

OET-69 Interference Analysis (K30ND-D, Saint Joseph, MO, Channel 30) (Summary results)

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
/export/home/cdbs/pt_tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 12-06-2012

Record Selected for Analysis

K30ND-D USERRECORD-01 SAINT JOSEPH MO US
Channel 30 ERP 0.75 kW HAAT 77. m RCAMSL 00358 m FULL SERVICE MASK
Latitude 039-45-00 Longitude 0094-50-25
Status APP Zone 2 Border Site number: 01
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 0.5 km/side

Distance Increments for Longley-Rice Analysis 0.10 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	0.750	56.6	21.6	
45.0	0.750	78.4	24.8	
90.0	0.750	83.2	25.5	
135.0	0.750	69.8	23.6	
180.0	0.750	40.3	18.0	
225.0	0.750	113.1	28.8	
270.0	0.750	85.1	25.7	
315.0	0.750	92.2	26.6	

Contour Overlap to Proposed Station

Contour Overlap Evaluation to Proposed Station Complete

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

OET-69 Interference Analysis (K30ND-D, Saint Joseph, MO, Channel 30) (Summary results)

Channel	Proposed Station	Call	City/State	ARN
30	K30ND-D	SAINT JOSEPH MO		USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
29	KMBC-TV	KANSAS CITY MO	79.1	LIC	BLCDDT	-20090618ACY
29	KMBC-DR	KANSAS CITY MO	79.1	APP	BPRM	-20080616AEO
29	K29GL	LINCOLN NE	187.9	CP	BDFCDTT	-20120713ADW
29	K29GL	LINCOLN NE	185.6	LIC	BLTT	-20060106ADI
30	KEGW-LP	FAYETTEVILLE AR	404.5	APP	BDISDTL	-20100922ABP
30	NEW	SPRINGDALE AR	399.2	APP	BNPDTL	-20100212ABE
30	KHHH-LP	CEDAR RAPIDS IA	361.1	CP	BDISDTL	-20110203ADT
30	K30NF-D	KEOKUK IA	300.0	CP	BNPDTL	-20101013AAV
30	KCAU-TV	SIOUX CITY IA	331.8	LIC	BLCDDT	-20090903AAI
30	KOTV-DT	CANEY KS	322.2	LIC	BLCDDT	-20120817ACF
30	K30LZ-D	FORT RILEY KS	175.2	CP	BNPDTL	-20100510AFK
30	KGBD-LP	GREAT BEND KS	366.7	LIC	BLTT	-20030805AIJ
30	KGBD-LP	GREAT BEND KS	366.7	CP	BDFCDTL	-20090522ABV
30	K30AL-D	IOLA KS	206.1	LIC	BLDTT	-20090226ABD
30	K30NO-D	PAXICO KS	137.5	CP	BNPDTL	-20100514AIC
30	K30LK-D	SALINA KS	263.3	CP	BNPDTL	-20100419ACL
30	KSMI-LP	WICHITA KS	317.9	CP	BDISDTL	-20111219ADQ
30	KCLJ-LP	JOPLIN MO	302.4	LIC	BLTTA	-20050506ACG
30	KCLJ-LP	JOPLIN MO	302.4	CP	BDFCDTA	-20100813CAI
30	K30MG-D	KIRKSVILLE MO	202.7	LIC	BLDTT	-20120607ABF
30	K30MQ-D	HASTINGS NE	315.6	CP	BNPDTL	-20100930AQY
30	K30BP-D	NORFOLK NE	329.9	LIC	BLDTT	-20120105AAO
31	K31BW	MANHATTAN KS	119.5	CP	BDFCDTL	-20120117ABB
31	K31BW	MANHATTAN KS	163.1	LIC	BLTTT	-19890119I
31	KCWE	KANSAS CITY MO	79.1	LIC	BLCDDT	-20051014ABT
31	KLKN	LINCOLN NE	195.2	LIC	BLCDDT	-20090903AAK
32	KQKC-LP	TOPEKA KS	136.8	LIC	BLTTT	-20100128AAE
33	K33IC	TOPEKA KS	122.6	LIC	BLTT	-20050408AAJ

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
29	KMBC-TV	KANSAS CITY MO	BLCDDT	-20090618ACY

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
29	KMBC-DR	KANSAS CITY MO	0.0	APP	BPRM	-20080616AEO
30	K30ND-D	SAINT JOSEPH MO	79.1	APP	USERRECORD-01	

