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tvstudy v2.2.5 (V9lR41)
Database: localhost,  Study: WNCB_Ch29_15kW_TUA-C1,  Model: Longley-Rice
Start: 2018.04.04 14:26:02

Study created: 2018.04.04 14:26:01

Study build station data: LMS TV 2018-03-19

    Proposal: WNCB-LD D29 LD LIC FAYETTEVILLE, NC
 File number: BLANK0000011263
 Facility ID: 183629
Station data: User record
   Record ID: 274
     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   W22CJ     N22-       TX  LIC     JACKSONVILLE, NC         BLTT19990629JD          146.6 km
No   WMYV      D28        DT  CP      GREENSBORO, NC           BLANK0000027771         119.0
No   WMYV      D28        DT  APP     GREENSBORO, NC           BLANK0000034498         119.0
No   WUNM-TV   D28        DT  CP      JACKSONVILLE, NC         BLANK0000025768         149.8
No   WUNM-TV   D28        DT  APP     JACKSONVILLE, NC         BLANK0000034444         149.8
No   W28EC-D   D28        LD  CP      NEW BERN, NC             BMPDTL20110502ACA       174.7
No   W28EI-D   D28        LD  CP      WILMINGTON, NC           BNPDTL20100422AAI       124.3
No   WHMC      D28        DT  APP     CONWAY, SC               BLANK0000034492         122.4
No   W29DN-D   D29        LD  LIC     ATHENS, GA               BLDTL20140221ACE        407.0
No   W29DN-D   D29        LD  CP      ATHENS, GA               BPDTL20140228AEM        417.5
No   WDZC-LD   D29        LD  CP      AUGUSTA, GA              BMPDTL20140528ACZ       350.4
No   W08AO-D   D29        LD  APP     CANTON, NC               BDISDTT20090928ACC      360.8
No   WUND-TV   D29        DT  CP      EDENTON, NC              BLANK0000025090         256.8
No   W08BF-D   D29        LD  APP     SPRUCE PINE, NC          BDISDTT20091001AKH      297.5
Yes  WSFX-TV   D29        DT  CP      WILMINGTON, NC           BLANK0000034230         124.9
Yes  WXLV-TV   D29        DT  LIC     WINSTON-SALEM, NC        BLCDT20050624ABB        119.0
No   W29EC-D   D29        LD  CP      FLORENCE, SC             BNPDTL20100409ABX       142.8
No   WAZS-LD   D29        LD  LIC     NORTH CHARLESTON, SC     BLDTL20100916ADH        257.0
No   WSQY-LP   D29        LD  CP      SPARTANBURG, SC          BDISDTL20110824BCU      312.5
No   WRJA-TV   D29        DT  CP      SUMTER, SC               BLANK0000025019         175.3
No   WKOP-TV   D29        DT  CP      KNOXVILLE, TN            BLANK0000024513         462.3
No   WCYB-TV   D29        LD  LIC     BRISTOL, VA              BLANK0000010637         322.3
No   WCYB-TV   D29        LD  CP      BRISTOL, VA              BPCDT20130404AAZ        322.3
No   WCYB-TV   D29        LD  LIC     BRISTOL, VA              BLCDT20121101ABC        322.3
No   W29EO-D   D29        LD  CP      Charlottesville, VA      BLANK0000008299         337.9
No   WCVW      D29        DT  CP      RICHMOND, VA             BLANK0000034129         300.8
No   WCHS-TV   D29        DT  CP      CHARLESTON, WV           BLANK0000034592         455.4
No   W29DP-D   D29        LD  APP     WELCH, WV                BLDTT20130215AAE        353.7
No   W30CR-D   D30        LD  LIC     BISCOE, NC               BLDTT20101029AAJ         81.6
No   WUNC-TV   D30        LD  LIC     CHAPEL HILL, NC          BLEDT20110705ACT         81.1
No   WUNU      D30        DT  CP      LUMBERTON, NC            BLANK0000034418          28.2
No   WHIG-CD   D30        DC  CP      ROCKY MOUNT, NC          BLANK0000028657         144.5
No   W30DH-D   D30        LD  CP      FLORENCE, SC             BNPDTL20100409ABY       142.8
No   WDBJ      D30        DT  CP      ROANOKE, VA              BLANK0000029919         261.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D29
       Mask: Full Service
   Latitude:  35  2 44.40 N (NAD83)
  Longitude:  78 58 52.10 W
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  Height AMSL: 150.3 m
        HAAT: 0.0 m
    Peak ERP: 15.0 kW
     Antenna: DIE TUA-C1 50.0 deg
  Elev Pattrn: Generic

