tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: Vald23d15kwELTI270T, Model: Longley-Rice
Start: 2021.08.13 13:44:38

Study created: 2021.08.13 13:44:38

Study build station data: LMS TV 2021-08-13

    Proposal: W23FI-D D23 LD APP VALDOSTA, GA
 Facility ID: 186179
Station data: User record
   Record ID: 374
     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	WUBF-LD	D22	LD	LIC	JACKSONVILLE, FL	BLANK0000068178	167.4 km
No	WFGZ-LD	D22	LD	LIC	LAKE CITY, FL	BLANK0000117656	125.7
No	WFGZ-LD	D22	LD	CP	LAKE CITY, FL	BLANK0000130103	169.1
No	WTWC-TV	D22	DT	LIC	TALLAHASSEE, FL	BLANK0000118579	69.0
No	WJCL	D22	DT	LIC	SAVANNAH, GA	BLANK0000029019	229.0
No	W22ER-D	D22	LD	CP	VALDOSTA, GA	BNPDTL20100510ACB	0.0
No	WRGX-LD	D23	LD	LIC	DOTHAN, AL	BLDTL20130531ATB	236.3
No	WDPM-DT	D23	DT	LIC	MOBILE, AL	BLCDT20090420AAD	415.3
No	WQAP-LD	D23	LD	LIC	MONTGOMERY, AL	BLANK0000115788	348.2
No	WOIL-CD	D23	DC	LIC	TALLADEGA, AL	BLANK0000110450	399.5
No	WKCF	D23	DT	LIC	CLERMONT, FL	BLANK0000143772	325.7
No	WKBJ-LD	D23	LD	LIC	Jacksonville, FL	BLANK0000108066	173.9
No	W23FJ-D	D23	LD	CP	JENNINGS, FL	BLANK0000155519	28.6
No	DW23AQ	N23-	TX	APP	LAKE CITY, FL	BLTT19931215JE	88.1
No	W23FF-D	D23	LD	CP	MADISON, FL	BNPDTL20090825AHQ	52.0
No	K23OY-D	D23	LD	CP	PANAMA CITY, FL	BNPDTL20090825ASZ	224.7
No	WSVT-LD	D23	LD	LIC	TAMPA, FL	BLANK0000130246	347.4
No	W23DV-D	D23	LD	CP	ATHENS, GA	BMPDTL20140522AGK	331.1

No	WAAU-LD	D23	LD	LIC	AUGUSTA, GA	BLDTL20120522AFJ	318.1
No	W23EV-D	D23	LD	LIC	CARROLLTON, GA	BLANK0000125385	346.7
No	W23FA-D	D23	LD	CP	COLUMBUS, GA	BLANK0000071972	250.2
No	WKTB-CD	D23	DC	LIC	NORCROSS, GA	BLANK0000081811	355.3
No	WPGA-TV	D23	DT	LIC	PERRY, GA	BLANK0000116580	216.5
No	W23FE-D	D23+	LD	LIC	Savannah, GA	BLANK0000129913	206.6
No	WTOC-TV	D23	DT	CP	SAVANNAH, GA	BLANK0000149921	227.9
No	WAZS-LD	D23	LD	CP	NORTH CHARLESTON, SC	BLANK0000054749	379.7
No	WYKE-CD	D24	DC	LIC	INGLIS/YANKEETOWN, FL	BLANK0000099919	226.8
Yes	WTLF	D24	DT	CP	TALLAHASSEE, FL	BLANK0000035775	69.0
No	WTLF	D24	DT	LIC	TALLAHASSEE, FL	BLCDT20030303ABF	115.7
No	WPXC-TV	D24	DT	LIC	BRUNSWICK, GA	BLCDT20110426AAQ	145.8
No	WXTX	D24	DT	LIC	COLUMBUS, GA	BLANK0000064021	237.8
No	W24EW-D	D24	LD	CP	MACON, GA	BLANK0000098113	206.4

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

```
    Channel: D23
       Mask: Stringent
   Latitude:  30 49  8.40 N (NAD83)
  Longitude:  83 16  4.80 W
Height AMSL: 72.0 m
       HAAT: 0.0 m
   Peak ERP: 15.0 kW
    Antenna: ELTI-ELTI UHF Panel (ID 1008435) 270.0 deg
Elev Pattrn: Generic
```

