

DELAUDER COMMUNICATIONS, INC.

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ENGINEERING REPORT

Channel 49 Digital Companion Channel Application for KEFN-CA, St. Louis, MO

CLASS A DIGITAL – INTERFERENCE STUDIES

1. Attached as Figure 1 are the OET-69 study results for the proposed facility (as the referenced station) as determined on a Sun Computer using a Solaris (Unix-based) operating system and using the same OET-69 software as developed for use by the FCC. (According to the software developer, the program used herein provides identical results as the FCC's OET-69 processing program.) All studies are conducted in accordance with current FCC Rules and Regulations. As demonstrated by Figure 1, the proposed facility adequately protects all required US broadcast stations as required by the FCC Rules.

2. The applicant accepts any interference that is predicted to exist to the proposed facility by any licensed, authorized or previously proposed primary TV station. The applicant also accepts any interference that is predicted to exist to the proposed facility by any secondary TV facility that is given preferential status by the FCC over the Applicant's herein proposed facility.

Figure 1 (12 Pages)

Percent allowed new interference: 0.500
Percent allowed new interference to non Class A LPTV: 2.000
TW Census data selected 2000
Data Base Selected
/space/software/cdbb/pt_tvdb.sff
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 03-20-2015 Time: 19:23:28

Record Selected for Analysis

KEFN-CA USERRECORD-01 ST LOUIS MO US
Channel 49 ERP 15. kW HAAT 205. m RCAMSL 00377 m STRINGENT MASK
Latitude 038-25-01 Longitude 0090-25-59
Status APP Zone 2 Border Site number: 01
Dir Antenna Make usr Model COE_CO4U Beam tilt N Ref Azimuth 0.
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Not full service station
Service Class = LD
Maximum height/power limits not checked

Site number	1			
Azimuth	ERP	HAAT	51.0 dBu F(50,90)	
(Deg)	(kW)	(m)	(km)	
0.0	15.000	236.9	51.884	
45.0	6.574	223.3	46.904	
90.0	1.498	243.1	40.236	
135.0	0.172	246.1	28.976	
180.0	0.835	186.9	34.099	
225.0	0.172	146.6	23.573	
270.0	1.498	185.1	37.042	
315.0	6.574	168.8	43.762	

NO LANDMOBILE SPACING VIOLATIONS FOUND

Checks to Site Number 01

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
49	KEFN-CA	ST LOUIS MO	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
48	W48EH-D	MOUNT VERNON IL	146.6	CP MOD	BMPDTL	-20140819AAZ
48	K48NL-D	COLUMBIA MO	174.7	CP	BNPDTL	-20100728ADO
48	KROL-LP	ROLLA MO	125.8	LIC	BLTTL	-20060830AEB
49	KLJB	DAVENPORT IA	321.8	LIC	BLCDT	-20050713ADL
49	WEEJ-LD	JACKSONVILLE IL	148.2	CP	BNPDTL	-20101013ABR
49	NEW	EVANSVILLE IN	278.5	APP	BDISDTL	-20110916ABK
49	W49DW-D	TERRE HAUTE IN	278.2	CP	BNPDTL	-20100128AHP
49	W49DS-D	WOLCOTT IN	389.9	CP	BNPDTL	-20100112ADY
49	KPJO-LP	PITTSBURG KS	397.7	LIC	BLTTL	-20050722AFL
49	WDRB	LOUISVILLE KY	399.4	LIC	BLCDT	-20091009AAQ
49	WDKA	PADUCAH KY	173.4	LIC	BLCDT	-20100216ADH
49	KPJO-LP	JOPLIN MO	397.7	CP	BDFCDTL	-20091221AIS
49	KRBK	OSAGE BEACH MO	260.4	LIC	BLCDT	-20120412ACM
+						
49	WCKV-LP	CLARKSVILLE, ETC. TN	343.0	LIC	BLTTL	-20100521AEL
49	W49EK-D	JACKSON TN	336.5	CP MOD	BMPDTL	-20150121ACA
50	W50CH	ALTON IL	62.7	LIC	BLTTL	-20001220ACX
50	W50CH	ALTON IL	62.7	CP	BDFCDTA	-20111020AER

