tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: Macon21d9kwinceltiat0fA1, Model: Longley-Rice
Start: 2022.05.02 04:40:42

Study created: 2022.05.02 04:40:42

Study build station data: LMS TV 2022-05-02

    Proposal: W21EN-D D21 LD CP MACON, GA
 Facility ID: 185793
Station data: User record
   Record ID: 2018
     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	W31FE-D	N14+	TX	LIC	Savannah, GA	BLTT20040915ADW	116.7 km
No	W20EQ-D	D20	LD	CP	ATHENS, GA	BNPDTL20090825AJQ	130.2
No	WANN-CD	D20	DC	LIC	ATLANTA, GA	BLANK0000092680	138.1
No	WSB-TV	D20	LD	CP	ATLANTA, GA	BLANK0000137675	155.3
No	W20EW-D	D20	LD	CP	AUGUSTA, GA	BLANK0000155481	145.0
No	WCGZ-LD	D20	LD	LIC	LA GRANGE, GA	BLANK0000125138	148.8
No	WCGZ-LD	D20	LD	CP	LA GRANGE, GA	BLANK0000185946	141.1
Yes	W20DL-D	D20	LD	CP	MACON, GA	BNPDTL20100205ACG	0.0
No	WCTV	D20	DT	LIC	THOMASVILLE, GA	BLANK0000121784	234.1
No	DW20CY	D20	LD	APP	TIFTON, GA	BDFCDTL20091118AGP	145.5
No	WAUT-LD	D21	LD	LIC	AUBURN, AL	BLANK0000179315	178.6
No	WDHN	D21	DT	LIC	DOTHAN, AL	BLCDT20090303ACR	235.7
No	WTTO	D21	DT	LIC	HOMEWOOD, AL	BLANK0000125337	313.3
No	WETU-LD	D21	LD	LIC	MONTGOMERY, AL	BLANK0000132463	260.0
No	WPAN	D21	DT	LIC	FORT WALTON BEACH, FL	BLANK0000124712	428.8
No	WJEB-TV	D21	DT	LIC	JACKSONVILLE, FL	BLANK0000105949	333.7
No	W21EH-D	D21	LD	CP	TALLAHASSEE, FL	BNPDTL20090825AJC	262.3
Yes	WABE-TV	D21	DT	LIC	ATLANTA, GA	BLANK0000143418	133.3
No	DWANX-LP	D21+	LD	APP	COLUMBUS, GA	BLANK0000071786	134.6
No	WKSY-LD	D21	LD	LIC	SUMMERVILLE/TRION, GA	BLDTL20100104AAD	249.8
No	W21EL-D	D21	LD	LIC	VALDOSTA, GA	BLANK0000177717	231.6

No	W21DV-D	D21	LD	LIC	BRYSON CITY, NC	BLANK0000080638	292.7
No	WUNG-TV	D21	DT	LIC	CONCORD, NC	BLANK0000113063	397.0
No	WEBA-TV	D21	DT	LIC	ALLENDALE, SC	BLANK0000145391	207.2
No	W14CX-D	D21	LD	CP	KNOXVILLE, TN	BLANK0000051769	362.5
No	WCOV-TV	D22	DT	LIC	MONTGOMERY, AL	BLANK0000115937	259.3
No	WTWC-TV	D22	DT	LIC	TALLAHASSEE, FL	BLANK0000118579	233.5
No	W22EC-D	D22	LD	CP	LA GRANGE, GA	BMPDTL20110721ABG	156.9
No	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	222.0
No	WCTD-LD	D22	LD	LIC	DUCKTOWN, TN	BLANK0000185309	221.2

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: Full Service
   Latitude:  32 45  4.30 N (NAD83)
  Longitude:  83 33 26.70 W
Height AMSL: 107.4 m
       HAAT: 0.0 m
   Peak ERP: 9.00 kW
    Antenna: ELTI-ELTI UHF Panel (ID 1008435) 0.0 deg
Elev Pattrn: Generic
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49.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	9.00 kW	-17.0 m	28.6 km
45.0	1.81	-26.3	21.2
90.0	0.007	-29.7	5.4
135.0	0.068	-9.6	9.4
180.0	0.022	29.2	7.2
225.0	0.049	11.4	8.7
270.0	0.008	1.5	5.5
315.0	1.93	-2.4	21.5

