Note:
Study cell size: 1.00 km
Profile point spacing: 0.10 km

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: WZDS_Ch18_Omni_Move_Pre, Model: Longley-Rice
Start: 2019.05.08 11:43:39

Study created: 2019.05.08 11:33:51

Study build station data: LMS TV 2019-05-07

    Proposal: WZDS-LD D18 LD APP EVANSVILLE, IN
 File number: WZDS_Ch18_Omni_Move
 Facility ID: 188624
Station data: User record
   Record ID: 973
     Country: U.S.

Build options:
Protect pre-transition records not on baseline channel
Protect baseline records from LPTV

Search options:
Baseline record excluded if station has CP
All records for new LPTV stations excluded

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WAND	D17	DT	LIC	DECATUR, IL	BLCDT20130709ABN	245.0 km
No	WTCT	D17	DT	LIC	MARION, IL	BLCDT20060629ACN	132.2
No	WKPC-TV	D17	DT	LIC	LOUISVILLE, KY	BMLEDT20120625ABZ	161.7
No	WKMU	D17	DT	CP	MURRAY, KY	BLANK0000034644	163.3
No	WKOH	D17	DT	CP	OWENSBORO, KY	BLANK0000034642	27.5
No	WKSO-TV	D17	DT	CP	SOMERSET, KY	BLANK0000034631	260.8
No	KETC	D17	DT	BL	ST. LOUIS, MO	DTVBL62182	250.2
No	WRTN-LD	D17	LD	CP	ALEXANDRIA, TN	BLANK0000054584	201.8
No	WZDX	D18	DT	CP	HUNTSVILLE, AL	BLANK0000034779	371.3
No	KVTJ-DT	D18	DT	LIC	JONESBORO, AR	BLANK0000064048	368.8
No	WBXC-CD	D18	DC	CP	CHAMPAIGN/URBANA, IL	BLANK0000034661	244.9
No	WSEC	D18	DT	CP	JACKSONVILLE, IL	BLANK0000034851	278.9
No	WFWA	D18	DT	LIC	FORT WAYNE, IN	BLANK0000063130	405.9
Yes	WJTS-CD	D18	DC	LIC	JASPER, IN	BLDTL20090212ABK	79.3
Yes	WAWV-TV	D18	DT	CP	TERRE HAUTE, IN	BLANK0000028343	143.4
Yes	WKYU-TV	D18	DT	LIC	BOWLING GREEN, KY	BLEDT20040803AAG	143.9
No	WKYI-CD	D18	DC	CP	LOUISVILLE, KY	BLANK0000034220	160.9
No	KDKZ-LD	D18	LD	LIC	FARMINGTON, MO	BLANK0000029554	259.7
No	WQEK-LD	D18	LD	LIC	CLARKSDALE, MS	BLANK0000013482	355.8
No	WSTR-TV	D18	DT	CP	CINCINNATI, OH	BLANK0000034777	301.3
No	WKEF	D18	DT	LIC	DAYTON, OH	BLANK0000004293	350.2
No	W18BL-D	D18	DC	LIC	ADAMSVILLE, TN	BLDTA20110429ABP	310.9
No	W18DS-D	D18	LD	LIC	CHATTANOOGA, TN	BLDTL20120320ABS	368.5
No	WGDG-LD	D18	LD	APP	JACKSON, TN	BLANK0000071916	270.6
No	WPXK-TV	D18	DT	APP	JELLICO, TN	BLANK0000068234	391.8
No	WPXK-TV	D18	DT	CP	JELLICO, TN	BLANK0000026977	391.6
No	WJFB-LP	D18z	LD	CP	LEBANON, TN	BLANK0000005264	201.8
No	WLPX-TV	D18	DT	APP	CHARLESTON, WV	BLANK0000069627	475.3
No	WFDE-LD	D19	LD	CP	CHAMPAIGN, IL	BLANK0000052945	144.3
No	WUSI-TV	D19	DT	LIC	OLNEY, IL	BLEDT20060619ABG	107.3
Yes	WDLH-LD	D19	LD	CP	EVANSVILLE, IN	BMPDTL20140528ADH	27.5
No	WCZU-LD	D19	LD	CP	BOWLING GREEN, KY	BLANK0000052706	144.4
No	WPSD-TV	D19	DT	CP	PADUCAH, KY	BLANK0000027223	148.2
No	WLLC-LP	D19	LD	CP	NASHVILLE, TN	BLANK0000052774	213.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D18
       Mask: Full Service

```
   Latitude:  37 57 48.10 N (NAD83)
  Longitude:  87 36 33.60 W
Height AMSL: 158.1 m
       HAAT: 0.0 m
   Peak ERP: 15.0 kW
    Antenna: Omnidirectional
Elev Pattrn: Generic

49.1 dBu contour:
Azimuth      ERP       HAAT   Distance
  0.0 deg   15.0 kW    20.4 m   31.2 km
 45.0       15.0       38.8     33.7
 90.0       15.0       39.2     33.9
135.0       15.0       38.0     33.5
180.0       15.0       48.4     36.4
225.0       15.0       48.0     36.3
270.0       15.0       16.6     31.2
315.0       15.0       20.1     31.2

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m   Computed HAAT: 34 m

Distance to Canadian border: 581.0 km

Distance to Mexican border: 1555.7 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 149.5 degrees   Distance: 524.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 284.5 degrees   Distance: 1536.9 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area


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 BLDTL20090212ABK LIC scenario 1
**IX: 2.11% interference caused

             Call      Chan  Svc Status  City, State              File Number             Distance
Desired:     WJTS-CD   D18   DC  LIC     JASPER, IN               BLDTL20090212ABK

Undesireds:  WZDS-LD   D18   LD  APP     EVANSVILLE, IN           WZDS_Ch18_Omni_Move      79.3 km
             WKYU-TV   D18   DT  LIC     BOWLING GREEN, KY        BLEDT20040803AAG        151.5
             WKEF      D18   DT  LIC     DAYTON, OH               BLANK0000004293         270.9

        Service area       Terrain-limited       IX-free, before        IX-free, after    Percent New IX
  7416.1     153,980    7323.7     152,274    7314.7     151,812    7142.5     148,605     2.35     2.11

Undesired                          Total IX     Unique IX, before      Unique IX, after
WZDS-LD D18 LD APP       178.2       3,669                            172.2       3,207
WKYU-TV D18 DT LIC         6.0           4       6.0           4       3.0           0
WKEF D18 DT LIC            3.0         458       3.0         458       0.0           0

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Interference to BLANK0000028343 CP scenario 1

             Call      Chan  Svc Status  City, State              File Number             Distance
Desired:     WAWV-TV   D18   DT  CP      TERRE HAUTE, IN          BLANK0000028343

Undesireds:  WZDS-LD   D18   LD  APP     EVANSVILLE, IN           WZDS_Ch18_Omni_Move     143.4 km
             WBXC-CD   D18   DC  CP      CHAMPAIGN/URBANA, IL     BLANK0000034661         121.0
             WSEC      D18   DT  CP      JACKSONVILLE, IL         BLANK0000034851         231.4
```