+ Indicates station is part of a DTS

%%%

Analysis of current record

Channel	Call	City/State	Application Ref. No.
48	W48EH-D	MOUNT VERNON IL	BMPDTL -20140819AAZ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
48	KVTJ-DT	JONESBORO AR	343.4	LIC	BLCDT -20090209ANG
48	WCIA	CHAMPAIGN IL	196.7	LIC	BLCDT -20070612ABY
48	WTTV	BLOOMINGTON IN	254.1	LIC	BLCDT -20060630ACD
48	WKGB-TV	BOWLING GREEN KY	233.1	LIC	BMLEDT -20120702ACF
49	WDKA	PADUCAH KY	107.6	LIC	BLCDT -20100216ADH
49	KEFN-CA	ST LOUIS MO	146.6	APP	USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application Ref. No.
48	K48NL-D	COLUMBIA MO	BNPDTL -20100728ADO

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
47	DK56AU	COLUMBIA MO	5.7	APP	BDFCDTT -20060331ASC
48	NEW	KEOKUK IA	179.2	APP	BNPDTL -20101013AAZ
48	WCIA	CHAMPAIGN IL	357.4	LIC	BLCDT -20070612ABY
48	KUKC-LP	KANSAS CITY MO	186.5	LIC	BLTTL -19970327JB
48	KROL-LP	ROLLA MO	117.3	LIC	BLTTL -20060830AEB
49	KRBK	OSAGE BEACH MO	129.2	LIC	BLCDT -20120412ACM
49	KRBK	OSAGE BEACH MO	115.5	LIC	BLCDT -20120412ACM
49	KEFN-CA	ST LOUIS MO	174.7	APP	USERRECORD-01
49	KRBK	OSAGE BEACH MO		LIC	BLCDT -20120412ACM
49	KRBK	OSAGE BEACH MO		LIC	BLCDT -20120412ACM
49	KRBK	OSAGE BEACH MO		LIC	BLCDT -20120412ACM

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application Ref. No.
48	KROL-LP	ROLLA MO	BLTTL -20060830AEB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
44	KYTV	SPRINGFIELD MO	137.2	LIC	BLCDT -20020213AAA
47	WRBU	EAST ST. LOUIS IL	120.2	LIC	BLCDT -20020510ABC
48	KVTJ-DT	JONESBORO AR	286.1	LIC	BLCDT -20090209ANG
48	WCIA	CHAMPAIGN IL	370.9	LIC	BLCDT -20070612ABY
49	KRBK	OSAGE BEACH MO	88.3	LIC	BLCDT -20120412ACM
49	KEFN-CA	ST LOUIS MO	125.8	APP	USERRECORD-01
49	KRBK	OSAGE BEACH MO		LIC	BLCDT -20120412ACM
49	KRBK	OSAGE BEACH MO		LIC	BLCDT -20120412ACM
49	KRBK	OSAGE BEACH MO		LIC	BLCDT -20120412ACM
49	KRBK	OSAGE BEACH MO		LIC	BLCDT -20120412ACM

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	KLJB	DAVENPORT IA	BLCDT -20050713ADL

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
48	WCIA	CHAMPAIGN IL	210.7	LIC	BLCDT -20070612ABY
49	KRBK	OSAGE BEACH MO	424.0	LIC	BLCDT -20120412ACM
49	WEUX	CHIPPEWA FALLS WI	418.3	LIC	BLCDT -20090331ACJ
49	WMSN-TV	MADISON WI	205.9	LIC	BLCDT -20101223ABD
50	WISC-TV	MADISON WI	205.9	LIC	BLCDT -20050701ABU
49	KEFN-CA	ST LOUIS MO	321.8	APP	USERRECORD-01
49	KRBK	OSAGE BEACH MO		LIC	BLCDT -20120412ACM
49	KRBK	OSAGE BEACH MO		LIC	BLCDT -20120412ACM
49	KRBK	OSAGE BEACH MO		LIC	BLCDT -20120412ACM
49	KRBK	OSAGE BEACH MO		LIC	BLCDT -20120412ACM

