

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: columbiaMO33d8kwinceltiat270f, Model: Longley-Rice

Start: 2021.08.30 10:31:52

Study created: 2021.08.30 10:31:52

Study build station data: LMS TV 2021-08-30

Proposal: K33MN-D D33 LD CP JEFFERSON CITY, MO

Facility ID: 184504

Station data: User record

Record ID: 954

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	BLTTTL20011120AAN	139.1 km
No	WTJR	D32	DT	LIC	QUINCY, IL	BLCDT20091110ADL	139.1
No	K32OW-D	D32	LD	LIC	Iberia, MO	BLANK0000157500	97.4
No	K32OW-D	D32	LD	CP	Iberia, MO	BLANK0000157861	92.5
No	KSMO-TV	D32	DT	LIC	KANSAS CITY, MO	BLANK0000153303	190.5
No	KUMO-LD	D32	LD	CP	ST LOUIS, MO	BLANK0000030456	174.0
No	KHMF-LD	D33+	LD	LIC	FORT SMITH, AR	BLANK0000116534	424.2
No	KNWA-TV	D33	DT	LIC	ROGERS, AR	BLANK0000106176	318.9
No	WOI-DT	D33	LD	CP	AMES, IA	BLANK0000054850	314.4
No	KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	396.2
No	K20KF-D	D33	LD	CP	DAVENPORT, IA	BLANK0000051752	314.0
No	W33EK-D	D33	LD	LIC	EFFINGHAM, IL	BLANK0000099422	337.3
No	W33AY-D	D33	LD	LIC	SPRINGFIELD, IL	BLDTL20101122ABA	246.9
No	KGKC-LD	D33	LD	LIC	LAWRENCE, KS	BLANK0000063669	193.8

No	WIBW-TV	D33	LD	CP	TOPEKA, KS	BLANK0000054107	326.4
No	KDSI-LD	D33	LD	CP	JOPLIN, MO	BDCCDTL20110215AAK	288.0
No	KTVO	D33	DT	CP	KIRKSVILLE, MO	BLANK0000111691	175.6
No	KTVO	D33	DT	LIC	KIRKSVILLE, MO	BLCDT20030604AAC	175.6
No	KTVI	D33	DT	LIC	ST. LOUIS, MO	BLANK0000158068	171.1
No	KTVI	D33	DT	LIC	ST. LOUIS, MO	BLANK0000108077	171.1
No	K33AC-D	D33	LD	LIC	PAWNEE CITY, NE	BLDTT20081114ACQ	375.2
No	WPXX-TV	D33	DT	LIC	MEMPHIS, TN	BLANK0000063435	469.7
No	WQEC	D34	DT	CP	QUINCY, IL	BLANK0000035763	140.6
No	WQEC	D34	DT	LIC	QUINCY, IL	BLEDT20040715ADL	140.6
No	K34QP-D	D34	LD	CP	JEFFERSON CITY, MO	BLANK0000074374	17.5
No	WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLANK0000155694	201.1
No	KSPR-LD	D34	LD	LIC	SPRINGFIELD, MO	BLANK0000108532	206.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D33
 Mask: Stringent
 Latitude: 38 57 19.00 N (NAD83)
 Longitude: 92 16 21.00 W
 Height AMSL: 242.7 m
 HAAT: 0.0 m
 Peak ERP: 8.00 kW
 Antenna: ELTI-ELTI UHF Panel (ID 1008435) 270.0 deg
 Elev Pattn: Generic

50.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.006 kW	-12.3 m	4.9 km
45.0	0.061	-24.5	8.6

90.0	0.020	-18.9	6.6
135.0	0.043	-9.5	7.9
180.0	0.007	0.8	5.0
225.0	1.71	27.7	19.7
270.0	8.00	32.4	27.4
315.0	1.61	28.3	19.5

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 3 m

Distance to Canadian border: 842.8 km

Distance to Mexican border: 1318.9 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 294.6 degrees Distance: 568.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 280.7 degrees Distance: 1116.8 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 proposal scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
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Desired:	K33MN-D	D33	LD	CP	JEFFERSON CITY, MO		
Undesireds:	K32OW-D	D32	LD	LIC	Iberia, MO	BLANK0000157500	97.4 km
	KTVO	D33	DT	CP	KIRKSVILLE, MO	BLANK0000111691	175.6
	KTVI	D33	DT	LIC	ST. LOUIS, MO	BLANK0000158068	171.1
	K34QP-D	D34	LD	CP	JEFFERSON CITY, MO	BLANK0000074374	17.5

Service area		Terrain-limited		IX-free		Percent IX
720.4	134,658	694.5	134,616	652.7	134,107	6.02 0.38

Undesired		Total IX		Unique IX	Prcnt Unique IX
KTVO D33 DT CP	1.0	25	0.0	0	0.00 0.00
KTVI D33 DT LIC	38.8	438	36.9	413	5.31 0.31
K34QP-D D34 LD CP	4.0	71	3.0	71	0.43 0.05

Interference to proposal scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K33MN-D	D33	LD	CP	JEFFERSON CITY, MO		
Undesireds:	K32OW-D	D32	LD	LIC	Iberia, MO	BLANK0000157500	97.4 km
	KTVO	D33	DT	CP	KIRKSVILLE, MO	BLANK0000111691	175.6
	KTVI	D33	DT	LIC	ST. LOUIS, MO	BLANK0000108077	171.1
	K34QP-D	D34	LD	CP	JEFFERSON CITY, MO	BLANK0000074374	17.5

Service area		Terrain-limited		IX-free		Percent IX
720.4	134,658	694.5	134,616	652.7	134,107	6.02 0.38

Undesired		Total IX		Unique IX	Prcnt Unique IX
KTVO D33 DT CP	1.0	25	0.0	0	0.00 0.00
KTVI D33 DT LIC	38.8	438	36.9	413	5.31 0.31
K34QP-D D34 LD CP	4.0	71	3.0	71	0.43 0.05

Interference to proposal scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K33MN-D	D33	LD	CP	JEFFERSON CITY, MO		
Undesireds:	K32OW-D	D32	LD	LIC	Iberia, MO	BLANK0000157500	97.4 km
	KTVI	D33	DT	LIC	ST. LOUIS, MO	BLANK0000158068	171.1
	K34QP-D	D34	LD	CP	JEFFERSON CITY, MO	BLANK0000074374	17.5
	Service area		Terrain-limited		IX-free	Percent IX	
	720.4	134,658	694.5	134,616	652.7	134,107	6.02 0.38
Undesired				Total IX		Unique IX	Prcnt Unique IX
KTVI D33 DT LIC		38.8		438	37.9	438	5.45 0.33
K34QP-D D34 LD CP		4.0		71	3.0	71	0.43 0.05

Interference to proposal scenario 4

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K33MN-D	D33	LD	CP	JEFFERSON CITY, MO		
Undesireds:	K32OW-D	D32	LD	LIC	Iberia, MO	BLANK0000157500	97.4 km
	KTVI	D33	DT	LIC	ST. LOUIS, MO	BLANK0000108077	171.1
	K34QP-D	D34	LD	CP	JEFFERSON CITY, MO	BLANK0000074374	17.5
	Service area		Terrain-limited		IX-free	Percent IX	
	720.4	134,658	694.5	134,616	652.7	134,107	6.02 0.38
Undesired				Total IX		Unique IX	Prcnt Unique IX
KTVI D33 DT LIC		38.8		438	37.9	438	5.45 0.33
K34QP-D D34 LD CP		4.0		71	3.0	71	0.43 0.05