	WFWA	D18	DT	LIC	FORT WAYNE, IN	BLANK0000063130	278.7
	WKYU-TV	D18	DT	LIC	BOWLING GREEN, KY	BLEDT20040803AAG	256.2
	WKYI-CD	D18	DC	CP	LOUISVILLE, KY	BLANK0000034220	166.0
	WSTR-TV	D18	DT	CP	CINCINNATI, OH	BLANK0000034777	247.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
24053.0	706,943	23919.5	704,004	23278.7	689,757	23267.7	689,704	0.05	0.01

Undesired	Total IX	Unique IX, before		Unique IX, after	
WZDS-LD D18 LD APP	19.0	79		11.0	53
WBXC-CD D18 DC CP	499.4	3,297	271.3	1,374	271.3	1,374
WSEC D18 DT CP	290.8	5,120	61.7	3,197	59.7	3,188
WFWA D18 DT LIC	9.0	315	4.0	85	4.0	85
WKYU-TV D18 DT LIC	6.0	39	2.0	0	1.0	0
WKYI-CD D18 DC CP	36.9	5,252	13.9	1,827	13.9	1,827
WSTR-TV D18 DT CP	57.7	5,812	34.8	2,327	33.8	2,320

Interference to BLEDT20040803AAG LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WKYU-TV	D18	DT	LIC	BOWLING GREEN, KY	BLEDT20040803AAG	
Undesireds:	WZDS-LD	D18	LD	APP	EVANSVILLE, IN	WZDS_Ch18_Omni_Move	143.9 km
	WZDX	D18	DT	CP	HUNTSVILLE, AL	BLANK0000034779	258.8
	WAWV-TV	D18	DT	CP	TERRE HAUTE, IN	BLANK0000028343	256.2
	WKYI-CD	D18	DC	CP	LOUISVILLE, KY	BLANK0000034220	153.9
	WSTR-TV	D18	DT	CP	CINCINNATI, OH	BLANK0000034777	290.4
	WPXK-TV	D18	DT	APP	JELLICO, TN	BLANK0000068234	252.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
14796.6	411,399	14584.0	408,393	14471.8	406,286	14464.7	406,086	0.05	0.05

