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tvstudy v2.2.5 (4uoc83)
Database: localhost,  Study: BLANK0000010748_VHF (on 10),  Model: Longley-Rice
Start: 2018.03.31 12:12:41

Study created: 2018.03.31 11:15:22

Study build station data: LMS TV 2018-03-28

    Proposal: WIRP-LD D10 (D2) LD LIC Raleigh, NC
 File number: 0
 Facility ID: 183631
Station data: User record
   Record ID: 39
Country: U.S.

Build options:
Protect baseline records from LPTV

Search options:
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX   Call      Chan       Svc Status  City, State              File Number             Distance
No   WTVI      D9         DT  CP      CHARLOTTE, NC            BLANK0000028208         153.1 km
Yes  WTVD      D9         DT  CP      DURHAM, NC               BLANK0000025609          61.0
No   WJHL-TV   D9         DT  CP      JOHNSON CITY, TN         BLANK0000027557         274.3
No   W10AL-D   D10        LD  LIC     CHEROKEE, ETC., NC       BLDTV20120622ABJ        379.0
No   W10AL-D   N10        TX  CP      CHEROKEE, ETC., NC       BPTTV20120306AAG        379.0
No   W15DY-D   N10        TX  LIC     MARION, ETC., NC         BLTTV19800428IN         257.6
No   W10AD-D   D10        LD  LIC     MONTREAT, NC             BLDTV20120622ABR        288.6
Yes  WCTI-TV   D10        DT  CP      NEW BERN, NC             BLANK0000028166         185.8
No   W10AK-D   D10        LD  LIC     SPRUCE PINE, NC          BLANK0000007866         265.1
Yes  WIS       D10        DT  LIC     COLUMBIA, SC             BLCDT20090624ABZ        242.4
No   W10AJ     N10        TX  LIC     GREENVILLE, SC           BLTTV3015               312.6
No   W10AJ     D10        LD  CP      GREENVILLE, SC           BLANK0000036187         312.6
No   WBIR-TV   D10        DT  LIC     KNOXVILLE, TN            BLCDT20090619ADG        430.3
Yes  WWBT      D10        DT  CP      RICHMOND, VA             BLANK0000025185         234.2
No   WOWK-TV   D10        DT  CP      HUNTINGTON, WV           BLANK0000034807         398.2
No   WHMC      D11        DT  CP      CONWAY, SC               BLANK0000025029         213.6
No   WVEC      D11        DT  CP      HAMPTON, VA              BLANK0000034747         263.0
No   WVNS-TV   D11        DT  CP      LEWISBURG, WV            BLANK0000029985         252.2
No   WBXU-LD   N13z       TX  LIC     RALEIGH, NC              BLTVL20020321AAD         40.2
No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D10
       Mask: Full Service
   Latitude:  35 52 15.70 N (NAD83)
  Longitude:  79  9 39.00 W
Height AMSL: 307.3 m
       HAAT: 0.0 m
   Peak ERP: 3.00 kW
    Antenna: Omnidirectional
Elev Pattrn: Generic

48.0 dBu contour: Azimuth      ERP
HAAT   Distance
  0.0 deg   4.75 kW   121.0 m   51.9 km
 45.0       4.75      156.8     56.3
90.0       4.75      192.1     59.2 135.0
4.75      175.4     58.2
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180.0       4.75      168.2     57.5
225.0       4.75      165.9     57.3
270.0       4.75      154.2     56.0
315.0       4.75      140.4     54.3

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m   Computed HAAT: 159 m

Distance to Canadian border: 703.5 km

Distance to Mexican border: 2014.4 km

Conditions at FCC monitoring station: Laurel MD
Bearing: 28.7 degrees   Distance: 420.2 km

Proposal is not within the West Virginia quiet zone area
 Conditions at Table Mountain receiving
zone:
Bearing: 289.6 degrees   Distance: 2322.5 km


Study cell size: 0.50 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 BLANK0000025609 CP scenario 1