  50.2 dBu contour:
  Azimuth      ERP       HAAT   Distance
    0.0 deg   1.85 kW    78.7 m   30.4 km
   45.0       14.4       92.1     42.4
   90.0       4.10      112.8     38.5
  135.0      0.014      101.9     11.1
  180.0      0.076      100.7     16.4
  225.0      0.050       93.2     14.5
  270.0      0.024       79.0     11.1
  315.0      0.028       65.6     10.6

  Database HAAT does not agree with computed HAAT
  Database HAAT: 0 m   Computed HAAT: 90 m

  Distance to Canadian border: 794.7 km

  Distance to Mexican border: 1987.4 km

  Conditions at FCC monitoring station: Laurel MD
  Bearing: 22.0 degrees   Distance: 496.3 km

  Proposal is not within the West Virginia quiet zone area

  Conditions at Table Mountain receiving zone:
  Bearing: 291.6 degrees   Distance: 2370.0 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 BLANK0000034230 CP scenario 1

               Call      Chan  Svc Status  City, State               File Number             Distance
  Desired:     WSFX-TV   D29   DT  CP      WILMINGTON, NC            BLANK0000034230

  Undesireds:  WNCB-LD   D29   LD  LIC     FAYETTEVILLE, NC          BLANK0000011263         124.9 km
               WUNM-TV   D28   DT  CP      JACKSONVILLE, NC          BLANK0000025768         133.2
               WHMC      D28   DT  APP     CONWAY, SC                BLANK0000034492          87.2
               WUND-TV   D29   DT  CP      EDENTON, NC               BLANK0000025090         258.4
               WXLV-TV   D29   DT  LIC     WINSTON-SALEM, NC         BLCDT20050624ABB        243.7
               WRJA-TV   D29   DT  CP      SUMTER, SC                BLANK0000025019         193.9
               WUNU      D30   DT  CP      LUMBERTON, NC             BLANK0000034418         107.9

          Service area       Terrain-limited       IX-free, before        IX-free, after    Percent New IX
   31098.3     969,854   31098.3     969,854   30747.2     950,380   30608.0     946,577     0.45     0.40

  Undesired                          Total IX     Unique IX, before      Unique IX, after
  WNCB-LD D29 LD LIC       165.0       5,027                            139.2       3,803
  WUNM-TV D28 DT CP         49.8       3,949      22.8       1,940      22.8       1,940
  WHMC D28 DT APP          110.1       5,433      95.4       4,929      95.4       4,929
  WUND-TV D29 DT CP         31.5       2,009       4.3           0       4.3           0
  WXLV-TV D29 DT LIC         0.2           0       0.0           0       0.0           0
  WRJA-TV D29 DT CP         16.4         504       0.0           0       0.0           0
  WUNU D30 DT CP           187.5      10,092     185.0      10,092     159.4       8,868

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  Interference to BLANK0000034230 CP scenario 2

               Call      Chan  Svc Status  City, State               File Number             Distance
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	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WSFX-TV	D29	DT	CP	WILMINGTON, NC	BLANK0000034230	
Undesireds:	WNCB-LD	D29	LD	LIC	FAYETTEVILLE, NC	BLANK0000011263	124.9 km
	WUNM-TV	D28	DT	APP	JACKSONVILLE, NC	BLANK0000034444	133.2
	WHMC	D28	DT	APP	CONWAY, SC	BLANK0000034492	87.2
	WUND-TV	D29	DT	CP	EDENTON, NC	BLANK0000025090	258.4
	WXLV-TV	D29	DT	LIC	WINSTON-SALEM, NC	BLCDT20050624ABB	243.7
	WRJA-TV	D29	DT	CP	SUMTER, SC	BLANK0000025019	193.9
	WUNU	D30	DT	CP	LUMBERTON, NC	BLANK0000034418	107.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
31098.3	969,854	31098.3	969,854	30673.3	942,716	30534.1	938,913	0.45	0.40

