tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: Macon21d9kwELTI0T, Model: Longley-Rice
Start: 2021.07.29 16:43:51

Study created: 2021.07.29 16:43:51

Study build station data: LMS TV 2021-07-29

    Proposal: W43DF-D D21 LD APP MACON, GA
 Facility ID: 185793
Station data: User record
   Record ID: 135
     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	W23FE-D	N14+	TX	LIC	Savannah, GA	BLTT20040915ADW	116.8 km
No	W20EQ-D	D20	LD	CP	ATHENS, GA	BNPDTL20090825AJQ	130.6
No	WANN-CD	D20	DC	LIC	ATLANTA, GA	BLANK0000092680	138.1
No	WSB-TV	D20	LD	CP	ATLANTA, GA	BLANK0000137675	155.5
No	W20DZ-D	D20	LD	CP	BYRON, GA	BNPDTL20100510AFP	22.0
No	WCGZ-LD	D20	LD	LIC	LA GRANGE, GA	BLANK0000125138	148.5
Yes	W20DL-D	D20	LD	CP	MACON, GA	BNPDTL20100205ACG	0.3
No	WCTV	D20	DT	LIC	THOMASVILLE, GA	BLANK0000121784	233.8
No	DW20CY	D20	LD	APP	TIFTON, GA	BDFCDTL20091118AGP	145.3
No	W20EC-D	D20	LD	CP	VIDALIA, GA	BDCCDTL20121001AGL	133.6
No	WAUT-LD	D21	LD	CP	AUBURN, AL	BLANK0000151644	178.4
No	WDHN	D21	DT	LIC	DOTHAN, AL	BLCDT20090303ACR	235.3
No	WTTO	D21	DT	LIC	HOMEWOOD, AL	BLANK0000125337	313.1
No	WETU-LD	D21	LD	LIC	MONTGOMERY, AL	BLANK0000132463	259.7
No	WPAN	D21	DT	LIC	FORT WALTON BEACH, FL	BLANK0000124712	428.4
No	W21DN-D	D21	LD	CP	GREENVILLE, FL	BNPDTL20100513ALK	258.7
No	WJEB-TV	D21	DT	LIC	JACKSONVILLE, FL	BLANK0000105949	333.6
No	NEW	D21	LD	APP	TALLAHASSE, FL	BNPDTL20090825AMO	233.2

No	W21EH-D	D21	LD	APP	TALLAHASSEE, FL	BNPDTL20090825AJC	262.0
Yes	WPBA	D21	DT	LIC	ATLANTA, GA	BLANK0000143418	133.4
No	WANX-LP	D21+	LD	CP	COLUMBUS, GA	BLANK0000071786	134.3
No	WKSY-LD	D21	LD	LIC	SUMMERVILLE/TRION, GA	BLDTL20100104AAD	249.8
No	W21EL-D	D21	LD	CP	VALDOSTA, GA	BLANK0000137428	216.3
No	W21DV-D	D21	LD	LIC	BRYSON CITY, NC	BLANK0000080638	292.9
No	WUNG-TV	D21	DT	LIC	CONCORD, NC	BLANK0000113063	397.3
No	WEBA-TV	D21	DT	LIC	ALLENDALE, SC	BLANK0000145391	207.5
No	W14CX-D	D21	LD	CP	KNOXVILLE, TN	BLANK0000051769	362.7
No	WCOV-TV	D22	DT	LIC	MONTGOMERY, AL	BLANK0000115937	259.0
No	WTWC-TV	D22	DT	LIC	TALLAHASSEE, FL	BLANK0000118579	233.2
No	W22EA-D	D22	LD	CP	COLUMBUS, GA	BNPDTL20100423ACH	139.9
No	W22EC-D	D22	LD	CP	LA GRANGE, GA	BMPDTL20110721ABG	156.7
Yes	W22EJ-D	D22	LD	CP	MACON, GA	BMPDTL20130515ACS	0.6
No	WHSG-TV	D22	DT	LIC	MONROE, GA	BLANK0000081582	133.3
No	WJCL	D22	DT	LIC	SAVANNAH, GA	BLANK0000029019	222.2
No	WCTD-LP	D22	LD	CP	DUCKTOWN, TN	BDFCDTL20110829AAE	221.4