             Call      Chan  Svc Status  City, State               File Number             Distance
Desired:     WTVD      D9    DT  CP      DURHAM, NC                BLANK0000025609
Undesireds:  WIRP-LD   D10   LD  LIC     Raleigh, NC               0                        61.0 km
             WNCN      D8    DT  CP      GOLDSBORO, NC             BLANK0000029595           0.9
             WUSA      D9    DT  LIC     WASHINGTON, DC            BLANK0000033300         386.7
             WTVI      D9    DT  CP      CHARLOTTE, NC             BLANK0000028208         200.3
             WITV      D9    DT  BL      CHARLESTON, SC            DTVBL61005              323.2
             WJHL-TV   D9    DT  CP      JOHNSON CITY, TN          BLANK0000027557         334.9
WCTI-TV   D10   DT  CP      NEW BERN, NC              BLANK0000028166         125.2

        Service area       Terrain-limited       IX-free, before        IX-free, after    Percent New IX
51704.9   4,014,805   50869.3   3,982,147   47804.5   3,872,112   47767.2   3,869,590     0.08     0.07

Undesired                          Total IX     Unique IX, before      Unique IX, after
WIRP-LD D10 LD LIC        37.3       2,522                            37.3       2,522
WUSA D9 DT LIC            70.7       1,672      70.7       1,672      70.7       1,672
WTVI D9 DT CP            717.3      53,394     612.0      46,111     612.0      46,111
WITV D9 DT BL            106.6       3,604      25.0         182      25.0         182
WJHL-TV D9 DT CP          48.5       7,045      15.3       2,933      15.3       2,933 WCTI-TV
D10 DT CP       2236.0      51,854    2236.0      51,854    2236.0      51,854

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Interference to BLANK0000028166 CP scenario 1

             Call      Chan  Svc Status  City, State               File Number             Distance
Desired:     WCTI-TV   D10   DT  CP      NEW BERN, NC              BLANK0000028166
Undesireds:  WIRP-LD   D10   LD  LIC     Raleigh, NC               0                       185.8 km
             WTVD      D9    DT  CP      DURHAM, NC                BLANK0000025609         125.2
             WIS       D10   DT  LIC     COLUMBIA, SC              BLCDT20090624ABZ        331.2
WWBT      D10   DT  CP      RICHMOND, VA              BLANK0000025185         267.4

        Service area       Terrain-limited       IX-free, before        IX-free, after    Percent New IX
47543.8   1,680,237   47494.0   1,678,670   45741.9   1,554,876   45637.9   1,551,172     0.23     0.24
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Undesired                          Total IX     Unique IX, before      Unique IX, after
WIRP-LD D10 LD LIC       799.7      70,657                             104.0       3,704
WTVD D9 DT CP           1258.5     118,109    1116.3     109,932     621.9      51,586
WIS D10 DT LIC           364.3      10,489     238.4       2,866     170.6       2,273
WWBT D10 DT CP           276.2       4,497     255.2       2,819     253.9       2,807
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Interference to BLCDT20090624ABZ LIC scenario 1

             Call      Chan  Svc Status  City, State              File Number             Distance
Desired:     WIS       D10   DT  LIC     COLUMBIA, SC             BLCDT20090624ABZ
Undesireds:  WIRP-LD   D10   LD  LIC     Raleigh, NC              0                       242.4 km
WTVI      D9    DT  CP      CHARLOTTE, NC            BLANK0000028208         129.3
             WITV      D9    DT  BL      CHARLESTON, SC           DTVBL61005              165.5
             WXIA-TV   D10   DT  LIC     ATLANTA, GA              BLCDT20040302AAO        332.2
             WCTI-TV   D10   DT  CP      NEW BERN, NC             BLANK0000028166         331.2
             WBIR-TV   D10   DT  LIC     KNOXVILLE, TN            BLCDT20090619ADG        357.1
             WHMC      D11   DT  CP      CONWAY, SC               BLANK0000025029         153.0
WSPA-TV   D11   DT  CP      SPARTANBURG, SC          BLANK0000034743         182.2

        Service area       Terrain-limited       IX-free, before        IX-free, after    Percent New IX
46515.3   2,664,758   45523.0   2,613,584   43664.8   2,380,418   43636.6   2,379,053     0.06     0.06