49.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.012 kW	13.5 m	6.1 km
45.0	0.114	9.2	10.5
90.0	0.037	18.4	8.0
135.0	0.081	21.4	9.7
180.0	0.013	16.2	6.2

225.0	3.22	16.2	23.7
270.0	15.0	19.3	30.7
315.0	3.02	20.9	23.4

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 17 m

Distance to Canadian border: 1208.0 km

Distance to Mexican border: 1438.3 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 338.4 degrees Distance: 364.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 303.6 degrees Distance: 2231.8 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 BLANK0000035775 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WTLF	D24	DT	CP	TALLAHASSEE, FL	BLANK0000035775	
Undesireds:	W23FI-D	D23	LD	APP	VALDOSTA, GA		69.0 km
	WSRE	D24	DT	LIC	PENSACOLA, FL	BLANK0000090765	347.7
	WWSB	D24	DT	CP	SARASOTA, FL	BLANK0000035646	380.5
	WPXC-TV	D24	DT	LIC	BRUNSWICK, GA	BLCDT20110426AAQ	213.8
	WXTX	D24	DT	LIC	COLUMBUS, GA	BLANK0000064021	215.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
36614.9	859,454	36598.9	859,340	35188.1	853,431	35187.1	853,016	0.00	0.05

Undesired	Total IX		Unique IX, before		Unique IX, after	
W23FI-D D23 LD APP	1.0	415			1.0	415
WSRE D24 DT LIC	94.0	778	83.0	750	83.0	750
WPXC-TV D24 DT LIC	1308.7	5,131	1307.6	5,106	1307.6	5,106
WXTX D24 DT LIC	20.1	53	8.1	0	8.1	0

Interference to proposal scenario 1
40.81% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W23FI-D	D23	LD	APP	VALDOSTA, GA		
Undesireds:	WTWC-TV	D22	DT	LIC	TALLAHASSEE, FL	BLANK0000118579	69.0 km
	W22ER-D	D22	LD	CP	VALDOSTA, GA	BNPDTL20100510ACB	0.0
	W23FF-D	D23	LD	CP	MADISON, FL	BNPDTL20090825AHQ	52.0
	WTOC-TV	D23	DT	CP	SAVANNAH, GA	BLANK0000149921	227.9
	WTLF	D24	DT	CP	TALLAHASSEE, FL	BLANK0000035775	69.0

Service area		Terrain-limited		IX-free		Percent IX	
937.6	83,955	934.5	83,955	669.0	49,689	28.41	40.81

Undesired	Total IX		Unique IX		Prcnt Unique IX	
WTWC-TV D22 DT LIC	101.0	1,513	9.1	85	0.98	0.10
W22ER-D D22 LD CP	149.7	32,863	138.5	32,662	14.82	38.90
W23FF-D D23 LD CP	37.1	384	9.0	66	0.96	0.08
WTOC-TV D23 DT CP	25.0	198	1.0	0	0.11	0.00
WTLF D24 DT CP	96.7	1,313	14.0	21	1.49	0.03

Interference to proposal scenario 2
40.79% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance

Desired:	W23FI-D	D23	LD	APP	VALDOSTA, GA		
Undesireds:	WTWC-TV	D22	DT	LIC	TALLAHASSEE, FL	BLANK0000118579	69.0 km
	W22ER-D	D22	LD	CP	VALDOSTA, GA	BNPDTL20100510ACB	0.0
	W23FF-D	D23	LD	CP	MADISON, FL	BNPDTL20090825AHQ	52.0
	WTOC-TV	D23	DT	CP	SAVANNAH, GA	BLANK0000149921	227.9

Service area		Terrain-limited		IX-free		Percent IX	
937.6	83,955	934.5	83,955	682.9	49,710	26.92	40.79

Undesired		Total IX		Unique IX		Prcnt Unique IX	
WTWC-TV D22 DT LIC	101.0	1,513	53.7	978	5.75	1.16	
W22ER-D D22 LD CP	149.7	32,863	138.5	32,662	14.82	38.90	
W23FF-D D23 LD CP	37.1	384	11.0	70	1.18	0.08	
WTOC-TV D23 DT CP	25.0	198	1.0	0	0.11	0.00	