Proposal causes no interference

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	WEEJ-LD	JACKSONVILLE IL	BNPDTL -20101013ABR

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
49	KLJB	DAVENPORT IA	176.1	LIC	BLCDDT	-20050713ADL
49	WDKA	PADUCAH KY	281.5	LIC	BLCDDT	-20100216ADH
49	KRBK	OSAGE BEACH MO	349.4	LIC	BLCDDT	-20120412ACM
49	KRBK	OSAGE BEACH MO	385.9	LIC	BLCDDT	-20120412ACM
49	KRBK	OSAGE BEACH MO	385.9	LIC	BLCDDT	-20120412ACM
49	KRBK	OSAGE BEACH MO	308.1	LIC	BLCDDT	-20120412ACM
49	KRBK	OSAGE BEACH MO	318.2	LIC	BLCDDT	-20120412ACM
49	WMSN-TV	MADISON WI	373.0	LIC	BLCDDT	-20101223ABD
49	KEFN-CA	ST LOUIS MO	148.2	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
49	NEW	EVANSVILLE IN	BDISDTL	-20110916ABK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
48	WKGB-TV	BOWLING GREEN KY	104.6	LIC	BMLEDT	-20120702ACF
49	WDRB	LOUISVILLE KY	140.8	LIC	BLCDDT	-20091009AAQ
49	WDKA	PADUCAH KY	150.6	LIC	BLCDDT	-20100216ADH
49	WCKV-LP	CLARKSVILLE, ETC. TN	147.2	LIC	BLTTL	-20100521AEL
50	NEW	EVANSVILLE IN	18.9	APP	BNPDTL	-20090825BSC
49	KEFN-CA	ST LOUIS MO	278.5	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
49	W49DW-D	TERRE HAUTE IN	BNPDTL	-20100128AHP

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
48	WCIA	CHAMPAIGN IL	132.6	LIC	BLCDDT	-20070612ABY
48	WTTV	BLOOMINGTON IN	109.0	LIC	BLCDDT	-20060630ACD
49	KLJB	DAVENPORT IA	342.8	LIC	BLCDDT	-20050713ADL
49	NEW	EVANSVILLE IN	153.5	APP	BDISDTL	-20110916ABK
49	W49DS-D	WOLCOTT IN	172.9	CP	BNPDTL	-20100112ADY

49	WDRB	LOUISVILLE KY	165.9	LIC	BLCDDT	-20091009AAQ
49	WDKA	PADUCAH KY	244.6	LIC	BLCDDT	-20100216ADH
50	WEIU-TV	CHARLESTON IL	87.0	LIC	BLDDT	-20060504AAW
50	WKMF-LD	SULLIVAN IN	12.5	CP	BDCCDDL	-20061027ABD
49	KEFN-CA	ST LOUIS MO	278.2	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
49	W49DS-D	WOLCOTT IN	BNPDDL	-20100112ADY

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
48	WHME	SOUTH BEND IN	118.6	APP	BPRM	-20131025AHB
48	WHME-TV	SOUTH BEND IN	118.6	LIC	BLCDDT	-20140611AAT
49	KLJB	DAVENPORT IA	285.5	LIC	BLCDDT	-20050713ADL
49	WOCH-CD	CHICAGO IL	134.7	LIC	BLDDTA	-20131114BML
49	WODP-LD	FORT WAYNE IN	176.8	CP MOD	BMPDDL	-20110504ACB
49	WAAA-LP	WESTVILLE IN	84.0	LIC	BLTTL	-20070621AAG
49	WAAA-LP	WESTVILLE IN	84.0	CP	BDFCDDL	-20110824BCX
49	WDRB	LOUISVILLE KY	287.6	LIC	BLCDDT	-20091009AAQ
49	WNWO-TV	TOLEDO OH	324.8	CP	BPCDDT	-20140305AAP
49	WNWO-TV	TOLEDO OH	324.8	LIC	BLCDDT	-20120817ABH
49	WMSN-TV	MADISON WI	327.1	LIC	BLCDDT	-20101223ABD
50	WXFT-DT	AURORA IL	133.0	LIC	BLCDDT	-20101116BHE
49	KEFN-CA	ST LOUIS MO	389.9	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
49	KPJO-LP	PITTSBURG KS	BLTTL	-20050722AFL

