

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

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: K3800_Ch34_Omni_Move_Pre, Model: Longley-Rice
Start: 2019.05.31 13:48:29

Study created: 2019.05.31 13:38:08

Study build station data: LMS TV 2019-05-31

Proposal: K3800-D D34 LD APP JEFFERSON CITY, MO
File number: K3800_Ch34_Omni_Move
Facility ID: 188083
Station data: User record
Record ID: 957
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	KGKC-LD	D33	LD	LIC	LAWRENCE, KS	BLANK00000063669	194.5 km
No	K33MN-D	D33	LD	CP	JEFFERSON CITY, MO	BLANK00000001282	2.9
No	K32KV-D	D33	LD	CP	JEFFERSON CITY, MO	BLANK00000052930	116.2
No	KTVO	D33	DT	APP	KIRKSVILLE, MO	BPCDT20130206ADL	196.6
No	KTVO	D33	DT	APP	KIRKSVILLE, MO	BLANK00000035797	196.6
No	KTVO	D33	DT	LIC	KIRKSVILLE, MO	BLCDT20030604AAC	196.6
No	K33NG-D	D33	LD	CP	SPRINGFIELD, MO	BDCCDTT20121214ADU	181.3
No	KBGU-LP	D33	LD	LIC	ST. LOUIS, MO	BLANK00000001766	171.8
No	KTVI	D33	DT	CP	ST. LOUIS, MO	BLANK00000034468	168.3
No	KSJF-CD	D34	DC	LIC	FORT SMITH, AR	BLANK00000064259	404.7
No	K50MM-D	D34	LD	APP	JONESBORO, AR	BLANK00000071894	346.8
No	K33MV-D	D34	LD	APP	PARAGOULD, AR	BLANK00000072000	322.9
No	K40NE-D	D34	LD	APP	SPRINGDALE, AR	BLANK00000072731	326.3
No	KMZM-LD	D34	LD	CP	Cedar Rapids, IA	BLANK00000036461	418.9
No	KQIN	D34	DT	LIC	DAVENPORT, IA	BLEDT20120921ADS	326.4
No	W34EH-D	D34	LD	LIC	CHAMPAIGN, IL	BLANK00000014112	322.0
No	WCIA	D34	DT	CP	CHAMPAIGN, IL	BLANK00000072063	361.7
No	WSIL-TV	D34	DT	LIC	HARRISBURG, IL	BLCDT20080718AAR	324.8
No	W42EM-D	D34	LD	CP	MOUNT VERNON, IL	BLANK00000051636	181.4
Yes	WQEC	D34	DT	APP	QUINCY, IL	BLANK00000035763	159.0
Yes	WQEC	D34	DT	LIC	QUINCY, IL	BLEDT20040715ADL	159.0
No	WEAE-LD	D34	LD	CP	SPRINGFIELD, IL	BLANK00000013472	257.1
No	K41MN-D	D34	LD	APP	EMPORIA, KS	BLANK00000071803	345.3
No	K41KX-D	D34	LD	CP	JOPLIN, MO	BLANK00000058756	264.8
Yes	WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLCDT20091008AAW	202.4
Yes	K34KX-D	D34	LD	LIC	ROLLA, MO	BLDTL20130222ADC	101.3
No	KSPR-LD	D34	LD	CP	SPRINGFIELD, MO	BLANK00000052519	185.8
No	KMYT-TV	D34	DT	LIC	TULSA, OK	BLANK00000067647	426.8
No	KQML-LD	D35	LD	CP	TOPEKA, KS	BLANK00000051648	193.8
Yes	K35OY-D	D35	LD	CP	COLUMBIA, MO	BLANK00000071882	3.7
No	KOZJ	D35	DT	LIC	JOPLIN, MO	BLANK00000059543	272.2
No	KSDK	D35	DT	LIC	ST. LOUIS, MO	BLCDT19991202ABM	171.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D34
Mask: Full Service
Latitude: 38 45 54.40 N (NAD83)
Longitude: 92 17 22.40 W

Height AMSL: 329.6 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: Omnidirectional
Elev Pattn: Generic