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

```
    Channel: D21
       Mask: Stringent
   Latitude:  32 44 57.00 N (NAD83)
  Longitude:  83 33 36.00 W
Height AMSL: 103.0 m
       HAAT: 0.0 m
   Peak ERP: 9.00 kW
    Antenna: ELTI-ELTI UHF Panel (ID 1008435) 0.0 deg
Elev Pattrn: Generic
```

49.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	9.00 kW	-20.1 m	28.6 km
45.0	1.81	-31.4	21.2

90.0	0.007	-32.5	5.4
135.0	0.068	-14.1	9.4
180.0	0.022	25.0	7.2
225.0	0.049	5.8	8.7
270.0	0.008	-6.6	5.5
315.0	1.93	-8.0	21.5

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: -10 m

Distance to Canadian border: 995.3 km

Distance to Mexican border: 1495.8 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 319.2 degrees Distance: 164.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 299.2 degrees Distance: 2096.4 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 BNPDTL20100205ACG CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W20DL-D	D20	LD	CP	MACON, GA	BNPDTL20100205ACG	

Undesireds:	W43DF-D	D21	LD	APP	MACON, GA		0.3 km
	WGCL-TV	D19	DT	LIC	ATLANTA, GA	BLANK0000152289	138.1
	W19DN-D	D19	LD	CP	MACON, GA	BLANK0000036282	0.3
	WANN-CD	D20	DC	LIC	ATLANTA, GA	BLANK0000092680	138.1
	W20DZ-D	D20	LD	CP	BYRON, GA	BNPDTL20100510AFP	22.3
	WCTV	D20	DT	LIC	THOMASVILLE, GA	BLANK0000121784	234.1
	WUNF-TV	D20	DD	LIC	ASHEVILLE, NC	BLANK0000093577	289.9
	WANX-LP	D21+	LD	CP	COLUMBUS, GA	BLANK0000071786	134.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
3074.2	214,352	3055.2	214,289	2912.3	212,291	2910.3	212,291	0.07	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
W43DF-D D21 LD APP	20.0	182			2.0	0
W19DN-D D19 LD CP	75.1	1,094	49.0	556	38.0	376
WANN-CD D20 DC LIC	16.0	277	8.0	170	8.0	170
W20DZ-D D20 LD CP	36.0	911	9.0	373	9.0	373
WCTV D20 DT LIC	36.9	201	26.9	108	26.9	108
WUNF-TV D20 DD LIC	18.0	251	12.0	55	12.0	55

Interference to BLANK0000143418 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WPBA	D21	DT	LIC	ATLANTA, GA	BLANK0000143418	
Undesireds:	W43DF-D	D21	LD	APP	MACON, GA		133.4 km
	WANN-CD	D20	DC	LIC	ATLANTA, GA	BLANK0000092680	5.4
	WDNN-CD	D20	DC	LIC	DALTON, GA	BLANK0000098043	125.1
	WDHN	D21	DT	LIC	DOTHAN, AL	BLCDT20090303ACR	294.5
	WTTO	D21	DT	LIC	HOMEWOOD, AL	BLANK0000125337	230.8
	WEBA-TV	D21	DT	LIC	ALLENDALE, SC	BLANK0000145391	279.7
	WUXP-TV	D21	DT	LIC	NASHVILLE, TN	BLANK0000115726	357.2
	WHSG-TV	D22	DT	LIC	MONROE, GA	BLANK0000081582	2.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
18936.3	5,310,713	18631.1	5,293,473	16890.0	5,045,308	16864.1	5,045,009	0.15	0.01

