tvstudy v2.2.2
Database: localhost, Study: WXTX 190 KW, Model: Longley-Rice
Start: 2017.05.31 14:54:37

Study created: 2017.05.31 14:54:29

Study build station data: LMS TV 2017-05-22 (9)

    Proposal: WXTX D24 DT LIC COLUMBUS, GA
 File number: WXTX 190 KW
 Facility ID: 12472
Station data: User record
   Record ID: 328
     Country: U.S.
        Zone: II

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
WOIL-CD	D23	DC	BL	TALLADEGA, AL	DTVBL31649	162.9 km
WKTB-CD	D23	DC	BL	NORCROSS, GA	DTVBL35418	173.6
WPGA-TV	D23	DT	BL	PERRY, GA	DTVBL54728	127.8
WBXA-CD	D24	DC	LIC	BIRMINGHAM, AL	BLANK0000001638	212.8
WHIQ	D24	DT	LIC	HUNTSVILLE, AL	BLANK0000004828	295.5
WSRE	D24	DT	BL	PENSACOLA, FL	DTVBL17611	330.3
WTLF	D24	DT	LIC	TALLAHASSEE, FL	BLCDT20030303ABF	222.9
WPXC-TV	D24	DT	LIC	BRUNSWICK, GA	BLCDT20110426AAQ	348.0
WGTA	D24	DT	LIC	TOCCOA, GA	BLANK0000001315	276.7
W39CA-D	D24	DC	BL	FULTON, MS	DTVBL68910	360.9
WMDN	D24	DT	LIC	MERIDIAN, MS	BLCDT20090304ADW	358.2
WETP-TV	D24	DT	BL	SNEEDVILLE, TN	DTVBL18252	462.7
WAKA	D25	DT	BL	SELMA, AL	DTVBL701	181.8
WATL	D25	DT	LIC	ATLANTA, GA	BLCDT20020716AAH	157.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D24
   Latitude: 32 27 41.00 N (NAD83)
  Longitude: 84 52 43.00 W
Height AMSL: 451.9 m
       HAAT: 343.0 m
   Peak ERP: 190 kW
    Antenna: DIE-TFU-16JTH/VP-R P230 0.0 deg

39.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	39.5 kW	315.2 m	75.9 km
45.0	51.0	323.0	78.2
90.0	190	336.5	89.0
135.0	51.0	342.8	80.1
180.0	39.5	349.3	79.0
225.0	51.0	362.1	81.9
270.0	190	353.0	90.6
315.0	51.0	332.7	79.1

Database HAAT does not agree with computed HAAT
Database HAAT: 343 m   Computed HAAT: 339 m

Proposal service area is within baseline plus 1.0%
Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 1042.6 km

Distance to Mexican border: 1371.6 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 5.2 degrees   Distance: 156.4 km
ERP: 38.3 kW   Field strength: 15.6 dBu, 0.0 mV/m

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 300.9 degrees   Distance: 2005.5 km

Study cell size: 2.00 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 DTVBL31649 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL35418 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL54728 BL, scenario 1
Proposal causes no interference.

Interference to BLANK0000001638 LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WBXA-CD	D24	DC	LIC	BIRMINGHAM, AL	BLANK0000001638	
Undesireds:	WXTX	D24	DT	BL	COLUMBUS, GA	DTVBL12472	212.8 km
	WXTX	D24	DT	LIC	COLUMBUS, GA	WXTX 190 KW	212.8
	WOIL-CD	D23	DC	BL	TALLADEGA, AL	DTVBL31649	56.2
	WVUA-CD	D23	DC	LIC	TUSCALOOSA/NORTHPORT, AL	BLANK0000001646	75.0
	WHIQ	D24	DT	LIC	HUNTSVILLE, AL	BLANK0000004828	141.5
	WSRE	D24	DT	BL	PENSACOLA, FL	DTVBL17611	328.1
	WGTA	D24	DT	LIC	TOCCOA, GA	BLANK0000001315	340.3
	W39CA-D	D24	DC	BL	FULTON, MS	DTVBL68910	148.6
	WMDN	D24	DT	LIC	MERIDIAN, MS	BLCDT20090304ADW	217.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
4027.0	653,779	3336.6	620,149	2797.2	583,694	2797.2	583,694	0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
WXTX D24 DT BL	24.0	695	0.0	0		
WXTX D24 DT LIC	4.0	315			0.0	0
WOIL-CD D23 DC BL	183.7	9,146	91.7	2,553	91.7	2,553
WVUA-CD D23 DC LIC	8.0	266	0.0	0	0.0	0
WHIQ D24 DT LIC	395.5	26,948	259.7	18,864	263.7	18,994
WMDN D24 DT LIC	128.1	12,100	32.1	3,698	32.1	3,698

