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

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: WJDO_Ch29_Omni_Pre, Model: Longley-Rice
Start: 2019.05.31 14:29:27

Study created: 2019.05.31 13:47:36

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

    Proposal: WJDO-LD D29 LD APP MACON, GA
 File number: WJDO_Ch29_Omni
 Facility ID: 182012
Station data: User record
   Record ID: 964
     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	W14CQ	N14+	TX	LIC	VIDALIA, GA	BLTT20040915ADW	117.3 km
No	WMCF-TV	D28	DT	CP	MONTGOMERY, AL	BLANK0000042300	249.8
No	WFDY-LD	D28	LD	APP	ALBANY, GA	BLANK0000073539	143.2
No	WJBF	D28	DT	CP	AUGUSTA, GA	BLANK0000028403	176.6
No	WJEA-LD	D28	LD	CP	AUGUSTA, GA	BNPDTL20100401AAG	144.3
No	WDWW-LD	D28	LD	LIC	CLEVELAND, GA	BLANK0000013970	137.6
No	WDWW-LD	D28	LD	CP	CLEVELAND, GA	BLANK0000058319	137.6
No	W28ER-D	D28	LD	CP	COLUMBUS, GA	BNPDTL20090825BAW	128.1
Yes	W42DU-D	D28	LD	CP	LA GRANGE, GA	BLANK0000053057	49.1
No	W08EG-D	D28	LD	CP	TOCCOA, GA	BLANK0000053814	207.1
No	WTGS	D28	DT	LIC	HARDEEVILLE, SC	BLCDT20090706AEU	222.9
No	WBRC	D29	DT	CP	BIRMINGHAM, AL	BLANK0000034162	312.2
No	WQMK-LD	D29	LD	CP	CUSSETA, AL	BLANK0000053343	161.7
No	W43DG-D	D29	LD	APP	DOTHAN, AL	BLANK0000071839	248.1
No	WBIH	D29	DT	LIC	SELMA, AL	BLCDT20090619AAY	307.8
No	WMJN-LD	D29	LD	LIC	Somerville, AL	BLDTL20150126ABT	361.4
No	WFBD	D29	DT	CP	DESTIN, FL	BLANK0000027353	356.2
No	WGFL	D29	DT	CP	HIGH SPRINGS, FL	BLANK0000034417	359.7
No	W29EK-D	D29	LD	CP	MADISON, FL	BNPDTL20100513ALL	267.9
No	WECP-LD	D29	LD	LIC	PANAMA CITY, FL	BLANK0000001670	318.1
No	WQXT-CD	D29	DC	CP	ST. AUGUSTINE, FL	BLANK0000028538	378.4
No	W29EQ-D	D29	LD	CP	TALLAHASSEE, FL	BNPDTL20090825AVU	250.7
No	W48DU-D	D29	LD	CP	ALBANY, GA	BLANK0000052013	154.9
No	W29ED-D	D29	LD	CP	ASHBURN, GA	BNPDTL20100510ABD	112.7
No	W29DN-D	D29	LD	LIC	ATHENS, GA	BLDTL20140221ACE	122.8
No	W29DN-D	D29	LD	CP	ATHENS, GA	BPDTL20140228AEM	161.3
Yes	WYGA-CD	D29	DC	CP	ATLANTA, GA	BLANK0000030674	132.8
Yes	WANN-CD	D29	DC	LIC	ATLANTA, GA	BLDTA20120402AMZ	137.6
Yes	WDZC-LD	D29	LD	CP	AUGUSTA, GA	BMPDTL20140528ACZ	144.3
Yes	W43CW-D	D29	LD	CP	COLUMBUS, GA	BLANK0000052929	124.7
No	W29EN-D	D29	LD	CP	SOPERTON, GA	BNPDTL20100510AHF	111.3
No	W41DI-D	D29	LD	CP	BAT CAVE, ETC., NC	BLANK0000053440	320.1
No	W41DI-D	D29	LD	LIC	BAT CAVE, ETC., NC	BLANK0000073778	320.1
No	W08AO-D	D29	LD	APP	CANTON, NC	BDISDTT20090928ACC	318.6
No	W29DE-D	D29	LD	LIC	HAYESVILLE, NC	BLDTT20090210AAS	251.1
No	W08BF-D	D29	LD	APP	SPRUCE PINE, NC	BDISDTT20091001AKH	372.4
No	W29EC-D	D29	LD	CP	FLORENCE, SC	BNPDTL20100409ABX	382.5
No	WAZS-LD	D29	LD	LIC	NORTH CHARLESTON, SC	BLDTL20100916ADH	323.6
No	WSQY-LP	D29	LD	CP	SPARTANBURG, SC	BLANK0000059067	265.4
No	WRJA-TV	D29	DT	CP	SUMTER, SC	BLANK0000025019	330.4
No	WTCI	D29	DT	LIC	CHATTANOOGA, TN	BLANK0000001535	315.4
No	WKOP-TV	D29	DT	CP	KNOXVILLE, TN	BLANK0000024513	362.2
No	W30BD	N30z	TX	LIC	EUFAULA, AL	BLTTL19960628JF	177.3

