

AMENDMENT TO KGKC-LD DISPLACEMENT APPLICATION FOR CH 33 15 kW DA
LAWRENCE, KANSAS
ENGINEERING NARRATIVE AND RF RADIATION ENVIRONMENTAL ANALYSIS
JUNE 2018

The proposed facility qualifies for displacement as described in FCC PN DA 18-124 released February 9, 2018. KGKC-LD is a licensed digital LPTV facility operating on CH 39 as authorized in file number BLDL-20130124AAA. The KBPX-LD facility is clearly displaced since it is currently assigned out of core TV Channel 39.

The proposed ch 33 antenna system is an Alive Telecom ATC-BCH416UA-33, 16 slot, horizontally polarized, antenna with 1.0 degree electrical beam tilt. The maximum relative field in the elevation pattern across the depression angle range of 20 to 90 degrees is less than 0.25 with a radiation center 274 meters above ground. Utilizing formula 10 OF OET Bulletin No. 65, Edition 97-01, a value F of 0.25 has been used to calculate the power density 2 meters above ground. The maximum power density is 0.423 uw/cm squared calculated for an ERP OF 15,000 watts H. polarization. This value is 0.11% of the Public Exposure MPE per section 1.1310. Based on this analysis it is believed that the proposed facility is in compliance with OET-65 Guidelines.

The applicant will reduce power or cease transmission as required to meet FCC OET-65 Guidelines.

The proposed tower is at an existing site with, building, access road and power.

Attached is a copy of the TV Interference analysis study output for CH 33 based on the proposed 15 kW ERP and UA DA antenna pattern described above. As can be seen by examination of the TV ISIX tabulation there is no impermissible caused or received interference to any LPTV or DRT facility filed in the LPTV Displacement window. It is believed that the proposed facility provides full protection to all currently authorized television facilities.

TV ISIX tabulation

tvstudy v2.2.5 (4uoc83)
Database: 127.0.0.1, Study: BLANK0000053962 #149, Model: Longley-Rice
Start: 2018.06.18 15:06:22

Study created: 2018.06.18 15:06:22

Study build station data: LMS TV 2018-06-17

Proposal: KGKC-LD D33 LD APP LAWRENCE, KS
File number: BLANK0000053962
Facility ID: 130417
Station data: User record
Record ID: 67
Country: U.S.

Search options:
All records for new LPTV stations excluded

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	KQKC-LP	N32z	TX	LIC	TOPEKA, KS	BLTTL20100128AAE	142.8 km
No	K32KV-D	D32	LD	LIC	JEFFERSON CITY, MO	BLANK0000013642	64.0
No	KSMO-TV	D32	DT	CP	KANSAS CITY, MO	BLANK0000024829	8.4
No	KHMF-LP	D33+	LD	LIC	FORT SMITH, AR	BLANK0000036888	418.8
No	KNWA-TV	D33	DT	CP	ROGERS, AR	BLANK0000027617	294.1
No	WOI-DT	D33	LD	APP	AMES, IA	BLANK0000054850	294.8
No	KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	272.3
No	K20KF-D	D33	LD	APP	DAVENPORT, IA	BLANK0000051752	414.1
No	K38GH-D	D33	LD	CP	RUSSELL, KS	BLANK0000029046	376.1
Yes	WIBW-TV	D33	LD	APP	TOPEKA, KS	BLANK0000054107	132.6
Yes	K40IJ-D	D33	LD	APP	TOPEKA, KS	BLANK0000030155	108.0
No	KSCW-DT	D33	LD	LIC	WICHITA, KS	BLCDT20120606ABO	281.1
No	K33MN-D	D33	LD	CP	JEFFERSON CITY, MO	BLANK0000001282	193.6
Yes	K32KV-D	D33	LD	APP	JEFFERSON CITY, MO	BLANK0000052930	81.9
No	KDSI-LD	D33	LD	CP	JOPLIN, MO	BDCCDTL20110215AAK	216.2
Yes	KTVO	D33	DT	APP	KIRKSVILLE, MO	BPCDT20130206ADL	243.7
Yes	KTVO	D33	DT	APP	KIRKSVILLE, MO	BLANK0000035797	243.7
Yes	KTVO	D33	DT	LIC	KIRKSVILLE, MO	BLCDT20030604AAC	243.7

No	K33NG-D	D33	LD	CP	SPRINGFIELD, MO	BDCCDTT20121214ADU	242.6
No	KBGU-LP	D33	LD	LIC	ST. LOUIS, MO	BLANK0000001766	366.2
No	KTVI	D33	DT	CP	ST. LOUIS, MO	BLANK0000034468	362.8
No	K33MT-D	D33	LD	CP	GRAND ISLAND, NE	BNPDTL20101006AAH	388.3
No	K33AC-D	D33	LD	LIC	PAWNEE CITY, NE	BLDTT20081114ACQ	203.5
No	KUOC-LD	D33	LD	APP	ENID, OK	BLANK0000052463	349.3
No	KOCB	D33	DT	LIC	OKLAHOMA CITY, OK	BLCDT20060615AAL	467.0
No	K41KX-D	D34	LD	APP	JOPLIN, MO	BLANK0000030221	216.3
No	WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLCDT20091008AAW	9.0

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:

KCCV 760 L DA2 D OVERLAND PARK, KS BL20060720AEI
 KCCV 760 L DA2 N OVERLAND PARK, KS BL20060720AEI
 KMBZ 980 L DAN D KANSAS CITY, MO BMML20171214ABX
 KMBZ 980 L DAN N KANSAS CITY, MO BMML20171214ABX

Record parameters as studied:

Channel: D33
 Mask: Full Service
 Latitude: 39 1 19.90 N (NAD83)
 Longitude: 94 30 49.70 W
 Height AMSL: 544.0 m
 HAAT: 0.0 m
 Peak ERP: 15.0 kW
 Antenna: ATC-BCH416UA-33 310.0 deg
 Elev Pattn: Generic
 Elec Tilt: 1.00

50.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	13.3 kW	301.1 m	55.3 km
45.0	12.5	255.2	52.4
90.0	1.84	278.7	43.5
135.0	0.776	254.0	37.8
180.0	3.31	248.3	45.2
225.0	14.0	269.4	53.8
270.0	12.7	254.8	52.5
315.0	14.6	280.8	54.7

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 268 m

Distance to Canadian border: 1016.0 km

Distance to Mexican border: 1205.9 km

Conditions at FCC monitoring station: Grand Island NE
Bearing: 303.6 degrees Distance: 394.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 281.0 degrees Distance: 925.2 km

