

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Topeka32d15kwFlashIincT, Model: Longley-Rice

Start: 2021.07.06 13:10:36

Study created: 2021.07.06 13:10:35

Study build station data: LMS TV 2021-07-06

Proposal: KQKC-LP D32 LD APP TOPEKA, KS

Facility ID: 128050

Station data: User record

Record ID: 443

Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KDCU-DT	D31	DT	APP	DERBY, KS	BLANK0000149881	184.0 km
No	KDCU-DT	D31	DT	LIC	DERBY, KS	BLCDT20090821AAM	184.0
No	K31BW	N31	TX	LIC	MANHATTAN, KS	BLTTL19890119II	42.6
No	KCWE	D31	DT	LIC	KANSAS CITY, MO	BLCDT20051014ABT	142.5
No	KMTV-TV	D31	DT	LIC	OMAHA, NE	BLANK0000074904	249.1
No	KWNL-CD	D32	DC	LIC	BENTONVILLE, AR	BLANK0000055355	368.5
No	K32NM-D	D32	LD	LIC	DES MOINES, IA	BLANK0000080995	353.5
No	KMEG	D32	DT	LIC	SIOUX CITY, IA	BLANK0000064025	391.1
No	WTJR	D32	DT	LIC	QUINCY, IL	BLCDT20091110ADL	426.8
No	KDDC-LD	D32	LD	LIC	DODGE CITY, KS	BLDTL20130129AKQ	366.5
No	K32LJ-D	D32	LD	CP	GRAINFIELD, KS	BNPDTL20100514AGQ	372.3
Yes	K32JQ-D	D32	LD	LIC	MANHATTAN, KS	BLDTL20140501AAZ	42.6
No	K32LI-D	D32	LD	CP	WILSON, KS	BNPDTL20100514AHN	189.5
No	K32OW-D	D32	LD	CP	Iberia, MO	BLANK0000149748	353.9
Yes	KSMO-TV	D32	DT	LIC	KANSAS CITY, MO	BLANK0000072612	146.3
No	KCLG-LD	D32	LD	LIC	NEOSHO, MO	BLDTL20120522ADN	288.2
No	KAJS-LD	D32	LD	LIC	LINCOLN, NE	BLANK0000069610	223.2
No	KRSU-TV	D32	DT	LIC	CLAREMORE, OK	BLANK0000067907	300.5

No	K19IR-D	D32	LD	CP	ENID, OK	BLANK0000052042	336.7
No	K32IW-D	D32	LD	CP	TULSA, OK	BDCCDTT20081211AAD	319.9
No	KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	244.6
No	KGKC-LD	D33	LD	LIC	LAWRENCE, KS	BLANK0000063669	142.8
Yes	WIBW-TV	D33	LD	CP	TOPEKA, KS	BLANK0000054107	12.3
No	KSCW-DT	D33	LD	LIC	WICHITA, KS	BLCDT20120606ABO	176.8
No	K33AC-D	D33	LD	LIC	PAWNEE CITY, NE	BLDDTT20081114ACQ	125.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D32
Mask: Stringent
Latitude: 39 4 5.40 N (NAD83)
Longitude: 96 10 1.40 W
Height AMSL: 332.0 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: Omnidirectional
Elev Pattn: Generic

50.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	17.3 m	29.8 km
45.0	15.0	30.0	29.8
90.0	15.0	33.7	30.8
135.0	15.0	-44.6	29.8
180.0	15.0	-55.3	29.8
225.0	15.0	-24.2	29.8
270.0	15.0	-19.2	29.8
315.0	15.0	-16.4	29.8

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: -10 m

Distance to Canadian border: 1061.8 km

Distance to Mexican border: 1138.8 km

Conditions at FCC monitoring station: Grand Island NE

Bearing: 317.7 degrees Distance: 282.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 281.4 degrees Distance: 784.2 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 BLDTL20140501AAZ LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance				
Desired:	K32JQ-D	D32	LD	LIC	MANHATTAN, KS	BLDTL20140501AAZ					
Undesireds:	KQKC-LP	N32z	TX	LIC	TOPEKA, KS	BLTTL20100128AAE	42.6 km				
	KQKC-LP	D32	LD	APP	TOPEKA, KS		42.6				
	K31BW	N31	TX	LIC	MANHATTAN, KS	BLTTL19890119II	0.0				
	KSMO-TV	D32	DT	LIC	KANSAS CITY, MO	BLANK0000072612	185.5				
Service area	1477.1	88,089	Terrain-limited	1425.3	82,412	IX-free, before 1355.8	80,381	IX-free, after 1327.0	80,345	Percent New IX 2.13	0.04
Undesired			Total IX		Unique IX, before		Unique IX, after				
KQKC-LP N32z TX LIC		1.0	0		0.0		0				
KQKC-LP D32 LD APP		36.8	36			28.9	36				
K31BW N31 TX LIC		1.0	113		1.0	113	1.0	113			