No	WGIQ	D30	DT	LIC	LOUISVILLE, AL	BLANK0000067031	210.2
Yes	WLGA	D30	DT	LIC	OPELIKA, AL	BLCDT20140827ABB	124.7
No	WBUD-LD	D30	LD	CP	Atlanta, GA	BLANK0000071622	137.6
No	WTBS-LD	D30	LD	LIC	ATLANTA, GA	BLDTL20110105ABR	137.6
No	WAGT-CD	D30	DC	LIC	AUGUSTA, GA	BLANK0000063630	176.6
No	WMGT-TV	D30	DT	CP	MACON, GA	BLANK0000026604	0.0
No	W30DW-D	D30	LD	LIC	TIFTON, GA	BLDTT20141124ARP	150.4
No	WYFF	D30	DT	CP	GREENVILLE, SC	BLANK0000034525	276.6

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

```
    Channel: D29
       Mask: Full Service
   Latitude:  32 45 13.00 N (NAD83)
  Longitude:  83 33 46.00 W
Height AMSL: 189.3 m
       HAAT: 0.0 m
   Peak ERP: 15.0 kW
    Antenna: Omnidirectional
Elev Pattrn: Generic
```

50.2 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	64.4 m	38.5 km
45.0	15.0	63.3	38.4
90.0	15.0	51.1	36.0
135.0	15.0	71.3	39.6
180.0	15.0	111.1	44.8
225.0	15.0	89.7	42.3
270.0	15.0	86.5	41.9
315.0	15.0	75.3	40.2

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 77 m

Distance to Canadian border: 994.8 km

Distance to Mexican border: 1495.7 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 319.1 degrees Distance: 163.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 299.1 degrees Distance: 2095.9 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 BLANK0000053057 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W42DU-D	D28	LD	CP	LA GRANGE, GA	BLANK0000053057	
Undesireds:	WJDO-LD	D29	LD	APP	MACON, GA	WJDO_Ch29_Omni	49.1 km
	WAGA-TV	D27	DT	LIC	ATLANTA, GA	BLCDT20060728AEL	90.3
	WMCF-TV	D28	DT	CP	MONTGOMERY, AL	BLANK0000042300	221.8
	WJBF	D28	DT	CP	AUGUSTA, GA	BLANK0000028403	201.0
	WDWW-LD	D28	LD	LIC	CLEVELAND, GA	BLANK0000013970	91.5
	WELF-TV	D28	DT	CP	DALTON, GA	BLANK0000026361	238.9
	W29DN-D	D29	LD	LIC	ATHENS, GA	BLDTL20140221ACE	111.7

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
6778.9	431,807	6670.0	429,946	6324.8	398,462	6273.8	393,050	0.81	1.36

Undesired	Total IX		Unique IX, before		Unique IX, after	
WJDO-LD D29 LD APP	62.0	6,332			51.0	5,412
WAGA-TV D27 DT LIC	14.9	1,151	1.0	57	1.0	57
WMCF-TV D28 DT CP	24.9	406	7.0	14	7.0	14
WJBF D28 DT CP	97.8	3,109	62.9	1,986	55.9	1,066
WDWW-LD D28 LD LIC	262.4	29,209	228.6	27,563	228.6	27,563
WELF-TV D28 DT CP	2.0	0	0.0	0	0.0	0

Interference to BLANK0000053057 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W42DU-D	D28	LD	CP	LA GRANGE, GA	BLANK0000053057	
Undesireds:	WJDO-LD	D29	LD	APP	MACON, GA	WJDO_Ch29_Omni	49.1 km
	WAGA-TV	D27	DT	LIC	ATLANTA, GA	BLCDT20060728AEL	90.3
	WMCF-TV	D28	DT	CP	MONTGOMERY, AL	BLANK0000042300	221.8
	WJBF	D28	DT	CP	AUGUSTA, GA	BLANK0000028403	201.0
	WDWW-LD	D28	LD	CP	CLEVELAND, GA	BLANK0000058319	91.5
	WELF-TV	D28	DT	CP	DALTON, GA	BLANK0000026361	238.9
	W29DN-D	D29	LD	LIC	ATHENS, GA	BLDTL20140221ACE	111.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
6778.9	431,807	6670.0	429,946	6353.6	402,452	6302.6	397,040	0.80	1.34