Study cell size: 0.50 km
Profile point spacing: 0.10 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Interference to BLANK0000054107 APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WIBW-TV	D33	LD	APP	TOPEKA, KS	BLANK0000054107	
Undesireds:	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	132.6 km
	K32JQ-D	D32	LD	LIC	MANHATTAN, KS	BLDTL20140501AAZ	54.7
	K40IJ-D	D33	LD	APP	TOPEKA, KS	BLANK0000030155	25.5
	K32KV-D	D33	LD	APP	JEFFERSON CITY, MO	BLANK0000052930	211.2
	KTVO	D33	DT	APP	KIRKSVILLE, MO	BPCDT20130206ADL	351.6
	K33AC-D	D33	LD	LIC	PAWNEE CITY, NE	BLDTT20081114ACQ	133.4
	K34LZ-D	D34	LD	CP	FORT RILEY, KS	BNPDTL20100510AFL	54.6
	WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLCDT20091008AAW	125.7
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
11285.2	310,084	11167.2	306,513	7964.4	107,644	7955.2 107,507	0.12 0.13

Undesired	Total IX	Unique IX, before	Unique IX, after
KGKC-LD D33 LD APP 29.1 1,863	9.2 137		
K32JQ-D D32 LD LIC 27.6 15,077	4.7 2,619		
K40IJ-D D33 LD APP 3152.9 195,332	3115.9 182,279	3099.5 182,203	
K33AC-D D33 LD LIC 6.7 65	2.7 3	2.7 3	
K34LZ-D D34 LD CP 62.6 4,588	38.0 541	38.0 541	
WDAF-TV D34 DT LIC 2.7 11	0.5 0	0.0 0	

Interference to BLANK0000030155 APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K40IJ-D	D33	LD	APP	TOPEKA, KS	BLANK0000030155	
Undesireds:	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	108.0 km
	WIBW-TV	D33	LD	APP	TOPEKA, KS	BLANK0000054107	25.5
	K32KV-D	D33	LD	APP	JEFFERSON CITY, MO	BLANK0000052930	187.7
	KTVO	D33	DT	APP	KIRKSVILLE, MO	BPCDT20130206ADL	327.1
	WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLCDT20091008AAW	100.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
5354.3	213,324	5280.7	212,455	1680.6	68,937	1675.8 68,936	0.28 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
KGKC-LD	D33 LD APP	29.1	99			4.7 1	
WIBW-TV	D33 LD APP	3599.8	143,518	3599.8	143,518	3575.7 143,420	
WDAF-TV	D34 DT LIC	0.2	0	0.2	0	0.0 0	

Interference to BLANK0000052930 APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K32KV-D	D33	LD	APP	JEFFERSON CITY, MO	BLANK0000052930	
Undesireds:	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	81.9 km
	KSMO-TV	D32	DT	CP	KANSAS CITY, MO	BLANK0000024829	81.7
	KNWA-TV	D33	DT	CP	ROGERS, AR	BLANK0000027617	262.1
	K33MN-D	D33	LD	CP	JEFFERSON CITY, MO	BLANK0000001282	115.7
	KTVO	D33	DT	APP	KIRKSVILLE, MO	BPCDT20130206ADL	221.7
	K33NG-D	D33	LD	CP	SPRINGFIELD, MO	BDCCDTT20121214ADU	181.0
	KTVI	D33	DT	CP	ST. LOUIS, MO	BLANK0000034468	283.8
	WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLCDT20091008AAW	90.6
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
5858.8	121,661	5829.9	121,510	5792.5	120,734	5737.7 119,331	0.95 1.16
Undesired		Total IX		Unique IX, before		Unique IX, after	
KGKC-LD	D33 LD APP	85.0	2,033			54.9 1,403	
KSMO-TV	D32 DT CP	29.4	762	15.9	521	2.7 146	
KNWA-TV	D33 DT CP	4.5	14	4.3	14	3.3 0	
K33MN-D	D33 LD CP	2.0	0	1.5	0	0.5 0	
K33NG-D	D33 LD CP	0.5	0	0.0	0	0.0 0	
KTVI	D33 DT CP	0.2	0	0.0	0	0.0 0	
WDAF-TV	D34 DT LIC	14.9	241	1.7	0	0.2 0	

Interference to BLANK0000052930 APP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K32KV-D	D33	LD	APP	JEFFERSON CITY, MO	BLANK0000052930	
Undesireds:	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	81.9 km
	KSMO-TV	D32	DT	CP	KANSAS CITY, MO	BLANK0000024829	81.7
	KNWA-TV	D33	DT	CP	ROGERS, AR	BLANK0000027617	262.1
	K33MN-D	D33	LD	CP	JEFFERSON CITY, MO	BLANK0000001282	115.7
	KTVO	D33	DT	APP	KIRKSVILLE, MO	BLANK0000035797	221.7
	K33NG-D	D33	LD	CP	SPRINGFIELD, MO	BDCCD TT20121214ADU	181.0
	KTVI	D33	DT	CP	ST. LOUIS, MO	BLANK0000034468	283.8
	WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLCDT20091008AAW	90.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
5858.8 121,661	5829.9 121,510	5787.3 120,734	5732.9 119,331	0.94 1.16

Undesired	Total IX	Unique IX, before	Unique IX, after
KGKC-LD D33 LD APP 85.0	2,033		54.4 1,403
KSMO-TV D32 DT CP 29.4	762	15.9 521	2.7 146
KNWA-TV D33 DT CP 4.5	14	1.0 0	0.5 0
K33MN-D D33 LD CP 2.0	0	1.0 0	0.2 0
KTVO D33 DT APP 9.5	14	5.3 0	4.8 0
K33NG-D D33 LD CP 0.5	0	0.0 0	0.0 0
KTVI D33 DT CP 0.2	0	0.0 0	0.0 0
WDAF-TV D34 DT LIC 14.9	241	1.7 0	0.2 0

Interference to BLANK0000052930 APP scenario 3

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	K32KV-D	D33	LD	APP	JEFFERSON CITY, MO	BLANK0000052930	
Undesireds:	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	81.9 km
	KSMO-TV	D32	DT	CP	KANSAS CITY, MO	BLANK0000024829	81.7
	KNWA-TV	D33	DT	CP	ROGERS, AR	BLANK0000027617	262.1
	K33MN-D	D33	LD	CP	JEFFERSON CITY, MO	BLANK0000001282	115.7
	K33NG-D	D33	LD	CP	SPRINGFIELD, MO	BDCCD TT20121214ADU	181.0
	KTVI	D33	DT	CP	ST. LOUIS, MO	BLANK0000034468	283.8
	WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLCDT20091008AAW	90.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
5858.8 121,661	5829.9 121,510	5792.5 120,734	5737.7 119,331	0.95 1.16

