tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: Aug20d15kwELTI10F, Model: Longley-Rice
Start: 2021.08.01 09:50:36

Study created: 2021.08.01 09:50:36

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

    Proposal: W44DF-D D20 LD APP AUGUSTA, GA
 Facility ID: 185709
Station data: User record
   Record ID: 201
     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	WGCL-TV	D19	DT	LIC	ATLANTA, GA	BLANK0000152289	195.3 km
Yes	W19DO-D	D19	LD	CP	AUGUSTA, GA	BNPDTL20100421ABO	0.0
No	WBPI-CD	D19	DC	LIC	AUGUSTA, GA	BLANK0000059661	30.4
No	W19DN-D	D19	LD	CP	MACON, GA	BLANK0000036282	145.3
No	WSOC-TV	D19	DT	LIC	CHARLOTTE, NC	BLANK0000146857	243.1
No	WCSC-TV	D19	DT	LIC	CHARLESTON, SC	BLANK0000054856	246.5
No	WABM	D20	DT	LIC	BIRMINGHAM, AL	BLANK0000123838	421.0
No	WJJN-LD	D20	LD	LIC	DOTHAN, AL	BLANK0000122171	384.1
No	W20EP-D	D20	LD	CP	TROY, AL	BLANK0000071948	378.0
No	WCWJ	D20	DT	LIC	JACKSONVILLE, FL	BLANK0000097952	362.7
No	W20ET-D	D20	LD	CP	MADISON, FL	BNPDTL20090825AHV	361.1
Yes	W20EQ-D	D20	LD	CP	ATHENS, GA	BNPDTL20090825AJQ	66.6
No	WANN-CD	D20	DC	LIC	ATLANTA, GA	BLANK0000092680	195.3
No	WSB-TV	D20	LD	CP	ATLANTA, GA	BLANK0000137675	163.7
No	W20DZ-D	D20	LD	CP	BYRON, GA	BNPDTL20100510AFP	167.2
No	WDNN-CD	D20	DC	LIC	DALTON, GA	BLANK0000098043	289.0
No	WCGZ-LD	D20	LD	LIC	LA GRANGE, GA	BLANK0000125138	280.9
No	W20DL-D	D20	LD	CP	MACON, GA	BNPDTL20100205ACG	145.0

No	WHDS-LD	D20	LD	LIC	SAVANNAH, GA	BLANK0000101192	192.0
No	WCTV	D20	DT	LIC	THOMASVILLE, GA	BLANK0000121784	349.9
No	DW20CY	D20	LD	APP	TIFTON, GA	BDFCDTL20091118AGP	254.6
No	W20EC-D	D20	LD	CP	VIDALIA, GA	BDCCDTL20121001AGL	122.2
Yes	W20EK-D	D20	LD	LIC	ANDREWS, ETC, NC	BLANK0000120275	242.3
Yes	WUNF-TV	D20	DD	LIC	ASHEVILLE, NC	BLANK0000093577	195.4
No	WUNC-TV	D20	DT	LIC	CHAPEL HILL, NC	BLANK0000138116	388.0
No	WDMC-LD	D20	LD	CP	CHARLOTTE, NC	BLANK0000054923	244.5
No	WCBD-TV	D20	DT	LIC	CHARLESTON, SC	BLANK0000081288	246.4
No	W20DH-D	D20	LD	CP	FLORENCE, SC	BNPDTL20100409ABW	243.7
No	WPBA	D21	DT	LIC	ATLANTA, GA	BLANK0000143418	194.1
No	W43DF-D	D21	LD	APP	MACON, GA	BLANK0000154639	145.4
No	WUNG-TV	D21	DT	LIC	CONCORD, NC	BLANK0000113063	258.1
Yes	WEBA-TV	D21	DT	LIC	ALLENDALE, SC	BLANK0000145391	86.9

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

```
    Channel: D20
       Mask: Full Service
   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: 15.0 kW
    Antenna: ELTI-ELTI UHF Panel (ID 1008435) 10.0 deg
Elev Pattrn: Generic
```

49.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	13.7 kW	44.6 m	34.8 km
45.0	5.68	59.5	34.1
90.0	0.041	23.7	8.3
135.0	0.117	33.1	11.2
180.0	0.029	14.0	7.7

225.0	0.062	9.8	9.3
270.0	0.016	9.1	6.7
315.0	1.59	34.0	21.8

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

No land mobile station failures found

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 BNPDTL20100421ABO CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W19DO-D	D19	LD	CP	AUGUSTA, GA	BNPDTL20100421ABO	
Undesireds:	W44DF-D	D20	LD	APP	AUGUSTA, GA		0.0 km
	WIEF-LD	D18	LD	LIC	AUGUSTA, GA	BLANK0000096704	40.1
	WGCL-TV	D19	DT	LIC	ATLANTA, GA	BLANK0000152289	195.3

	WBPI-CD	D19	DC	LIC	AUGUSTA, GA	BLANK0000059661	30.4
	WSOC-TV	D19	DT	LIC	CHARLOTTE, NC	BLANK0000146857	243.1
	WCSC-TV	D19	DT	LIC	CHARLESTON, SC	BLANK0000054856	246.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
1300.8	352,849	1257.2	341,959	350.3	92,135	346.3	91,757	1.13	0.41