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
46	KSNF	JOPLIN MO	17.5	LIC	BLCDDT	-20091112AEU
49	KTKA-TV	TOPEKA KS	230.5	LIC	BLCDDT	-20090612AIV
49	KRBK	OSAGE BEACH MO	138.0	LIC	BLCDDT	-20120412ACM
49	KRBK	OSAGE BEACH MO	97.9	LIC	BLCDDT	-20120412ACM
49	KRBK	OSAGE BEACH MO	128.1	LIC	BLCDDT	-20120412ACM
49	KRBK	OSAGE BEACH MO	184.8	LIC	BLCDDT	-20120412ACM

49	KRBK	OSAGE BEACH MO	167.4	LIC	BLCDT	-20120412ACM
49	KGEB	TULSA OK	170.4	LIC	BLCDT	-20060817ADB
50	KNWA-TV	ROGERS AR	108.4	LIC	BLCDT	-20060915ANF
49	KEFN-CA	ST LOUIS MO	397.7	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
49	WDRB	LOUISVILLE KY	BLCDT	-20091009AAQ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
48	WTTV	BLOOMINGTON IN	120.3	LIC	BLCDT	-20060630ACD
48	WKGB-TV	BOWLING GREEN KY	156.2	LIC	BMLEDT	-20120702ACF
49	WDKA	PADUCAH KY	291.2	LIC	BLCDT	-20100216ADH
49	WNWO-TV	TOLEDO OH	425.4	CP	BPCDT	-20140305AAP
49	WNWO-TV	TOLEDO OH	425.4	LIC	BLCDT	-20120817ABH
49	WLFG	GRUNDY VA	372.5	LIC	BLCDT	-20071025ACW
49	WTAP-TV	PARKERSBURG WV	387.1	LIC	BLCDT	-20120109ACS
50	WDTN	DAYTON OH	205.1	LIC	BLCDT	-20050629AAL
49	KEFN-CA	ST LOUIS MO	399.4	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 11

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
49	WDKA	PADUCAH KY	BLCDT	-20100216ADH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
48	WKGB-TV	BOWLING GREEN KY	206.8	LIC	BMLEDT	-20120702ACF
49	WDRB	LOUISVILLE KY	291.2	LIC	BLCDT	-20091009AAQ
49	KRBK	OSAGE BEACH MO	383.7	LIC	BLCDT	-20120412ACM
49	KRBK	OSAGE BEACH MO	380.8	LIC	BLCDT	-20120412ACM
49	KRBK	OSAGE BEACH MO	338.6	LIC	BLCDT	-20120412ACM
49	KRBK	OSAGE BEACH MO	395.7	LIC	BLCDT	-20120412ACM
49	KEFN-CA	ST LOUIS MO	173.4	APP	USERRECORD-01	
49	KRBK	OSAGE BEACH MO		LIC	BLCDT	-20120412ACM

Total scenarios = 1

Result key: 1
Scenario 1 Affected station 11
Before Analysis

Results for: 49A KY PADUCAH BLCDT 20100216ADH LIC
HAAT 327.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	613413	25162.4
not affected by terrain losses	612373	25038.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	715	154.0
lost to ATV IX only	715	154.0
lost to all IX	715	154.0

Potential Interfering Stations Included in above Scenario 1

49A KY LOUISVILLE	BLCDT	20091009AAQ	LIC
49A MO OSAGE BEACH	BLCDT	20120412ACM	LIC

After Analysis

Results for: 49A KY PADUCAH BLCDT 20100216ADH LIC
HAAT 327.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	613413	25162.4
not affected by terrain losses	612373	25038.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	716	156.0
lost to ATV IX only	716	156.0
lost to all IX	716	156.0

