

INTERFERENCE ANALYSIS FOR LICENSED KQFX-LD, COLUMBIA, MO, CHANNEL 22, WITH RESPECT TO KRBK-TV

tvstudy v2.2.5 (4uoc83)

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

Study build station data: LMS TV 2018-04-09

Proposal: KQFX-LD D22 LD LIC COLUMBIA, MO
File number: BLDLTL20090612AHA
Facility ID: 56176
Station data: LMS TV 2018-04-09
Record ID: 1851f04133ac4cbdb508cf6212b6c0ea
Country: U.S.

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	KTAJ-TV	D21	DT	LIC	ST. JOSEPH, MO	BLCDT20060703AAK	171.5 km
No	K22HS-D	D22	LD	LIC	EUREKA SPRINGS, AR	BLDLTL20110517ADA	288.2
No	KJNE-LD	D22z	LD	APP	JONESBORO, AR	BLANK0000029560	361.1
No	KATV	D22	DT	LIC	LITTLE ROCK, AR	BLCDT20090225AAV	442.2
No	KPXR-TV	D22	DT	CP	CEDAR RAPIDS, IA	BLANK0000034353	395.4
No	WBUI	D22	DT	LIC	DECATUR, IL	BLCDT20091119ACF	345.2
No	WTWV	D22	DT	CP	EVANSVILLE, IN	BLANK0000034881	460.0
No	K22KX-D	D22	LD	CP	EMPORIA, KS	BNPDLTL20100930ARN	312.7
No	KMJC-LD	D22	LD	LIC	Kansas City, KS	BLANK0000016622	180.3
No	KGCS-LD	D22	LD	LIC	JOPLIN, MO	BLDLTL20080918AAO	257.0
Yes	KRBK	D22	DT	CP	OSAGE BEACH, MO	BLANK0000035634	176.3
Yes	K22KA-D	D22	LD	CP	ROLLA, MO	BNPDLTL20100406AAM	112.4
No	WOWT	D22	DT	LIC	OMAHA, NE	BLCDT20110509AAN	408.2
No	KOKI-TV	D22	DT	LIC	TULSA, OK	BLCDT20021127AGL	411.4
Yes	K23MK-D	D23	LD	CP	COLUMBIA, MO	BNPDLTL20100423ACE	31.7
No	KODE-TV	D23	DT	CP	JOPLIN, MO	BLANK0000034841	257.6
Yes	K23LE-D	D23	LD	CP	SEDALIA, MO	BNPDLTL20100319AEZ	65.8
No	KETC	D23	DT	CP	ST. LOUIS, MO	BLANK0000034609	190.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D22

Mask: Simple
Latitude: 38 46 29.00 N (NAD83)
Longitude: 92 33 23.00 W
Height AMSL: 554.0 m
HAAT: 0.0 m
Peak ERP: 11.8 kW
Antenna: Omnidirectional
Elev Pattn: Generic
Elec Tilt: 0.50

49.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	11.8 kW	333.6 m	57.7 km
45.0	11.8	337.7	57.9
90.0	11.8	337.4	57.9
135.0	11.8	360.7	59.0
180.0	11.8	329.5	57.5
225.0	11.8	323.9	57.2
270.0	11.8	301.3	56.0
315.0	11.8	318.7	56.9

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 330 m

Distance to Canadian border: 873.6 km

Distance to Mexican border: 1287.6 km

Conditions at FCC monitoring station: Grand Island NE

Bearing: 297.3 degrees Distance: 554.9 km

INTERFERENCE ANALYSIS FOR LICENSED KQFX-LD, COLUMBIA, MO, CHANNEL 22, WITH RESPECT TO KRBK-TV

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 281.8 degrees Distance: 1096.6 km

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 BLANK0000035634 CP scenario 1

****IX: 1.93% interference caused**

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KRBK	D22	DT	CP	OSAGE BEACH, MO	BLANK0000035634	
Undesireds:	KQFX-LD	D22	LD	LIC	COLUMBIA, MO	BLDTL20090612AHA	176.3 km
	KATV	D22	DT	LIC	LITTLE ROCK, AR	BLCDT20090225AAV	272.4
	KOKI-TV	D22	DT	LIC	TULSA, OK	BLCDT20021127AGL	277.2
	KODE-TV	D23	DT	CP	JOPLIN, MO	BLANK0000034841	143.1
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
26732.3	724,288	26394.0		718,406	26001.4	712,295	25496.7 698,574 1.94 1.93
Undesired				Total IX	Unique IX, before		Unique IX, after
KQFX-LD	D22	LD	LIC	521.8	14,013	504.6	13,721
KATV	D22	DT	LIC	345.5	4,566	306.3	3,775
KOKI-TV	D22	DT	LIC	86.3	2,336	47.1	1,545
						46.1	1,343