Undesired		Total IX	Unique IX, before		Unique IX, after	
W44DF-D D20 LD APP	15.9	705			4.0	378
WIEF-LD D18 LD LIC	100.3	27,575	0.0	0	0.0	0
WGCL-TV D19 DT LIC	164.8	42,988	6.9	3,153	6.9	3,153
WBPI-CD D19 DC LIC	898.0	246,290	733.1	200,653	721.2	200,326
WSOC-TV D19 DT LIC	13.9	7,533	0.0	0	0.0	0
WCSC-TV D19 DT LIC	10.9	9,157	0.0	0	0.0	0

Interference to BNPDTL20090825AJQ CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W20EQ-D	D20	LD	CP	ATHENS, GA	BNPDTL20090825AJQ	
Undesireds:	W44DF-D	D20	LD	APP	AUGUSTA, GA		66.6 km
	WANN-CD	D20	DC	LIC	ATLANTA, GA	BLANK0000092680	134.1
	WSB-TV	D20	LD	CP	ATLANTA, GA	BLANK0000137675	97.4
	W20DL-D	D20	LD	CP	MACON, GA	BNPDTL20100205ACG	130.2
	WUNF-TV	D20	DD	LIC	ASHEVILLE, NC	BLANK0000093577	163.2
	WCBD-TV	D20	DT	LIC	CHARLESTON, SC	BLANK0000081288	310.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
4468.7	51,594	4401.5	51,124	3204.1	31,801	3186.3	31,691	0.56	0.35

Undesired		Total IX	Unique IX, before		Unique IX, after	
W44DF-D D20 LD APP	39.6	268			17.8	110
WANN-CD D20 DC LIC	15.8	31	4.0	5	4.0	5
WSB-TV D20 LD CP	5.9	43	1.0	43	1.0	43
W20DL-D D20 LD CP	1.0	0	0.0	0	0.0	0
WUNF-TV D20 DD LIC	1190.4	19,217	1175.6	19,191	1154.8	19,091
WCBD-TV D20 DT LIC	2.0	58	1.0	58	0.0	0

Interference to BLANK0000120275 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W20EK-D	D20	LD	LIC	ANDREWS, ETC, NC	BLANK0000120275	
Undesireds:	W44DF-D	D20	LD	APP	AUGUSTA, GA		242.3 km
	W19DB-D	D19	LD	LIC	FRANKLIN, NC	BLANK0000144222	21.6
	W20EQ-D	D20	LD	CP	ATHENS, GA	BNPDTL20090825AJQ	184.0
	WANN-CD	D20	DC	LIC	ATLANTA, GA	BLANK0000092680	168.7
	WSB-TV	D20	LD	CP	ATLANTA, GA	BLANK0000137675	125.9
	WDNN-CD	D20	DC	LIC	DALTON, GA	BLANK0000098043	125.6
	WUNF-TV	D20	DD	LIC	ASHEVILLE, NC	BLANK0000093577	113.2
	WZTV	D20	DT	LIC	NASHVILLE, TN	BLANK0000115725	292.7
	W21DV-D	D21	LD	LIC	BRYSON CITY, NC	BLANK0000080638	37.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
13785.2	415,692	7891.9	148,489	7636.8	144,781	7636.8	144,781	0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
W44DF-D D20 LD APP	2.0	0			0.0	0
W19DB-D D19 LD LIC	77.7	1,460	38.8	824	38.8	824
W20EQ-D D20 LD CP	12.0	102	1.0	0	1.0	0
WANN-CD D20 DC LIC	14.0	129	1.0	0	1.0	0
WSB-TV D20 LD CP	39.1	170	26.1	0	26.1	0
WDNN-CD D20 DC LIC	10.9	116	5.0	0	5.0	0
WUNF-TV D20 DD LIC	64.7	1,186	36.8	422	36.8	422
WZTV D20 DT LIC	8.0	156	3.0	40	3.0	40
W21DV-D D21 LD LIC	117.4	2,017	74.6	947	74.6	947

Interference to BLANK0000093577 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WUNF-TV	D20	DD	LIC	ASHEVILLE, NC	BLANK0000093577	
Undesireds:	W44DF-D	D20	LD	APP	AUGUSTA, GA		195.4 km

	WSOC-TV	D19	DT	LIC	CHARLOTTE, NC	BLANK0000146857	165.5
	WKPZ-CD	D19	DC	LIC	KINGSPORT, TN	BLANK0000001584	145.1
	WANN-CD	D20	DC	LIC	ATLANTA, GA	BLANK0000092680	227.2
	WUNC-TV	D20	DT	LIC	CHAPEL HILL, NC	BLANK0000138116	314.2
	WCBD-TV	D20	DT	LIC	CHARLESTON, SC	BLANK0000081288	365.1
	WUNG-TV	D21	DT	LIC	CONCORD, NC	BLANK0000113063	176.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
33909.2	2,335,691	28146.2	2,073,216	27813.4	2,058,657	27785.3	2,057,978	0.10	0.03

