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tvstudy v2.2.5 (V9lR41)
Database: localhost,  Study: WKUW_ch28_10kW_ND,  Model: Longley-Rice
Start: 2018.04.04 17:49:46

Study created: 2018.04.04 17:49:46

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

    Proposal: WKUW-LD D28 LD CP WHITE HOUSE, TN
 File number: BPDTL20140408ABC
 Facility ID: 128934
Station data: User record
   Record ID: 281
     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   WIIW-LP   N14z       TX  LIC     NASHVILLE, TN            BLANK0000010767           9.6 km
No   WNPX-LP   N20-       TX  LIC     NASHVILLE, TN            BLTTL20021119ABM          0.0
No   WNTU-LP   N26-       TX  LIC     NASHVILLE, TN            BLTTL20001018ABZ         11.7
No   WNAL-LD   D27-       LD  LIC     SCOTTSBORO, AL           BLANK0000044789         174.0
No   W27DH-D   D27        LD  CP      Louisville, KY           BLANK0000036475         201.5
No   WYJJ-LD   D27        LD  LIC     JACKSON, TN              BLDTL20140516ABM        195.9
No   WLJT-DT   D27        DT  CP      LEXINGTON, TN            BLANK0000034926         174.2
Yes  WKRN-TV   D27        DT  LIC     NASHVILLE, TN            BLCDT20090624ABO         24.7
No   WMCF-TV   D28        DT  CP      MONTGOMERY, AL           BLANK0000042300         433.0
No   WUDX-LD   D28        LD  CP      TUSCALOOSA, AL           BMPDTL20140805ADC       359.2
No   WDWW-LD   D28        LD  LIC     CLEVELAND, GA            BLANK0000013970         353.2
No   WDWW-LD   N28+       TX  LIC     CLEVELAND, GA            BLTTL20070215AAL        334.0
Yes  WELF-TV   D28        DT  CP      DALTON, GA               BLANK0000026361         203.2
No   WSIU-TV   D28        LD  CP      CARBONDALE, IL           BDRTEDT20100830ABG      277.1
No   WRBU      D28        DT  CP      EAST ST. LOUIS, IL       BLANK0000034410         402.5
No   W28EB-D   D28        LD  CP      EFFINGHAM, IL            BMPDTL20111006ACQ       341.9
No   WIPX-TV   D28        DT  APP     BLOOMINGTON, IN          BLANK0000034351         353.1
No   WIPX-TV   D28        DT  CP      BLOOMINGTON, IN          BLANK0000026975         353.2
Yes  WEVV-TV   D28        DT  CP      EVANSVILLE, IN           BLANK0000027564         191.9
No   WLEX-TV   D28        DT  CP      LEXINGTON, KY            BLANK0000028121         289.5
No   WDYL-LD   D28        LD  LIC     LOUISVILLE, KY           BLDTL20130823ACI        247.9
No   W28DB-D   D28        LD  LIC     HONEA PATH, SC           BLDTT20100825AAD        422.8
No   WEMT      D28        DT  CP      GREENEVILLE, TN          BLANK0000034887         420.1
No   WEZK-LP   N28z       TX  LIC     KNOXVILLE, TN            BLTTL20001011ACO        258.6
No   WEZK-LP   D28        LD  CP      KNOXVILLE, TN            BDFCDTL20130918AHU      258.6
No   WREG-TV   D28        DT  LIC     MEMPHIS, TN              BLCDT20050513AAE        299.4
No   WKGB-TV   D29        DT  CP      BOWLING GREEN, KY        BLANK0000025285          92.5
Yes  WKGB-TV   D29        DT  APP     BOWLING GREEN, KY        BLANK0000034655          92.5
No   NEW       D29        LD  APP     BOWLING GREEN, KY        BNPDTL20090825BHZ       114.5
No   NEW       D29        LD  APP     GLASGOW, KY              BNPDTL20090825AQM       118.7
No   WKOP-TV   D29        DT  CP      KNOXVILLE, TN            BLANK0000024513         256.7
No   W29DM-D   D29        LD  LIC     LEWISBURG, TN            BLDTL20120628ABM         91.1
No   WIIW-LD   D29        LD  CP      NASHVILLE, TN            BDISDTL20110831ABK        0.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D28
       Mask: Full Service
   Latitude:  36 16  4.90 N (NAD83)
  Longitude:  86 47 44.70 W
Height AMSL: 505.7 m
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       HAAT: 0.0 m
   Peak ERP: 10.0 kW
    Antenna: Omnidirectional
Elev Pattrn: Generic