Interference to BLANK0000004828 LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHIQ	D24	DT	LIC	HUNTSVILLE, AL	BLANK0000004828	
Undesireds:	WXTX	D24	DT	BL	COLUMBUS, GA	DTVBL12472	295.5 km
	WXTX	D24	DT	LIC	COLUMBUS, GA	WXTX 190 KW	295.5
	WOIL-CD	D23	DC	BL	TALLADEGA, AL	DTVBL31649	150.2
	WFLI-TV	D23	DT	BL	CLEVELAND, TN	DTVBL72060	125.5
	WJDE-LD	D23	DC	BL	NASHVILLE, TN	DTVBL61026	160.2
	WBXA-CD	D24	DC	LIC	BIRMINGHAM, AL	BLANK0000001638	141.5
	WGTA	D24	DT	LIC	TOCCOA, GA	BLANK0000001315	289.1
	WNKY	D24	DT	BL	BOWLING GREEN, KY	DTVBL61217	257.3
	W39CA-D	D24	DC	BL	FULTON, MS	DTVBL68910	175.7
	WMDN	D24	DT	LIC	MERIDIAN, MS	BLCDT20090304ADW	334.4
	WETP-TV	D24	DT	BL	SNEEDVILLE, TN	DTVBL18252	353.7
	WUWT-CD	D24	DC	BL	UNION CITY, TN	DTVBL32216	295.7
	WYHB-CD	D25	DC	CP	CHATTANOOGA, TN	BLANK0000024558	125.1
	WJFB	D25	DT	BL	LEBANON, TN	DTVBL7651	158.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
28802.6	1,278,174	27281.4	1,225,940	27089.6	1,221,095	27089.6	1,221,053	-0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
WXTX D24 DT BL	16.0	1,010	16.0	1,010		
WXTX D24 DT LIC	16.0	1,052			16.0	1,052
WOIL-CD D23 DC BL	8.0	417	8.0	417	8.0	417
WFLI-TV D23 DT BL	27.7	979	15.9	624	15.9	624
WGTA D24 DT LIC	12.0	177	12.0	177	12.0	177
WNKY D24 DT BL	24.2	482	24.2	482	24.2	482
W39CA-D D24 DC BL	12.0	60	4.0	0	4.0	0
WMDN D24 DT LIC	76.0	1,227	68.1	1,167	68.1	1,167