Undesired		Total IX	Unique IX, before		Unique IX, after	
W44DF-D D20 LD APP	42.0	802			28.0	679
WSOC-TV D19 DT LIC	20.8	892	7.9	776	7.9	776
WKPZ-CD D19 DC LIC	25.3	1,440	23.2	1,440	23.2	1,440
WANN-CD D20 DC LIC	42.0	285	40.9	285	29.9	243
WUNC-TV D20 DT LIC	255.8	12,035	234.9	11,515	231.9	11,434
WCBD-TV D20 DT LIC	1.0	27	0.0	0	0.0	0
WUNG-TV D21 DT LIC	16.9	419	3.0	4	3.0	4

Interference to BLANK0000093577 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WUNF-TV	D20	DD	LIC	ASHEVILLE, NC	BLANK0000093577	
Undesireds:	W44DF-D	D20	LD	APP	AUGUSTA, GA		195.4 km
	WSOC-TV	D19	DT	LIC	CHARLOTTE, NC	BLANK0000146857	165.5
	WKPZ-CD	D19	DC	LIC	KINGSPORT, TN	BLANK0000001597	145.1
	WANN-CD	D20	DC	LIC	ATLANTA, GA	BLANK0000092680	227.2
	WUNC-TV	D20	DT	LIC	CHAPEL HILL, NC	BLANK0000138116	314.2
	WCBD-TV	D20	DT	LIC	CHARLESTON, SC	BLANK0000081288	365.1
	WUNG-TV	D21	DT	LIC	CONCORD, NC	BLANK0000113063	176.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
33909.2	2,335,691	28146.2	2,073,216	27813.4	2,058,657	27785.3	2,057,978	0.10	0.03

Undesired		Total IX	Unique IX, before	Unique IX, after
W44DF-D D20 LD APP	42.0	802		28.0 679

WSOC-TV D19 DT LIC	20.8	892	7.9	776	7.9	776
WKPZ-CD D19 DC LIC	25.3	1,440	23.2	1,440	23.2	1,440
WANN-CD D20 DC LIC	42.0	285	40.9	285	29.9	243
WUNC-TV D20 DT LIC	255.8	12,035	234.9	11,515	231.9	11,434
WCBD-TV D20 DT LIC	1.0	27	0.0	0	0.0	0
WUNG-TV D21 DT LIC	16.9	419	3.0	4	3.0	4

Interference to BLANK0000145391 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WEBA-TV	D21	DT	LIC	ALLENDALE, SC	BLANK0000145391	
Undesireds:	W44DF-D	D20	LD	APP	AUGUSTA, GA		86.9 km
	WPBA	D21	DT	LIC	ATLANTA, GA	BLANK0000143418	279.7
	WUNG-TV	D21	DT	LIC	CONCORD, NC	BLANK0000113063	251.9
	WUNJ-TV	D21	DT	LIC	WILMINGTON, NC	BLANK0000126699	318.8
	WJCL	D22	DT	LIC	SAVANNAH, GA	BLANK0000029019	125.7
	WACH	D22	DT	LIC	COLUMBIA, SC	BLANK0000093772	118.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
14824.0	640,701	14776.4	637,113	14656.3	628,093	14656.3	628,093	0.00	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
W44DF-D D20 LD APP	5.0	1,580				0.0	0
WPBA D21 DT LIC	30.7	4,678	13.9	3,050	11.9	1,515	
WUNG-TV D21 DT LIC	55.5	4,352	28.7	2,659	28.7	2,659	
WUNJ-TV D21 DT LIC	3.0	0	0.0	0	0.0	0	
WJCL D22 DT LIC	24.0	191	24.0	191	24.0	191	
WACH D22 DT LIC	33.7	1,492	26.7	1,427	26.7	1,427	

Interference to proposal scenario 1
34.24% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W44DF-D	D20	LD	APP	AUGUSTA, GA		

Undesireds:	W19DO-D	D19	LD	CP	AUGUSTA, GA	BNPDTL20100421ABO	0.0 km
	WBPI-CD	D19	DC	LIC	AUGUSTA, GA	BLANK0000059661	30.4
	W20EQ-D	D20	LD	CP	ATHENS, GA	BNPDTL20090825AJQ	66.6
	WUNF-TV	D20	DD	LIC	ASHEVILLE, NC	BLANK0000093577	195.4
	WCBD-TV	D20	DT	LIC	CHARLESTON, SC	BLANK0000081288	246.4

Service area		Terrain-limited		IX-free		Percent IX	
1246.3	107,963	1223.6	107,690	843.3	70,818	31.08	34.24

Undesired		Total IX		Unique IX		Prcnt Unique IX	
W19DO-D D19 LD CP	53.6	21,827	30.8	10,837	2.51	10.06	
WBPI-CD D19 DC LIC	152.5	24,672	86.2	12,013	7.04	11.16	
W20EQ-D D20 LD CP	35.7	2,657	1.0	19	0.08	0.02	
WUNF-TV D20 DD LIC	244.5	7,113	165.3	1,247	13.51	1.16	
WCBD-TV D20 DT LIC	5.0	1,512	0.0	0	0.00	0.00	