tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: Aug33d9kwELTI90T, Model: Longley-Rice
Start: 2021.08.02 08:48:30

Study created: 2021.08.02 08:48:30

Study build station data: LMS TV 2021-07-31

    Proposal: W50EP-D D33 LD APP AUGUSTA, GA
 Facility ID: 185711
Station data: User record
   Record ID: 210
     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	WSB-TV	D32	DT	LIC	ATLANTA, GA	BLANK0000153268	196.6 km
No	W32FE-D	D32	LD	LIC	HARTWELL & ROYSTON, GA	BLANK0000153394	111.4
No	W32FN-D	D32	LD	CP	MACON, GA	BLANK0000071800	144.3
No	WAXN-TV	D32	DT	LIC	KANNAPOLIS, NC	BLANK0000146859	243.1
No	WJWJ-TV	D32	DT	LIC	BEAUFORT, SC	BLANK0000100564	170.4
No	WPXH-TV	D33	DT	LIC	HOOVER, AL	BLANK0000105366	420.9
No	WFRZ-LD	D33	LD	LIC	MONTGOMERY, AL	BLANK0000081666	385.7
No	WDFX-TV	D33	DT	CP	OZARK, AL	BLANK0000035653	403.3
No	WDFX-TV	D33	DT	LIC	OZARK, AL	BLCDT20050915APH	403.3
No	WUJF-LD	D33	LD	LIC	JACKSONVILLE, FL	BLDTL20130306ADL	361.6
No	W33EN-D	D33	LD	CP	MADISON, FL	BNPDTL20090825AHE	361.1
No	WNXG-LD	D33	LD	LIC	TALLAHASSEE, FL	BLANK0000129630	371.0
No	W33DK-D	D33	LD	CP	ADEL, GA	BNPDTL20100510ABL	293.6
No	WIRE-CD	D33	DC	LIC	ATLANTA, GA	BLANK0000130086	196.1
No	WJCN-LD	D33	LD	LIC	LAGRANGE, GA	BLDTL20130411AAA	261.4
No	WGNM	D33	DT	LIC	MACON, GA	BLANK0000113679	144.3
No	WDID-LD	D33	LD	LIC	SAVANNAH, GA	BLANK0000106516	177.4
No	W33DY-D	D33	LD	CP	SOPERTON, GA	BNPDTL20100510AHG	118.2

No	WKHA	D33	DT	LIC	HAZARD, KY	BLANK0000075043	421.1
No	W33EH-D	D33	LD	LIC	BLACK MOUNTAIN, NC	BLANK0000082269	232.3
No	WTNG-CD	D33	DC	LIC	LUMBERTON-PEMBROKE, NC	BLANK0000081109	320.6
No	W33EI-D	D33	LD	LIC	RALEIGH, NC	BLANK0000125022	401.4
No	WILT-LD	D33	LD	LIC	WILMINGTON, NC	BLANK0000081348	402.5
No	WUNL-TV	D33	DT	LIC	WINSTON-SALEM, NC	BLANK0000121301	365.1
Yes	WRLK-TV	D33	DT	LIC	COLUMBIA, SC	BLANK0000111852	141.7
No	W33DN-D	D33	LD	CP	FLORENCE, SC	BLANK0000138316	251.7
No	WNGS-LD	D33	LD	LIC	GREENVILLE, SC	BLANK0000059653	162.9
No	WQHI-LD	D33	LD	CP	MYRTLE BEACH, SC	BLANK0000139414	298.5
No	WPDP-CD	D33-	DC	LIC	CLEVELAND, TN	BLANK0000081661	284.0
No	WKXT-LD	D33	LD	CP	Knoxville, TN	BLANK0000108601	319.4
No	WATC-DT	D34	DT	LIC	ATLANTA, GA	BLANK0000107129	212.5
Yes	W34FO-D	D34	LD	CP	AUGUSTA, GA	BLANK0000071806	20.5
No	WSST-TV	D34	DT	LIC	CORDELE, GA	BLANK0000064103	227.7
No	W48EJ-D	D34	LD	APP	MONTROSE, GA	BLANK0000154775	145.4
No	W34FV-D	D34	LD	CP	SOPERTON, GA	BLANK0000151564	179.0
No	W34FT-D	D34	LD	CP	WASHINGTON, GA	BNPDTL20090825BXG	53.0
No	WGWG	D34	DT	LIC	CHARLESTON, SC	BLCDT20060630ADJ	246.5
No	WNSC-TV	D34	DT	LIC	ROCK HILL, SC	BLANK0000105822	189.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

```
    Channel: D33
       Mask: Stringent
   Latitude:  33 28 49.00 N (NAD83)
  Longitude:  82 15 55.00 W
Height AMSL: 146.9 m (Adjusted based on actual ground elevation calculation)
       HAAT: 0.0 m
   Peak ERP: 9.00 kW
    Antenna: ELTI-ELTI UHF Panel (ID 1008435) 90.0 deg
Elev Pattrn: Generic
```