50.1 dBu contour:
Azimuth      ERP       HAAT   Distance
  0.0 deg   10.0 kW   265.2 m   52.4 km
 45.0       10.0      318.8     55.3
 90.0       10.0      346.0     56.7
135.0       10.0      343.8     56.6
180.0       10.0      351.6     57.0
225.0       10.0      355.1     57.2
270.0       10.0      301.9     54.4
315.0       10.0      279.5     53.2

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m   Computed HAAT: 320 m

Distance to Canadian border: 698.3 km

Distance to Mexican border: 1493.9 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 144.2 degrees   Distance: 327.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 290.5 degrees   Distance: 1662.4 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 BLCDT20090624ABO LIC scenario 1

             Call      Chan  Svc Status  City, State              File Number            Distance
Desired:     WKRN-TV   D27   DT  LIC     NASHVILLE, TN            BLCDT20090624ABO

Undesireds:  WKUW-LD   D28   LD  CP      WHITE HOUSE, TN          BPDTL20140408ABC        24.7 km
             WAGA-TV   D27   DT  LIC     ATLANTA, GA              BLCDT20060728AEL       338.0
             WTTV      D27   DT  CP      BLOOMINGTON, IN          BLANK0000034516        378.3
             WTVQ-DT   D27   DT  CP      LEXINGTON, KY            BLANK0000026675        309.0
             WCBI-TV   D27   DT  CP      COLUMBUS, MS             BLANK0000024641        316.1
             WUNW      D27   DD  APP     CANTON, NC               BLANK0000036076        357.6
             WLJT-DT   D27   DT  CP      LEXINGTON, TN            BLANK0000034926        164.1

        Service area       Terrain-limited       IX-free, before        IX-free, after    Percent New IX
 37656.0   2,410,869   36644.8   2,392,824   36016.5   2,380,358   36016.5   2,380,358     0.00     0.00

Undesired                          Total IX     Unique IX, before      Unique IX, after
WKUW-LD D28 LD CP          0.5           1                            0.0           0
WAGA-TV D27 DT LIC        19.7       1,887      10.5         613      10.5         613
WTTV D27 DT CP             1.0           0       0.0           0       0.0           0
WTVQ-DT D27 DT CP         77.3       2,557      59.4       2,124      59.4       2,124
WCBI-TV D27 DT CP         91.0       3,068      43.1       1,184      43.1       1,184
WLJT-DT D27 DT CP        513.4       8,110     445.5       5,966     445.2       5,965

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Interference to BLANK0000026361 CP scenario 1

             Call      Chan  Svc Status  City, State              File Number            Distance
Desired:     WELF-TV   D28   DT  CP      DALTON, GA               BLANK0000026361
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Undesireds:	WKUW-LD	D28	LD	CP	WHITE HOUSE, TN	BPDTL20140408ABC	203.2 km
	WAGA-TV	D27	DT	LIC	ATLANTA, GA	BLCDT20060728AEL	151.3
	WMCF-TV	D28	DT	CP	MONTGOMERY, AL	BLANK0000042300	278.4
	WJBF	D28	DT	CP	AUGUSTA, GA	BLANK0000028403	365.5
	WLEX-TV	D28	DT	CP	LEXINGTON, KY	BLANK0000028121	368.5
	WEMT	D28	DT	CP	GREENEVILLE, TN	BLANK0000034887	349.4
	WKOP-TV	D29	DT	CP	KNOXVILLE, TN	BLANK0000024513	185.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
29354.1	1,476,962	25758.4	1,349,716	25480.7	1,332,200	25323.3	1,327,282	0.62	0.37

Undesired	Total IX		Unique IX, before		Unique IX, after	
WKUW-LD D28 LD CP	161.4	4,918			157.4	4,918
WAGA-TV D27 DT LIC	13.8	1,077	9.8	799	9.8	799
WMCF-TV D28 DT CP	202.8	11,770	199.0	11,737	198.8	11,737
WJBF D28 DT CP	7.5	294	2.5	7	2.5	7
WLEX-TV D28 DT CP	7.7	0	6.4	0	3.2	0
WEMT D28 DT CP	53.4	4,686	51.9	4,686	51.9	4,686
WKOP-TV D29 DT CP	1.2	0	1.0	0	1.0	0