Potential Interfering Stations Included in above Scenario 1

49A KY LOUISVILLE	BLCDT	20091009AAQ	LIC
49A MO OSAGE BEACH	BLCDT	20120412ACM	LIC
49A MO ST LOUIS	USERRECORD01		APP

Percent new IX = 0.0002%

Worst case new IX 0.0002% Scenario 1

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Analysis of Interference to Affected Station 12

Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	KPJO-LP	JOPLIN MO	BDFCDTL -20091221AIS

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
48	K48MR-D	BENTONVILLE & ROGERS AR	97.5	LIC	BLDTA	-20130129AIF
49	K49MR-D	FORT SMITH AR	191.7	CP	BNPDTL	-20100902ABJ
49	KTKA-TV	TOPEKA KS	230.5	LIC	BLCDDT	-20090612AIV
49	KRBK	OSAGE BEACH MO	138.0	LIC	BLCDDT	-20120412ACM
49	KRBK	OSAGE BEACH MO	97.9	LIC	BLCDDT	-20120412ACM
49	KRBK	OSAGE BEACH MO	128.1	LIC	BLCDDT	-20120412ACM
49	KRBK	OSAGE BEACH MO	184.8	LIC	BLCDDT	-20120412ACM
49	KRBK	OSAGE BEACH MO	167.4	LIC	BLCDDT	-20120412ACM
49	KGEB	TULSA OK	170.4	LIC	BLCDDT	-20060817ADB
50	KNWA-TV	ROGERS AR	108.4	LIC	BLCDDT	-20060915ANF
49	KEFN-CA	ST LOUIS MO	397.7	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 13

Analysis of current record

DTS STATION

Channel	Call	City/State	Application	Ref. No.
49	KRBK	OSAGE BEACH MO	BLCDDT	-20120412ACM

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
49	KTKA-TV	TOPEKA KS	242.0	LIC	BLCDDT	-20090612AIV
49	WDKA	PADUCAH KY	395.7	LIC	BLCDDT	-20100216ADH
49	KGEB	TULSA OK	337.6	LIC	BLCDDT	-20060817ADB
50	KNWA-TV	ROGERS AR	210.5	LIC	BLCDDT	-20060915ANF
49	KEFN-CA	ST LOUIS MO	252.4	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 14

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
49	WCKV-LP	CLARKSVILLE, ETC. TN	BLTTL	-20100521AEL

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
41	WKPD	PADUCAH KY	132.8	LIC	BMLEDT	-20120509AEI
42	WKMA-TV	MADISONVILLE KY	74.8	LIC	BMLEDT	-20120608AAJ

47	WLJT-DT	LEXINGTON TN	144.5	LIC	BLEDT	-20131112BLI
48	WKGB-TV	BOWLING GREEN KY	89.7	LIC	BMLEDT	-20120702ACF
49	WDRB	LOUISVILLE KY	242.4	LIC	BLCDT	-20091009AAQ
49	WDKA	PADUCAH KY	170.4	LIC	BLCDT	-20100216ADH
49	KEFN-CA	ST LOUIS MO	343.0	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 15

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
49	W49EK-D	JACKSON TN	BMPDTL	-20150121ACA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
48	W48EB-D	JACKSON TN	0.0	CP	BNPDTL	-20100309ABK
49	WDRB	LOUISVILLE KY	390.5	LIC	BLCDT	-20091009AAQ
49	WDKA	PADUCAH KY	188.7	LIC	BLCDT	-20100216ADH
49	WCKV-LP	CLARKSVILLE, ETC. TN	154.6	LIC	BLTTL	-20100521AEL
50	W50EH-D	JACKSON TN	0.0	CP	BNPDTL	-20100309ABL
49	KEFN-CA	ST LOUIS MO	336.5	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 16