50.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	89.1 m	41.7 km
45.0	15.0	71.1	39.1
90.0	15.0	100.8	43.2
135.0	15.0	115.4	44.7
180.0	15.0	128.6	45.6
225.0	15.0	121.7	45.1
270.0	15.0	108.4	44.0
315.0	15.0	113.1	44.5

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 106 m

Distance to Canadian border: 853.4 km

Distance to Mexican border: 1302.3 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 296.5 degrees Distance: 576.0 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 281.8 degrees Distance: 1119.5 km

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%

Interference to BLANK0000035763 APP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WQEC	D34	DT	APP	QUINCY, IL	BLANK0000035763	
Undesireds:	K3800-D	D34	LD	APP	JEFFERSON CITY, MO	K3800_Ch34_Omni_Move	159.0 km
	KTVO	D33	DT	APP	KIRKSVILLE, MO	BPCDT20130206ADL	114.0
	KQIN	D34	DT	LIC	DAVENPORT, IA	BLEDT20120921ADS	167.7
	WCIA	D34	DT	CP	CHAMPAIGN, IL	BLANK0000072063	243.7
	WSIL-TV	D34	DT	LIC	HARRISBURG, IL	BLCDT20080718AAR	337.0
	WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLCDT20091008AAW	299.2
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
17503.9	231,756	17314.3	229,038	17062.9	223,316	17062.9 223,316	0.00 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
K3800-D D34 LD APP				7.9 1,447		0.0 0	
KQIN D34 DT LIC				21.9 213	14.9 198	13.0 198	
WCIA D34 DT CP				218.6 5,504	191.5 5,469	189.5 4,025	
WSIL-TV D34 DT LIC				32.0 31	6.9 5	4.9 3	
WDAF-TV D34 DT LIC				11.0 15	9.0 12	8.0 12	

Interference to BLANK0000035763 APP scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WQEC	D34	DT	APP	QUINCY, IL	BLANK0000035763	
Undesireds:	K3800-D	D34	LD	APP	JEFFERSON CITY, MO	K3800_Ch34_Omni_Move	159.0 km
	KTVO	D33	DT	APP	KIRKSVILLE, MO	BLANK0000035797	114.0
	KQIN	D34	DT	LIC	DAVENPORT, IA	BLEDT20120921ADS	167.7
	WCIA	D34	DT	CP	CHAMPAIGN, IL	BLANK0000072063	243.7
	WSIL-TV	D34	DT	LIC	HARRISBURG, IL	BLCDT20080718AAR	337.0

WDAF-TV	D34	DT	LIC	KANSAS CITY, MO		BLCDT20091008AAW		299.2	
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
17503.9	231,756	17314.3	229,038	17039.9	223,282	17039.9	223,282	0.00	0.00
Undesired		Total IX		Unique IX, before		Unique IX, after			
K3800-D	D34 LD APP	7.9	1,447			0.0	0		
KTVO	D33 DT APP	25.0	34	23.0	34	23.0	34		
KQIN	D34 DT LIC	21.9	213	14.9	198	13.0	198		
WCIA	D34 DT CP	218.6	5,504	191.5	5,469	189.5	4,025		
WSIL-TV	D34 DT LIC	32.0	31	6.9	5	4.9	3		
WDAF-TV	D34 DT LIC	11.0	15	7.0	12	6.0	12		

Interference to BLANK0000035763 APP scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WQEC	D34	DT	APP	QUINCY, IL	BLANK0000035763	
Undesireds:	K3800-D	D34	LD	APP	JEFFERSON CITY, MO	K3800_Ch34_Omni_Move	159.0 km
	KQIN	D34	DT	LIC	DAVENPORT, IA	BLEDT20120921ADS	167.7
	WCIA	D34	DT	CP	CHAMPAIGN, IL	BLANK0000072063	243.7
	WSIL-TV	D34	DT	LIC	HARRISBURG, IL	BLCDT20080718AAR	337.0
	WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLCDT20091008AAW	299.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
17503.9	231,756	17314.3	229,038	17062.9	223,316	17062.9	223,316	0.00	0.00
Undesired		Total IX		Unique IX, before		Unique IX, after			
K3800-D	D34 LD APP	7.9	1,447			0.0	0		
KQIN	D34 DT LIC	21.9	213	14.9	198	13.0	198		
WCIA	D34 DT CP	218.6	5,504	191.5	5,469	189.5	4,025		
WSIL-TV	D34 DT LIC	32.0	31	6.9	5	4.9	3		
WDAF-TV	D34 DT LIC	11.0	15	9.0	12	8.0	12		

