

tvixstudy.txt -- Printed on 12/7/2017, 1:43:12 PM -- Page 1

tvstudy v2.2.4 (Z2Qqz3)

Database: localhost, Study: WGTB-CD_Ch28_10kW_2km, Model: Longley-Rice

Start: 2017.12.06 16:50:16

Study created: 2017.12.06 16:48:08

Study build station data: LMS TV 2017-12-04 (16)

Proposal: WGTB-CD D28 DC APP CHARLOTTE, NC

File number: 0

Facility ID: 70097

Station data: User record

Record ID: 51

Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Search options:

All post-transition APP, CP, and baseline records excluded

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WUNW	D27	DT	APP	CANTON, NC	BLANK0000035959	160.3 km
No	WUNW	D27	DT	LIC	CANTON, NC	BLEDT20110921AAA	160.3
Yes	WCCB	D27	DT	LIC	CHARLOTTE, NC	BLCDT20020227AAZ	39.6
No	WLFL	D27	DT	LIC	RALEIGH, NC	BLCDT20090612AIF	240.2
No	WKPT-TV	D27	DT	LIC	KINGSPORT, TN	BLANK0000003746	148.1
No	WRDC	D28	DT	LIC	DURHAM, NC	BLCDT20090612AID	239.6
No	WHMC	D28	DT	APP	CONWAY, SC	BLANK0000034492	244.3
No	WTGS	D28	DT	LIC	HARDEEVILLE, SC	BLCDT20090706AEU	369.0
Yes	WRJA-TV	D28	DT	LIC	SUMTER, SC	BLEDT20040805ABA	183.4
No	WXLV-TV	D29	DT	LIC	WINSTON-SALEM, NC	BLCDT20050624ABB	132.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D28

Mask: Full Service

Latitude: 35 21 44.50 N (NAD83)

Longitude: 81 9 18.30 W

Height AMSL: 646.0 m

HAAT: 0.0 m

Peak ERP: 10.0 kW

Antenna: ERI-AL8W-28 (ID 108069) 230.0 deg

Elev Pattn: Generic

50.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	3.65 kW	389.4 m	53.2 km

45.0	0.608	414.3	43.5
90.0	2.60	429.9	52.6
135.0	7.80	421.5	58.8
180.0	9.18	412.9	59.3
225.0	9.84	404.4	59.3
270.0	8.63	378.3	57.4
315.0	8.99	406.3	58.9

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 407 m

Distance to Canadian border: 710.1 km

Distance to Mexican border: 1829.6 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 244.0 degrees Distance: 366.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 291.3 degrees Distance: 2173.4 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 BLCDT20020227AAZ LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCCB	D27	DT	LIC	CHARLOTTE, NC	BLCDT20020227AAZ	
Undesireds:	WGTB-CD	D28	DC	APP	CHARLOTTE, NC	0	39.6 km
	WAGA-TV	D27	DT	LIC	ATLANTA, GA	BLCDT20060728AEL	367.8
	WUNW	D27	DT	APP	CANTON, NC	BLANK0000035959	199.6
	WLFL	D27	DT	LIC	RALEIGH, NC	BLCDT20090612AIF	204.8
	WRDC	D28	DT	LIC	DURHAM, NC	BLCDT20090612AID	204.2
	WRJA-TV	D28	DT	LIC	SUMTER, SC	BLEDT20040805ABA	159.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
32638.9 3,542,464	31870.2 3,489,260	29678.8 3,334,878	29542.2 3,327,059	0.46 0.23

Undesired	Total IX	Unique IX, before	Unique IX, after
WGTB-CD D28 DC APP	208.5 12,136	136.6 7,819	
WAGA-TV D27 DT LIC	39.6 1,350	19.8 533	11.9 170
WUNW D27 DT APP	123.6 9,250	72.0 7,522	64.0 6,928
WLFL D27 DT LIC	2091.7 145,681	2036.0 144,398	1991.8 141,509
WRDC D28 DT LIC	4.0 174	0.0 0	0.0 0
WRJA-TV D28 DT LIC	4.0 27	0.0 0	0.0 0