Undesired	Total IX	Unique IX, before	Unique IX, after
KGKC-LD D33 LD APP 85.0	2,033		54.9 1,403

KSMO-TV D32 DT CP	29.4	762	15.9	521	2.7	146
KNWA-TV D33 DT CP	4.5	14	4.3	14	3.3	0
K33MN-D D33 LD CP	2.0	0	1.5	0	0.5	0
K33NG-D D33 LD CP	0.5	0	0.0	0	0.0	0
KTVI D33 DT CP	0.2	0	0.0	0	0.0	0
WDAF-TV D34 DT LIC	14.9	241	1.7	0	0.2	0

Interference to BPCDT20130206ADL APP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTVO	D33	DT	APP	KIRKSVILLE, MO	BPCDT20130206ADL	
Undesireds:	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	243.7 km
	WTJR	D32	DT	LIC	QUINCY, IL	BLCDT20091110ADL	113.0
	WAOE	D33	DT	CP	PEORIA, IL	BLANK0000028263	244.5
	KTVI	D33	DT	CP	ST. LOUIS, MO	BLANK0000034468	283.9
	WLAX	D33	DT	CP	LA CROSSE, WI	BLANK0000027619	374.5
	WQEC	D34	DT	APP	QUINCY, IL	BLANK0000035763	114.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
17675.5 157,119		17644.4 157,089		17628.3 157,068		17627.5 157,068	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
KGKC-LD D33 LD APP		0.7		0		0.7 0	
WTJR D32 DT LIC		12.7		18 11.0		11.0 18	
KTVI D33 DT CP		5.1		3 3.4		3.4 3	

Interference to BPCDT20130206ADL APP scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTVO	D33	DT	APP	KIRKSVILLE, MO	BPCDT20130206ADL	
Undesireds:	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	243.7 km
	WTJR	D32	DT	LIC	QUINCY, IL	BLCDT20091110ADL	113.0
	WAOE	D33	DT	CP	PEORIA, IL	BLANK0000028263	244.5
	KTVI	D33	DT	BL	ST. LOUIS, MO	DTVBL35693	283.9
	WLAX	D33	DT	CP	LA CROSSE, WI	BLANK0000027619	374.5
	WQEC	D34	DT	APP	QUINCY, IL	BLANK0000035763	114.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
17675.5 157,119		17644.4 157,089		17629.5 157,071		17628.8 157,071	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
KGKC-LD D33 LD APP		0.7		0		0.7 0	
WTJR D32 DT LIC		12.7		18 12.0		12.0 18	

KTVI D33 DT BL 2.9 0 2.2 0 2.2 0

Interference to BLANK0000035797 APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTVO	D33	DT	APP	KIRKSVILLE, MO	BLANK0000035797	
Undesireds:	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	243.7 km
	WTJR	D32	DT	LIC	QUINCY, IL	BLCDDT20091110ADL	113.0
	KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	296.3
	WAOE	D33	DT	CP	PEORIA, IL	BLANK0000028263	244.5
	KTVI	D33	DT	CP	ST. LOUIS, MO	BLANK0000034468	283.9
	WLAX	D33	DT	CP	LA CROSSE, WI	BLANK0000027619	374.5
	WQEC	D34	DT	APP	QUINCY, IL	BLANK0000035763	114.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
24555.8 228,846	24451.9 228,194	23973.5 225,756	23972.0 225,756	0.01 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KGKC-LD D33 LD APP	1.7 0	1.5 0	
WTJR D32 DT LIC	415.9 2,171	216.9 1,211	
KBIN-TV D33 DT LIC	0.5 0	0.5 0	
WAOE D33 DT CP	6.8 82	0.5 0	
KTVI D33 DT CP	88.2 237	46.6 124	
WLAX D33 DT CP	2.5 2	2.5 2	
WQEC D34 DT APP	202.6 1,008	8.8 59	

Interference to BLANK0000035797 APP scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTVO	D33	DT	APP	KIRKSVILLE, MO	BLANK0000035797	
Undesireds:	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	243.7 km
	WTJR	D32	DT	LIC	QUINCY, IL	BLCDDT20091110ADL	113.0
	KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	296.3
	WAOE	D33	DT	CP	PEORIA, IL	BLANK0000028263	244.5
	KTVI	D33	DT	BL	ST. LOUIS, MO	DTVBL35693	283.9
	WLAX	D33	DT	CP	LA CROSSE, WI	BLANK0000027619	374.5
	WQEC	D34	DT	APP	QUINCY, IL	BLANK0000035763	114.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
24555.8 228,846	24451.9 228,194	23984.0 225,799	23982.5 225,799	0.01 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KGKC-LD D33 LD APP	1.7 0	1.5 0	

WTJR D32 DT LIC	415.9	2,171	218.1	1,219	218.1	1,219
KBIN-TV D33 DT LIC	0.5	0	0.5	0	0.5	0
WAOE D33 DT CP	6.8	82	0.5	0	0.5	0
KTVI D33 DT BL	72.8	182	36.1	81	35.8	81
WLAX D33 DT CP	2.5	2	2.5	2	2.5	2
WQEC D34 DT APP	202.6	1,008	8.8	59	8.8	59

Interference to BLANK0000035797 APP scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTVO	D33	DT	APP	KIRKSVILLE, MO	BLANK0000035797	
Undesireds:	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	243.7 km
	WTJR	D32	DT	LIC	QUINCY, IL	BLCDT20091110ADL	113.0
	KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	296.3
	WAOE	D33	DT	CP	PEORIA, IL	BLANK0000028263	244.5
	KTVI	D33	DT	CP	ST. LOUIS, MO	BLANK0000034468	283.9
	WLAX	D33	DT	BL	LA CROSSE, WI	DTVBL2710	374.5
	WQEC	D34	DT	APP	QUINCY, IL	BLANK0000035763	114.0
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	24555.8	228,846	24451.9	228,194	23973.5	225,756	0.01 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KGKC-LD D33 LD APP	1.7	0	1.5
WTJR D32 DT LIC	415.9	2,171	216.9
KBIN-TV D33 DT LIC	0.5	0	0.5
WAOE D33 DT CP	6.8	82	0.5
KTVI D33 DT CP	88.2	237	46.6
WLAX D33 DT BL	2.5	2	2.5
WQEC D34 DT APP	202.6	1,008	8.8