KSMO-TV D32 DT LIC	68.5	1,918	67.5	1,918	60.6	1,918
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Interference to BLANK0000072612 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	KSMO-TV	D32	DT	LIC	KANSAS CITY, MO	BLANK0000072612			
Undesireds:	KQKC-LP	N32z	TX	LIC	TOPEKA, KS	BLTTL20100128AAE	146.3 km		
	KQKC-LP	D32	LD	APP	TOPEKA, KS		146.3		
	KCWE	D31	DT	LIC	KANSAS CITY, MO	BLCDT20051014ABT	3.9		
	WTJR	D32	DT	LIC	QUINCY, IL	BLCDT20091110ADL	286.8		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
31989.4 2,398,721		31566.3 2,396,185		31453.4 2,395,725		31335.1 2,386,348	0.38 0.39		
Undesired				Total IX	Unique IX, before	Unique IX, after			
KQKC-LP N32z TX LIC	0.0			0	0.0	0			
KQKC-LP D32 LD APP	118.3			9,377		118.3 9,377			
KCWE D31 DT LIC	2.0			4	2.0	4			
WTJR D32 DT LIC	110.9			456	110.9	456			

Interference to BLANK0000054107 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WIBW-TV	D33	LD	CP	TOPEKA, KS	BLANK0000054107	
Undesireds:	KQKC-LP	N32z	TX	LIC	TOPEKA, KS	BLTTL20100128AAE	12.3 km
	KQKC-LP	D32	LD	APP	TOPEKA, KS		12.3
	K32JQ-D	D32	LD	LIC	MANHATTAN, KS	BLDTL20140501AAZ	54.7
	KGKC-LD	D33	LD	LIC	LAWRENCE, KS	BLANK0000063669	132.6
	KTVO	D33	DT	CP	KIRKSVILLE, MO	BLANK0000111691	351.6
	K33AC-D	D33	LD	LIC	PAWNEE CITY, NE	BLDTT20081114ACQ	133.4
	K34LZ-D	D34	LD	CP	FORT RILEY, KS	BNPDTL20100510AFL	54.6
	WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLCDT20091008AAW	125.7
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX

11286.4	309,998	11169.0	307,128	11052.7	291,114	11042.7	291,019	0.09	0.03
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Undesired			Total IX		Unique IX, before		Unique IX, after
KQKC-LP N32z TX LIC	0.0		0	0.0	0		
KQKC-LP D32 LD APP	9.9		95			9.9	95
K32JQ-D D32 LD LIC	30.8		14,526	20.9	10,683	20.9	10,683
KGKC-LD D33 LD LIC	32.9		3,555	29.9	282	29.9	282
K33AC-D D33 LD LIC	4.9		68	4.9	68	4.9	68
K34LZ-D D34 LD CP	58.7		3,294	49.7	1,127	49.7	1,127
WDAF-TV D34 DT LIC	1.0		11	0.0	0	0.0	0

Interference to proposal scenario 1
43.83% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KQKC-LP	D32	LD	APP	TOPEKA, KS		
Undesireds:	K32JQ-D	D32	LD	LIC	MANHATTAN, KS	BLDTL20140501AAZ	42.6 km
	KSMO-TV	D32	DT	LIC	KANSAS CITY, MO	BLANK0000072612	146.3
	WIBW-TV	D33	LD	CP	TOPEKA, KS	BLANK0000054107	12.3

	Service area		Terrain-limited		IX-free		Percent IX
2798.3	26,613	2573.2	25,446	1947.5	14,294	24.32	43.83

Undesired			Total IX		Unique IX		Prcnt Unique IX
K32JQ-D D32 LD LIC	155.2		2,155	13.9	177	0.54	0.70
KSMO-TV D32 DT LIC	306.5		3,371	15.9	34	0.62	0.13
WIBW-TV D33 LD CP	565.1		10,928	289.4	6,930	11.25	27.23