSA 1320 L ND2 D DOTHAN, AL BL20030807AJH

WDSA 1320 L ND2 N DOTHAN, AL BL20030807AJH

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D20
Mask: Full Service
Latitude: 31 14 55.10 N (NAD83)
Longitude: 85 23 20.00 W
Height AMSL: 244.4 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: PSI-PSILP12AER (ID 20349) 300.0 deg
Elev Pattn: Generic
Elec Tilt: 0.75

49.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	13.4 kW	144.5 m	47.7 km
45.0	4.99	158.2	43.6
90.0	0.067	164.2	22.0
135.0	0.183	167.2	27.2
180.0	2.75	160.5	40.7
225.0	10.9	152.8	47.2
270.0	15.0	170.7	50.0
315.0	15.0	142.8	48.1

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 158 m

Distance to Canadian border: 1183.9 km

Distance to Mexican border: 1268.0 km

Conditions at FCC monitoring station: Powder Springs GA

Bearing: 11.9 degrees Distance: 297.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 304.4 degrees Distance: 2037.6 km

No land mobile station failures found

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%

Interference to BLANK0000034382 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WABM	D20	DT	CP	BIRMINGHAM, AL	BLANK0000034382			
Undesireds:	WJJN-LD	D20	LD	APP	DOTHAN, AL		281.9 km		
	WIIQ	D19	DT	LIC	DEMOPOLIS, AL	BLEDT20090511AHE	159.6		
	WHNT-TV	D19	DT	LIC	HUNTSVILLE, AL	BLCDT20111118COZ	141.7		
	WIYC	D19	DT	CP	TROY, AL	BLANK0000034521	177.4		
	WKRG-TV	D20	DT	CP	MOBILE, AL	BLANK0000027663	325.3		
	WANN-CD	D20	DC	CP	ATLANTA, GA	BLANK0000028242	231.1		
	WDNN-CD	D20	DC	CP	DALTON, GA	BLANK0000028630	215.4		
	WMPN-TV	D20	DT	LIC	JACKSON, MS	BLEDT20080807AAP	365.5		
	WZTV	D20	DT	CP	NASHVILLE, TN	BLANK0000028847	308.9		
	WTTO	D21	DT	CP	HOMEWOOD, AL	BLANK0000029999	0.0		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
32553.5	1,772,566	31307.1	1,744,805	30571.4	1,727,483	30563.4	1,727,045	0.03	0.03
Undesired				Total IX		Unique IX, before		Unique IX, after	
WJJN-LD	D20	LD	APP	20.0	967	8.0	438		
WIIQ	D19	DT	LIC	118.0	1,006	57.0	421	57.0	421
WHNT-TV	D19	DT	LIC	58.0	1,617	28.0	741	28.0	741
WIYC	D19	DT	CP	26.0	836	16.0	610	15.0	610
WKRG-TV	D20	DT	CP	374.4	3,856	282.4	2,686	277.4	2,525
WANN-CD	D20	DC	CP	45.7	1,357	38.8	758	34.8	487

WDNN-CD D20 DC CP	24.7	2,129	15.8	1,379	15.8	1,379
WMPN-TV D20 DT LIC	61.7	646	31.8	332	31.8	332
WZTV D20 DT CP	81.5	2,669	46.6	1,559	46.6	1,559
WTTO D21 DT CP	88.4	6,040	88.4	6,040	88.4	6,040

Interference to BLANK0000027663 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance	
	WKRG-TV	D20	DT	CP	MOBILE, AL	BLANK0000027663		
Undesireds:	WJJN-LD	D20	LD	APP	DOTHAN, AL		240.9 km	
	WIIQ	D19	DT	LIC	DEMOPOLIS, AL	BLEDT20090511AHE	186.1	
	WDSU	D19	DT	CP	NEW ORLEANS, LA	BLANK0000034524	220.0	
	WABM	D20	DT	CP	BIRMINGHAM, AL	BLANK0000034382	325.3	
	WCTV	D20	DT	CP	THOMASVILLE, GA	BLANK0000033928	371.9	
	WMPN-TV	D20	DT	LIC	JACKSON, MS	BLEDT20080807AAP	295.9	
	WPAN	D21	DT	CP	FORT WALTON BEACH, FL	BLANK0000029983	40.9	
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
43516.6		1,525,586		43360.6		1,507,429		0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after		
WJJN-LD D20 LD APP		19.4		14		0.0		0
WIIQ D19 DT LIC		5.1		20		0.0		0
WABM D20 DT CP		327.6		2,078		243.4		1,631
WCTV D20 DT CP		49.7		826		26.3		812
WMPN-TV D20 DT LIC		294.4		2,019		237.7		1,678
WPAN D21 DT CP		166.0		12,876		162.0		12,786

Interference to BLCDT20100420AAK LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WMPV-TV	D20	DT	LIC	MOBILE, AL	BLCDT20100420AAK	
Undesireds:	WJJN-LD	D20	LD	APP	DOTHAN, AL		223.1 km
	WCOV-TV	D20	DT	LIC	MONTGOMERY, AL	BLCDT20090312AAO	204.5