Undesired	Total IX		Unique IX, before		Unique IX, after	
WNCB-LD D29 LD LIC	165.0	5,027			139.2	3,803
WUNM-TV D28 DT APP	127.9	11,613	96.6	9,604	96.6	9,604
WHMC D28 DT APP	110.1	5,433	95.4	4,929	95.4	4,929
WUND-TV D29 DT CP	31.5	2,009	0.0	0	0.0	0
WXLV-TV D29 DT LIC	0.2	0	0.0	0	0.0	0
WRJA-TV D29 DT CP	16.4	504	0.0	0	0.0	0
WUNU D30 DT CP	187.5	10,092	185.0	10,092	159.4	8,868

Interference to BLCDT20050624ABB LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WXLV-TV	D29	DT	LIC	WINSTON-SALEM, NC	BLCDT20050624ABB	
Undesireds:	WNCB-LD	D29	LD	LIC	FAYETTEVILLE, NC	BLANK0000011263	119.0 km
	WMYV	D28	DT	CP	GREENSBORO, NC	BLANK0000027771	0.0
	WUND-TV	D29	DT	CP	EDENTON, NC	BLANK0000025090	313.2
	WSFX-TV	D29	DT	CP	WILMINGTON, NC	BLANK0000034230	243.7
	WRJA-TV	D29	DT	CP	SUMTER, SC	BLANK0000025019	224.5
	WCVW	D29	DT	CP	RICHMOND, VA	BLANK0000034129	269.6
	WCHS-TV	D29	DT	CP	CHARLESTON, WV	BLANK0000034592	337.1
	WUNU	D30	DT	CP	LUMBERTON, NC	BLANK0000034418	138.3
	WDBJ	D30	DT	CP	ROANOKE, VA	BLANK0000029919	150.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
39649.1	4,375,408	38921.2	4,347,386	38213.7	4,288,052	38108.8	4,273,547	0.27	0.34

Undesired	Total IX		Unique IX, before		Unique IX, after	
WNCB-LD D29 LD LIC	222.8	23,021			104.9	14,505
WUND-TV D29 DT CP	129.7	31,715	74.8	20,976	71.4	20,468
WSFX-TV D29 DT CP	265.7	19,365	78.3	6,272	29.6	2,858
WRJA-TV D29 DT CP	197.4	12,077	149.7	9,984	148.9	9,984
WCVW D29 DT CP	47.1	3,472	27.4	911	27.4	911
WCHS-TV D29 DT CP	2.0	25	2.0	25	2.0	25
WUNU D30 DT CP	264.9	7,169	125.4	3,508	117.1	2,951
WDBJ D30 DT CP	45.5	2,781	42.8	2,779	42.8	2,779

Interference to proposal scenario 1
11.50% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WNCB-LD	D29	LD	LIC	FAYETTEVILLE, NC	BLANK0000011263	
Undesireds:	WMYV	D28	DT	CP	GREENSBORO, NC	BLANK0000027771	119.0 km
	WUND-TV	D29	DT	CP	EDENTON, NC	BLANK0000025090	256.8
	WSFX-TV	D29	DT	CP	WILMINGTON, NC	BLANK0000034230	124.9
	WXLV-TV	D29	DT	LIC	WINSTON-SALEM, NC	BLCDT20050624ABB	119.0
	WRJA-TV	D29	DT	CP	SUMTER, SC	BLANK0000025019	175.3
	WUNU	D30	DT	CP	LUMBERTON, NC	BLANK0000034418	28.2

Service area		Terrain-limited		IX-free		Percent IX	
1977.3	348,897	1974.6	348,881	1608.6	308,761	18.54	11.50

Undesired	Total IX		Unique IX		Prcnt Unique IX	
WUND-TV D29 DT CP	1.0	0	0.0	0	0.00	0.00

WSFX-TV D29 DT CP	325.5	37,245	276.7	25,025	14.02	7.17
WXLV-TV D29 DT LIC	76.1	13,532	36.4	1,473	1.84	0.42
WRJA-TV D29 DT CP	0.5	0	0.0	0	0.00	0.00
WUNU D30 DT CP	16.2	1,563	2.5	1,402	0.13	0.40