50.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.008 kW	44.6 m	6.2 km
45.0	1.93	59.5	27.4
90.0	9.00	23.7	27.4
135.0	1.81	33.1	20.8
180.0	0.007	14.0	5.1
225.0	0.068	9.8	8.8
270.0	0.022	9.1	6.7
315.0	0.049	34.0	8.5

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 28 m

Distance to Canadian border: 911.1 km

Distance to Mexican border: 1640.0 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 281.3 degrees Distance: 231.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 296.5 degrees Distance: 2165.0 km

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 BLANK0000111852 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WRLK-TV	D33	DT	LIC	COLUMBIA, SC	BLANK0000111852	

Undesireds:	W50EP-D	D33	LD	APP	AUGUSTA, GA		141.7 km
	WAXN-TV	D32	DT	LIC	KANNAPOLIS, NC	BLANK0000146859	128.5
	WGNM	D33	DT	LIC	MACON, GA	BLANK0000113679	286.0
	WTNG-CD	D33	DC	LIC	LUMBERTON-PEMBROKE, NC	BLANK0000081109	179.7
	WUNL-TV	D33	DT	LIC	WINSTON-SALEM, NC	BLANK0000121301	256.0
	WNSC-TV	D34	DT	LIC	ROCK HILL, SC	BLANK0000105822	80.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
24484.0	1,229,293	24384.1	1,228,420	23468.1	1,191,653	23404.8	1,188,882	0.27	0.23

Undesired	Total IX		Unique IX, before		Unique IX, after	
W50EP-D D33 LD APP	93.0	4,023			63.3	2,771
WAXN-TV D32 DT LIC	61.1	2,430	1.0	10	1.0	10
WGNM D33 DT LIC	37.7	1,450	32.7	1,432	4.0	181
WTNG-CD D33 DC LIC	39.2	2,066	26.1	1,865	25.1	1,864
WUNL-TV D33 DT LIC	234.7	5,966	122.5	2,475	122.5	2,475
WNSC-TV D34 DT LIC	699.6	29,902	613.4	27,334	613.4	27,334

Interference to BLANK0000071806 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W34FO-D	D34	LD	CP	AUGUSTA, GA	BLANK0000071806	
Undesireds:	W50EP-D	D33	LD	APP	AUGUSTA, GA		20.5 km
	WATC-DT	D34	DT	LIC	ATLANTA, GA	BLANK0000107129	227.5
	WXVK-LD	D34z	LD	LIC	Columbus, GA	BLANK0000115071	289.9
	WSST-TV	D34	DT	LIC	CORDELE, GA	BLANK0000064103	220.3
	W34FV-D	D34	LD	LIC	SOPERTON, GA	BLANK0000151230	168.7
	W34FT-D	D34	LD	CP	WASHINGTON, GA	BNPDTL20090825BXG	71.1
	WPEM-LD	D34	LD	LIC	LUMBERTON, NC	BLANK0000121677	325.4
	WGWG	D34	DT	LIC	CHARLESTON, SC	BLCDT20060630ADJ	233.7
	WNSC-TV	D34	DT	LIC	ROCK HILL, SC	BLANK0000105822	199.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
4407.7	434,897	4354.2	431,259	4319.4	427,991	4289.6	421,658	0.69	1.48

Undesired		Total IX	Unique IX, before		Unique IX, after	
W50EP-D D33 LD APP	31.7	6,496			29.8	6,333
WATC-DT D34 DT LIC	6.0	79	0.0	0	0.0	0
WSST-TV D34 DT LIC	1.0	127	0.0	0	0.0	0
W34FT-D D34 LD CP	7.9	530	6.9	494	6.9	494
WGWG D34 DT LIC	7.9	233	2.0	63	2.0	63
WNSC-TV D34 DT LIC	24.8	2,668	16.9	2,505	16.9	2,505

Interference to proposal scenario 1
5.14% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W50EP-D	D33	LD	APP	AUGUSTA, GA		
Undesireds:	WGNM	D33	DT	LIC	MACON, GA	BLANK0000113679	144.3 km
	WRLK-TV	D33	DT	LIC	COLUMBIA, SC	BLANK0000111852	141.7
	W34FO-D	D34	LD	CP	AUGUSTA, GA	BLANK0000071806	20.5

Service area		Terrain-limited		IX-free		Percent IX	
835.4	286,183	788.7	262,396	744.1	248,904	5.66	5.14

Undesired	Total IX		Unique IX		Prcnt Unique IX	
WGNM D33 DT LIC	33.7	8,455	29.7	7,663	3.77	2.92
WRLK-TV D33 DT LIC	12.9	5,756	8.9	4,964	1.13	1.89
W34FO-D D34 LD CP	2.0	73	2.0	73	0.25	0.03