

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Columbia21d15kwTUA100F, Model: Longley-Rice

Start: 2021.06.28 12:51:23

Study created: 2021.06.28 12:51:23

Study build station data: LMS TV 2021-06-28

Proposal: K42KE-D D21 LD APP COLUMBIA, MO

Facility ID: 185772

Station data: User record

Record ID: 382

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	KNLJ	D20	DT	LIC	JEFFERSON CITY, MO	BLCDT20110121ACA	32.1 km
No	KEFN-CD	D20z	DC	LIC	ST. LOUIS, MO	BLANK0000146089	183.9
No	K21JS	N21	TX	LIC	HARRISON, AR	BLTTTL20111121DXG	312.8
No	K21JS	D21	LD	CP	HARRISON, AR	BDFCDTL20091204AEC	312.8
No	KGCW	D21	DT	LIC	BURLINGTON, IA	BLANK0000107917	308.8
No	KAJR-LD	D21	LD	LIC	Des moines, IA	BLANK0000106669	327.9
No	W21ED-D	D21	LD	CP	MOUNT VERNON, IL	BLANK0000071888	311.9
No	WEAE-LD	D21	LD	CP	SPRINGFIELD, IL	BLANK0000071904	246.9
No	KKSU-LD	D21z	LD	LIC	MANHATTAN, KS	BLANK0000008588	372.3
No	K21OU-D	D21	LD	CP	CAPE GIRARDEAU, MO	BLANK0000071878	271.5
No	KGCS-LD	D21	LD	LIC	JOPLIN, MO	BLANK0000078095	288.5
No	KRFT-LD	D21	LD	CP	SPRINGFIELD, MO	BLANK0000131021	210.3
No	KRFT-LD	D21	LD	LIC	SPRINGFIELD, MO	BLDTL20110913ACE	212.3
No	KTAJ-TV	D21	DT	LIC	ST. JOSEPH, MO	BLCDT20060703AAK	193.8
No	KWBE-LD	D21	LD	LIC	BEATRICE, NE	BLANK0000008496	412.0
No	KQMK-LD	D21	LD	LIC	OMAHA, NE	BLANK0000116995	401.9
No	WJKT	D21	DT	LIC	JACKSON, TN	BLANK0000114687	449.7
No	WVDM-LD	D22	LD	LIC	QUINCY, IL	BLANK0000083846	112.3

No	KMJC-LD	D22	LD	LIC	Kansas City, KS	BLANK0000016622	207.6
No	KHQA-TV	D22	DT	CP	HANNIBAL, MO	BLANK00000127627	138.9
No	KRBK	D22	DT	LIC	OSAGE BEACH, MO	BLANK00000063419	201.8
No	KLMC-LP	N28+	TX	LIC	JEFFERSON CITY, MO	BLTTL20050613AFP	43.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D21
Mask: Stringent
Latitude: 38 57 19.30 N (NAD83)
Longitude: 92 16 20.50 W
Height AMSL: 243.0 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: DIE-TUA (ID 120649) 100.0 deg
Elev Pattn: Generic

49.5 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.044 kW	-12.1 m	8.4 km
45.0	1.15	-24.2	19.1
90.0	13.9	-18.7	30.5
135.0	5.59	-9.2	26.4
180.0	0.013	1.0	6.3
225.0	0.077	27.9	9.7
270.0	0.045	32.8	8.8
315.0	0.030	28.3	7.7

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

Distance to Canadian border: 842.7 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

No land mobile station failures found

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

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Interference to proposal scenario 1
13.65% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K42KE-D	D21	LD	APP	COLUMBIA, MO		
Undesireds:	KNLJ	D20	DT	LIC	JEFFERSON CITY, MO	BLCDT20110121ACA	32.1 km
	K21JS	N21	TX	LIC	HARRISON, AR	BLTTL20111121DXG	312.8
	KRFT-LD	D21	LD	CP	SPRINGFIELD, MO	BLANK0000131021	210.3
	KTAJ-TV	D21	DT	LIC	ST. JOSEPH, MO	BLCDT20060703AAK	193.8

	Service area		Terrain-limited		IX-free		Percent IX
	922.9	111,110	864.1	105,032	525.1	90,695	39.23 13.65

Undesired			Total IX		Unique IX	Prcnt Unique IX
KNLJ D20 DT LIC		337.9	14,330	219.3	11,908	25.38 11.34
KTAJ-TV D21 DT LIC		119.6	2,429	1.0	7	0.12 0.01