Study created: 2018.04.06 16:16:20

Study build station data: LMS TV 2018-03-23 (1)

    Proposal: WGBS-LD D12 LD LIC CARROLLTON, VA
 File number: WGBS12-2.7ND
 Facility ID: 31350
Station data: User record
   Record ID: 6
     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	WTVD	D11	DT	LIC	DURHAM, NC	BMLCDT20120814AAG	236.0 km
No	WVEC	D11	DT	CP	HAMPTON, VA	BLANK0000034747	11.3
No	WHYY-TV	D12	DT	LIC	WILMINGTON, DE	BLEDT20110907ADS	366.6
Yes	WBAL-TV	D12	DT	CP	BALTIMORE, MD	BLANK0000024625	276.2
Yes	WBAL-TV	D12	DT	APP	BALTIMORE, MD	BLANK0000034523	276.2
Yes	WNCT-TV	D12	DT	CP	GREENVILLE, NC	BLANK0000028185	190.6
Yes	WCTI-TV	D12	DT	LIC	NEW BERN, NC	BLCDT20090622ADO	214.3
Yes	WWBT	D12	DT	LIC	RICHMOND, VA	BLCDT20090803ABS	124.5
Yes	WVPT	D12	DD	CP	STAUNTON, VA	BLANK0000028448	298.6
No	WBOY-TV	D12	DT	LIC	CLARKSBURG, WV	BLANK0000003150	440.0
Yes	WWPX-TV	D12	DT	LIC	MARTINSBURG, WV	BLANK0000001691	325.0
No	WWPX-TV	D12	LD	LIC	MARTINSBURG, WV	BLCDT20110708ACQ	240.8
Yes	WSKY-TV	D13	DT	CP	MANTEO, NC	BLANK0000027680	38.1
No	WVEC	D13	DT	LIC	HAMPTON, VA	BLCDT20090612AJJ	11.3

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:

WGPL 1350 L DA2 D PORTSMOUTH, VA BL19810309AT
WGPL 1350 L DA2 N PORTSMOUTH, VA BL19810309AT

Record parameters as studied:

```
    Channel: D12
       Mask: Stringent
   Latitude:  36 51 39.50 N (NAD83)
  Longitude:  76 21 11.80 W
Height AMSL: 120.0 m
       HAAT: 0.0 m
   Peak ERP: 2.70 kW
    Antenna: Omnidirectional
Elev Pattrn: Generic
```

48.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	2.70 kW	119.7 m	47.9 km
45.0	2.70	118.2	47.7
90.0	2.70	116.6	47.5
135.0	2.70	116.0	47.4
180.0	2.70	116.3	47.4
225.0	2.70	116.5	47.5
270.0	2.70	116.1	47.4
315.0	2.70	119.2	47.8

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 117 m

Distance to Canadian border: 692.6 km

Distance to Mexican border: 2288.2 km

Conditions at FCC monitoring station: Laurel MD
Bearing: 351.1 degrees Distance: 259.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 287.2 degrees Distance: 2526.4 km

Study cell size: 0.50 km
Profile point spacing: 0.50 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

**IX check failure to BLCDT20090803ABS LIC scenario 1, 2.76% interference caused

**IX check failure to BLCDT20090803ABS LIC scenario 2, 4.54% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 3, 2.76% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 4, 4.50% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 5, 2.76% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 6, 4.54% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 7, 2.64% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 8, 4.32% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 9, 2.64% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 10, 4.27% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 11, 2.64% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 12, 4.32% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 13, 2.74% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 14, 2.82% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 15, 4.53% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 16, 4.83% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 17, 2.74% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 18, 2.79% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 19, 4.48% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 20, 4.54% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 21, 2.74% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 22, 2.82% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 23, 4.53% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 24, 4.83% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 25, 2.62% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 26, 2.70% interference caused

**IX check failure to BLCDT20090803ABS LIC scenario 27, 4.30% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 28, 4.62% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 29, 2.62% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 30, 2.68% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 31, 4.26% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 32, 4.33% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 33, 2.62% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 34, 2.70% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 35, 4.30% interference caused
**IX check failure to BLCDT20090803ABS LIC scenario 36, 4.62% interference caused

---- Below is IX received by proposal WGBS12-2.7ND ----

Proposal receives 2.71% interference from scenario 1