tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: JeffersonCity33d7kwincEltiat0fA1, Model: Longley-Rice
Start: 2022.05.17 13:21:58

Study created: 2022.05.17 13:21:58

Study build station data: LMS TV 2022-05-18

    Proposal: K33MN-D D33 LD LIC JEFFERSON CITY, MO
 Facility ID: 184504
Station data: User record
   Record ID: 2094
     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	W18CJ	N18-	TX	LIC	QUINCY, IL	BLTTL20011120AAN	161.0 km
No	WTJR	D32	DT	LIC	QUINCY, IL	BLCDT20091110ADL	161.0
No	KFVS-TV	D32	DT	CP	CAPE GIRARDEAU, MO	BLANK0000150355	267.0
No	KSMO-TV	D32	DT	LIC	KANSAS CITY, MO	BLANK0000153303	208.8
No	KRMS-LD	D32	LD	LIC	Lake Ozark, MO	BLANK0000181605	69.2
No	KUMO-LD	D32	LD	CP	ST LOUIS, MO	BLANK0000030456	156.4
No	KHMF-LD	D33+	LD	LIC	FORT SMITH, AR	BLANK0000116534	401.6
No	KNWA-TV	D33	DT	LIC	ROGERS, AR	BLANK0000106176	297.4
No	WOI-DT	D33	LD	CP	AMES, IA	BLANK0000054850	349.6
No	KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	427.9
No	K20KF-D	D33	LD	CP	DAVENPORT, IA	BLANK0000051752	341.2
No	W33EK-D	D33	LD	LIC	EFFINGHAM, IL	BLANK0000099422	330.1
No	W33AY-D	D33	LD	LIC	SPRINGFIELD, IL	BLDTL20101122ABA	250.0
No	KGKC-LD	D33	LD	LIC	LAWRENCE, KS	BLANK0000063669	210.9
No	WIBW-TV	D33	LD	CP	TOPEKA, KS	BLANK0000054107	342.1
No	KDSI-LD	D33	LD	APP	JOPLIN, MO	BLANK0000179363	275.5
No	KDSI-LD	D33	LD	CP	JOPLIN, MO	BDCCDTL20110215AAK	275.4
No	KTVO	D33	DT	LIC	KIRKSVILLE, MO	BLANK0000158746	209.6
Yes	KTVI	D33	DT	LIC	ST. LOUIS, MO	BLANK0000158068	152.6
No	WPXX-TV	D33	DT	LIC	MEMPHIS, TN	BLANK0000063435	434.7
No	WQEC	D34	DT	CP	QUINCY, IL	BLANK0000035763	162.3

No	WQEC	D34	DT	LIC	QUINCY, IL	BLEDT20040715ADL	162.3
No	WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLANK0000155694	218.9
No	KSPR-LD	D34	LD	LIC	SPRINGFIELD, MO	BLANK0000108532	180.1

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

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    Channel: D33
       Mask: Full Service
   Latitude:  38 39 37.70 N (NAD83)
  Longitude:  92  7 22.00 W
Height AMSL: 292.7 m
       HAAT: 0.0 m
   Peak ERP: 7.00 kW
    Antenna: ELTI-ELTI UHF Panel (ID 1008435) 0.0 deg
Elev Pattrn: Generic
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50.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	7.00 kW	48.9 m	31.4 km
45.0	1.41	60.7	26.0
90.0	0.005	91.4	8.2
135.0	0.053	96.4	14.7
180.0	0.017	97.1	11.2
225.0	0.038	90.5	13.0
270.0	0.006	101.6	8.8
315.0	1.50	71.9	28.0