Undesired	Total IX		Unique IX, before		Unique IX, after	
WJDO-LD D29 LD APP	62.0	6,332			51.0	5,412
WAGA-TV D27 DT LIC	14.9	1,151	1.0	57	1.0	57
WMCF-TV D28 DT CP	24.9	406	7.0	14	7.0	14
WJBF D28 DT CP	97.8	3,109	68.9	2,194	60.9	1,274
WDWW-LD D28 LD CP	226.6	24,943	199.7	23,573	199.7	23,573
WELF-TV D28 DT CP	2.0	0	0.0	0	0.0	0

Interference to BLANK0000030674 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WYGA-CD	D29	DC	CP	ATLANTA, GA	BLANK0000030674	
Undesireds:	WJDO-LD	D29	LD	APP	MACON, GA	WJDO_Ch29_Omni	132.8 km
	WBRC	D29	DT	CP	BIRMINGHAM, AL	BLANK0000034162	227.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
8718.1	4,354,511	8565.7	4,302,173	8544.9	4,297,066	8543.9	4,295,990	0.01	0.03

Undesired	Total IX		Unique IX, before		Unique IX, after	
WJDO-LD D29 LD APP	1.0	1,076			1.0	1,076
WBRC D29 DT CP	20.8	5,107	20.8	5,107	20.8	5,107

Interference to BLDTA20120402AMZ LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WANN-CD	D29	DC	LIC	ATLANTA, GA	BLDTA20120402AMZ	
Undesireds:	WJDO-LD	D29	LD	APP	MACON, GA	WJDO_Ch29_Omni	137.6 km
	WBIH	D29	DT	LIC	SELMA, AL	BLCDT20090619AAY	272.1
	WTCI	D29	DT	LIC	CHATTANOOGA, TN	BLANK0000001535	177.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
9996.9	4,601,452	9834.9	4,571,628	9822.1	4,570,668	9821.1	4,569,875	0.01	0.02

Undesired	Total IX		Unique IX, before		Unique IX, after	
WJDO-LD D29 LD APP	1.0	793			1.0	793
WBIH D29 DT LIC	1.0	65	1.0	65	1.0	65
WTCI D29 DT LIC	11.8	895	11.8	895	11.8	895

Interference to BMPDTL20140528ACZ CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WDZC-LD	D29	LD	CP	AUGUSTA, GA	BMPDTL20140528ACZ	

Undesireds:	WJDO-LD	D29	LD	APP	MACON, GA	WJDO_Ch29_Omni	144.3 km
	WJBF	D28	DT	CP	AUGUSTA, GA	BLANK0000028403	32.5
	WJEA-LD	D28	LD	CP	AUGUSTA, GA	BNPDTL20100401AAG	0.0
	W29DN-D	D29	LD	LIC	ATHENS, GA	BLDTL20140221ACE	106.9
	W41DI-D	D29	LD	CP	BAT CAVE, ETC., NC	BLANK0000053440	234.5
	WAGT-CD	D30	DC	LIC	AUGUSTA, GA	BLANK0000063630	32.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
201.7	57,584	186.8	50,023	66.6	17,899	66.6	17,899	0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
WJDO-LD D29 LD APP	1.0	352			0.0	0
WJBF D28 DT CP	33.8	8,303	0.0	0	0.0	0
WJEA-LD D28 LD CP	120.3	32,124	86.5	23,821	86.5	23,821
WAGT-CD D30 DC LIC	29.8	8,197	0.0	0	0.0	0

Interference to BLANK0000052929 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W43CW-D	D29	LD	CP	COLUMBUS, GA	BLANK0000052929	
Undesireds:	WJDO-LD	D29	LD	APP	MACON, GA	WJDO_Ch29_Omni	124.7 km
	W28ER-D	D28	LD	CP	COLUMBUS, GA	BNPDTL20090825BAW	17.6
	WBRC	D29	DT	CP	BIRMINGHAM, AL	BLANK0000034162	227.9
	WQMK-LD	D29	LD	CP	CUSSETA, AL	BLANK0000053343	66.5
	W43DG-D	D29	LD	APP	DOTHAN, AL	BLANK0000071839	136.2
	W29DN-D	D29	LD	LIC	ATHENS, GA	BLDTL20140221ACE	224.4
	WGIQ	D30	DT	LIC	LOUISVILLE, AL	BLANK0000067031	90.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
6542.8	329,659	6367.6	328,874	6237.1	320,618	6235.1	320,615	0.03	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
WJDO-LD D29 LD APP	6.0	3			2.0	3
W28ER-D D28 LD CP	8.0	6,010	8.0	6,010	8.0	6,010
WBRC D29 DT CP	36.3	67	34.2	67	30.2	67
WQMK-LD D29 LD CP	78.1	2,175	76.1	2,175	76.1	2,175
W43DG-D D29 LD APP	1.0	0	1.0	0	1.0	0
WGIQ D30 DT LIC	9.1	4	9.1	4	9.1	4