Undesired                          Total IX     Unique IX, before      Unique IX, after
WIRP-LD D10 LD LIC       115.2       7,620                              28.3       1,365
WTVI D9 DT CP            296.8     195,724     283.3     195,132     272.9     190,587
WITV D9 DT BL            276.6       7,134     276.6       7,134     276.6       7,134
WXIA-TV D10 DT LIC       414.8      11,667     380.6      10,563     380.6      10,563
WCTI-TV D10 DT CP        237.3       4,466     200.2       3,618     133.4       2,245
WBIR-TV D10 DT LIC         0.5           0       0.0           0       0.0           0
WHMC D11 DT CP           401.5       6,293     377.5       6,037     377.5       6,037 WSPA-TV
D11 DT CP        302.5       9,834     268.1       8,730     268.1       8,730

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Interference to BLANK0000025185 CP scenario 1

             Call      Chan  Svc Status  City, State              File Number             Distance
Desired:     WWBT      D10   DT  CP      RICHMOND, VA             BLANK0000025185
Undesireds:  WIRP-LD   D10   LD  LIC     Raleigh, NC              0                       234.2 km
             WCTI-TV   D10   DT  CP      NEW BERN, NC             BLANK0000028166         267.4
             WHTM-TV   D10   DT  LIC     HARRISBURG, PA           BLANK0000034336         315.9
WVEC      D11   DT  CP      HAMPTON, VA              BLANK0000034747         119.5

        Service area       Terrain-limited       IX-free, before        IX-free, after    Percent New IX
29770.9   1,927,049   28976.9   1,892,866   27287.8   1,752,688   27277.1   1,752,536     0.04     0.01

Undesired                          Total IX     Unique IX, before      Unique IX, after
WIRP-LD D10 LD LIC        59.3       2,749                              10.7         152
WCTI-TV D10 DT CP        801.9      23,725     595.5      14,997     547.2      12,400
WHTM-TV D10 DT LIC        12.3       1,933      12.3       1,933      12.3       1,933 WVEC
D11 DT CP          1081.3     123,248     874.8     114,520     874.8     114,520

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Interference to BLANK0000025185 CP scenario 2

             Call      Chan  Svc Status  City, State              File Number             Distance
Desired:     WWBT      D10   DT  CP      RICHMOND, VA             BLANK0000025185
Undesireds:  WIRP-LD   D10   LD  LIC     Raleigh, NC              0                       234.2 km
             WCTI-TV   D10   DT  CP      NEW BERN, NC             BLANK0000028166         267.4
             WHTM-TV   D10   DT  APP     HARRISBURG, PA           BLANK0000035787         315.9
WVEC      D11   DT  CP      HAMPTON, VA              BLANK0000034747         119.5

        Service area       Terrain-limited       IX-free, before        IX-free, after    Percent New IX
29770.9   1,927,049   28976.9   1,892,866   27240.8   1,748,831   27230.1   1,748,679     0.04     0.01
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Undesired                          Total IX     Unique IX, before      Unique IX, after
WIRP-LD D10 LD LIC        59.3       2,749                            10.7         152
WCTI-TV D10 DT CP        801.9      23,725     595.5      14,997     547.2      12,400
WHTM-TV D10 DT APP        59.3       5,790      59.3       5,790      59.3       5,790 WVEC
D11 DT CP          1081.3     123,248     874.8     114,520     874.8     114,520

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Interference to proposal scenario 1
12.80% interference received
             Call      Chan  Svc Status  City, State              File Number             Distance
Desired:     WIRP-LD   D10   LD  LIC     Raleigh, NC              0
Undesireds:  WTVD      D9    DT  CP      DURHAM, NC               BLANK0000025609          61.0 km
             WCTI-TV   D10   DT  CP      NEW BERN, NC             BLANK0000028166         185.8
             WIS       D10   DT  LIC     COLUMBIA, SC             BLCDT20090624ABZ        242.4
             W10AJ     N10   TX  LIC     GREENVILLE, SC           BLTTV3015               312.6
WWBT      D10   DT  CP      RICHMOND, VA              BLANK0000025185         234.2

        Service area       Terrain-limited              IX-free        Percent IX
10091.2   1,647,115    9618.4   1,564,659    9081.4   1,364,362     5.58    12.80

Undesired                          Total IX            Unique IX   Prcnt Unique IX
WTVD D9 DT CP            398.7     183,991     142.9      77,073     1.49     4.93
WCTI-TV D10 DT CP        369.5     122,157     103.8      15,208     1.08     0.97
WIS D10 DT LIC            36.1       1,506      22.3         655     0.23     0.04
WWBT D10 DT CP             4.2         364       0.7           0     0.01     0.00
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