Interference to BLANK0000035797 APP scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTVO	D33	DT	APP	KIRKSVILLE, MO	BLANK0000035797	
Undesireds:	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	243.7 km
	WTJR	D32	DT	LIC	QUINCY, IL	BLCDT20091110ADL	113.0
	KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	296.3
	WAOE	D33	DT	CP	PEORIA, IL	BLANK0000028263	244.5
	KTVI	D33	DT	BL	ST. LOUIS, MO	DTVBL35693	283.9
	WLAX	D33	DT	BL	LA CROSSE, WI	DTVBL2710	374.5
	WQEC	D34	DT	APP	QUINCY, IL	BLANK0000035763	114.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
24555.8 228,846	24451.9 228,194	23984.0 225,799	23982.5 225,799	0.01 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KGKC-LD D33 LD APP	1.7 0		1.5 0
WTJR D32 DT LIC	415.9 2,171	218.1 1,219	218.1 1,219
KBIN-TV D33 DT LIC	0.5 0	0.5 0	0.5 0
WAOE D33 DT CP	6.8 82	0.5 0	0.5 0
KTVI D33 DT BL	72.8 182	36.1 81	35.8 81
WLAX D33 DT BL	2.5 2	2.5 2	2.5 2
WQEC D34 DT APP	202.6 1,008	8.8 59	8.8 59

Interference to BLANK0000035797 APP scenario 5

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTVO	D33	DT	APP	KIRKSVILLE, MO	BLANK0000035797	
Undesireds:	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	243.7 km
	WTJR	D32	DT	LIC	QUINCY, IL	BLCDDT20091110ADL	113.0
	KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	296.3
	WAOE	D33	DT	CP	PEORIA, IL	BLANK0000028263	244.5
	KTVI	D33	DT	CP	ST. LOUIS, MO	BLANK0000034468	283.9
	WLAX	D33	DT	CP	LA CROSSE, WI	BLANK0000027619	374.5
	WQEC	D34	DT	LIC	QUINCY, IL	BLEDT20040715ADL	114.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
24555.8 228,846	24451.9 228,194	23982.3 225,815	23980.8 225,815	0.01 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KGKC-LD D33 LD APP	1.7 0		1.5 0
WTJR D32 DT LIC	415.9 2,171	369.9 2,100	369.9 2,100
KBIN-TV D33 DT LIC	0.5 0	0.5 0	0.5 0
WAOE D33 DT CP	6.8 82	0.5 0	0.5 0
KTVI D33 DT CP	88.2 237	46.6 124	46.4 124
WLAX D33 DT CP	2.5 2	2.5 2	2.5 2
WQEC D34 DT LIC	32.3 51	0.0 0	0.0 0

Interference to BLANK0000035797 APP scenario 6

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTVO	D33	DT	APP	KIRKSVILLE, MO	BLANK0000035797	
Undesireds:	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	243.7 km
	WTJR	D32	DT	LIC	QUINCY, IL	BLCDDT20091110ADL	113.0
	KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	296.3

WAOE	D33	DT	CP	PEORIA, IL	BLANK0000028263	244.5
KTVI	D33	DT	BL	ST. LOUIS, MO	DTVBL35693	283.9
WLAX	D33	DT	CP	LA CROSSE, WI	BLANK0000027619	374.5
WQEC	D34	DT	LIC	QUINCY, IL	BLEDT20040715ADL	114.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
24555.8	228,846	24451.9	228,194	23992.8	225,858	23991.3	225,858	0.01 0.00

Undesired		Total IX		Unique IX, before		Unique IX, after
KGKC-LD D33 LD APP	1.7	0			1.5	0
WTJR D32 DT LIC	415.9	2,171	373.0	2,112	373.0	2,112
KBIN-TV D33 DT LIC	0.5	0	0.5	0	0.5	0
WAOE D33 DT CP	6.8	82	0.5	0	0.5	0
KTVI D33 DT BL	72.8	182	36.1	81	35.8	81
WLAX D33 DT CP	2.5	2	2.5	2	2.5	2
WQEC D34 DT LIC	32.3	51	0.0	0	0.0	0

Interference to BLANK0000035797 APP scenario 7

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTVO	D33	DT	APP	KIRKSVILLE, MO	BLANK0000035797	
Undesireds:	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	243.7 km
	WTJR	D32	DT	LIC	QUINCY, IL	BLC DT20091110ADL	113.0
	KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	296.3
	WAOE	D33	DT	CP	PEORIA, IL	BLANK0000028263	244.5
	KTVI	D33	DT	CP	ST. LOUIS, MO	BLANK0000034468	283.9
	WLAX	D33	DT	BL	LA CROSSE, WI	DTVBL2710	374.5
	WQEC	D34	DT	LIC	QUINCY, IL	BLEDT20040715ADL	114.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
24555.8	228,846	24451.9	228,194	23982.3	225,815	23980.8	225,815	0.01 0.00

Undesired		Total IX		Unique IX, before		Unique IX, after
KGKC-LD D33 LD APP	1.7	0			1.5	0
WTJR D32 DT LIC	415.9	2,171	369.9	2,100	369.9	2,100
KBIN-TV D33 DT LIC	0.5	0	0.5	0	0.5	0
WAOE D33 DT CP	6.8	82	0.5	0	0.5	0
KTVI D33 DT CP	88.2	237	46.6	124	46.4	124
WLAX D33 DT BL	2.5	2	2.5	2	2.5	2
WQEC D34 DT LIC	32.3	51	0.0	0	0.0	0

Interference to BLANK0000035797 APP scenario 8

Call	Chan	Svc	Status	City, State	File Number	Distance
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Desired:	KTVO	D33	DT	APP	KIRKSVILLE, MO	BLANK0000035797	
Undesireds:	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	243.7 km
	WTJR	D32	DT	LIC	QUINCY, IL	BLCDDT20091110ADL	113.0
	KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	296.3
	WAOE	D33	DT	CP	PEORIA, IL	BLANK0000028263	244.5
	KTVI	D33	DT	BL	ST. LOUIS, MO	DTVBL35693	283.9
	WLAX	D33	DT	BL	LA CROSSE, WI	DTVBL2710	374.5
	WQEC	D34	DT	LIC	QUINCY, IL	BLEDT20040715ADL	114.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
24555.8	228,846	24451.9	228,194	23992.8	225,858	23991.3	225,858	0.01	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
KGKC-LD D33 LD APP	1.7	0			1.5	0	
WTJR D32 DT LIC	415.9	2,171	373.0	2,112	373.0	2,112	
KBIN-TV D33 DT LIC	0.5	0	0.5	0	0.5	0	
WAOE D33 DT CP	6.8	82	0.5	0	0.5	0	
KTVI D33 DT BL	72.8	182	36.1	81	35.8	81	
WLAX D33 DT BL	2.5	2	2.5	2	2.5	2	
WQEC D34 DT LIC	32.3	51	0.0	0	0.0	0	