Interference to BLCDT20020227AAZ LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance	
Desired:	WCCB	D27	DT	LIC	CHARLOTTE, NC	BLCDT20020227AAZ		
Undesireds:	WGTB-CD	D28	DC	APP	CHARLOTTE, NC	0	39.6 km	
	WAGA-TV	D27	DT	LIC	ATLANTA, GA	BLCDT20060728AEL	367.8	
	WUNW	D27	DT	LIC	CANTON, NC	BLEDT20110921AAA	199.6	
	WLFL	D27	DT	LIC	RALEIGH, NC	BLCDT20090612AIF	204.8	
	WRDC	D28	DT	LIC	DURHAM, NC	BLCDT20090612AID	204.2	
	WRJA-TV	D28	DT	LIC	SUMTER, SC	BLEDT20040805ABA	159.8	
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
32638.9	3,542,464	31870.2	3,489,260	29678.8	3,334,878	29542.2	3,327,059	0.46 0.23
Undesired				Total IX	Unique IX, before		Unique IX, after	
WGTB-CD	D28	DC	APP	208.5	12,136		136.6	7,819
WAGA-TV	D27	DT	LIC	39.6	1,350		11.9	170
WUNW	D27	DT	LIC	123.6	9,250		64.0	6,928
WLFL	D27	DT	LIC	2091.7	145,681		1991.8	141,509
WRDC	D28	DT	LIC	4.0	174		0.0	0
WRJA-TV	D28	DT	LIC	4.0	27		0.0	0

Interference to BLED20040805ABA LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	WRJA-TV	D28	DT	LIC	SUMTER, SC	BLEDT20040805ABA			
Undesireds:	WGTB-CD	D28	DC	APP	CHARLOTTE, NC	0	183.4 km		
	WRDC	D28	DT	LIC	DURHAM, NC	BLCDT20090612AID	254.8		
	WHMC	D28	DT	APP	CONWAY, SC	BLANK0000034492	107.5		
	WTGS	D28	DT	LIC	HARDEEVILLE, SC	BLCDT20090706AEU	227.1		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent	New IX
22652.3	1,112,110	22556.5	1,106,055	17439.0	872,067	17431.1	872,054	0.05	0.00
Undesired				Total IX	Unique IX, before		Unique IX, after		
WGTB-CD	D28	DC	APP	55.9	1,524	8.0		13	
WRDC	D28	DT	LIC	239.0	2,781	15.9		128	
WHMC	D28	DT	APP	5093.6	233,784	4846.4	230,011	4830.5	229,978
WTGS	D28	DT	LIC	40.1	1,470	4.0	32	4.0	32

Interference to proposal scenario 1

**MX: 4.45% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WGTB-CD	D28	DC	APP	CHARLOTTE, NC	0	
Undesireds:	WCCB	D27	DT	LIC	CHARLOTTE, NC	BLCDT20020227AAZ	39.6 km
	WRDC	D28	DT	LIC	DURHAM, NC	BLCDT20090612AID	239.6

WHMC	D28	DT	APP	CONWAY, SC	BLANK0000034492	244.3
WRJA-TV	D28	DT	LIC	SUMTER, SC	BLEDT20040805ABA	183.4
Service area		Terrain-limited		IX-free		Percent IX
9687.4	2,058,992	9599.1	2,050,385	9246.2	1,959,204	3.68 4.45
Undesired		Total IX		Unique IX		Prcnt Unique IX
WCCB D27 DT LIC		324.8	89,257	296.8	86,860	3.09 4.24
WRDC D28 DT LIC		44.1	2,852	12.0	255	0.13 0.01
WHMC D28 DT APP		16.1	1,669	8.0	1,170	0.08 0.06
WRJA-TV D28 DT LIC		16.1	927	0.0	0	0.00 0.00