Interference to BLANK0000027564 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WEVV-TV	D28	DT	CP	EVANSVILLE, IN	BLANK0000027564	
Undesireds:	WKUW-LD	D28	LD	CP	WHITE HOUSE, TN	BPDTL20140408ABC	191.9 km
	WYZZ-TV	D28	DT	LIC	BLOOMINGTON, IL	BLCDT20060609ABE	337.3
	WRBU	D28	DT	CP	EAST ST. LOUIS, IL	BLANK0000034410	263.3
	WIPX-TV	D28	DT	APP	BLOOMINGTON, IN	BLANK0000034351	207.5
	WIWU-CD	D28	DC	CP	MARION, IN	BLANK0000025263	344.3
	WLEX-TV	D28	DT	CP	LEXINGTON, KY	BLANK0000028121	276.5
	WREG-TV	D28	DT	LIC	MEMPHIS, TN	BLCDT20050513AAE	363.7
	W29CI-D	D29	DC	LIC	SALEM, IL	BLDTA20120913AAP	147.6
	WKGB-TV	D29	DT	CP	BOWLING GREEN, KY	BLANK0000025285	119.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
23840.6	752,545	23566.7	748,812	23362.5	747,247	23361.0	747,209	0.01	0.01

Undesired	Total IX		Unique IX, before		Unique IX, after	
WKUW-LD D28 LD CP	3.6	161			1.5	38
WYZZ-TV D28 DT LIC	14.0	59	1.8	21	1.8	21
WRBU D28 DT CP	119.2	375	94.6	284	94.6	284
WIPX-TV D28 DT APP	92.1	725	66.2	670	64.7	547
WLEX-TV D28 DT CP	9.5	311	3.9	306	3.9	306
WREG-TV D28 DT LIC	9.5	167	3.4	164	3.4	164
W29CI-D D29 DC LIC	0.3	0	0.0	0	0.0	0
WKGB-TV D29 DT CP	0.7	29	0.5	29	0.5	29

Interference to BLANK0000027564 CP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WEVV-TV	D28	DT	CP	EVANSVILLE, IN	BLANK0000027564	
Undesireds:	WKUW-LD	D28	LD	CP	WHITE HOUSE, TN	BPDTL20140408ABC	191.9 km
	WYZZ-TV	D28	DT	LIC	BLOOMINGTON, IL	BLCDT20060609ABE	337.3
	WRBU	D28	DT	CP	EAST ST. LOUIS, IL	BLANK0000034410	263.3
	WIPX-TV	D28	DT	CP	BLOOMINGTON, IN	BLANK0000026975	207.7
	WIWU-CD	D28	DC	CP	MARION, IN	BLANK0000025263	344.3
	WLEX-TV	D28	DT	CP	LEXINGTON, KY	BLANK0000028121	276.5
	WREG-TV	D28	DT	LIC	MEMPHIS, TN	BLCDT20050513AAE	363.7
	W29CI-D	D29	DC	LIC	SALEM, IL	BLDTA20120913AAP	147.6
	WKGB-TV	D29	DT	CP	BOWLING GREEN, KY	BLANK0000025285	119.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
23840.6	752,545	23566.7	748,812	23390.6	747,558	23388.5	747,501	0.01	0.01

Undesired	Total IX		Unique IX, before		Unique IX, after	
WKUW-LD D28 LD CP	3.6	161			2.2	57

WYZZ-TV D28 DT LIC	14.0	59	1.8	21	1.8	21
WRBU D28 DT CP	119.2	375	96.3	284	96.3	284
WIPX-TV D28 DT CP	60.6	414	38.0	359	37.3	255
WLEX-TV D28 DT CP	9.5	311	4.9	306	4.9	306
WREG-TV D28 DT LIC	9.5	167	3.4	164	3.4	164
W29CI-D D29 DC LIC	0.3	0	0.0	0	0.0	0
WKGB-TV D29 DT CP	0.7	29	0.5	29	0.5	29

