

OET-69 Interference Analysis

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/cdb/pt\_tvdb.sff

## TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 09-03-2014 Time: 15:48:09

Record Selected for Analysis

KYOU-TV BPCDT -20110209AAE OTTUMWA IA US  
 Channel 15 ERP 360. kW HAAT 00360 m RCAMSL 00583 m  
 Latitude 041-11-42 Longitude 0091-57-15  
 Status CP Zone 2 Border Site number: 01  
 Dir Antenna Make CDB Model 00000000103933 Beam tilt Y Ref Azimuth 0.0  
 Last update 00000000 Cutoff date 20110209 Docket  
 Comments  
 Applicant KYOU LICENSE SUBSIDIARY, LLC

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility (site # 01) meets maximum height/power limits

Site number	1		
Azimuth	ERP	HAAT	41.0 dBu F(50,90)
(Deg)	(kW)	(m)	(km)
0.0	360.000	362.7	94.208
45.0	184.041	363.2	89.096
90.0	176.400	381.1	90.189
135.0	205.209	360.5	89.675
180.0	129.600	348.7	85.152
225.0	205.209	343.9	88.092
270.0	176.400	349.0	87.456
315.0	184.041	374.5	90.015

Evaluation toward Class A Stations from site # 01

No Spacing violations or contour overlap  
 to Class A stations from site # 01

## Class A Evaluation 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

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## Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN	
15	KYOU-TV	OTTUMWA IA	BPCDT	20110209AAE

## Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	WSEC	JACKSONVILLE IL	239.6	LIC	BLEDT	20031031ADN
15	KMOS-TV	SEDALIA MO	295.9	LIC	BLEDT	20030108ABK
15	KFXL-DR	LINCOLN NE	397.8	APP	BPRM	20111110AKS
15	KFXL-TV	LINCOLN NE	397.8	CP MOD	BMPCDT	20140702ACE
15	WQOW	EAU CLAIRE WI	402.7	LIC	BLCDT	20090706AGH
16	KDSM-TV	DES MOINES IA	155.2	LIC	BLCDT	20110609ABE

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## Analysis of Interference to Affected Station 1

## Analysis of current record

Channel	Call	City/State	Application	Ref. No.
15	WSEC	JACKSONVILLE IL	BLEDT	-20031031ADN

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
14	KNLC	ST. LOUIS MO	144.6	LIC	BLCDT	-20061228AAC
15	KYOU-TV	OTTUMWA IA	239.6	CP	BPCDT	-20110209AAE
15	KYOU-TV	OTTUMWA IA	239.6	PLN	DTVPLN	-DTPV0510
15	KPOB-TV	POPLAR BLUFF MO	313.4	LIC	BLCDT	-20090623ABU
15	KMOS-TV	SEDALIA MO	266.4	LIC	BLEDT	-20030108ABK

Total scenarios = 1

Result key: 1  
 Scenario 1 Affected station 1  
 Before Analysis

Results for: 15A IL JACKSONVILLE BLEDT 20031031ADN LIC

HAAT 295.0 m, ATV ERP 75.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	514194	19680.1
not affected by terrain losses	514122	19607.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	6110	176.5
lost to ATV IX only	6110	176.5
lost to all IX	6110	176.5

Potential Interfering Stations Included in above Scenario 1

15A MO SEDALIA BLEDT 20030108ABK LIC

After Analysis

Results for: 15A IL JACKSONVILLE BLEDT 20031031ADN LIC

HAAT 295.0 m, ATV ERP 75.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	514194	19680.1
not affected by terrain losses	514122	19607.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	6205	204.5
lost to ATV IX only	6205	204.5
lost to all IX	6205	204.5

Potential Interfering Stations Included in above Scenario 1

15A MO SEDALIA BLEDT 20030108ABK LIC

15A IA OTTUMWA BPCDT 20110209AAE CP

Percent new IX = 0.0187%

Worst case new IX 0.0187% Scenario 1

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
15	KMOS-TV	SEDALIA MO	BLEDT	-20030108ABK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
14	KNLC	ST. LOUIS MO	203.9	LIC	BLCDT	-20061228AAC
15	KHOG-TV	FAYETTEVILLE AR	309.4	LIC	BLCDT	-20020904AAX
15	KYOU-TV	OTTUMWA IA	295.9	CP	BPCDT	-20110209AAE
15	KYOU-TV	OTTUMWA IA	295.9	PLN	DTVPLN	-DTVP0510

15	WSEC	JACKSONVILLE IL	266.4	LIC	BLEDT	-20031031ADN
15	KPOB-TV	POPLAR BLUFF MO	293.7	LIC	BLCDT	-20090623ABU
15	KFXL-DR	LINCOLN NE	408.9	APP	BPRM	-20111110AKS
15	KFXL-TV	LINCOLN NE	408.9	CP MOD	BMPCDT	-20140702ACE

Total scenarios = 1

Result key: 2  
 Scenario 1 Affected station 2  
 Before Analysis

Results for: 15A MO SEDALIA BLEDT 20030108ABK LIC  
 HAAT 603.0 m, ATV ERP 322.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	735415	41475.5
not affected by terrain losses	734098	41278.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	445	112.5
lost to ATV IX only	445	112.5
lost to all IX	445	112.5

Potential Interfering Stations Included in above Scenario 1

15A AR FAYETTEVILLE	BLCDT	20020904AAX	LIC
15A IL JACKSONVILLE	BLEDT	20031031ADN	LIC
15A MO POPLAR BLUFF	BLCDT	20090623ABU	LIC