Undesired		Total IX		Unique IX, before		Unique IX, after	
W43DF-D D21 LD APP	41.8	367				25.9	299
WANN-CD D20 DC LIC	556.7	94,097	260.3	47,701	257.3	47,690	
WDNN-CD D20 DC LIC	23.2	824	6.0	203	6.0	203	
WDHN D21 DT LIC	57.7	2,886	11.9	171	9.0	153	
WTTO D21 DT LIC	517.3	51,326	316.0	31,687	316.0	31,687	
WEBA-TV D21 DT LIC	68.6	2,485	23.8	503	22.8	503	
WUXP-TV D21 DT LIC	26.0	3,214	2.0	92	2.0	92	
WHSG-TV D22 DT LIC	1035.3	164,684	662.2	107,268	661.2	107,268	

Interference to BMPDTL20130515ACS CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W22EJ-D	D22	LD	CP	MACON, GA	BMPDTL20130515ACS	
Undesireds:	W43DF-D	D21	LD	APP	MACON, GA		0.6 km
	WCOV-TV	D22	DT	LIC	MONTGOMERY, AL	BLANK0000115937	258.9
	WTWC-TV	D22	DT	LIC	TALLAHASSEE, FL	BLANK0000118579	233.6
	WHSG-TV	D22	DT	LIC	MONROE, GA	BLANK0000081582	132.8
	WJCL	D22	DT	LIC	SAVANNAH, GA	BLANK0000029019	222.6
	WCTD-LP	D22	LD	CP	DUCKTOWN, TN	BDFCDTL20110829AAE	220.8
	WPGA-TV	D23	DT	LIC	PERRY, GA	BLANK0000116580	0.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
3222.0	336,675	3196.0	336,464	2668.9	321,034	2667.9	321,031	0.04	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
W43DF-D D21 LD APP	1.0	3				1.0	3
WCOV-TV D22 DT LIC	3.0	0	0.0	0	0.0	0	
WTWC-TV D22 DT LIC	21.0	367	5.0	82	5.0	82	
WHSG-TV D22 DT LIC	201.8	4,057	136.8	3,282	136.8	3,282	
WJCL D22 DT LIC	15.0	278	1.0	139	1.0	139	
WPGA-TV D23 DT LIC	366.4	11,741	312.3	11,040	312.3	11,040	

Interference to proposal scenario 1
50.77% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W43DF-D	D21	LD	APP	MACON, GA		
Undesireds:	W20DL-D	D20	LD	CP	MACON, GA	BNPDTL20100205ACG	0.3 km
	WDHN	D21	DT	LIC	DOTHAN, AL	BLCDT20090303ACR	235.3
	WPBA	D21	DT	LIC	ATLANTA, GA	BLANK0000143418	133.4
	WANX-LP	D21+	LD	CP	COLUMBUS, GA	BLANK0000071786	134.3
	WEBA-TV	D21	DT	LIC	ALLENDALE, SC	BLANK0000145391	207.5
	W22EJ-D	D22	LD	CP	MACON, GA	BMPDTL20130515ACS	0.6

Service area		Terrain-limited		IX-free		Percent IX	
785.5	116,364	667.7	112,258	310.8	55,270	53.45	50.77

Undesired	Total IX		Unique IX		Prcnt Unique IX	
W20DL-D D20 LD CP	287.8	55,441	51.0	10,618	7.63	9.46
WDHN D21 DT LIC	53.0	1,158	1.0	52	0.15	0.05
WPBA D21 DT LIC	43.0	768	1.0	32	0.15	0.03
WANX-LP D21+ LD CP	4.0	10	0.0	0	0.00	0.00
WEBA-TV D21 DT LIC	5.0	317	0.0	0	0.00	0.00
W22EJ-D D22 LD CP	299.9	45,972	55.0	1,053	8.24	0.94