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

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: kqfx_lic2 #4871, Model: Longley-Rice

Study build station data: LMS TV 2019-12-11

    Proposal: KQFX-LD D22 LD LIC COLUMBIA, MO
 File number: BLANK0000091695
 Facility ID: 56176
Station data: LMS TV 2019-12-11
   Record ID: 25076f916e9045a4016ea314b3561cf2
     Country: U.S.

Search options:
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KTAJ-TV	D21	DT	LIC	ST. JOSEPH, MO	BLCDT20060703AAK	171.5 km
No	K22HS-D	D22	LD	LIC	EUREKA SPRINGS, AR	BLDTL20110517ADA	288.2
No	K22OC-D	D22	LD	CP	FORT SMITH, AR	BLANK0000071940	392.9
No	KJNE-LD	D22z	LD	LIC	JONESBORO, AR	BLANK0000055090	361.2
No	KATV	D22	DT	LIC	LITTLE ROCK, AR	BLCDT20090225AAV	442.3
No	KPXR-TV	D22	DT	LIC	CEDAR RAPIDS, IA	BLANK0000063428	395.3
No	WBUI	D22	DT	LIC	DECATUR, IL	BLCDT20091119ACF	345.2
Yes	WVDM-LD	D22	LD	LIC	QUINCY, IL	BLANK0000083846	142.4
No	WTVW	D22	DT	LIC	EVANSVILLE, IN	BLANK0000087257	460.1
No	K22KX-D	D22	LD	CP	EMPORIA, KS	BNPDTL20100930ARN	312.6
No	KMJC-LD	D22	LD	LIC	Kansas City, KS	BLANK0000016622	180.3
No	K40IJ-D	D22	LD	CP	TOPEKA, KS	BLANK0000030155	279.2
No	K22OF-D	D22	LD	CP	CAPE GIRARDEAU, MO	BLANK0000071880	281.1
Yes	KRBK	D22	DT	LIC	OSAGE BEACH, MO	BLANK0000063419	176.4
No	WOWT	D22	DT	LIC	OMAHA, NE	BLCDT20110509AAN	408.1
No	KOKI-TV	D22	DT	LIC	TULSA, OK	BLCDT20021127AGL	411.5
Yes	K23MK-D	D23	LD	CP	COLUMBIA, MO	BNPDTL20100423ACE	31.7
No	KODE-TV	D23	DT	LIC	JOPLIN, MO	BLANK0000071606	257.6
No	KCDN-LD	D23	LD	CP	KANSAS CITY, MO	BLANK0000051767	171.5
Yes	K23PC-D	D23	LD	CP	ROLLA, MO	BLANK0000071816	112.5
Yes	K23LE-D	D23	LD	CP	SEDALIA, MO	BNPDTL20100319AEZ	65.8
No	KETC	D23	DT	LIC	ST. LOUIS, MO	BLANK0000055432	190.3

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 32.10 N (NAD83)
  Longitude: 92 33 24.90 W
Height AMSL: 575.6 m
       HAAT: 0.0 m
   Peak ERP: 10.0 kW
    Antenna: RFS-RD24OM488548L3S (ID 1005887) 0.0 deg
Elev Pattrn: Generic
  Elec Tilt: 0.75

49.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	5.87 kW	356.6 m	55.1 km
45.0	9.27	357.6	57.6
90.0	9.45	360.5	57.8
135.0	6.35	381.2	56.6
180.0	3.67	351.5	52.3
225.0	4.56	345.1	53.2
270.0	4.73	321.7	52.2
315.0	3.65	341.4	51.8

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m   Computed HAAT: 352 m

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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: 554.8 km

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 proposal scenario 1
5.22% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KQFX-LD	D22	LD	LIC	COLUMBIA, MO	BLANK0000091695	
Undesireds:	WVDM-LD	D22	LD	LIC	QUINCY, IL	BLANK0000083846	142.4 km
	KRBK	D22	DT	LIC	OSAGE BEACH, MO	BLANK0000063419	176.4
	K23MK-D	D23	LD	CP	COLUMBIA, MO	BNPDTL20100423ACE	31.7
	K23LE-D	D23	LD	CP	SEDALIA, MO	BNPDTL20100319AEZ	65.8

Service area		Terrain-limited		IX-free		Percent IX	
9370.7	339,117	9278.5	338,219	8815.5	320,561	4.99	5.22

Undesired	Total IX		Unique IX		Prcnt Unique IX		
WVDM-LD D22 LD LIC	1.0	74	1.0	74	0.01	0.02	
KRBK D22 DT LIC	446.1	13,718	445.1	13,682	4.80	4.05	(Predicted interference received exceeding 2%.)
K23MK-D D23 LD CP	11.0	3,858	11.0	3,858	0.12	1.14	
K23LE-D D23 LD CP	6.0	44	5.0	8	0.05	0.00	