Interference to BLANK0000035797 APP scenario 9

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTVO	D33	DT	APP	KIRKSVILLE, MO	BLANK0000035797	
Undesireds:	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	243.7 km
	WTJR	D32	DT	LIC	QUINCY, IL	BLCDDT20091110ADL	113.0
	KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	296.3
	WAOE	D33	DT	BL	PEORIA, IL	DTVBL52280	244.5
	KTVI	D33	DT	CP	ST. LOUIS, MO	BLANK0000034468	283.9
	WLAX	D33	DT	CP	LA CROSSE, WI	BLANK0000027619	374.5
	WQEC	D34	DT	APP	QUINCY, IL	BLANK0000035763	114.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
24555.8	228,846	24451.9	228,194	23973.5	225,756	23972.0	225,756	0.01	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
KGKC-LD D33 LD APP	1.7	0			1.5	0	
WTJR D32 DT LIC	415.9	2,171	216.9	1,211	216.9	1,211	
KBIN-TV D33 DT LIC	0.5	0	0.5	0	0.5	0	
WAOE D33 DT BL	6.8	82	0.5	0	0.5	0	
KTVI D33 DT CP	88.2	237	46.6	124	46.4	124	
WLAX D33 DT CP	2.5	2	2.5	2	2.5	2	
WQEC D34 DT APP	202.6	1,008	8.8	59	8.8	59	

Interference to BLANK0000035797 APP scenario 10

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTVO	D33	DT	APP	KIRKSVILLE, MO	BLANK0000035797	
Undesireds:	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	243.7 km
	WTJR	D32	DT	LIC	QUINCY, IL	BLCDDT20091110ADL	113.0
	KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	296.3
	WAOE	D33	DT	BL	PEORIA, IL	DTVBL52280	244.5
	KTVI	D33	DT	BL	ST. LOUIS, MO	DTVBL35693	283.9
	WLAX	D33	DT	CP	LA CROSSE, WI	BLANK0000027619	374.5
	WQEC	D34	DT	APP	QUINCY, IL	BLANK0000035763	114.0
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
24555.8	228,846	24451.9	228,194	23984.0	225,799	23982.5 225,799	0.01 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KGKC-LD D33 LD APP	1.7 0	1.5 0	
WTJR D32 DT LIC	415.9 2,171	218.1 1,219	218.1 1,219
KBIN-TV D33 DT LIC	0.5 0	0.5 0	0.5 0
WAOE D33 DT BL	6.8 82	0.5 0	0.5 0
KTVI D33 DT BL	72.8 182	36.1 81	35.8 81
WLAX D33 DT CP	2.5 2	2.5 2	2.5 2
WQEC D34 DT APP	202.6 1,008	8.8 59	8.8 59

Interference to BLANK0000035797 APP scenario 11

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTVO	D33	DT	APP	KIRKSVILLE, MO	BLANK0000035797	
Undesireds:	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	243.7 km
	WTJR	D32	DT	LIC	QUINCY, IL	BLCDDT20091110ADL	113.0
	KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	296.3
	WAOE	D33	DT	BL	PEORIA, IL	DTVBL52280	244.5
	KTVI	D33	DT	CP	ST. LOUIS, MO	BLANK0000034468	283.9
	WLAX	D33	DT	BL	LA CROSSE, WI	DTVBL2710	374.5
	WQEC	D34	DT	APP	QUINCY, IL	BLANK0000035763	114.0
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
24555.8	228,846	24451.9	228,194	23973.5	225,756	23972.0 225,756	0.01 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KGKC-LD D33 LD APP	1.7 0	1.5 0	
WTJR D32 DT LIC	415.9 2,171	216.9 1,211	216.9 1,211

KBIN-TV D33 DT LIC	0.5	0	0.5	0	0.5	0
WAOE D33 DT BL	6.8	82	0.5	0	0.5	0
KTVI D33 DT CP	88.2	237	46.6	124	46.4	124
WLAX D33 DT BL	2.5	2	2.5	2	2.5	2
WQEC D34 DT APP	202.6	1,008	8.8	59	8.8	59

Interference to BLANK0000035797 APP scenario 12

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTVO	D33	DT	APP	KIRKSVILLE, MO	BLANK0000035797	
Undesireds:	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	243.7 km
	WTJR	D32	DT	LIC	QUINCY, IL	BLCDT20091110ADL	113.0
	KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	296.3
	WAOE	D33	DT	BL	PEORIA, IL	DTVBL52280	244.5
	KTVI	D33	DT	BL	ST. LOUIS, MO	DTVBL35693	283.9
	WLAX	D33	DT	BL	LA CROSSE, WI	DTVBL2710	374.5
	WQEC	D34	DT	APP	QUINCY, IL	BLANK0000035763	114.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
24555.8		228,846		24451.9		23982.5	0.01
				228,194		225,799	0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
KGKC-LD D33 LD APP	1.7	0	1.5
WTJR D32 DT LIC	415.9	2,171	218.1
KBIN-TV D33 DT LIC	0.5	0	0.5
WAOE D33 DT BL	6.8	82	0.5
KTVI D33 DT BL	72.8	182	35.8
WLAX D33 DT BL	2.5	2	2.5
WQEC D34 DT APP	202.6	1,008	8.8

Interference to BLANK0000035797 APP scenario 13

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTVO	D33	DT	APP	KIRKSVILLE, MO	BLANK0000035797	
Undesireds:	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	243.7 km
	WTJR	D32	DT	LIC	QUINCY, IL	BLCDT20091110ADL	113.0
	KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	296.3
	WAOE	D33	DT	BL	PEORIA, IL	DTVBL52280	244.5
	KTVI	D33	DT	CP	ST. LOUIS, MO	BLANK0000034468	283.9
	WLAX	D33	DT	CP	LA CROSSE, WI	BLANK0000027619	374.5
	WQEC	D34	DT	LIC	QUINCY, IL	BLEDT20040715ADL	114.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX

24555.8	228,846	24451.9	228,194	23982.3	225,815	23980.8	225,815	0.01	0.00
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Undesired			Total IX	Unique IX, before	Unique IX, after
KGKC-LD D33 LD APP	1.7	0			1.5 0
WTJR D32 DT LIC	415.9	2,171	369.9	2,100	369.9 2,100
KBIN-TV D33 DT LIC	0.5	0	0.5	0	0.5 0
WAOE D33 DT BL	6.8	82	0.5	0	0.5 0
KTVI D33 DT CP	88.2	237	46.6	124	46.4 124
WLAX D33 DT CP	2.5	2	2.5	2	2.5 2
WQEC D34 DT LIC	32.3	51	0.0	0	0.0 0

Interference to BLANK0000035797 APP scenario 14

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTVO	D33	DT	APP	KIRKSVILLE, MO	BLANK0000035797	
Undesireds:	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	243.7 km
	WTJR	D32	DT	LIC	QUINCY, IL	BLCDDT20091110ADL	113.0
	KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	296.3
	WAOE	D33	DT	BL	PEORIA, IL	DTVBL52280	244.5
	KTVI	D33	DT	BL	ST. LOUIS, MO	DTVBL35693	283.9
	WLAX	D33	DT	CP	LA CROSSE, WI	BLANK0000027619	374.5
	WQEC	D34	DT	LIC	QUINCY, IL	BLEDT20040715ADL	114.0

	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
24555.8	228,846	24451.9	228,194	23992.8 225,858	23991.3 225,858 0.01 0.00

Undesired			Total IX	Unique IX, before	Unique IX, after
KGKC-LD D33 LD APP	1.7	0			1.5 0
WTJR D32 DT LIC	415.9	2,171	373.0	2,112	373.0 2,112
KBIN-TV D33 DT LIC	0.5	0	0.5	0	0.5 0
WAOE D33 DT BL	6.8	82	0.5	0	0.5 0
KTVI D33 DT BL	72.8	182	36.1	81	35.8 81
WLAX D33 DT CP	2.5	2	2.5	2	2.5 2
WQEC D34 DT LIC	32.3	51	0.0	0	0.0 0

Interference to BLANK0000035797 APP scenario 15

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTVO	D33	DT	APP	KIRKSVILLE, MO	BLANK0000035797	
Undesireds:	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	243.7 km
	WTJR	D32	DT	LIC	QUINCY, IL	BLCDDT20091110ADL	113.0
	KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	296.3
	WAOE	D33	DT	BL	PEORIA, IL	DTVBL52280	244.5

KTVI	D33	DT	CP	ST. LOUIS, MO	BLANK0000034468	283.9
WLAX	D33	DT	BL	LA CROSSE, WI	DTVBL2710	374.5
WQEC	D34	DT	LIC	QUINCY, IL	BLEDT20040715ADL	114.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
24555.8	228,846	24451.9	228,194	23982.3	225,815	23980.8	225,815	0.01	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
KGKC-LD D33 LD APP	1.7	0		1.5	0		
WTJR D32 DT LIC	415.9	2,171	369.9	2,100	369.9	2,100	
KBIN-TV D33 DT LIC	0.5	0	0.5	0	0.5	0	
WAOE D33 DT BL	6.8	82	0.5	0	0.5	0	
KTVI D33 DT CP	88.2	237	46.6	124	46.4	124	
WLAX D33 DT BL	2.5	2	2.5	2	2.5	2	
WQEC D34 DT LIC	32.3	51	0.0	0	0.0	0	

Interference to BLANK0000035797 APP scenario 16

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTVO	D33	DT	APP	KIRKSVILLE, MO	BLANK0000035797	
Undesireds:	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	243.7 km
	WTJR	D32	DT	LIC	QUINCY, IL	BLCDDT20091110ADL	113.0
	KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	296.3
	WAOE	D33	DT	BL	PEORIA, IL	DTVBL52280	244.5
	KTVI	D33	DT	BL	ST. LOUIS, MO	DTVBL35693	283.9
	WLAX	D33	DT	BL	LA CROSSE, WI	DTVBL2710	374.5
	WQEC	D34	DT	LIC	QUINCY, IL	BLEDT20040715ADL	114.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
24555.8	228,846	24451.9	228,194	23992.8	225,858	23991.3	225,858	0.01	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
KGKC-LD D33 LD APP	1.7	0		1.5	0		
WTJR D32 DT LIC	415.9	2,171	373.0	2,112	373.0	2,112	
KBIN-TV D33 DT LIC	0.5	0	0.5	0	0.5	0	
WAOE D33 DT BL	6.8	82	0.5	0	0.5	0	
KTVI D33 DT BL	72.8	182	36.1	81	35.8	81	
WLAX D33 DT BL	2.5	2	2.5	2	2.5	2	
WQEC D34 DT LIC	32.3	51	0.0	0	0.0	0	

Interference to BLCDDT20030604AAC LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KTVO	D33	DT	LIC	KIRKSVILLE, MO	BLCDDT20030604AAC	

Undesireds:	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	243.7 km
	WTJR	D32	DT	LIC	QUINCY, IL	BLCDDT20091110ADL	113.0
	KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	296.3
	WAOE	D33	DT	CP	PEORIA, IL	BLANK0000028263	244.5
	KTVI	D33	DT	CP	ST. LOUIS, MO	BLANK0000034468	283.9
	WLAX	D33	DT	CP	LA CROSSE, WI	BLANK0000027619	374.5
	WQEC	D34	DT	APP	QUINCY, IL	BLANK0000035763	114.0

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
15912.5	148,749	15881.7	148,716	15873.2	148,698	15872.9	148,698	0.00	0.00

Undesired			Total IX		Unique IX, before		Unique IX, after
KGKC-LD D33 LD APP		0.2	0			0.2	0
WTJR D32 DT LIC		5.4	18	5.1	8	5.1	8
KBIN-TV D33 DT LIC		0.2	0	0.2	0	0.2	0
KTVI D33 DT CP		3.2	10	2.9	0	2.9	0

Interference to BLCDDT20030604AAC LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KTVO	D33	DT	LIC	KIRKSVILLE, MO	BLCDDT20030604AAC	

Undesireds:	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	243.7 km
	WTJR	D32	DT	LIC	QUINCY, IL	BLCDDT20091110ADL	113.0
	KBIN-TV	D33	DT	LIC	COUNCIL BLUFFS, IA	BLEDT20050711ABX	296.3
	WAOE	D33	DT	CP	PEORIA, IL	BLANK0000028263	244.5
	KTVI	D33	DT	BL	ST. LOUIS, MO	DTVBL35693	283.9
	WLAX	D33	DT	CP	LA CROSSE, WI	BLANK0000027619	374.5
	WQEC	D34	DT	APP	QUINCY, IL	BLANK0000035763	114.0