Interference to BLEDT20040715ADL LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WQEC	D34	DT	LIC	QUINCY, IL	BLEDT20040715ADL	
Undesireds:	K3800-D	D34	LD	APP	JEFFERSON CITY, MO	K3800_Ch34_Omni_Move	159.0 km
	KTVO	D33	DT	APP	KIRKSVILLE, MO	BPCDT20130206ADL	114.0
	KQIN	D34	DT	LIC	DAVENPORT, IA	BLEDT20120921ADS	167.7
	WCIA	D34	DT	CP	CHAMPAIGN, IL	BLANK0000072063	243.7
	WSIL-TV	D34	DT	LIC	HARRISBURG, IL	BLCDT20080718AAR	337.0
	WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLCDT20091008AAW	299.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
13209.9	184,254	13054.2	183,791	12949.3	183,413	12949.3	183,413	0.00	0.00
Undesired		Total IX		Unique IX, before		Unique IX, after			
K3800-D	D34 LD APP	5.9	9			0.0	0		
KQIN	D34 DT LIC	5.9	0	3.0	0	2.0	0		
WCIA	D34 DT CP	91.0	357	77.0	338	77.0	338		
WSIL-TV	D34 DT LIC	15.0	26	4.0	7	4.0	7		
WDAF-TV	D34 DT LIC	7.9	14	7.0	14	4.0	5		

Interference to BLEDT20040715ADL LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WQEC	D34	DT	LIC	QUINCY, IL	BLEDT20040715ADL	
Undesireds:	K3800-D	D34	LD	APP	JEFFERSON CITY, MO	K3800_Ch34_Omni_Move	159.0 km
	KTVO	D33	DT	APP	KIRKSVILLE, MO	BLANK0000035797	114.0
	KQIN	D34	DT	LIC	DAVENPORT, IA	BLEDT20120921ADS	167.7
	WCIA	D34	DT	CP	CHAMPAIGN, IL	BLANK0000072063	243.7
	WSIL-TV	D34	DT	LIC	HARRISBURG, IL	BLCDT20080718AAR	337.0
	WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLCDT20091008AAW	299.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
13209.9	184,254	13054.2	183,791	12940.3	183,409	12940.3	183,409	0.00	0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
K3800-D D34 LD APP	5.9	9		0.0 0
KTVO D33 DT APP	10.0	4	9.0 4	9.0 4
KQIN D34 DT LIC	5.9	0	3.0 0	2.0 0
WCIA D34 DT CP	91.0	357	76.0 338	76.0 338
WSIL-TV D34 DT LIC	15.0	26	4.0 7	4.0 7
WDAF-TV D34 DT LIC	7.9	14	7.0 14	4.0 5

Interference to BLEDT20040715ADL LIC scenario 3

Desired:	Call WQEC	Chan D34	Svc DT	Status LIC	City, State QUINCY, IL	File Number BLEDT20040715ADL	Distance
Undesireds:	K3800-D	D34	LD	APP	JEFFERSON CITY, MO	K3800_Ch34_Omni_Move	159.0 km
	KQIN	D34	DT	LIC	DAVENPORT, IA	BLEDT20120921ADS	167.7
	WCIA	D34	DT	CP	CHAMPAIGN, IL	BLANK0000072063	243.7
	WSIL-TV	D34	DT	LIC	HARRISBURG, IL	BLCDDT20080718AAR	337.0
	WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLCDDT20091008AAW	299.2

	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	13209.9 184,254	13054.2	183,791	12949.3	183,413	12949.3 183,413	0.00 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
K3800-D D34 LD APP	5.9	9		0.0 0
KQIN D34 DT LIC	5.9	0	3.0 0	2.0 0
WCIA D34 DT CP	91.0	357	77.0 338	77.0 338
WSIL-TV D34 DT LIC	15.0	26	4.0 7	4.0 7
WDAF-TV D34 DT LIC	7.9	14	7.0 14	4.0 5

