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

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: WEEL_Ch22_Omni_Pre, Model: Longley-Rice
Start: 2019.05.31 14:15:29

Study created: 2019.05.31 13:46:04

Study build station data: LMS TV 2019-05-31

    Proposal: WEEL-LD D22 LD APP TUSCALOOSA, AL
 File number: WEEL_Ch22_Omni
 Facility ID: 188702
Station data: User record
   Record ID: 951
     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
All records for new LPTV stations excluded

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	W15AZ	N15-	TX	LIC	ALABASTER, AL	BLTTL19940809IB	121.9 km
No	W15CG	N15-	TX	LIC	PONTOTOC, MS	BLTTL20050308ABV	138.8
Yes	WTTO	D21	DT	CP	HOMEWOOD, AL	BLANK0000029999	123.3
No	WETU-LD	D21	LD	CP	MONTGOMERY, AL	BLANK0000054278	195.5
No	W21DM-D	D21	LD	LIC	TUSCALOOSA, AL	BLANK0000013996	93.3
No	WAPT	D21	DT	LIC	JACKSON, MS	BLCDT20081126ALZ	230.5
No	W21DB-D	D21	LD	LIC	MERIDIAN, MS	BLDTL20140429ASW	111.5
No	W38FT-D	D21	LD	APP	TUPELO, MS	BLANK0000072181	122.9
Yes	WFIQ	D22	DT	LIC	FLORENCE, AL	BLEDT20060718ACG	153.8
Yes	WCOV-TV	D22	DT	CP	MONTGOMERY, AL	BLANK0000072324	227.9
Yes	WSWH-LD	D22	LD	CP	TUSCALOOSA, AL	BLANK0000029897	123.3
Yes	WBMM	D22	DT	LIC	TUSKEGEE, AL	BLCDT20090428ABH	238.5
No	KJNE-LD	D22z	LD	LIC	JONESBORO, AR	BLANK0000055090	379.3
No	KATV	D22	DT	LIC	LITTLE ROCK, AR	BLCDT20090225AAV	441.1
No	WDES-CD	D22	DC	LIC	DESTIN, FL	BLANK0000059931	347.6
No	W22EV-D	D22	LD	CP	DESTIN, FL	BDISDTL20140507AAR	340.2
No	WPFN-CD	D22	DC	LIC	PANAMA CITY, FL	BLANK0000062893	402.4
No	WCTU-LD	D22	LD	CP	PENSACOLA, FL	BLANK0000051836	315.1
No	WCEG-LD	D22	LD	CP	ALBANY, GA	BLANK0000013266	421.3
No	WSKC-CD	D22	DC	LIC	ATLANTA, GA	BLDTA20130417AAG	374.4
No	W22EA-D	D22	LD	CP	COLUMBUS, GA	BNPDTL20100423ACH	296.1
No	W22EC-D	D22	LD	CP	LA GRANGE, GA	BMPDTL20110721ABG	270.0
No	WHSG-TV	D22	DT	CP	MONROE, GA	BLANK0000034684	351.3
No	WTNO-LP	D22	DC	LIC	NEW ORLEANS, LA	BLANK0000001586	409.3
No	K22IB-D	D22	LD	CP	VIDALIA, LA	BDCCDTT20061024AFE	360.2
No	KMCT-TV	D22	DT	LIC	WEST MONROE, LA	BLANK0000063151	386.5
No	W22EO-D	D22	LD	CP	GREENVILLE, MS	BNPDTL20101018ACV	273.2
Yes	WHLT	D22	DT	LIC	HATTIESBURG, MS	BLANK0000068599	228.3
Yes	W22EP-D	D22	LD	CP	STARKVILLE, MS	BNPDTL20100512AIH	67.9
No	WEBU-LP	D22+	LD	CP	WEBB, MS	BLANK0000054535	210.5
No	WCKV-LD	D22	LD	CP	CLARKSVILLE, TN	BLANK0000053834	373.9
No	WCTE	D22	DT	LIC	COOKEVILLE, TN	BLEDT20110413ACS	413.7
No	WCTD-LP	D22	LD	CP	DUCKTOWN, TN	BDFCDTL20110829AAE	376.2
No	WJTD-LP	D22z	LD	CP	JACKSON, TN	BLANK0000054279	279.1
No	WDNM-LD	D22	LD	APP	MEMPHIS, TN	BLANK0000051813	267.5
No	WQAP-LD	D23	LD	CP	MONTGOMERY, AL	BLANK0000058726	179.1
No	WOIL-CD	D23	DC	CP	TALLADEGA, AL	BLANK0000034660	176.8
Yes	WVUA-CD	D23	DC	LIC	TUSCALOOSA/NORTHPORT, AL	BLANK0000001646	54.5
No	W23FD-D	D23	LD	CP	STARKVILLE, MS	BLANK0000071801	67.9
No	WTWV	D23	DT	LIC	MEMPHIS, TN	BLANK0000048888	272.0
No	W25AD	N25z	TX	LIC	COLUMBUS, MS	BLTT20031126AOI	46.4