Interference to BLCDT20140827ABB LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WLGA	D30	DT	LIC	OPELIKA, AL	BLCDT20140827ABB	
Undesireds:	WJDO-LD	D29	LD	APP	MACON, GA	WJDO_Ch29_Omni	124.7 km
	WANN-CD	D29	DC	LIC	ATLANTA, GA	BLDTA20120402AMZ	170.5
	WIAT	D30	DT	LIC	BIRMINGHAM, AL	BLCDT20021219AAV	228.3
	WGIQ	D30	DT	LIC	LOUISVILLE, AL	BLANK0000067031	90.4
	WAGT-CD	D30	DC	LIC	AUGUSTA, GA	BLANK0000063630	301.3
	WNCF	D31	DT	LIC	MONTGOMERY, AL	BLANK0000001319	187.8
	WDMA-CD	D31	DC	LIC	MACON, GA	BLDTA20140602AAA	119.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
33768.3	947,969	33346.9	939,285	27113.9	810,276	27111.9	810,182	0.01	0.01

Undesired	Total IX		Unique IX, before		Unique IX, after	
WJDO-LD D29 LD APP	8.0	788			2.0	94
WANN-CD D29 DC LIC	80.6	3,719	4.0	332	4.0	332
WIAT D30 DT LIC	331.4	5,137	91.1	1,159	91.1	1,159
WGIQ D30 DT LIC	6130.8	126,980	5818.9	120,176	5813.9	119,823
WAGT-CD D30 DC LIC	2.0	341	1.0	341	0.0	0
WNCF D31 DT LIC	20.1	65	1.0	1	1.0	1
WDMA-CD D31 DC LIC	3.0	151	0.0	0	0.0	0

Interference to proposal scenario 1
2.45% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WJDO-LD	D29	LD	APP	MACON, GA	WJDO_Ch29_Omni	

Undesireds:	WDWW-LD	D28	LD	LIC	CLEVELAND, GA	BLANK0000013970	137.6 km
	W42DU-D	D28	LD	CP	LA GRANGE, GA	BLANK0000053057	49.1
	W29DN-D	D29	LD	LIC	ATHENS, GA	BLDTL20140221ACE	122.8
	WYGA-CD	D29	DC	CP	ATLANTA, GA	BLANK0000030674	132.8
	W43CW-D	D29	LD	CP	COLUMBUS, GA	BLANK0000052929	124.7
	W41DI-D	D29	LD	CP	BAT CAVE, ETC., NC	BLANK0000053440	320.1
	WMGT-TV	D30	DT	CP	MACON, GA	BLANK0000026604	0.0

Service area		Terrain-limited		IX-free		Percent IX	
5191.8	385,401	5092.9	383,940	4697.6	374,546	7.76	2.45

Undesired	Total IX		Unique IX		Prcnt Unique IX	
W42DU-D D28 LD CP	7.0	51	7.0	51	0.14	0.01
W29DN-D D29 LD LIC	16.0	134	11.0	21	0.22	0.01
WYGA-CD D29 DC CP	3.0	48	1.0	0	0.02	0.00
W43CW-D D29 LD CP	4.0	78	3.0	78	0.06	0.02
WMGT-TV D30 DT CP	370.4	9,196	368.4	9,131	7.23	2.38

Interference to proposal scenario 2
2.44% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WJDO-LD	D29	LD	APP	MACON, GA	WJDO_Ch29_Omni	
Undesireds:	WDWW-LD	D28	LD	LIC	CLEVELAND, GA	BLANK0000013970	137.6 km
	W42DU-D	D28	LD	CP	LA GRANGE, GA	BLANK0000053057	49.1
	WYGA-CD	D29	DC	CP	ATLANTA, GA	BLANK0000030674	132.8
	W43CW-D	D29	LD	CP	COLUMBUS, GA	BLANK0000052929	124.7
	W41DI-D	D29	LD	CP	BAT CAVE, ETC., NC	BLANK0000053440	320.1
	WMGT-TV	D30	DT	CP	MACON, GA	BLANK0000026604	0.0

Service area		Terrain-limited		IX-free		Percent IX	
5191.8	385,401	5092.9	383,940	4708.6	374,567	7.55	2.44

Undesired	Total IX		Unique IX		Prcnt Unique IX	
W42DU-D D28 LD CP	7.0	51	7.0	51	0.14	0.01
WYGA-CD D29 DC CP	3.0	48	3.0	48	0.06	0.01
W43CW-D D29 LD CP	4.0	78	4.0	78	0.08	0.02
WMGT-TV D30 DT CP	370.4	9,196	370.4	9,196	7.27	2.40