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
15912.5	148,749	15881.7	148,716	15873.9	148,698	15873.7	148,698	0.00	0.00

Undesired			Total IX		Unique IX, before		Unique IX, after
KGKC-LD D33 LD APP		0.2	0			0.2	0
WTJR D32 DT LIC		5.4	18	5.4	18	5.4	18
KBIN-TV D33 DT LIC		0.2	0	0.2	0	0.2	0
KTVI D33 DT BL		2.2	0	2.2	0	2.2	0

Interference to proposal scenario 1
**MX: 15.99% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	

Undesireds:	KSMO-TV	D32	DT	CP	KANSAS CITY, MO	BLANK0000024829	8.4 km
	WIBW-TV	D33	LD	APP	TOPEKA, KS	BLANK0000054107	132.6
	K40IJ-D	D33	LD	APP	TOPEKA, KS	BLANK0000030155	108.0
	K32KV-D	D33	LD	APP	JEFFERSON CITY, MO	BLANK0000052930	81.9
	KTVO	D33	DT	APP	KIRKSVILLE, MO	BPCDT20130206ADL	243.7
	WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLCDT20091008AAW	9.0

Service area		Terrain-limited		IX-free		Percent IX	
7805.2	1,867,888	7753.0	1,865,427	4871.7	1,567,212	37.16	15.99

Undesired				Total IX		Unique IX	Prcnt Unique IX
KSMO-TV D32 DT CP	1384.8			84,507	288.3	15,875	3.72 0.85
WIBW-TV D33 LD APP	26.9			1,032	3.0	45	0.04 0.00
K40IJ-D D33 LD APP	0.2			0	0.0	0	0.00 0.00
K32KV-D D33 LD APP	62.2			2,799	6.7	206	0.09 0.01
WDAF-TV D34 DT LIC	2573.7			281,673	1464.2	212,494	18.89 11.39

Interference to proposal scenario 2
**MX: 15.98% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	
Undesireds:	KSMO-TV	D32	DT	CP	KANSAS CITY, MO	BLANK0000024829	8.4 km
	WIBW-TV	D33	LD	APP	TOPEKA, KS	BLANK0000054107	132.6
	K40IJ-D	D33	LD	APP	TOPEKA, KS	BLANK0000030155	108.0
	KTVO	D33	DT	APP	KIRKSVILLE, MO	BPCDT20130206ADL	243.7
	WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLCDT20091008AAW	9.0

Service area		Terrain-limited		IX-free		Percent IX	
7805.2	1,867,888	7753.0	1,865,427	4878.4	1,567,418	37.08	15.98

Undesired				Total IX		Unique IX	Prcnt Unique IX
KSMO-TV D32 DT CP	1384.8			84,507	298.0	16,291	3.84 0.87
WIBW-TV D33 LD APP	26.9			1,032	3.0	45	0.04 0.00
K40IJ-D D33 LD APP	0.2			0	0.0	0	0.00 0.00
WDAF-TV D34 DT LIC	2573.7			281,673	1466.4	212,514	18.91 11.39

Interference to proposal scenario 3
**MX: 15.99% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	

Undesireds:	KSMO-TV	D32	DT	CP	KANSAS CITY, MO	BLANK0000024829	8.4 km
	WIBW-TV	D33	LD	APP	TOPEKA, KS	BLANK0000054107	132.6
	K40IJ-D	D33	LD	APP	TOPEKA, KS	BLANK0000030155	108.0
	K32KV-D	D33	LD	APP	JEFFERSON CITY, MO	BLANK0000052930	81.9
	KTVO	D33	DT	APP	KIRKSVILLE, MO	BLANK0000035797	243.7
	WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLCDDT20091008AAW	9.0

Service area		Terrain-limited		IX-free		Percent IX	
7805.2	1,867,888	7753.0	1,865,427	4871.7	1,567,212	37.16	15.99

Undesired				Total IX		Unique IX	Prcnt Unique IX
KSMO-TV D32 DT CP	1384.8			84,507	288.3	15,875	3.72 0.85
WIBW-TV D33 LD APP	26.9			1,032	3.0	45	0.04 0.00
K40IJ-D D33 LD APP	0.2			0	0.0	0	0.00 0.00
K32KV-D D33 LD APP	62.2			2,799	6.7	206	0.09 0.01
KTVO D33 DT APP	0.2			0	0.0	0	0.00 0.00
WDAF-TV D34 DT LIC	2573.7			281,673	1464.2	212,494	18.89 11.39

Interference to proposal scenario 4
**MX: 15.99% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	

Undesireds:	KSMO-TV	D32	DT	CP	KANSAS CITY, MO	BLANK0000024829	8.4 km
	WIBW-TV	D33	LD	APP	TOPEKA, KS	BLANK0000054107	132.6
	K40IJ-D	D33	LD	APP	TOPEKA, KS	BLANK0000030155	108.0
	K32KV-D	D33	LD	APP	JEFFERSON CITY, MO	BLANK0000052930	81.9
	WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLCDDT20091008AAW	9.0

Service area		Terrain-limited		IX-free		Percent IX	
7805.2	1,867,888	7753.0	1,865,427	4871.7	1,567,212	37.16	15.99

Undesired				Total IX		Unique IX	Prcnt Unique IX
KSMO-TV D32 DT CP	1384.8			84,507	288.3	15,875	3.72 0.85
WIBW-TV D33 LD APP	26.9			1,032	3.0	45	0.04 0.00
K40IJ-D D33 LD APP	0.2			0	0.0	0	0.00 0.00
K32KV-D D33 LD APP	62.2			2,799	6.7	206	0.09 0.01
WDAF-TV D34 DT LIC	2573.7			281,673	1464.2	212,494	18.89 11.39

Interference to proposal scenario 5
**MX: 15.98% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	

Undesireds:	KSMO-TV	D32	DT	CP	KANSAS CITY, MO	BLANK0000024829	8.4 km
	WIBW-TV	D33	LD	APP	TOPEKA, KS	BLANK0000054107	132.6
	K40IJ-D	D33	LD	APP	TOPEKA, KS	BLANK0000030155	108.0
	KTVO	D33	DT	APP	KIRKSVILLE, MO	BLANK0000035797	243.7
	WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLCDT20091008AAW	9.0

Service area		Terrain-limited		IX-free		Percent IX	
7805.2	1,867,888	7753.0	1,865,427	4878.4	1,567,418	37.08	15.98