Total scenarios = 3

Result key: 1
Scenario 1 Affected station 1
Before Analysis

Results for: 29A MO KANSAS CITY BLCDDT 20090618ACY LIC

HAAT	358.0 m, ATV ERP 1000.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	2281756	33874.5	
not affected by terrain losses	2276942	33362.9	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	0	0.0	
lost to ATV IX only	0	0.0	
lost to all IX	0	0.0	

Potential Interfering Stations Included in above Scenario 1

After Analysis

OET-69 Interference Analysis (K30ND-D, Saint Joseph, MO, Channel 30) (Summary results)

Results for: 29A MO KANSAS CITY BLCDT 20090618ACY LIC
HAAT 358.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2281756	33874.5
not affected by terrain losses	2276942	33362.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	11146	79.3
lost to ATV IX only	11146	79.3
lost to all IX	11146	79.3

Potential Interfering Stations Included in above Scenario 1

30A MO SAINT JOSEPH USERRECORD01 APP

Percent new IX = 0.4895%

Worst case new IX 0.4895% Scenario 1

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application Ref. No.
29	KMBC-DR	KANSAS CITY MO	BPRM -20080616AEO

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
29	KMBC-TV	KANSAS CITY MO	0.0	LIC	BLCDT -20090618ACY
30	K30ND-D	SAINT JOSEPH MO	79.1	APP	USERRECORD-01

Total scenarios = 1

Worst case new IX 0.0000% Scenario 1

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application Ref. No.
29	K29GL	LINCOLN NE	BDFCDTT -20120713ADW

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
29	K29GL	LINCOLN NE	BLTT -20060106ADI

Stations Potentially Affecting This Station

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 5

Analysis of current record

OET-69 Interference Analysis (K30ND-D, Saint Joseph, MO, Channel 30) (Summary results)

Channel	Call	City/State	Application	Ref. No.
30	KEGW-LP	FAYETTEVILLE AR	BDISDTL	-20100922ABP

Stations Potentially Affecting This Station

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
30	NEW	SPRINGDALE AR	BNPDTL	-20100212ABE

Stations Potentially Affecting This Station

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
30	KHHH-LP	CEDAR RAPIDS IA	BDISDTL	-20110203ADT

Stations Potentially Affecting This Station

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.
30	K30NF-D	KEOKUK IA	BNPDTL	-20101013AAV

Stations Potentially Affecting This Station

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.
30	KCAU-TV	SIOUX CITY IA	BLCDT	-20090903AAI

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
30	KOTV-DT	CANEY KS	BLCDT	-20120817ACF

OET-69 Interference Analysis (K30ND-D, Saint Joseph, MO, Channel 30) (Summary results)

Stations Potentially Affecting This Station

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.
30	K30LZ-D	FORT RILEY KS	BNPDTL	-20100510AFK

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 12

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
30	KGBD-LP	GREAT BEND KS	BLTT	-20030805AIJ

Stations Potentially Affecting This Station

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

Channel	Call	City/State	Application	Ref. No.
30	KGBD-LP	GREAT BEND KS	BDFCDTL	-20090522ABV

Stations Potentially Affecting This Station

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.
30	K30AL-D	IOLA KS	BLDTT	-20090226ABD

Stations Potentially Affecting This Station

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.
30	K30NO-D	PAXICO KS	BNPDTL	-20100514AIC

Stations Potentially Affecting This Station

OET-69 Interference Analysis (K30ND-D, Saint Joseph, MO, Channel 30) (Summary results)

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.
30	K30LK-D	SALINA KS	BNPDTL -20100419ACL

Stations Potentially Affecting This Station

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.
30	KSMI-LP	WICHITA KS	BDISDTL -20111219ADQ

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 18

Analysis of current record

Channel	Call	City/State	Application Ref. No.
30	KCLJ-LP	JOPLIN MO	BLTTA -20050506ACG

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 19

Analysis of current record

Channel	Call	City/State	Application Ref. No.
30	KCLJ-LP	JOPLIN MO	BDFCDTA -20100813CAI

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 20

Analysis of current record

Channel	Call	City/State	Application Ref. No.
30	K30MG-D	KIRKSVILLE MO	BLDTT -20120607ABF