Interference to BLCDDT20091008AAW LIC scenario 1

Desired:	Call WDAF-TV	Chan D34	Svc DT	Status LIC	City, State KANSAS CITY, MO	File Number BLCDDT20091008AAW	Distance
Undesireds:	K3800-D	D34	LD	APP	JEFFERSON CITY, MO	K3800_Ch34_Omni_Move	202.4 km
	WQEC	D34	DT	APP	QUINCY, IL	BLANK0000035763	299.2
	KMYT-TV	D34	DT	LIC	TULSA, OK	BLANK0000067647	351.7

	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	32843.2 2,538,643	32382.8	2,534,770	32254.6	2,534,137	32251.6 2,534,136	0.01 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
K3800-D D34 LD APP	16.9	58		3.0 1
WQEC D34 DT APP	73.9	400	73.9 400	60.9 351
KMYT-TV D34 DT LIC	54.3	233	54.3 233	53.3 225

Interference to BLCDDT20091008AAW LIC scenario 2

Desired:	Call WDAF-TV	Chan D34	Svc DT	Status LIC	City, State KANSAS CITY, MO	File Number BLCDDT20091008AAW	Distance
Undesireds:	K3800-D	D34	LD	APP	JEFFERSON CITY, MO	K3800_Ch34_Omni_Move	202.4 km
	WQEC	D34	DT	LIC	QUINCY, IL	BLEDT20040715ADL	299.2
	KMYT-TV	D34	DT	LIC	TULSA, OK	BLANK0000067647	351.7

	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	32843.2 2,538,643	32382.8	2,534,770	32321.5	2,534,525	32308.6 2,534,487	0.04 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
K3800-D D34 LD APP	16.9	58		13.0 38
WQEC D34 DT LIC	6.9	12	6.9 12	4.0 0
KMYT-TV D34 DT LIC	54.3	233	54.3 233	53.3 225

Interference to BLDTL20130222ADC LIC scenario 1

Desired:	Call K34KX-D	Chan D34	Svc LD	Status LIC	City, State ROLLA, MO	File Number BLDTL20130222ADC	Distance
Undesireds:	K3800-D	D34	LD	APP	JEFFERSON CITY, MO	K3800_Ch34_Omni_Move	101.3 km
	WSIL-TV	D34	DT	LIC	HARRISBURG, IL	BLCDDT20080718AAR	258.5

W42EM-D	D34	LD	CP	MOUNT VERNON, IL	BLANK0000051636	160.7
WQEC	D34	DT	APP	QUINCY, IL	BLANK0000035763	229.8
WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLCDT20091008AAW	274.8
KSPR-LD	D34	LD	CP	SPRINGFIELD, MO	BLANK0000052519	133.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
2751.6	59,758	2683.0	59,256	2656.8	58,313	2644.7	58,031	0.46	0.48

Undesired	Total IX	Unique IX, before	Unique IX, after
K3800-D D34 LD APP	19.2 411	12.1 282	
WSIL-TV D34 DT LIC	8.1 76	4.0 7	2.0 0
W42EM-D D34 LD CP	1.0 2	1.0 2	1.0 2
WQEC D34 DT APP	4.0 69	0.0 0	0.0 0
WDAF-TV D34 DT LIC	5.0 69	0.0 0	0.0 0
KSPR-LD D34 LD CP	16.2 865	16.2 865	14.2 808

Interference to BLDTL20130222ADC LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K34KX-D	D34	LD	LIC	ROLLA, MO	BLDTL20130222ADC	
Undesireds:	K3800-D	D34	LD	APP	JEFFERSON CITY, MO	K3800_Ch34_Omni_Move	101.3 km
	WSIL-TV	D34	DT	LIC	HARRISBURG, IL	BLCDT20080718AAR	258.5
	W42EM-D	D34	LD	CP	MOUNT VERNON, IL	BLANK0000051636	160.7
	WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLCDT20091008AAW	274.8
	KSPR-LD	D34	LD	CP	SPRINGFIELD, MO	BLANK0000052519	133.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
2751.6	59,758	2683.0	59,256	2656.8	58,313	2644.7	58,031	0.46	0.48