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
50	W50CH	ALTON IL	BLTTL	-20001220ACX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
42	WICS	SPRINGFIELD IL	112.8	LIC	BLCDT	-20050627AAI
43	KTVI	ST. LOUIS MO	48.7	LIC	BLCDT	-20040903AAY
47	WRBU	EAST ST. LOUIS IL	67.8	LIC	BLCDT	-20020510ABC
50	WXFT-DT	AURORA IL	392.1	CP	BPCDT	-20120920AEA
50	WXFT-DT	AURORA IL	389.6	LIC	BLCDT	-20101116BHE
50	WEIU-TV	CHARLESTON IL	170.8	LIC	BLEDT	-20060504AAW
51	KUMO-LD	ST LOUIS MO	43.0	LIC	BLDTL	-20110607AAF
49	KEFN-CA	ST LOUIS MO	62.7	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 17

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
50	W50CH	ALTON IL	BDFCDTA	-20111020AER

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
50	WXFT-DT	AURORA IL	392.1	CP	BPCDT	-20120920AEA
50	WXFT-DT	AURORA IL	389.6	LIC	BLCDT	-20101116BHE
50	WEIU-TV	CHARLESTON IL	170.8	LIC	BLEDT	-20060504AAW
51	KUMO-LD	ST LOUIS MO	43.0	LIC	BLDTL	-20110607AAF
49	KEFN-CA	ST LOUIS MO	62.7	APP	USERRECORD-01	

Total scenarios = 1

Result key: 2
Scenario 1 Affected station 17
Before Analysis

Results for: 50A IL ALTON BDFCDTA 20111020AER CP
HAAT 81.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1050174	3271.1
not affected by terrain losses	1050174	3271.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	169906	131.7
lost to ATV IX only	169906	131.7
lost to all IX	169906	131.7

Potential Interfering Stations Included in above Scenario 1

51A MO ST LOUIS BLDTL 20110607AAF LIC

After Analysis

Results for: 50A IL ALTON BDFCDTA 20111020AER CP
HAAT 81.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1050174	3271.1
not affected by terrain losses	1050174	3271.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	169906	131.7
lost to ATV IX only	169906	131.7
lost to all IX	169906	131.7

Potential Interfering Stations Included in above Scenario 1

51A MO ST LOUIS BLDTL 20110607AAF LIC
49A MO ST LOUIS USERRECORD01 APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

#####

Analysis of Interference to Affected Station 18

Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	KEFN-CA	ST LOUIS MO	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
49	KLJB	DAVENPORT IA	321.8	LIC	BLCDT -20050713ADL
49	WEEJ-LD	JACKSONVILLE IL	148.2	CP	BNPDTL -20101013ABR
49	WDKA	PADUCAH KY	173.4	LIC	BLCDT -20100216ADH
49	KRBK	OSAGE BEACH MO	260.4	LIC	BLCDT -20120412ACM
49	KRBK	OSAGE BEACH MO	306.6	LIC	BLCDT -20120412ACM
49	KRBK	OSAGE BEACH MO	280.0	LIC	BLCDT -20120412ACM
49	KRBK	OSAGE BEACH MO	213.0	LIC	BLCDT -20120412ACM
49	KRBK	OSAGE BEACH MO	252.4	LIC	BLCDT -20120412ACM
50	W50CH	ALTON IL	62.7	CP	BDFCDTA -20111020AER

Total scenarios = 1

Result key: 3
Scenario 1 Affected station 18
Before Analysis

Results for: 49A MO ST LOUIS USERRECORD01 APP
HAAT 205.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1978650	4587.8
not affected by terrain losses	1977367	4559.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3081	59.7
lost to ATV IX only	3081	59.7
lost to all IX	3081	59.7

Potential Interfering Stations Included in above Scenario 1

49A IA DAVENPORT	BLCDT	20050713ADL	LIC
49A IL JACKSONVILLE	BNPDTL	20101013ABR	CP
49A KY PADUCAH	BLCDT	20100216ADH	LIC
49A MO OSAGE BEACH	BLCDT	20120412ACM	LIC
50A IL ALTON	BDFCDTA	20111020AER	CP

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