Interference to BLANK0000027564 CP scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WEVV-TV	D28	DT	CP	EVANSVILLE, IN	BLANK0000027564	
Undesireds:	WKUW-LD	D28	LD	CP	WHITE HOUSE, TN	BPDTL20140408ABC	191.9 km
	WYZZ-TV	D28	DT	LIC	BLOOMINGTON, IL	BLCDT20060609ABE	337.3
	WRBU	D28	DT	CP	EAST ST. LOUIS, IL	BLANK0000034410	263.3
	WIPX-TV	D28	DT	APP	BLOOMINGTON, IN	BLANK0000034351	207.5
	WIWU-CD	D28	DC	CP	MARION, IN	BLANK0000025263	344.3
	WLEX-TV	D28	DT	CP	LEXINGTON, KY	BLANK0000028121	276.5
	WREG-TV	D28	DT	LIC	MEMPHIS, TN	BLCDT20050513AAE	363.7
	W29CI-D	D29	DC	LIC	SALEM, IL	BLDTA20120913AAP	147.6
	WKGB-TV	D29	DT	APP	BOWLING GREEN, KY	BLANK0000034655	119.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
23840.6	752,545	23566.7	748,812	23360.8	746,981	23359.4	746,943	0.01	0.01

Undesired	Total IX	Unique IX, before		Unique IX, after	
WKUW-LD D28 LD CP	3.6	161		1.5	38
WYZZ-TV D28 DT LIC	14.0	59	1.8	21	1.8	21
WRBU D28 DT CP	119.2	375	94.6	284	94.6	284
WIPX-TV D28 DT APP	92.1	725	66.2	670	64.7	547
WLEX-TV D28 DT CP	9.5	311	3.9	306	3.9	306
WREG-TV D28 DT LIC	9.5	167	3.4	164	3.4	164
W29CI-D D29 DC LIC	0.3	0	0.0	0	0.0	0
WKGB-TV D29 DT APP	2.4	295	2.2	295	2.2	295

Interference to BLANK0000027564 CP scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WEVV-TV	D28	DT	CP	EVANSVILLE, IN	BLANK0000027564	
Undesireds:	WKUW-LD	D28	LD	CP	WHITE HOUSE, TN	BPDTL20140408ABC	191.9 km
	WYZZ-TV	D28	DT	LIC	BLOOMINGTON, IL	BLCDT20060609ABE	337.3
	WRBU	D28	DT	CP	EAST ST. LOUIS, IL	BLANK0000034410	263.3
	WIPX-TV	D28	DT	CP	BLOOMINGTON, IN	BLANK0000026975	207.7
	WIWU-CD	D28	DC	CP	MARION, IN	BLANK0000025263	344.3
	WLEX-TV	D28	DT	CP	LEXINGTON, KY	BLANK0000028121	276.5
	WREG-TV	D28	DT	LIC	MEMPHIS, TN	BLCDT20050513AAE	363.7
	W29CI-D	D29	DC	LIC	SALEM, IL	BLDTA20120913AAP	147.6
	WKGB-TV	D29	DT	APP	BOWLING GREEN, KY	BLANK0000034655	119.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
23840.6	752,545	23566.7	748,812	23388.9	747,292	23386.8	747,235	0.01	0.01

Undesired	Total IX	Unique IX, before		Unique IX, after	
WKUW-LD D28 LD CP	3.6	161		2.2	57
WYZZ-TV D28 DT LIC	14.0	59	1.8	21	1.8	21
WRBU D28 DT CP	119.2	375	96.3	284	96.3	284
WIPX-TV D28 DT CP	60.6	414	38.0	359	37.3	255
WLEX-TV D28 DT CP	9.5	311	4.9	306	4.9	306
WREG-TV D28 DT LIC	9.5	167	3.4	164	3.4	164
W29CI-D D29 DC LIC	0.3	0	0.0	0	0.0	0
WKGB-TV D29 DT APP	2.4	295	2.2	295	2.2	295

Interference to BLANK0000034655 APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance

