

INTERFERENCE ANALYSIS FOR KNPg-LD, SAINT JOSEPH, MO, CHANNEL 9 (INCREASE IN ANTENNA HEIGHT)

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: knpg9p12, Model: Longley-Rice

Study build station data: LMS TV 2018-11-30

Proposal: KNPg9P12 D9 LD APP SAINT JOSEPH, MO
File number: knpg9p12
Facility ID: 188055
Station data: User record
Record ID: 3468
Country: U.S.

Build options:
Protect pre-transition records not on baseline channel

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	KCCI	D8	DT	LIC	DES MOINES, IA	BLCDT20090619AAG	250.8 km
No	KCCI	D8	DT	APP	DES MOINES, IA	BLANK0000035699	250.8
No	KOMU-TV	D8	DT	LIC	COLUMBIA, MO	BLCDT20090612AFB	241.4
No	KLKN	D8	DT	APP	LINCOLN, NE	BLANK0000035726	243.9
No	KLKN	D8	DT	LIC	LINCOLN, NE	BLCDT20090618ACT	243.9
No	KAFT	D9	DT	LIC	FAYETTEVILLE, AR	BLEDT20100308ACN	443.3
No	KCRG-TV	D9	DT	LIC	CEDAR RAPIDS, IA	BLANK0000001351	379.2
No	KCAU-TV	D9	DT	LIC	SIOUX CITY, IA	BLCDT20100702BMT	336.0
No	KRKG-LP	D9+	LD	CP	LEWISTON, MO	BLANK0000019505	222.3
No	KRKG-LP	N9+	TX	LIC	LEWISTON, MO	BLTVL20071217AAP	258.4
No	KOLN	D10	DT	LIC	LINCOLN, NE	BLCDT20090226AAR	230.4

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D9
Mask: Stringent
Latitude: 39 45 2.80 N (NAD83)
Longitude: 94 50 25.80 W
Height AMSL: 360.6 m
HAAT: 0.0 m
Peak ERP: 3.00 kW
Antenna: Omnidirectional
Elev Pattn: Generic

48.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	3.00 kW	65.7 m	39.1 km
45.0	3.00	78.9	41.9
90.0	3.00	85.1	43.1
135.0	3.00	72.1	40.5
180.0	3.00	38.6	31.5
225.0	3.00	115.5	48.1
270.0	3.00	88.4	43.7
315.0	3.00	94.8	44.8

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 80 m

Distance to Canadian border: 958.1 km

Distance to Mexican border: 1259.7 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 294.3 degrees Distance: 330.7 km

Proposal is not within the West Virginia quiet zone area

INTERFERENCE ANALYSIS FOR KNPG-LD, SAINT JOSEPH, MO, CHANNEL 9 (INCREASE IN ANTENNA HEIGHT)

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%

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KNPG9P12	D9	LD	APP	SAINT JOSEPH, MO	knpg9p12	
Undesireds:	KRKG-LP	D9+	LD	CP	LEWISTON, MO	BLANK0000019505	222.3 km
	Service area			Terrain-limited		IX-free	Percent IX
	5524.0	145,440	5420.4	143,547	5420.4	143,547	0.00 0.00