WETP-TV D24 DT BL	31.7	623	15.9	256	15.9	256	
WYHB-CD D25 DC CP	11.9	461	4.0	285	4.0	285	

Interference to BLANK0000004828 LIC, scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHIQ	D24	DT	LIC	HUNTSVILLE, AL	BLANK0000004828	
Undesireds:	WXTX	D24	DT	BL	COLUMBUS, GA	DTVBL12472	295.5 km
	WXTX	D24	DT	LIC	COLUMBUS, GA	WXTX 190 KW	295.5
	WOIL-CD	D23	DC	BL	TALLADEGA, AL	DTVBL31649	150.2
	WFLI-TV	D23	DT	BL	CLEVELAND, TN	DTVBL72060	125.5
	WJDE-LD	D23	DC	BL	NASHVILLE, TN	DTVBL61026	160.2
	WBXA-CD	D24	DC	LIC	BIRMINGHAM, AL	BLANK0000001638	141.5
	WGTA	D24	DT	LIC	TOCCOA, GA	BLANK0000001315	289.1
	WNKY	D24	DT	BL	BOWLING GREEN, KY	DTVBL61217	257.3
	W39CA-D	D24	DC	BL	FULTON, MS	DTVBL68910	175.7
	WMDN	D24	DT	LIC	MERIDIAN, MS	BLCDT20090304ADW	334.4
	WETP-TV	D24	DT	BL	SNEEDVILLE, TN	DTVBL18252	353.7
	WUWT-CD	D24	DC	BL	UNION CITY, TN	DTVBL32216	295.7
	WYHB-CD	D25	DC	BL	CHATTANOOGA, TN	DTVBL167588	125.1
	WJFB	D25	DT	BL	LEBANON, TN	DTVBL7651	158.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
28802.6	1,278,174	27281.4	1,225,940	27089.6	1,221,095	27089.6	1,221,053	-0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
WXTX D24 DT BL	16.0	1,010	16.0	1,010		
WXTX D24 DT LIC	16.0	1,052			16.0	1,052
WOIL-CD D23 DC BL	8.0	417	8.0	417	8.0	417
WFLI-TV D23 DT BL	27.7	979	15.9	624	15.9	624
WGTA D24 DT LIC	12.0	177	12.0	177	12.0	177
WNKY D24 DT BL	24.2	482	24.2	482	24.2	482
W39CA-D D24 DC BL	12.0	60	4.0	0	4.0	0
WMDN D24 DT LIC	76.0	1,227	68.1	1,167	68.1	1,167
WETP-TV D24 DT BL	31.7	623	15.9	256	15.9	256
WYHB-CD D25 DC BL	11.9	461	4.0	285	4.0	285

Interference to DTVBL17611 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WSRE	D24	DT	BL	PENSACOLA, FL	DTVBL17611	
Undesireds:	WXTX	D24	DT	BL	COLUMBUS, GA	DTVBL12472	330.3 km
	WXTX	D24	DT	LIC	COLUMBUS, GA	WXTX 190 KW	330.3
	WDPM-DT	D23	DT	LIC	MOBILE, AL	BLCDT20090420AAD	0.0
	WBXA-CD	D24	DC	LIC	BIRMINGHAM, AL	BLANK0000001638	328.1
	WTLF	D24	DT	LIC	TALLAHASSEE, FL	BLCDT20030303ABF	305.6
	WGMB-TV	D24	DT	BL	BATON ROUGE, LA	DTVBL12520	352.9
	W39CA-D	D24	DC	BL	FULTON, MS	DTVBL68910	388.0
	WMDN	D24	DT	LIC	MERIDIAN, MS	BLCDT20090304ADW	216.7
	WAKA	D25	DT	BL	SELMA, AL	DTVBL701	188.2
	WAWD	D25	DT	BL	FORT WALTON BEACH, FL	DTVBL54938	73.1
	WXXV-TV	D25	DT	BL	GULFPORT, MS	DTVBL53517	139.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
33716.0	1,355,168	33636.5	1,354,781	32956.3	1,351,115	32956.3	1,351,115	0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
WXTX D24 DT BL	31.8	95	4.0	47		
WXTX D24 DT LIC	19.8	95			4.0	47
WDPM-DT D23 DT LIC	8.0	96	8.0	96	8.0	96
WGMB-TV D24 DT BL	4.0	14	0.0	0	0.0	0
WMDN D24 DT LIC	568.4	2,693	536.6	2,631	548.5	2,631
WAWD D25 DT BL	20.0	0	20.0	0	20.0	0
WXXV-TV D25 DT BL	79.9	830	79.9	830	79.9	830

Interference to BLCDT20030303ABF LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WTLF	D24	DT	LIC	TALLAHASSEE, FL	BLCDT20030303ABF	
Undesireds:	WXTX	D24	DT	BL	COLUMBUS, GA	DTVBL12472	222.9 km
	WXTX	D24	DT	LIC	COLUMBUS, GA	WXTX 190 KW	222.9
	WYKE-CD	D24	DC	BL	INGLIS/YANKEETOWN, FL	DTVBL63901	256.0
	WSRE	D24	DT	BL	PENSACOLA, FL	DTVBL17611	305.6

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            WPXC-TV   D24   DT  LIC     BRUNSWICK, GA             BLCDT20110426AAQ        258.6

        Service area       Terrain-limited       IX-free, before        IX-free, after    Percent New IX
  5217.1     349,696    5209.1     349,691    5177.1     349,619    5177.1     349,619     0.00     0.00