Desired:	WKGB-TV	D29	DT	APP	BOWLING GREEN, KY	BLANK0000034655	
Undesireds:	WKUW-LD	D28	LD	CP	WHITE HOUSE, TN	BPDTL20140408ABC	92.5 km
	WEVV-TV	D28	DT	CP	EVANSVILLE, IN	BLANK0000027564	119.6
	WJYL-CD	D29	DC	CP	JEFFERSONVILLE, IN	BLANK0000034246	158.9
	WPTO	D29	DT	CP	OXFORD, OH	BLANK0000034602	292.0
	WKNO	D29	DT	LIC	MEMPHIS, TN	BLEDT20060627ABE	358.0
	WNAB	D30	DT	CP	NASHVILLE, TN	BLANK0000028214	92.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
15065.5	413,658	14936.4	409,470	14845.2	407,222	14845.2	407,222	0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
WKUW-LD D28 LD CP	0.2	0			0.0	0
WEVV-TV D28 DT CP	45.2	1,624	43.5	1,624	43.5	1,624
WJYL-CD D29 DC CP	24.7	69	20.6	69	20.6	69
WPTO D29 DT CP	2.2	0	1.5	0	1.5	0
WKNO D29 DT LIC	8.5	17	6.3	17	6.3	17
WNAB D30 DT CP	15.4	538	14.7	538	14.4	538

Interference to BLANK0000034655 APP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WKGB-TV	D29	DT	APP	BOWLING GREEN, KY	BLANK0000034655	
Undesireds:	WKUW-LD	D28	LD	CP	WHITE HOUSE, TN	BPDTL20140408ABC	92.5 km
	WEVV-TV	D28	DT	CP	EVANSVILLE, IN	BLANK0000027564	119.6
	WJYL-CD	D29	DC	CP	JEFFERSONVILLE, IN	BLANK0000034246	158.9
	WPTO	D29	DT	CP	OXFORD, OH	BLANK0000034602	292.0
	WKNO	D29	DT	LIC	MEMPHIS, TN	BLEDT20060627ABE	358.0
	WNAB	D30	DT	APP	NASHVILLE, TN	BLANK0000034797	92.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
15065.5	413,658	14936.4	409,470	14714.5	401,355	14714.5	401,355	0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
WKUW-LD D28 LD CP	0.2	0			0.0	0
WEVV-TV D28 DT CP	45.2	1,624	43.5	1,624	43.5	1,624
WJYL-CD D29 DC CP	24.7	69	20.3	69	20.3	69
WPTO D29 DT CP	2.2	0	1.5	0	1.5	0
WKNO D29 DT LIC	8.5	17	3.4	1	3.4	1
WNAB D30 DT APP	149.8	6,421	145.4	6,405	145.1	6,405

Interference to proposal scenario 1
8.88% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WKUW-LD	D28	LD	CP	WHITE HOUSE, TN	BPDTL20140408ABC	
Undesireds:	WKRN-TV	D27	DT	LIC	NASHVILLE, TN	BLCDT20090624ABO	24.7 km
	WDWW-LD	D28	LD	LIC	CLEVELAND, GA	BLANK0000013970	353.2
	WELF-TV	D28	DT	CP	DALTON, GA	BLANK0000026361	203.2
	WIPX-TV	D28	DT	APP	BLOOMINGTON, IN	BLANK0000034351	353.1
	WEVV-TV	D28	DT	CP	EVANSVILLE, IN	BLANK0000027564	191.9
	WEZK-LP	N28z	TX	LIC	KNOXVILLE, TN	BLTTL20001011ACO	258.6
	WREG-TV	D28	DT	LIC	MEMPHIS, TN	BLCDT20050513AAE	299.4
	WKGB-TV	D29	DT	CP	BOWLING GREEN, KY	BLANK0000025285	92.5
	W29DM-D	D29	LD	LIC	LEWISBURG, TN	BLDTL20120628ABM	91.1

Service area		Terrain-limited		IX-free		Percent IX	
9695.8	1,389,992	9455.1	1,371,521	8760.7	1,249,780	7.34	8.88

Undesired	Total IX		Unique IX		Prcnt Unique IX	
WKRN-TV D27 DT LIC	687.3	121,461	660.8	118,177	6.99	8.62
WELF-TV D28 DT CP	8.4	760	1.0	156	0.01	0.01
WEVV-TV D28 DT CP	29.9	3,177	4.7	82	0.05	0.01
WREG-TV D28 DT LIC	0.5	0	0.5	0	0.01	0.00
W29DM-D D29 LD LIC	0.5	0	0.0	0	0.00	0.00