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

```
    Channel: D22
       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 Pattrn: Generic
```

49.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	120.1 m	46.3 km
45.0	15.0	113.4	45.8
90.0	15.0	126.7	46.8
135.0	15.0	125.4	46.7
180.0	15.0	147.5	48.2
225.0	15.0	143.1	47.9
270.0	15.0	130.8	47.1
315.0	15.0	113.9	45.8

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 BLANK0000029999 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WTTO	D21	DT	CP	HOMEWOOD, AL	BLANK0000029999	
Undesireds:	WEEL-LD	D22	LD	APP	TUSCALOOSA, AL	WEEL_Ch22_Omni	123.3 km
	WDHN	D21	DT	LIC	DOTHAN, AL	BLCDT20090303ACR	286.2
	WPAN	D21	DT	CP	FORT WALTON BEACH, FL	BLANK0000029983	313.9
	WPBA	D21	DT	LIC	ATLANTA, GA	BLEDT20041013ABK	230.8
	WAPT	D21	DT	LIC	JACKSON, MS	BLCDT20081126ALZ	352.0
	WJKT	D21	DT	CP	JACKSON, TN	BLANK0000027712	331.1
	WUXP-TV	D21	DT	LIC	NASHVILLE, TN	BLCDT20060414AAU	308.9
	WFIQ	D22	DT	LIC	FLORENCE, AL	BLEDT20060718ACG	151.2
	WCOV-TV	D22	DT	CP	MONTGOMERY, AL	BLANK0000072324	178.3

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
35791.5	1,866,284	34229.2	1,821,194	33366.8	1,787,825	33360.8	1,787,650	0.02	0.01

Undesired	Total IX		Unique IX, before		Unique IX, after	
WEEL-LD D22 LD APP	12.9	286			6.0	175
WDHN D21 DT LIC	452.8	10,467	281.7	6,225	281.7	6,225
WPAN D21 DT CP	33.1	283	6.0	0	6.0	0
WPBA D21 DT LIC	80.6	4,637	36.8	1,889	36.8	1,889
WAPT D21 DT LIC	66.8	1,200	48.8	907	41.8	796

WJKT D21 DT CP	57.3	1,505	5.0	18	5.0	18	
WUXP-TV D21 DT LIC	238.9	19,123	177.5	16,919	177.5	16,919	
WFIQ D22 DT LIC	13.1	362	4.0	141	4.0	141	
WCOV-TV D22 DT CP	178.3	2,897	64.1	610	64.1	610	

Interference to BLEDT20060718ACG LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WFIQ	D22	DT	LIC	FLORENCE, AL	BLEDT20060718ACG	
Undesireds:	WEEL-LD	D22	LD	APP	TUSCALOOSA, AL	WEEL_Ch22_Omni	153.8 km
	WTTO	D21	DT	CP	HOMEWOOD, AL	BLANK0000029999	151.2
	WCOV-TV	D22	DT	CP	MONTGOMERY, AL	BLANK0000072324	326.2
	WHSG-TV	D22	DT	CP	MONROE, GA	BLANK0000034684	328.2
	WCTE	D22	DT	LIC	COOKEVILLE, TN	BLEDT20110413ACS	283.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
20426.4	546,048	20174.1	541,173	20050.4	538,285	19981.1	536,796	0.35	0.28

Undesired		Total IX		Unique IX, before		Unique IX, after	
WEEL-LD D22 LD APP	80.2	1,985				69.3	1,489
WTTO D21 DT CP	75.0	2,111	46.4	872	46.4	872	
WCOV-TV D22 DT CP	66.2	1,883	33.6	726	23.8	230	
WHSG-TV D22 DT CP	11.9	128	4.0	0	3.0	0	
WCTE D22 DT LIC	8.1	45	5.0	45	5.0	45	