Undesired				Total IX		Unique IX	Prcnt Unique IX
KSMO-TV D32 DT CP	1384.8			84,507	298.0	16,291	3.84 0.87
WIBW-TV D33 LD APP	26.9			1,032	3.0	45	0.04 0.00
K40IJ-D D33 LD APP	0.2			0	0.0	0	0.00 0.00
KTVO D33 DT APP	0.2			0	0.0	0	0.00 0.00
WDAF-TV D34 DT LIC	2573.7			281,673	1466.4	212,514	18.91 11.39

Interference to proposal scenario 6
**MX: 15.98% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KGKC-LD	D33	LD	APP	LAWRENCE, KS	BLANK0000053962	
Undesireds:	KSMO-TV	D32	DT	CP	KANSAS CITY, MO	BLANK0000024829	8.4 km
	WIBW-TV	D33	LD	APP	TOPEKA, KS	BLANK0000054107	132.6
	K40IJ-D	D33	LD	APP	TOPEKA, KS	BLANK0000030155	108.0
	WDAF-TV	D34	DT	LIC	KANSAS CITY, MO	BLCDT20091008AAW	9.0

Service area		Terrain-limited		IX-free		Percent IX	
7805.2	1,867,888	7753.0	1,865,427	4878.4	1,567,418	37.08	15.98

Undesired				Total IX		Unique IX	Prcnt Unique IX
KSMO-TV D32 DT CP	1384.8			84,507	298.0	16,291	3.84 0.87
WIBW-TV D33 LD APP	26.9			1,032	3.0	45	0.04 0.00
K40IJ-D D33 LD APP	0.2			0	0.0	0	0.00 0.00
WDAF-TV D34 DT LIC	2573.7			281,673	1466.4	212,514	18.91 11.39

**** Calculated interference is from full service station WDAF-TV CH 34 and accepted by applicant**

The foregoing was prepared on behalf of SAGAMOREHILL OF KANSAS CITY LICENSES, LLC by Clarence M. Beverage of *Communications Technologies, Inc.*, Marlton, New Jersey, whose qualifications are a matter of record with the Federal Communications Commission. The statements herein are true and correct of his own knowledge, except such statements made on information and belief, and as to these statements he believes them to be true and correct.

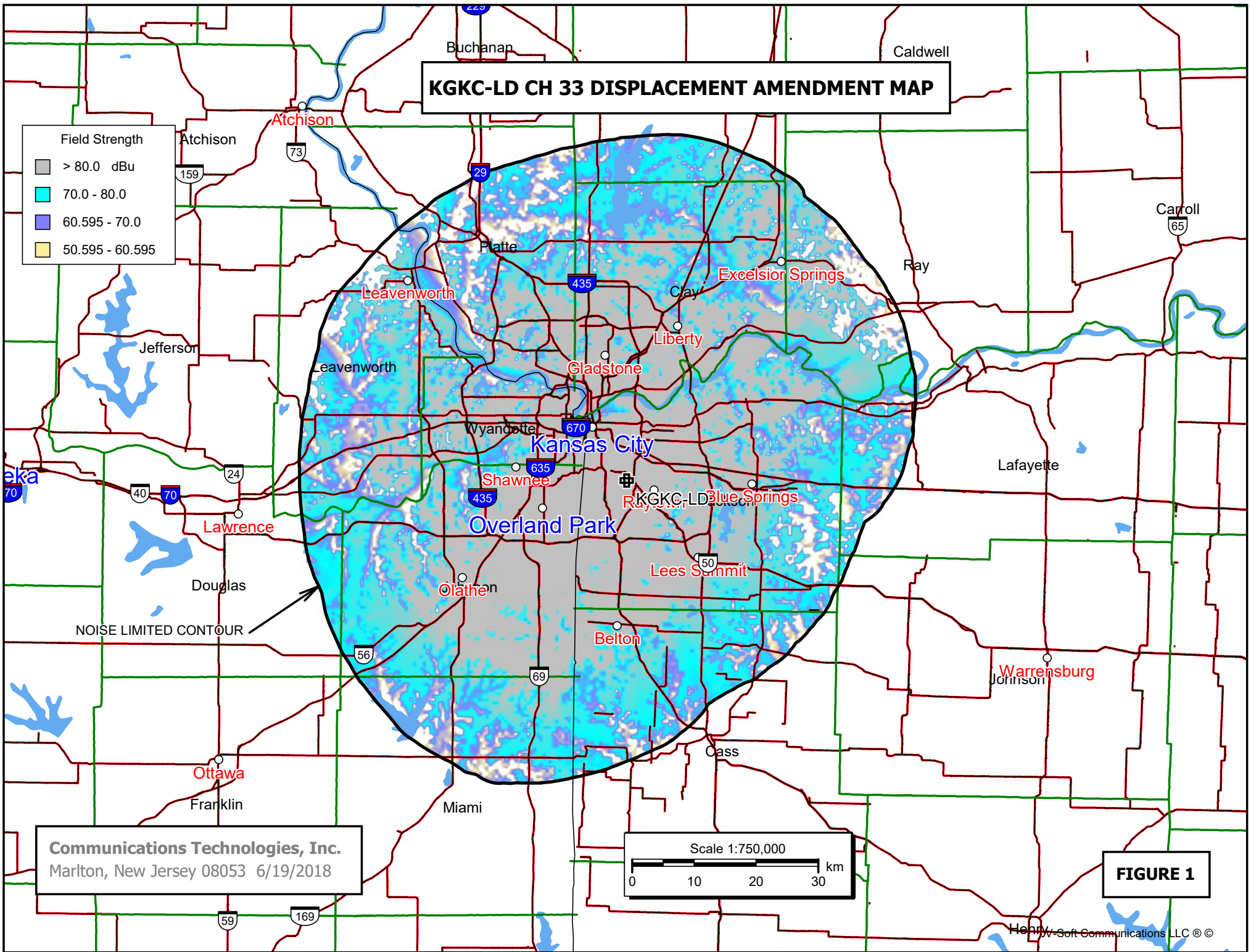
A handwritten signature in black ink, appearing to read "Clarence M. Beverage".

Clarence M. Beverage
for Communications Technologies, Inc.
Marlton, New Jersey
June 19, 2018

KGKC-LD CH 33 DISPLACEMENT AMENDMENT MAP

Field Strength

- > 80.0 dBu
- 70.0 - 80.0
- 60.595 - 70.0
- 50.595 - 60.595



Communications Technologies, Inc.
Marlton, New Jersey 08053 6/19/2018

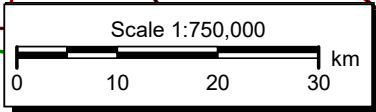


FIGURE 1