Undesired	Total IX	Unique IX, before	Unique IX, after
K3800-D D34 LD APP	19.2 411	12.1 282	
WSIL-TV D34 DT LIC	8.1 76	4.0 7	2.0 0
W42EM-D D34 LD CP	1.0 2	1.0 2	1.0 2
WDAF-TV D34 DT LIC	5.0 69	1.0 0	0.0 0
KSPR-LD D34 LD CP	16.2 865	16.2 865	14.2 808

Interference to BLANK0000071882 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K350Y-D	D35	LD	CP	COLUMBIA, MO	BLANK0000071882	
Undesireds:	K3800-D	D34	LD	APP	JEFFERSON CITY, MO	K3800_Ch34_Omni_Move	3.7 km
	K35KX-D	D35	LD	LIC	TOPEKA, KS	BLANK0000010828	325.3
	KSDK	D35	DT	LIC	ST. LOUIS, MO	BLCDT19991202ABM	171.8
	K36LJ-D	D36	LD	CP	JEFFERSON CITY, MO	BLANK0000001283	1.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
5867.2	295,934	5687.9	293,519	5586.1	292,233	5585.1	292,233	0.02	0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
K3800-D D34 LD APP	1.0 0	1.0 0	
KSDK D35 DT LIC	100.8 1,286	100.8 1,286	100.8 1,286
K36LJ-D D36 LD CP	1.0 0	1.0 0	1.0 0

Interference to proposal scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	K3800-D	D34	LD	APP	JEFFERSON CITY, MO	K3800_Ch34_Omni_Move	
Undesireds:	K33MN-D	D33	LD	CP	JEFFERSON CITY, MO	BLANK0000001282	2.9 km
	WQEC	D34	DT	APP	QUINCY, IL	BLANK0000035763	159.0
	WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLCDT20091008AAW	202.4
	K34KX-D	D34	LD	LIC	ROLLA, MO	BLDTL20130222ADC	101.3
	K350Y-D	D35	LD	CP	COLUMBIA, MO	BLANK0000071882	3.7

Service area		Terrain-limited		IX-free		Percent IX	
6007.5	300,261	5902.4	299,362	5765.3	298,029	2.32	0.45

Undesired	Total IX	Unique IX	Prcnt Unique IX
K33MN-D D33 LD CP	3.0 0	2.0 0	0.03 0.00

WQEC D34 DT APP	63.2	799	47.1	543	0.80	0.18
WDAF-TV D34 DT LIC	87.0	790	70.0	534	1.19	0.18
K34KX-D D34 LD LIC	1.0	18	0.0	0	0.00	0.00
K35OY-D D35 LD CP	2.0	0	1.0	0	0.02	0.00

Interference to proposal scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K3800-D	D34	LD	APP	JEFFERSON CITY, MO	K3800_Ch34_Omni_Move	
Undesireds:	K33MN-D	D33	LD	CP	JEFFERSON CITY, MO	BLANK0000001282	2.9 km
	WQEC	D34	DT	LIC	QUINCY, IL	BLEDT20040715ADL	159.0
	WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLCDT20091008AAW	202.4
	K34KX-D	D34	LD	LIC	ROLLA, MO	BLDTL20130222ADC	101.3
	K35OY-D	D35	LD	CP	COLUMBIA, MO	BLANK0000071882	3.7

Service area		Terrain-limited		IX-free		Percent IX	
6007.5	300,261	5902.4	299,362	5809.4	298,561	1.58	0.27

Undesired	Total IX			Unique IX	Prcnt Unique IX		
K33MN-D D33 LD CP	3.0	0	2.0	0	0.03	0.00	
WQEC D34 DT LIC	4.0	11	3.0	11	0.05	0.00	
WDAF-TV D34 DT LIC	87.0	790	84.0	772	1.42	0.26	
K34KX-D D34 LD LIC	1.0	18	0.0	0	0.00	0.00	
K35OY-D D35 LD CP	2.0	0	1.0	0	0.02	0.00	