Undesired                          Total IX     Unique IX, before      Unique IX, after
WXTX D24 DT BL              8.0          29       0.0           0
WXTX D24 DT LIC             4.0          29                       0.0           0
WPXC-TV D24 DT LIC         32.0          72      24.0          43      28.0          43

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Interference to BLCDT20030303ABF LIC, scenario 2

            Call      Chan  Svc Status  City, State               File Number             Distance
Desired:    WTLF      D24   DT  LIC     TALLAHASSEE, FL           BLCDT20030303ABF

Undesireds: WXTX      D24   DT  BL      COLUMBUS, GA              DTVBL12472              222.9 km
            WXTX      D24   DT  LIC     COLUMBUS, GA              WXTX 190 KW             222.9
            WYKE-CD   D24   DC  BL      INGLIS/YANKEETOWN, FL     DTVBL63901              256.0
            WSRE      D24   DT  BL      PENSACOLA, FL             DTVBL17611              305.6
            WPXC-TV   D24   DT  LIC     BRUNSWICK, GA             BLCDT20110426AAQ        258.6

        Service area       Terrain-limited       IX-free, before        IX-free, after    Percent New IX
  5217.1     349,696    5209.1     349,691    5177.1     349,619    5177.1     349,619     0.00     0.00

Undesired                          Total IX     Unique IX, before      Unique IX, after
WXTX D24 DT BL              8.0          29       0.0           0
WXTX D24 DT LIC             4.0          29                       0.0           0
WPXC-TV D24 DT LIC         32.0          72      24.0          43      28.0          43

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Interference to BLCDT20110426AAQ LIC, scenario 1
Proposal causes no interference.

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Interference to BLCDT20110426AAQ LIC, scenario 2
Proposal causes no interference.

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Interference to BLANK0000001315 LIC, scenario 1

            Call      Chan  Svc Status  City, State               File Number             Distance
Desired:    WGTA      D24   DT  LIC     TOCCOA, GA                BLANK0000001315

Undesireds: WXTX      D24   DT  BL      COLUMBUS, GA              DTVBL12472              276.7 km
            WXTX      D24   DT  LIC     COLUMBUS, GA              WXTX 190 KW             276.7
            WKTB-CD   D23   DC  BL      NORCROSS, GA              DTVBL35418              108.4
            WBXA-CD   D24   DC  LIC     BIRMINGHAM, AL            BLANK0000001638         340.3
            WHIQ      D24   DT  LIC     HUNTSVILLE, AL            BLANK0000004828         289.1
            WCNC-TV   D24   DT  BL      CHARLOTTE, NC             DTVBL32326              216.5
            WETP-TV   D24   DT  BL      SNEEDVILLE, TN            DTVBL18252              197.6
            WATL      D25   DT  LIC     ATLANTA, GA               BLCDT20020716AAH        126.0

        Service area       Terrain-limited       IX-free, before        IX-free, after    Percent New IX
 16676.6   1,061,654   15563.1   1,030,538   15463.3   1,019,439   15463.3   1,019,439     0.00     0.00

Undesired                          Total IX     Unique IX, before      Unique IX, after
WXTX D24 DT BL             12.0         715       0.0           0
WXTX D24 DT LIC            12.0         715                       0.0           0
WKTB-CD D23 DC BL          23.9       4,336       0.0           0       0.0           0
WHIQ D24 DT LIC            20.0       3,307       4.0         163       4.0         163
WCNC-TV D24 DT BL          31.9       4,290      15.9         212      15.9         212
WETP-TV D24 DT BL           8.0         296       4.0         188       4.0         188
WATL D25 DT LIC            55.9       6,957      43.9       6,027      43.9       6,027

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Interference to BLANK0000001315 LIC, scenario 2

            Call      Chan  Svc Status  City, State               File Number             Distance
Desired:    WGTA      D24   DT  LIC     TOCCOA, GA                BLANK0000001315