WMPN-TV	D20	DT	LIC	JACKSON, MS	BLEDT20080807AAP	318.3
WPAN	D21	DT	CP	FORT WALTON BEACH, FL	BLANK0000029983	22.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
33322.4	1,395,344	33266.4	1,395,190	32455.6	1,387,075	32452.6	1,387,060	0.01 0.00

Undesired		Total IX		Unique IX, before		Unique IX, after
WJJN-LD D20 LD APP	8.1	191			3.0	15
WCOV-TV D20 DT LIC	542.8	5,386	486.8	5,145	481.7	4,969
WMPN-TV D20 DT LIC	268.0	1,866	223.2	1,670	223.2	1,670
WPAN D21 DT CP	55.9	1,104	44.7	1,059	44.7	1,059

Interference to BLCDDT20090312AAO LIC scenario 1
 **IX: 6.02% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCOV-TV	D20	DT	LIC	MONTGOMERY, AL	BLCDDT20090312AAO	
Undesireds:	WJJN-LD	D20	LD	APP	DOTHAN, AL		109.0 km
	WIIQ	D19	DT	LIC	DEMOPOLIS, AL	BLEDT20090511AHE	166.8
	WMPV-TV	D20	DT	LIC	MOBILE, AL	BLCDDT20100420AAK	204.5
	WPCH-TV	D20	DT	LIC	ATLANTA, GA	BLCDDT20050204AAD	265.4
	WMPN-TV	D20	DT	LIC	JACKSON, MS	BLEDT20080807AAP	400.4
	WDHN	D21	DT	LIC	DOTHAN, AL	BLCDDT20090303ACR	114.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
34298.5	862,993	34000.8	859,768	32411.8	832,618	31046.5	782,502	4.21 6.02

Undesired		Total IX		Unique IX, before		Unique IX, after
WJJN-LD D20 LD APP	1971.4	65,062			1365.3	50,116
WIIQ D19 DT LIC	4.0	60	2.0	60	1.0	0
WMPV-TV D20 DT LIC	649.4	5,500	564.3	3,973	467.9	2,314
WPCH-TV D20 DT LIC	615.6	12,802	567.1	12,081	453.2	8,455
WMPN-TV D20 DT LIC	3.0	0	1.0	0	1.0	0
WDHN D21 DT LIC	418.2	10,362	360.3	9,462	42.6	1,101

Interference to BLANK0000033928 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCTV	D20	DT	CP	THOMASVILLE, GA	BLANK0000033928	
Undesireds:	WJJN-LD	D20	LD	APP	DOTHAN, AL		152.3 km
	WTLH	D19	DT	CP	BAINBRIDGE, GA	BLANK0000027936	3.2
	WABM	D20	DT	CP	BIRMINGHAM, AL	BLANK0000034382	413.1
	WKRG-TV	D20	DT	CP	MOBILE, AL	BLANK0000027663	371.9
	WCWJ	D20	DT	CP	JACKSONVILLE, FL	BLANK0000029603	232.9
	WZXZ-CD	D20	DC	CP	ORLANDO, ETC., FL	BLANK0000034824	360.4
	WVEA-TV	D20	DT	CP	TAMPA, FL	BLANK0000034006	353.4
	WANN-CD	D20	DC	CP	ATLANTA, GA	BLANK0000028242	350.7
	WDHN	D21	DT	LIC	DOTHAN, AL	BLCDT20090303ACR	145.3
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
47112.6 1,090,262		47087.6 1,089,953		46005.8 1,076,654		45957.5 1,075,733	0.11 0.09
Undesired		Total IX		Unique IX, before		Unique IX, after	
WJJN-LD	D20 LD APP	434.8	7,191			48.3 921	
WTLH	D19 DT CP	3.0	137	3.0	137	3.0 137	
WKRG-TV	D20 DT CP	49.9	228	42.9	169	27.0 71	
WCWJ	D20 DT CP	527.8	5,252	526.8	5,252	526.8 5,252	
WVEA-TV	D20 DT CP	1.0	0	0.0	0	0.0 0	
WDHN	D21 DT LIC	508.0	7,741	501.0	7,682	137.5 1,569	

Interference to proposal scenario 1
13.86% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WJJN-LD	D20	LD	APP	DOTHAN, AL		
Undesireds:	WABM	D20	DT	CP	BIRMINGHAM, AL	BLANK0000034382	281.9 km
	WKRG-TV	D20	DT	CP	MOBILE, AL	BLANK0000027663	240.9
	WCGZ-LD	D20	LD	APP	Columbus, GA	BLANK0000053202	196.4
	WCTV	D20	DT	CP	THOMASVILLE, GA	BLANK0000033928	152.3
	W20CY	D20	LD	CP	TIFTON, GA	BDFCDTL20091118AGP	179.9

WDHN D21 DT LIC DOTHAN, AL BLCDT20090303ACR 7.4

Service area	Terrain-limited	IX-free	Percent IX
5603.0 220,791	5597.9 220,782	3960.1 190,175	29.26 13.86
Undesired	Total IX	Unique IX	Prcnt Unique IX
WABM D20 DT CP	3.0 26 1.0	0	0.02 0.00
WKRG-TV D20 DT CP	10.2 48 1.0	16	0.02 0.01
WCTV D20 DT CP	411.7 4,949 97.5	1,228	1.74 0.56
WDHN D21 DT LIC	1535.3 29,363 1222.1	25,642	21.83 11.61