Undesired	Total IX	Unique IX, before		Unique IX, after	
WZDS-LD D18 LD APP	21.2	324		7.1	200
WZDX D18 DT CP	18.1	366	15.0	284	14.0	284
WAWV-TV D18 DT CP	35.5	713	20.2	525	14.1	493
WKYI-CD D18 DC CP	60.9	1,036	33.5	502	32.5	474
WSTR-TV D18 DT CP	38.4	719	14.1	249	14.1	249
WPXK-TV D18 DT APP	1.0	13	0.0	0	0.0	0

Interference to BLEDT20040803AAG LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WKYU-TV	D18	DT	LIC	BOWLING GREEN, KY	BLEDT20040803AAG	
Undesireds:	WZDS-LD	D18	LD	APP	EVANSVILLE, IN	WZDS_Ch18_Omni_Move	143.9 km
	WZDX	D18	DT	CP	HUNTSVILLE, AL	BLANK0000034779	258.8
	WAWV-TV	D18	DT	CP	TERRE HAUTE, IN	BLANK0000028343	256.2
	WKYI-CD	D18	DC	CP	LOUISVILLE, KY	BLANK0000034220	153.9
	WSTR-TV	D18	DT	CP	CINCINNATI, OH	BLANK0000034777	290.4
	WPXK-TV	D18	DT	CP	JELLICO, TN	BLANK0000026977	251.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
14796.6	411,399	14584.0	408,393	14469.8	406,061	14462.7	405,861	0.05	0.05

Undesired	Total IX	Unique IX, before		Unique IX, after	
WZDS-LD D18 LD APP	21.2	324		7.1	200
WZDX D18 DT CP	18.1	366	15.0	284	14.0	284
WAWV-TV D18 DT CP	35.5	713	19.2	525	13.1	493
WKYI-CD D18 DC CP	60.9	1,036	33.5	502	32.5	474
WSTR-TV D18 DT CP	38.4	719	13.1	249	13.1	249
WPXK-TV D18 DT CP	6.0	245	2.0	225	2.0	225

Interference to BMPDTL20140528ADH CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WDLH-LD	D19	LD	CP	EVANSVILLE, IN	BMPDTL20140528ADH	
Undesireds:	WZDS-LD	D18	LD	APP	EVANSVILLE, IN	WZDS_Ch18_Omni_Move	27.5 km
	WCZU-LD	D19	LD	CP	BOWLING GREEN, KY	BLANK0000052706	117.6
	WDKY-TV	D19	DT	CP	DANVILLE, KY	BLANK0000059663	263.9

	WPSD-TV	D19	DT	CP	PADUCAH, KY	BLANK0000027223	163.1
	KPTN-LD	D19	LD	CP	ST. LOUIS, MO	BLANK0000059447	273.7
	WTSN-CD	D20	DC	LIC	EVANSVILLE, IN	BLDTL20120328AJA	15.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
652.2	150,787	638.1	150,444	379.2	70,598	379.2	70,598	0.00	0.00

Undesired	Total IX	Unique IX, before		Unique IX, after	
WZDS-LD D18 LD APP	60.6	19,324		0.0	0
WCZU-LD D19 LD CP	11.1	2,788	0.0	0.0	0
WDKY-TV D19 DT CP	22.3	7,194	0.0	0.0	0
WPSD-TV D19 DT CP	37.4	9,238	0.0	0.0	0
WTSN-CD D20 DC LIC	258.9	79,846	220.4	70,608	181.0	56,518

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WZDS-LD	D18	LD	APP	EVANSVILLE, IN	WZDS_Ch18_Omni_Move	
Undesireds:	WKOH	D17	DT	CP	OWENSBORO, KY	BLANK0000034642	27.5 km
	WAWV-TV	D18	DT	CP	TERRE HAUTE, IN	BLANK0000028343	143.4
	WKYU-TV	D18	DT	LIC	BOWLING GREEN, KY	BLEDT20040803AAG	143.9
	WDLH-LD	D19	LD	CP	EVANSVILLE, IN	BMPDTL20140528ADH	27.5

Service area		Terrain-limited		IX-free		Percent IX	
3518.3	311,263	3512.2	311,219	3288.7	308,069	6.36	1.01

Undesired	Total IX		Unique IX		Prcnt Unique IX	
WKOH D17 DT CP	126.5	2,171	113.3	1,482	3.23	0.48
WAWV-TV D18 DT CP	95.0	1,531	78.9	753	2.25	0.24
WKYU-TV D18 DT LIC	19.2	350	5.0	50	0.14	0.02
WDLH-LD D19 LD CP	6.1	44	5.1	44	0.14	0.01