Undesireds: WXTX      D24   DT  BL      COLUMBUS, GA              DTVBL12472              276.7 km
            WXTX      D24   DT  LIC     COLUMBUS, GA              WXTX 190 KW             276.7
            WKTB-CD   D23   DC  BL      NORCROSS, GA              DTVBL35418              108.4
            WBXA-CD   D24   DC  LIC     BIRMINGHAM, AL            BLANK0000001638         340.3
            WHIQ      D24   DT  LIC     HUNTSVILLE, AL            BLANK0000004828         289.1
            WCNC-TV   D24   DT  BL      CHARLOTTE, NC             DTVBL32326              216.5
            WETP-TV   D24   DT  BL      SNEEDVILLE, TN            DTVBL18252              197.6
            WATL      D25   DT  LIC     ATLANTA, GA               BLCDT20020716AAH        126.0
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Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
16676.6	1,061,654	15563.1	1,030,538	15463.3	1,019,439	15463.3	1,019,439	0.00	0.00

Undesired		Total IX	Unique IX, before		Unique IX, after	
WXTX D24 DT BL	12.0	715	0.0	0		
WXTX D24 DT LIC	12.0	715			0.0	0
WKTB-CD D23 DC BL	23.9	4,336	0.0	0	0.0	0
WHIQ D24 DT LIC	20.0	3,307	4.0	163	4.0	163
WCNC-TV D24 DT BL	31.9	4,290	15.9	212	15.9	212
WETP-TV D24 DT BL	8.0	296	4.0	188	4.0	188
WATL D25 DT LIC	55.9	6,957	43.9	6,027	43.9	6,027

Interference to DTVBL68910 BL, scenario 1
Proposal causes no interference.

Interference to BLCDT20090304ADW LIC, scenario 1
Proposal causes no interference.

Interference to DTVBL18252 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL18252 BL, scenario 2
Proposal causes no interference.

Interference to DTVBL701 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL701 BL, scenario 2
Proposal causes no interference.

Interference to BLCDT20020716AAH LIC, scenario 1
Proposal causes no interference.

Interference to BLCDT20020716AAH LIC, scenario 2
Proposal causes no interference.

Interference to proposal, scenario 1
0.68% interference

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WXTX	D24	DT	LIC	COLUMBUS, GA	WXTX 190 KW	
Undesireds:	WOIL-CD	D23	DC	BL	TALLADEGA, AL	DTVBL31649	162.9 km
	WKTB-CD	D23	DC	BL	NORCROSS, GA	DTVBL35418	173.6
	WPGA-TV	D23	DT	BL	PERRY, GA	DTVBL54728	127.8
	WBXA-CD	D24	DC	LIC	BIRMINGHAM, AL	BLANK0000001638	212.8
	WHIQ	D24	DT	LIC	HUNTSVILLE, AL	BLANK0000004828	295.5
	WSRE	D24	DT	BL	PENSACOLA, FL	DTVBL17611	330.3
	WTLF	D24	DT	LIC	TALLAHASSEE, FL	BLCDT20030303ABF	222.9
	WPXC-TV	D24	DT	LIC	BRUNSWICK, GA	BLCDT20110426AAQ	348.0
	WGTA	D24	DT	LIC	TOCCOA, GA	BLANK0000001315	276.7
	W39CA-D	D24	DC	BL	FULTON, MS	DTVBL68910	360.9
	WMDN	D24	DT	LIC	MERIDIAN, MS	BLCDT20090304ADW	358.2
	WAKA	D25	DT	BL	SELMA, AL	DTVBL701	181.8
	WATL	D25	DT	LIC	ATLANTA, GA	BLCDT20020716AAH	157.8

Service area		Terrain-limited		IX-free		Percent IX	
21014.3	696,919	20809.7	693,225	20513.1	688,532	1.43	0.68

Undesired		Total IX		Unique IX		Prcnt Unique IX	
WHIQ D24 DT LIC	164.2	3,519	92.1	1,849	0.44	0.27
WSRE D24 DT BL	20.2	60	12.2	0	0.06	0.00
WPXC-TV D24 DT LIC	20.2	39	12.1	28	0.06	0.00
WGTA D24 DT LIC	160.1	2,650	88.0	917	0.42	0.13
WMDN D24 DT LIC	8.0	45	0.0	0	0.00	0.00
WAKA D25 DT BL	8.0	75	8.0	75	0.04	0.01
WATL D25 DT LIC	4.0	143	0.0	0	0.00	0.00