tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: Columbus36d0,2kwinceltiat150f, Model: Longley-Rice
Start: 2022.01.06 08:52:08

Study created: 2022.01.06 08:52:08

Study build station data: LMS TV 2022-01-06

    Proposal: W36EO-D D36 LD CP COLUMBUS, GA
 Facility ID: 182094
Station data: User record
   Record ID: 1514
     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	WKNI-LP	D35-	LD	CP	ANDALUSIA, AL	BLANK0000054917	195.0 km
No	WOTM-LD	D35	LD	CP	BIRMINGHAM, AL	BLANK0000054796	163.3
No	WAWA-LD	D35	LD	CP	DOTHAN, AL	BLANK0000071951	167.1
No	WEAC-CD	D35	DC	LIC	JACKSONVILLE, AL	BLANK0000112954	119.4
No	WUDC-LD	D35	LD	CP	MONTGOMERY, AL	BNPDTL20091026ABC	104.9
No	K35OX-D	D35	LD	CP	SELMA, AL	BNPDTL20090825AOA	175.9
No	WUVG-DT	D35	LD	LIC	ATHENS, GA	BLANK0000081844	213.1
No	WDTA-LD	D35	LD	LIC	ATLANTA, GA	BLANK0000126643	134.0
No	WLTZ	D35	DT	LIC	COLUMBUS, GA	BLCDT20060627ABT	39.5
No	W35BB-D	D35	LD	LIC	DUBLIN, GA	BLDTL20141230AAP	214.2
No	W35DA-D	D35	LD	CP	MACON, GA	BNPDTL20100309ACC	148.8
No	WTCI	D35	DT	CP	CHATTANOOGA, TN	BLANK0000034751	275.0
No	WTCI	D35	DT	LIC	CHATTANOOGA, TN	BLANK0000144354	275.0
No	WTVY	D36	DT	LIC	DOTHAN, AL	BLCDT20090901AAL	209.4
No	WGOX-LD	D36	LD	LIC	Mobile, AL	BLANK0000169489	342.0
No	WDSF-LD	D36	LD	LIC	MONTGOMERY, AL	BLANK0000098057	125.0
No	WSES	D36	DT	LIC	TUSCALOOSA, AL	BLANK0000123837	228.0
No	WUFT	D36	DT	LIC	GAINESVILLE, FL	BLEDT20040304AAF	426.1
No	W36EA-D	D36	LD	APP	TALLAHASSEE, FL	BLANK0000178850	271.3
No	W36EA-D	D36	LD	CP	TALLAHASSEE, FL	BNPDTL20090825AMB	257.6
No	WGCW-LD	D36	LD	LIC	ALBANY, GA	BLANK0000075337	154.0

No	W36FL-D	D36	LD	CP	ATHENS, GA	BNPDTL20090825AER	240.1
No	WUPA	D36	DT	LIC	ATLANTA, GA	BLANK0000084466	140.9
No	WFXG	D36	DT	LIC	AUGUSTA, GA	BLANK0000081277	317.8
No	WGCB-LD	D36-	LD	LIC	HINESVILLE-RICHMOND, GA	BLANK0000080179	364.0
No	W36FI-D	D36	LD	CP	VALDOSTA, GA	BLANK0000071818	241.8
No	WMAV-TV	D36	DT	LIC	OXFORD, MS	BLEDT20090612AAK	456.3
No	WASV-LD	D36	LD	LIC	ASHEVILLE, NC	BLANK0000108621	390.4
No	WCNT-LP	N36-	TX	LIC	CHATTANOOGA, TN	BLTTL20050908AAJ	296.7
No	WTVF	D36	DT	LIC	NASHVILLE, TN	BLANK0000090378	420.4
No	WTVF	D36	DT	LIC	NASHVILLE, TN	BLANK0000115766	420.4
No	WVLR	D36	DT	LIC	TAZEWELL, TN	BLANK0000097858	415.6

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

```
    Channel: D36
       Mask: Stringent
   Latitude:  32 44  7.60 N (NAD83)
  Longitude:  85  8 54.50 W
Height AMSL: 184.4 m (Adjusted based on actual ground elevation calculation)
       HAAT: 0.0 m
   Peak ERP: 0.200 kW
    Antenna: ELTI-ELTI UHF Panel (ID 1008435) 150.0 deg
Elev Pattrn: Generic
```

50.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.000 kW	-3.3 m	2.8 km
45.0	0.000	-9.3	2.5
90.0	0.014	-19.4	5.9
135.0	0.163	16.8	10.8
180.0	0.098	8.8	9.5
225.0	0.002	-18.7	3.5
270.0	0.002	-34.0	3.4
315.0	0.000	-10.0	2.4

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: -9 m

Distance to Canadian border: 1017.4 km

Distance to Mexican border: 1364.6 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 17.4 degrees Distance: 131.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 300.3 degrees Distance: 1968.2 km

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%

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Interference to proposal scenario 1
7.10% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W36EO-D	D36	LD	CP	COLUMBUS, GA		
Undesireds:	WLTZ	D35	DT	LIC	COLUMBUS, GA	BLCDT20060627ABT	39.5 km
	WTVY	D36	DT	LIC	DOTHAN, AL	BLCDT20090901AAL	209.4
	W36EA-D	D36	LD	APP	TALLAHASSEE, FL	BLANK0000178850	271.3
	WUPA	D36	DT	LIC	ATLANTA, GA	BLANK0000084466	140.9

Service area		Terrain-limited		IX-free		Percent IX	
113.1	3,201	109.1	3,154	99.1	2,930	9.17	7.10

Undesired	Total IX		Unique IX		Prcnt Unique IX	
WLTZ D35 DT LIC	1.0	15	1.0	15	0.92	0.48
WTVY D36 DT LIC	1.0	0	1.0	0	0.92	0.00
WUPA D36 DT LIC	8.0	209	8.0	209	7.34	6.63