Interference to BLANK0000072324 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCOV-TV	D22	DT	CP	MONTGOMERY, AL	BLANK0000072324	
Undesireds:	WEEL-LD	D22	LD	APP	TUSCALOOSA, AL	WEEL_Ch22_Omni	227.9 km
	WDHN	D21	DT	LIC	DOTHAN, AL	BLCDT20090303ACR	114.6
	WTTO	D21	DT	CP	HOMEWOOD, AL	BLANK0000029999	178.3
	WFIQ	D22	DT	LIC	FLORENCE, AL	BLEDT20060718ACG	326.2
	WPFN-CD	D22	DC	LIC	PANAMA CITY, FL	BLANK0000062893	202.6
	WTWC-TV	D22	DT	CP	TALLAHASSEE, FL	BLANK0000034393	252.8
	WHSG-TV	D22	DT	CP	MONROE, GA	BLANK0000034684	258.9
	WHLT	D22	DT	LIC	HATTIESBURG, MS	BLANK0000068599	297.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
36289.0	890,057	35897.4	887,382	34828.8	864,743	34828.8	864,743	0.00	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
WEEL-LD D22 LD APP	22.1	0				0.0	0
WDHN D21 DT LIC	243.7	6,653	120.8	3,909	120.8	3,909	
WTTO D21 DT CP	10.0	5	3.0	4	3.0	4	
WFIQ D22 DT LIC	53.1	479	22.0	314	20.0	314	
WPFN-CD D22 DC LIC	2.0	0	0.0	0	0.0	0	
WTWC-TV D22 DT CP	423.4	11,954	229.9	6,176	229.9	6,176	
WHSG-TV D22 DT CP	208.8	5,430	137.4	2,281	137.4	2,281	
WHLT D22 DT LIC	358.3	4,062	329.0	4,011	327.0	4,011	

Interference to BLANK0000029897 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WSWH-LD	D22	LD	CP	TUSCALOOSA, AL	BLANK0000029897	
Undesireds:	WEEL-LD	D22	LD	APP	TUSCALOOSA, AL	WEEL_Ch22_Omni	123.3 km
	WTTO	D21	DT	CP	HOMEWOOD, AL	BLANK0000029999	0.0
	W21DM-D	D21	LD	LIC	TUSCALOOSA, AL	BLANK0000013996	35.4
	WFIQ	D22	DT	LIC	FLORENCE, AL	BLEDT20060718ACG	151.2
	WCOV-TV	D22	DT	CP	MONTGOMERY, AL	BLANK0000072324	178.3
	WHSG-TV	D22	DT	CP	MONROE, GA	BLANK0000034684	228.3
	WCTD-LP	D22	LD	CP	DUCKTOWN, TN	BDFCDTL20110829AAE	256.4
	WVUA-CD	D23	DC	LIC	TUSCALOOSA/NORTHPORT, AL	BLANK0000001646	75.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
7728.2	952,120	7011.7	927,409	5949.8	844,127	5946.8	844,126	0.05	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	

WEEL-LD D22 LD APP	30.8	848			3.0	1
WTTO D21 DT CP	993.4	81,673	836.3	71,143	834.3	70,724
W21DM-D D21 LD LIC	1.0	43	1.0	43	1.0	43
WFIQ D22 DT LIC	110.4	8,675	6.9	284	6.9	284
WCOV-TV D22 DT CP	123.2	5,307	19.8	404	19.8	404
WHSG-TV D22 DT CP	22.9	814	1.0	0	1.0	0
WVUA-CD D23 DC LIC	49.7	1,309	28.9	686	17.9	650

Interference to BLCDT20090428ABH LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WBMM	D22	DT	LIC	TUSKEGEE, AL	BLCDT20090428ABH	
Undesireds:	WEEL-LD	D22	LD	APP	TUSCALOOSA, AL	WEEL_Ch22_Omni	238.5 km
	WDHN	D21	DT	LIC	DOTHAN, AL	BLCDT20090303ACR	109.8
	WFIQ	D22	DT	LIC	FLORENCE, AL	BLEDT20060718ACG	327.1
	WHLT	D22	DT	LIC	HATTIESBURG, MS	BLANK0000068599	319.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
18138.5	576,320	18053.8	575,822	18003.1	575,537	18003.1	575,537	0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
WEEL-LD D22 LD APP	1.0	0			0.0	0
WDHN D21 DT LIC	36.5	280	36.5	280	36.5	280
WFIQ D22 DT LIC	3.0	0	0.0	0	0.0	0
WHLT D22 DT LIC	14.1	5	11.1	5	11.1	5

