

# INTERFERENCE ANALYSIS FOR LICENSED KCJO-LD, SAINT JOSEPH, MO, CHANNEL 28, WITH RESPECT TO KPXE-TV

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: kcjo\_lic, Model: Longley-Rice

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

Proposal: KCJO-LD D30 LD LIC SAINT JOSEPH, MO  
File number: BLDL20130726ABM  
Facility ID: 188057  
Station data: LMS TV 2018-04-09  
Record ID: 0884861eff7d47ca9d99cf6212b6c0ea  
Country: U.S.

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	KMBC-TV	D29	DT	LIC	KANSAS CITY, MO	BLCDT20090618ACY	79.1 km
No	KXVO	D29	DT	CP	OMAHA, NE	BLANK0000034544	187.9
No	KLJB	D30	DT	CP	DAVENPORT, IA	BLANK0000034774	414.9
No	K30NF-D	D30	LD	LIC	KEOKUK, IA	BLANK0000010562	300.0
No	K30NF-D	D30	LD	CP	KEOKUK, IA	BLANK0000010604	303.0
No	KPTH	D30	DT	CP	SIOUX CITY, IA	BLANK0000033734	335.8
No	KCAU-TV	D30	LD	APP	SIOUX CITY, IA	BLCDT20090903AAI	331.8
No	K30LZ-D	D30	LD	CP	FORT RILEY, KS	BNPDTL20100510AFK	175.2
No	KGBD-LD	D30	LD	LIC	GREAT BEND, KS	BLDTL20121217ACU	366.7
No	K30AL-D	D30	LD	LIC	IOLA, KS	BLDTT20090226ABD	206.1
No	K30NO-D	D30	LD	CP	PAXICO, KS	BNPDTL20100514AIC	137.5
No	K30LK-D	D30	LD	CP	SALINA, KS	BNPDTL20100419ACL	263.3
No	KSMI-LD	D30	LD	LIC	WICHITA, KS	BLANK0000011260	317.9
No	KSMI-LD	D30	LD	CP	WICHITA, KS	BDISDTL20111219ADQ	317.9
No	KCLJ-LP	D30	LD	CP	JOPLIN/CARTHAGE, MO	BDFCDTA20100813CAI	302.4
No	KCLJ-LP	N30z	TX	LIC	JOPLIN/CARTHAGE, MO	BLTTA20050506ACG	302.4
Yes	KPXE-TV	D30	DT	LIC	KANSAS CITY, MO	BLANK0000001701	85.6
No	K30MG-D	D30	LD	LIC	KIRKSVILLE, MO	BLDTT20120607ABF	202.7
No	KGHK-LD	D30	LD	CP	HASTINGS, NE	BLANK0000007861	352.5
No	K30BP-D	D30	LD	LIC	NORFOLK, NE	BLDTT20120105AAO	330.0
No	K46LF-D	D30	LD	APP	TULSA, OK	BLANK0000048993	412.6
No	KOTV-DT	D30	LD	LIC	TULSA, OK	BLCDT20120817ACF	322.2
No	K31BW	D31	LD	APP	MANHATTAN, KS	BDFCDTL20120117ABB	119.5
No	K31BW	N31	TX	LIC	MANHATTAN, KS	BLTTL19890119II	163.1
Yes	KCWE	D31	DT	LIC	KANSAS CITY, MO	BLCDT20051014ABT	79.1
No	KMTV-TV	D31	DT	CP	OMAHA, NE	BLANK0000026767	200.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

**Channel: D30**

Mask: Full Service  
Latitude: 39 45 0.00 N (NAD83)  
Longitude: 94 50 26.00 W  
Height AMSL: 358.0 m  
HAAT: 0.0 m  
Peak ERP: 0.750 kW  
Antenna: Omnidirectional  
Elev Pattn: Generic  
Elec Tilt: 0.75

50.3 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.750 kW	63.3 m	23.6 km
45.0	0.750	76.9	25.5
90.0	0.750	82.8	26.2
135.0	0.750	68.7	24.3
180.0	0.750	35.9	17.6
225.0	0.750	112.8	29.6
270.0	0.750	86.4	26.7
315.0	0.750	92.6	27.5

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 77 m

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Distance to Canadian border: 958.2 km

Distance to Mexican border: 1259.7 km

Conditions at FCC monitoring station: Grand Island NE  
Bearing: 294.4 degrees Distance: 330.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 276.2 degrees Distance: 885.5 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%

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Interference to BLANK0000001701 LIC scenario 1

**\*\*IX: 3.23% interference caused**

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KPXE-TV	D30	DT	LIC	KANSAS CITY, MO	BLANK0000001701	
Undesireds:	KCJO-LD	D30	LD	LIC	SAINT JOSEPH, MO	BLDTL20130726ABM	85.6 km
	KMBC-TV	D29	DT	LIC	KANSAS CITY, MO	BLCDT20090618ACY	6.8
	KCWE	D31	DT	LIC	KANSAS CITY, MO	BLCDT20051014ABT	6.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
32176.9	2,439,945	31908.3	2,438,780	31772.0	2,436,141	30334.1 2,357,409	4.53 <b>3.23</b>
Undesired		Total IX		Unique IX, before		Unique IX, after	
KCJO-LD D30 LD LIC		1482.8	80,062			1437.9 78,732	
KMBC-TV D29 DT LIC		101.6	2,243	13.0	508	5.0 308	
KCWE D31 DT LIC		123.4	2,131	34.7	396	27.8 251	

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