INTERFERENCE ANALYSIS FOR PROPOSED KUKC-LD, KANSAS CITY, MO (CHANNEL 14)

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: kukc14p9, Model: Longley-Rice

Study build station data: LMS TV 2018-06-01 #206

    Proposal: KUKC14P9 D14 LD APP KANSAS CITY, MO
 File number: kukc14p9
 Facility ID: 191352
Station data: User record
   Record ID: 2887
     Country: U.S.

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

Search options:
Baseline record excluded if station has CP
All APP records excluded

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KPBI-CD	D14	DC	LIC	BENTONVILLE, AR	BLANK0000001534	299.0 km
No	KBBA-LD	D14	LD	CP	Cedar Rapids, IA	BLANK0000004674	419.3
No	KBWF-LD	D14	LD	LIC	SIOUX CITY, IA	BLANK0000018408	411.5
No	KTIV	D14	DT	CP	SIOUX CITY, IA	BLANK0000034419	416.9
No	KOCW	D14	DT	LIC	HOISINGTON, KS	BLCDT20090622AFO	380.8
Yes	K14PX-D	D14	LD	CP	PAXICO, KS	BNPDTL20100514AIA	146.2
No	K14NX-D	D14	LD	CP	PITTSBURG, KS	BNPDTL20100106AGD	188.3
Yes	K14PQ-D	D14	LD	CP	SAINT JOSEPH, MO	BNPDTL20100902ABK	126.3
No	KNLC	D14	DT	LIC	ST. LOUIS, MO	BLCDT20061228AAC	350.4
No	K15IJ-D	D15	LD	CP	PITTSBURG, KS	BNPDTL20100106AGE	188.3
No	K15CN	D15	LD	CP	SALINA, KS	BMPDTL20121022AAF	223.7
Yes	KMOS-TV	D15	DT	LIC	SEDALIA, MO	BLEDT20030108ABK	148.6
No	KFXL-TV	D15	DT	LIC	LINCOLN, NE	BLANK0000001045	272.0

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:
KCTE 1510 L DAD D INDEPENDENCE, MO BL19830405AB
KDMR 1190 L DAN D KANSAS CITY, MO BML20140606ABH
KDMR 1190 L DAN N KANSAS CITY, MO BML20140606ABH

Record parameters as studied:

    Channel: D14
       Mask: Full Service
   Latitude: 39 4 24.00 N (NAD83)
  Longitude: 94 29 7.00 W
Height AMSL: 520.8 m
       HAAT: 0.0 m
   Peak ERP: 15.0 kW
    Antenna: Omnidirectional
Elev Pattrn: Generic
  Elec Tilt: 1.75

48.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	278.0 m	56.9 km
45.0	15.0	270.5	56.5
90.0	15.0	254.7	55.6
135.0	15.0	236.6	54.5
180.0	15.0	226.2	53.9
225.0	15.0	254.1	55.6
270.0	15.0	259.9	55.9
315.0	15.0	280.7	57.1

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m   Computed HAAT: 258 m

Distance to Canadian border: 1011.5 km

Distance to Mexican border: 1212.0 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 302.7 degrees   Distance: 393.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 280.6 degrees   Distance: 926.6 km

No land mobile station failures found

INTERFERENCE ANALYSIS FOR PROPOSED KUKC-LD, KANSAS CITY, MO (CHANNEL 14)

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 BNPDTL20100514AIA CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K14PX-D	D14	LD	CP	PAXICO, KS	BNPDTL20100514AIA	
Undesireds:	KUKC14P9	D14	LD	APP	KANSAS CITY, MO	kukc14p9	146.2 km

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
2076.1	21,012	2051.3	20,691	2051.3	20,691	2050.3	20,691	0.05	0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KUKC14P9 D14 LD APP	1.0	0	1.0 0

Interference to BNPDTL20100902ABK CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K14PQ-D	D14	LD	CP	SAINT JOSEPH, MO	BNPDTL20100902ABK	
Undesireds:	KUKC14P9	D14	LD	APP	KANSAS CITY, MO	kukc14p9	126.3 km
	KTIV	D14	DT	CP	SIOUX CITY, IA	BLANK0000034419	292.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
6491.4	57,460	6450.2	56,380	6434.2	56,376	6361.6	55,256	1.13	1.99

Undesired	Total IX	Unique IX, before	Unique IX, after
KUKC14P9 D14 LD APP	75.6 1,124		72.6 1,120
KTIV D14 DT CP	16.0 4	16.0 4	13.0 0

Interference to BLEDT20030108ABK LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KMOS-TV	D15	DT	LIC	SEDALIA, MO	BLEDT20030108ABK	
Undesireds:	KUKC14P9	D14	LD	APP	KANSAS CITY, MO	kukc14p9	148.6 km
	KHOG-TV	D15	DT	LIC	FAYETTEVILLE, AR	BLCDT20020904AAX	309.4
	KYOU-TV	D15	DT	LIC	OTTUMWA, IA	BLANK0000001581	295.9
	W15BU-D	D15	DC	CP	JOHNSON CITY, IL	BLANK0000035857	354.6
	WICS	D15	DT	CP	SPRINGFIELD, IL	BLANK0000034386	321.2
	KOZK	D16	DT	CP	SPRINGFIELD, MO	BLANK0000034615	162.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
41439.4	807,062	41117.8	804,422	40794.3	801,107	40783.3	800,535	0.03	0.07

Undesired	Total IX	Unique IX, before	Unique IX, after
KUKC14P9 D14 LD APP	12.9 582		11.0 572
KHOG-TV D15 DT LIC	40.5 339	26.3 261	26.3 261
KYOU-TV D15 DT LIC	23.8 53	14.8 20	12.9 10
WICS D15 DT CP	113.0 521	104.1 488	104.1 488
KOZK D16 DT CP	169.3 2,513	155.1 2,435	155.1 2,435

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KUKC14P9	D14	LD	APP	KANSAS CITY, MO	kukc14p9	
Undesireds:	K14PQ-D	D14	LD	CP	SAINT JOSEPH, MO	BNPDTL20100902ABK	126.3 km

Service area		Terrain-limited		IX-free		Percent IX	
9762.5	1,917,218	9727.8	1,916,686	9723.8	1,916,648	0.04	0.00

Undesired	Total IX	Unique IX	Prcnt Unique IX
K14PQ-D D14 LD CP	4.0 38	4.0 38	0.04 0.00