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: -5 m

Distance to Canadian border: 995.1 km

Distance to Mexican border: 1496.1 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 319.1 degrees Distance: 164.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 299.1 degrees Distance: 2096.5 km

No land mobile station failures found

Study cell size: 1.00 km
Profile point spacing: 0.10 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:	W21EN-D	D21	LD	CP	MACON, GA		0.0 km
	W19DN-D	D19	LD	LIC	MACON, GA	BLANK0000179078	0.3
	W20EQ-D	D20	LD	CP	ATHENS, GA	BNPDTL20090825AJQ	130.2
	WANN-CD	D20	DC	LIC	ATLANTA, GA	BLANK0000092680	138.1
	WCGZ-LD	D20	LD	LIC	LA GRANGE, GA	BLANK0000125138	148.8
	WCTV	D20	DT	LIC	THOMASVILLE, GA	BLANK0000121784	234.1
	WUNF-TV	D20	DD	LIC	ASHEVILLE, NC	BLANK0000093577	289.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX

3074.2	214,352	3047.2	214,055	2950.3	212,694	2949.3	212,694	0.03	0.00

Undesired	Total IX	Unique IX, before		Unique IX, after	
W21EN-D D21 LD CP	2.0	0		1.0	0
W19DN-D D19 LD LIC	53.1	976	53.1	976	52.1	976
W20EQ-D D20 LD CP	3.0	0	0.0	0	0.0	0
WANN-CD D20 DC LIC	10.0	50	6.0	50	6.0	50
WCTV D20 DT LIC	28.9	258	22.9	193	22.9	193
WUNF-TV D20 DD LIC	15.0	142	8.0	77	8.0	77

Interference to BLANK0000143418 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WABE-TV	D21	DT	LIC	ATLANTA, GA	BLANK0000143418	
Undesireds:	W21EN-D	D21	LD	CP	MACON, GA		133.3 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	BLANK0000159943	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	18633.9	5,289,132	17849.9	5,165,688	17847.9	5,165,688	0.01	0.00

Undesired	Total IX	Unique IX, before		Unique IX, after	
W21EN-D D21 LD CP	3.0	0		2.0	0
WANN-CD D20 DC LIC	197.4	44,383	102.6	30,185	102.6	30,185
WDNN-CD D20 DC LIC	9.1	409	1.0	92	1.0	92
WDHN D21 DT LIC	32.8	1,968	12.9	1,023	12.9	1,023
WTTO D21 DT LIC	258.6	31,772	195.8	25,586	195.8	25,586
WEBA-TV D21 DT LIC	48.6	1,849	30.7	1,038	30.7	1,038
WUXP-TV D21 DT LIC	18.0	2,368	2.0	0	2.0	0
WHSG-TV D22 DT LIC	387.3	62,111	284.4	45,951	284.4	45,951

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Interference to proposal scenario 1
32.94% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W21EN-D	D21	LD	CP	MACON, GA		
Undesireds:	W20DL-D	D20	LD	CP	MACON, GA	BNPDTL20100205ACG	0.0 km
	WDHN	D21	DT	LIC	DOTHAN, AL	BLCDT20090303ACR	235.7
	WABE-TV	D21	DT	LIC	ATLANTA, GA	BLANK0000143418	133.3
	W22EJ-D	D22	LD	CP	MACON, GA	BMPDTL20130515ACS	0.6

Service area		Terrain-limited		IX-free		Percent IX	
786.5	112,874	738.6	111,143	589.6	74,534	20.17	32.94

Undesired	Total IX		Unique IX		Prcnt Unique IX	
W20DL-D D20 LD CP	111.0	36,353	12.0	4,207	1.62	3.79
WDHN D21 DT LIC	3.0	201	0.0	0	0.00	0.00
WABE-TV D21 DT LIC	5.0	272	0.0	0	0.00	0.00
W22EJ-D D22 LD CP	136.0	32,402	38.0	256	5.15	0.23