INTERFERENCE ANALYSIS FOR PROPOSED KCJO-LD, SAINT JOSEPH, MO, CHANNEL 28

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: kcjo28p03, Model: Longley-Rice

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

    Proposal: KCJO28P03 D28 LD APP SAINT JOSEPH, MO
 File number: kcjo28p03
 Facility ID: 188057
Station data: User record
   Record ID: 2588
     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	KKSU-LD	N21z	TX	LIC	MANHATTAN, KS	BLTTL19950512ID	161.6 km
No	KSNT	D27	DT	LIC	TOPEKA, KS	BLCDT20090910ABY	109.1
No	KOHA-LD	D27	LD	APP	OMAHA, NE	BLANK0000027874	200.1
No	K48MR-D	D28z	LD	APP	BENTONVILLE & ROGERS, AR	BLANK0000029375	379.3
No	WBXF-CD	D28z	DC	CP	DES MOINES, IA	BLANK0000035778	228.4
No	WBXF-CD	D28z	DC	LIC	DES MOINES, IA	BLANK0000005069	228.4
No	K28NF-D	D28	LD	APP	FORT DODGE, IA	BLANK0000010852	215.2
No	K28JD-D	D28	LD	LIC	FORT MADISON, IA	BLDTT20091229AEU	305.4
No	KSIN-TV	D28	DT	LIC	SIOUX CITY, IA	BLEDT20050726AMC	330.8
No	WRBU	D28	DT	CP	EAST ST. LOUIS, IL	BLANK0000034410	404.9
No	KWKD-LP	N28+	TX	LIC	WICHITA, KS	BLTT20050801AHP	313.4
No	KWKD-LP	D28	LD	CP	WICHITA, KS	BDFCDTL20101025AAU	317.9
No	KLMC-LP	N28+	TX	LIC	JEFFERSON CITY, MO	BLTTL20050613AFP	258.8
No	KLMC-LP	D28	LD	CP	JEFFERSON CITY, MO	BDFCDTL20120625ACS	243.6
No	KOZL-TV	D28	DT	LIC	SPRINGFIELD, MO	BLCDT20070213ABB	325.9
No	KHNE-TV	D28	DT	APP	HASTINGS, NE	BLANK0000035896	298.0
No	KHNE-TV	D28	DT	LIC	HASTINGS, NE	BLEDT20030409ABN	298.0
No	KTPX-TV	D28	DT	LIC	OKMULGEE, OK	BLCDT20020510AAQ	449.6
No	K38AK-D	D28	LD	APP	PONCA CITY, OK	BLANK0000029429	385.9
Yes	KMBC-TV	D29	DT	LIC	KANSAS CITY, MO	BLCDT20090618ACY	79.1
No	KXVO	D29	DT	CP	OMAHA, NE	BLANK0000034544	187.9

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D28
       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: 1.00 kW
    Antenna: Omnidirectional
Elev Pattrn: Generic
  Elec Tilt: 0.75

50.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	1.00 kW	63.3 m	25.2 km
45.0	1.00	76.9	27.2
90.0	1.00	82.8	28.0
135.0	1.00	68.7	26.0
180.0	1.00	35.9	19.2
225.0	1.00	112.8	31.3
270.0	1.00	86.4	28.4
315.0	1.00	92.6	29.2

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m   Computed HAAT: 77 m

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

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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 BLCDT20090618ACY LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KMBC-TV	D29	DT	LIC	KANSAS CITY, MO	BLCDT20090618ACY	
Undesireds:	KCJO28P03	D28	LD	APP	SAINT JOSEPH, MO	kcjo28p03	79.1 km
	KWOG	D29	DT	CP	SPRINGDALE, AR	BLANK0000034581	322.8
	KXVO	D29	DT	CP	OMAHA, NE	BLANK0000034544	264.4
	KTZT-CD	D29	DC	CP	TULSA, OK	BLANK0000036113	350.4
	KPXE-TV	D30	DT	LIC	KANSAS CITY, MO	BLANK0000001701	6.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
34003.1	2,511,626	33505.8	2,509,773	32618.3	2,488,476	32573.9	2,479,112	0.14	0.38

Undesired	Total IX		Unique IX, before		Unique IX, after	
KCJO28P03 D28 LD APP	72.5	14,949			44.3	9,364
KXVO D29 DT CP	737.4	18,051	727.4	17,387	700.2	12,320
KPXE-TV D30 DT LIC	160.1	3,910	150.2	3,246	150.2	3,246

Interference to BLCDT20090618ACY LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KMBC-TV	D29	DT	LIC	KANSAS CITY, MO	BLCDT20090618ACY	
Undesireds:	KCJO28P03	D28	LD	APP	SAINT JOSEPH, MO	kcjo28p03	79.1 km
	KWOG	D29	DT	CP	SPRINGDALE, AR	BLANK0000034581	322.8
	KXVO	D29	DT	BL	OMAHA, NE	DTVBL23277	264.4
	KTZT-CD	D29	DC	CP	TULSA, OK	BLANK0000036113	350.4
	KPXE-TV	D30	DT	LIC	KANSAS CITY, MO	BLANK0000001701	6.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
34003.1	2,511,626	33505.8	2,509,773	33028.0	2,496,968	32971.6	2,486,003	0.17	0.44

Undesired	Total IX		Unique IX, before		Unique IX, after	
KCJO28P03 D28 LD APP	72.5	14,949			56.4	10,965
KXVO D29 DT BL	323.6	9,439	317.6	8,895	302.5	5,429
KPXE-TV D30 DT LIC	160.1	3,910	154.2	3,366	154.2	3,366

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KCJO28P03	D28	LD	APP	SAINT JOSEPH, MO	kcjo28p03	
Undesireds:	WBXF-CD	D28z	DC	CP	DES MOINES, IA	BLANK0000035778	228.4 km
	KWKD-LP	N28+	TX	LIC	WICHITA, KS	BLTT20050801AHP	313.4
	KLMC-LP	N28+	TX	LIC	JEFFERSON CITY, MO	BLTTL20050613AFP	258.8
	KHNE-TV	D28	DT	APP	HASTINGS, NE	BLANK0000035896	298.0
	KMBC-TV	D29	DT	LIC	KANSAS CITY, MO	BLCDT20090618ACY	79.1

Service area		Terrain-limited		IX-free		Percent IX	
2309.8	115,003	2253.8	114,892	2251.8	114,892	0.09	0.00

Undesired	Total IX		Unique IX		Prcnt Unique IX	
KMBC-TV D29 DT LIC	2.0	0	2.0	0	0.09	0.00