Stations Potentially Affecting This Station

Proposal causes no interference

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OET-69 Interference Analysis (K30ND-D, Saint Joseph, MO, Channel 30) (Summary results)

Analysis of Interference to Affected Station 21

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
30	K30MQ-D	HASTINGS NE	BNPDTL	-20100930AQY

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 22

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
30	K30BP-D	NORFOLK NE	BLDTT	-20120105AAO

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 23

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
31	K31BW	MANHATTAN KS	BDFCDTL	-20120117ABB

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 24

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
31	K31BW	MANHATTAN KS	BLTTL	-19890119II

Stations Potentially Affecting This Station

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 25

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
31	KCWE	KANSAS CITY MO	BLCDT	-20051014ABT

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
31	KWBM	HARRISON AR	293.5	LIC	BLCDT	-20091201ASC
31	KDCU-DR	DERBY KS	298.2	APP	BPRM	-20090219AEY
31	KDCU-DT	DERBY KS	298.2	LIC	BLCDT	-20090821AAM
31	KDNL-TV	ST. LOUIS MO	366.8	LIC	BLCDT	-20021216AAE
30	K30ND-D	SAINT JOSEPH MO	79.1	APP	USERRECORD-01	

OET-69 Interference Analysis (K30ND-D, Saint Joseph, MO, Channel 30) (Summary results)

Total scenarios = 3

Result key: 6
Scenario 2 Affected station 25
Before Analysis

Results for: 31A MO KANSAS CITY BLCDT 20051014ABT LIC
HAAT 332.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2230823	32051.4
not affected by terrain losses	2227936	31571.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	13170	303.0
lost to ATV IX only	13170	303.0
lost to all IX	13170	303.0

Potential Interfering Stations Included in above Scenario 2

31A AR HARRISON	BLCDT	20091201ASC	LIC
31A KS DERBY	BPRM	20090219AEY	APP
31A KS DERBY	BLCDT	20090821AAM	LIC
31A MO ST. LOUIS	BLCDT	20021216AAE	LIC

After Analysis

Results for: 31A MO KANSAS CITY BLCDT 20051014ABT LIC
HAAT 332.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	2230823	32051.4
not affected by terrain losses	2227936	31571.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	24036	370.2
lost to ATV IX only	24036	370.2
lost to all IX	24036	370.2

Potential Interfering Stations Included in above Scenario 2

31A AR HARRISON	BLCDT	20091201ASC	LIC
31A KS DERBY	BPRM	20090219AEY	APP
31A KS DERBY	BLCDT	20090821AAM	LIC
31A MO ST. LOUIS	BLCDT	20021216AAE	LIC
30A MO SAINT JOSEPH	USERRECORD01		APP

Percent new IX = 0.4906%

Worst case new IX 0.4906% Scenario 2

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Analysis of Interference to Affected Station 26

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
31	KLKN	LINCOLN NE	BLCDT	-20090903AAK

Stations Potentially Affecting This Station

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 27

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
32	KQKC-LP	TOPEKA KS	BLTTL	-20100128AAE

Stations Potentially Affecting This Station

OET-69 Interference Analysis (K30ND-D, Saint Joseph, MO, Channel 30) (Summary results)

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 28

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
33	K33IC	TOPEKA KS	BLTT	-20050408AAJ

Stations Potentially Affecting This Station

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 29

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
30	K30ND-D	SAINT JOSEPH MO	USERRECORD-01	

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
29	KMBC-TV	KANSAS CITY MO	79.1	LIC	BLCDT	-20090618ACY
29	KMBC-DR	KANSAS CITY MO	79.1	APP	BPRM	-20080616AEO
30	K30LZ-D	FORT RILEY KS	175.2	CP	BNPDTL	-20100510AFK
30	K30NO-D	PAXICO KS	137.5	CP	BNPDTL	-20100514AIC
31	KCWE	KANSAS CITY MO	79.1	LIC	BLCDT	-20051014ABT

Total scenarios = 1

Result key: 8
Scenario 1 Affected station 29
Before Analysis

Results for: 30A MO SAINT JOSEPH USERRECORD01 APP
HAAT 77.0 m, ATV ERP 0.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	105009	2037.1
not affected by terrain losses	105009	2035.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4	1.2
lost to ATV IX only	4	1.2
lost to all IX	4	1.2

Potential Interfering Stations Included in above Scenario 1

31A MO KANSAS CITY BLCDT 20051014ABT LIC

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