Interference to BLANK0000068599 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHLT	D22	DT	LIC	HATTIESBURG, MS	BLANK0000068599	
Undesireds:	WEEL-LD	D22	LD	APP	TUSCALOOSA, AL	WEEL_Ch22_Omni	228.3 km
	WAPT	D21	DT	LIC	JACKSON, MS	BLCDT20081126ALZ	139.2
	WFIQ	D22	DT	LIC	FLORENCE, AL	BLEDT20060718ACG	377.8
	WCOV-TV	D22	DT	CP	MONTGOMERY, AL	BLANK0000072324	297.6
	KWBJ-CD	D22	DC	LIC	MORGAN CITY, LA	BLDTA20090512AAZ	265.5
	WTNO-LP	D22	DC	LIC	NEW ORLEANS, LA	BLANK0000001586	181.1
	KDCG-CD	D22	DC	LIC	OPELOUSAS, LA	BLDTA20140813AAQ	285.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
26564.1	484,721	26245.7	482,253	25945.7	478,304	25941.6	478,304	0.02	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
WEEL-LD D22 LD APP	10.1	0			4.0	0
WAPT D21 DT LIC	127.4	1,642	127.4	1,642	127.4	1,642
WFIQ D22 DT LIC	2.0	0	0.0	0	0.0	0
WCOV-TV D22 DT CP	130.7	1,188	128.7	1,188	124.6	1,188
KWBJ-CD D22 DC LIC	2.0	1	0.0	0	0.0	0
WTNO-LP D22 DC LIC	41.0	1,099	39.0	1,098	39.0	1,098
KDCG-CD D22 DC LIC	1.0	20	1.0	20	1.0	20

Interference to BNPDTL20100512AIH CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W22EP-D	D22	LD	CP	STARKVILLE, MS	BNPDTL20100512AIH	
Undesireds:	WEEL-LD	D22	LD	APP	TUSCALOOSA, AL	WEEL_Ch22_Omni	67.9 km
	WFIQ	D22	DT	LIC	FLORENCE, AL	BLEDT20060718ACG	155.1
	WHLT	D22	DT	LIC	HATTIESBURG, MS	BLANK0000068599	231.3
	W23FD-D	D23	LD	CP	STARKVILLE, MS	BLANK0000071801	0.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
2440.1	58,376	2421.2	58,361	2173.9	52,649	2110.5	51,826	2.92	1.56

Undesired	Total IX		Unique IX, before		Unique IX, after	
WEEL-LD D22 LD APP	105.2	1,717			63.5	823
WFIQ D22 DT LIC	42.8	647	37.8	639	34.8	639
WHLT D22 DT LIC	6.0	8	0.0	0	0.0	0
W23FD-D D23 LD CP	205.5	5,069	203.5	5,065	168.8	4,177

Interference to BLANK0000001646 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WVUA-CD	D23	DC	LIC	TUSCALOOSA/NORTHPORT, AL	BLANK0000001646	
Undesireds:	WEEL-LD	D22	LD	APP	TUSCALOOSA, AL	WEEL_Ch22_Omni	54.5 km
	WDPM-DT	D23	DT	LIC	MOBILE, AL	BLCDT20090420AAD	283.4
	WOIL-CD	D23	DC	CP	TALLADEGA, AL	BLANK0000034660	124.7
	WBXA-CD	D24	DC	LIC	BIRMINGHAM, AL	BLANK0000001638	75.0
	WMDN	D24	DT	APP	MERIDIAN, MS	BLANK0000035927	143.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
7879.3	243,203	7648.2	239,686	7624.3	238,741	7591.4	238,665	0.43	0.03

Undesired	Total IX		Unique IX, before		Unique IX, after	
WEEL-LD D22 LD APP	32.9	76			32.9	76
WDPM-DT D23 DT LIC	1.0	0	1.0	0	1.0	0
WOIL-CD D23 DC CP	22.9	945	22.9	945	22.9	945

Interference to proposal scenario 1
11.94% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WEEL-LD	D22	LD	APP	TUSCALOOSA, AL	WEEL_Ch22_Omni	
Undesireds:	WFIQ	D22	DT	LIC	FLORENCE, AL	BLEDT20060718ACG	153.8 km
	WCOV-TV	D22	DT	CP	MONTGOMERY, AL	BLANK0000072324	227.9
	WSWH-LD	D22	LD	CP	TUSCALOOSA, AL	BLANK0000029897	123.3
	WHLT	D22	DT	LIC	HATTIESBURG, MS	BLANK0000068599	228.3
	W22EP-D	D22	LD	CP	STARKVILLE, MS	BNPDTL20100512AIH	67.9
	WVUA-CD	D23	DC	LIC	TUSCALOOSA/NORTHPORT, AL	BLANK0000001646	54.5

Service area		Terrain-limited		IX-free		Percent IX	
6924.9	102,492	6796.5	99,474	6483.8	87,594	4.60	11.94

Undesired	Total IX		Unique IX		Prcnt Unique IX	
WFIQ D22 DT LIC	139.5	4,270	62.8	312	0.92	0.31
WCOV-TV D22 DT CP	70.7	3,127	2.0	0	0.03	0.00
WSWH-LD D22 LD CP	90.7	2,990	0.0	0	0.00	0.00
WHLT D22 DT LIC	35.9	1,480	6.9	6	0.10	0.01
W22EP-D D22 LD CP	24.8	930	22.8	930	0.34	0.93
WVUA-CD D23 DC LIC	204.2	10,567	98.6	5,407	1.45	5.44