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 82 m

Distance to Canadian border: 845.8 km

Distance to Mexican border: 1303.7 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 297.0 degrees Distance: 594.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 282.3 degrees Distance: 1136.1 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 BLANK0000158068 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTVI	D33	DT	LIC	ST. LOUIS, MO	BLANK0000158068	
Undesireds:	K33MN-D	D33	LD	LIC	JEFFERSON CITY, MO		152.6 km
	KFVS-TV	D32	DT	CP	CAPE GIRARDEAU, MO	BLANK0000150355	144.6
	WTIU	D33	DT	LIC	BLOOMINGTON, IN	BLANK0000087599	342.4
	KTVO	D33	DT	LIC	KIRKSVILLE, MO	BLANK0000158746	283.9
	WPXX-TV	D33	DT	LIC	MEMPHIS, TN	BLANK0000063435	372.8
	WSIL-TV	D34	DT	LIC	HARRISBURG, IL	BLCDT20080718AAR	166.5
	WQEC	D34	DT	CP	QUINCY, IL	BLANK0000035763	179.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
32260.9	2,996,454	31803.9	2,991,022	31520.4	2,980,487	31519.4	2,980,487	0.00
0.00								

Undesired		Total IX		Unique IX, before		Unique IX, after	
K33MN-D D33 LD LIC	1.0	0				1.0	0
KFVS-TV D32 DT CP	222.4	10,190		167.0	6,369	167.0	6,369
WTIU D33 DT LIC	10.0	343		7.0	0	7.0	0
KTVO D33 DT LIC	26.8	115		26.8	115	26.8	115
WPXX-TV D33 DT LIC	1.0	0		1.0	0	1.0	0
WSIL-TV D34 DT LIC	81.7	4,051		25.2	230	25.2	230

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Interference to BLANK0000158068 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTVI	D33	DT	LIC	ST. LOUIS, MO	BLANK0000158068	
Undesireds:	K33MN-D	D33	LD	LIC	JEFFERSON CITY, MO		152.6 km
	KFVS-TV	D32	DT	BL	CAPE GIRARDEAU, MO	DTVBL592	144.6
	WTIU	D33	DT	LIC	BLOOMINGTON, IN	BLANK0000087599	342.4
	KTVO	D33	DT	LIC	KIRKSVILLE, MO	BLANK0000158746	283.9
	WPXX-TV	D33	DT	LIC	MEMPHIS, TN	BLANK0000063435	372.8
	WSIL-TV	D34	DT	LIC	HARRISBURG, IL	BLCDT20080718AAR	166.5
	WQEC	D34	DT	CP	QUINCY, IL	BLANK0000035763	179.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
32260.9	2,996,454	31803.9	2,991,022	31520.4	2,980,487	31519.4	2,980,487	0.00
0.00								

Undesired	Total IX		Unique IX, before		Unique IX, after	
K33MN-D D33 LD LIC	1.0	0			1.0	0
KFVS-TV D32 DT BL	222.4	10,190	167.0	6,369	167.0	6,369
WTIU D33 DT LIC	10.0	343	7.0	0	7.0	0
KTVO D33 DT LIC	26.8	115	26.8	115	26.8	115
WPXX-TV D33 DT LIC	1.0	0	1.0	0	1.0	0
WSIL-TV D34 DT LIC	81.7	4,051	25.2	230	25.2	230

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Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K33MN-D	D33	LD	LIC	JEFFERSON CITY, MO		
Undesireds:	KDSI-LD	D33	LD	APP	JOPLIN, MO	BLANK0000179363	275.5 km
	KTVO	D33	DT	LIC	KIRKSVILLE, MO	BLANK0000158746	209.6
	KTVI	D33	DT	LIC	ST. LOUIS, MO	BLANK0000158068	152.6

Service area		Terrain-limited		IX-free		Percent IX	
1200.9	56,992	1157.8	56,655	1135.8	55,956	1.90	1.23

Undesired		Total IX		Unique IX	Prcnt Unique IX	
KTVO D33 DT LIC	2.0	78	1.0	0	0.09	0.00
KTVI D33 DT LIC	21.0	699	20.0	621	1.73	1.10