After Analysis

Results for: 15A MO SEDALIA BLEDT 20030108ABK LIC  
 HAAT 603.0 m, ATV ERP 322.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	735415	41475.5
not affected by terrain losses	734098	41278.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	499	132.6
lost to ATV IX only	499	132.6
lost to all IX	499	132.6

Potential Interfering Stations Included in above Scenario 1

15A AR FAYETTEVILLE	BLCDT	20020904AAX	LIC
15A IL JACKSONVILLE	BLEDT	20031031ADN	LIC
15A MO POPLAR BLUFF	BLCDT	20090623ABU	LIC
15A IA OTTUMWA	BPCDT	20110209AAE	CP

Percent new IX = 0.0074%

Worst case new IX 0.0074% Scenario 1

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application Ref. No.
15	KFXL-DR	LINCOLN NE	BPRM -20111110AKS

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
15	KYOU-TV	OTTUMWA IA	397.8	CP	BPCDT -20110209AAE
15	KYOU-TV	OTTUMWA IA	397.8	PLN	DTVPLN -DTVP0510
15	KSMN	WORTHINGTON MN	343.7	LIC	BLEDT -20051219AGX
15	KMOS-TV	SEDALIA MO	408.9	LIC	BLEDT -20030108ABK
15	KFXL-TV	LINCOLN NE	0.0	CP MOD	BMPCDT -20140702ACE
16	KTVG-DR	GRAND ISLAND NE	159.9	APP	BPRM -20080926AJM

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.
15	KFXL-TV	LINCOLN NE	BMPCDT -20140702ACE

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
15	KYOU-TV	OTTUMWA IA	397.8	CP	BPCDT -20110209AAE
15	KYOU-TV	OTTUMWA IA	397.8	PLN	DTVPLN -DTVP0510
15	KSMN	WORTHINGTON MN	343.7	LIC	BLEDT -20051219AGX
15	KMOS-TV	SEDALIA MO	408.9	LIC	BLEDT -20030108ABK
15	KFXL-DR	LINCOLN NE	0.0	APP	BPRM -20111110AKS
16	KTVG-DR	GRAND ISLAND NE	159.9	APP	BPRM -20080926AJM

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

Channel	Call	City/State	Application Ref. No.
15	WQOW	EAU CLAIRE WI	BLCDT -20090706AGH

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
15	KYOU-TV	OTTUMWA IA	402.7	CP	BPCDT -20110209AAE
15	KYOU-TV	OTTUMWA IA	402.7	PLN	DTVPLN -DTVP0510
15	KSMN	WORTHINGTON MN	370.0	LIC	BLEDT -20051219AGX
16	WJFW-TV	RHINELANDER WI	201.3	LIC	BLCDT -20070222AOP

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.
16	KDSM-TV	DES MOINES IA	BLCDT	-20110609ABE

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	KYOU-TV	OTTUMWA IA	155.2	CP	BPCDT	-20110209AAE
15	KYOU-TV	OTTUMWA IA	155.2	PLN	DTVPLN	-DTVP0510
16	WTVO	ROCKFORD IL	370.2	LIC	BLCDT	-20021024AAS
17	KYNE-TV	OMAHA NE	209.0	LIC	BLEDT	-20030409AAV

Total scenarios = 1

Result key: 3  
 Scenario 1 Affected station 6  
 Before Analysis

Results for: 16A IA DES MOINES BLCDT 20110609ABE LIC  
 HAAT 612.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1012046	45409.4
not affected by terrain losses	1011115	45200.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	854	52.2
lost to ATV IX only	854	52.2
lost to all IX	854	52.2

Potential Interfering Stations Included in above Scenario 1

16A IL ROCKFORD	BLCDT	20021024AAS	LIC
15A IA OTTUMWA	DTVPLN	DTVP0510	PLN

## After Analysis

Results for: 16A IA DES MOINES BLCDT 20110609ABE LIC  
 HAAT 612.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1012046	45409.4
not affected by terrain losses	1011115	45200.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1114	128.6
lost to ATV IX only	1114	128.6
lost to all IX	1114	128.6

Potential Interfering Stations Included in above Scenario 1

16A IL ROCKFORD	BLCDT	20021024AAS	LIC
15A IA OTTUMWA	BPCDT	20110209AAE	CP

Percent new IX = 0.0257%

Worst case new IX 0.0257% Scenario 1

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# Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
15	KYOU-TV	OTTUMWA IA	BPCDT	-20110209AAE

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
15	WSEC	JACKSONVILLE IL	239.6	LIC	BLEDT	-20031031ADN
15	KMOS-TV	SEDALIA MO	295.9	LIC	BLEDT	-20030108ABK
15	KFXL-DR	LINCOLN NE	397.8	APP	BPRM	-20111110AKS
15	KFXL-TV	LINCOLN NE	397.8	CP MOD	BMPCDT	-20140702ACE
15	WQOW	EAU CLAIRE WI	402.7	LIC	BLCDT	-20090706AGH
16	KDSM-TV	DES MOINES IA	155.2	LIC	BLCDT	-20110609ABE

Total scenarios = 1

Result key: 4  
 Scenario 1 Affected station 7  
 Before Analysis

Results for: 15A IA OTTUMWA BPCDT 20110209AAE CP

HAAT 360.0 m, ATV ERP 360.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	627033	27236.6
not affected by terrain losses	626812	27192.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3878	336.6
lost to ATV IX only	3878	336.6
lost to all IX	3878	336.6

Potential Interfering Stations Included in above Scenario 1

15A IL JACKSONVILLE	BLEDT	20031031ADN	LIC
15A MO SEDALIA	BLEDT	20030108ABK	LIC
16A IA DES MOINES	BLCDT	20110609ABE	LIC

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