



LOHNES AND CULVER

TELEVISION AND RADIO CONSULTING ENGINEERS
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SUMMARY REPORT

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 07-14-2011 Time: 10:36:25

Record Selected for Analysis

KCRG-TV USERRECORD-01 CEDAR RAPIDS IA US
Channel 09 ERP 48. kW RCAMSL 00883 m
Latitude 042-18-59 Longitude 0091-51-31
Status APP Zone 2 Border Site number: 01
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 0.20 km

TW Census data selected 2000

Percent allowed new interference: 0.500

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
09	KCRG-TV	CEDAR RAPIDS IA	USERRECORD01	

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
08	KCCI	DES MOINES IA	156.0	LIC	BLCDDT	20090619AAG
08	951215KK	GALESBURG IL	165.7	CP MOD	BMPCDDT	20110302ABZ
08	WKBT-DT	LA CROSSE WI	201.7	LIC	BLCDDT	20090507ACT
09	KCAU-TV	SIOUX CITY IA	359.9	LIC	BLCDDT	20100702BMT
09	WILL-TV	URBANA IL	367.8	LIC	BLEDDT	20050920AEE
09	WILL-TV	URBANA IL	367.7	APP	BPEDT	20100406ABJ
09	KMSP-TV	MINNEAPOLIS MN	321.3	CP MOD	BMPCDDT	20080620ALS
09	WAOW	WAUSAU WI	337.9	CP	BPCDDT	20091105ACL
10	KTTC	ROCHESTER MN	146.9	LIC	BLCDDT	20091222AOE
10	KTTC	ROCHESTER MN	146.9	CP	BPCDDT	20100720AIW

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
08	KCCI	DES MOINES IA	BLCDDT	-20090619AAG

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KWWL	WATERLOO IA	160.6	LIC	BLCDDT	-20100707AXT
08	951215KK	GALESBURG IL	275.2	CP MOD	BMPCDDT	-20110302ABZ
08	KOMU-TV	COLUMBIA MO	344.5	LIC	BLCDDT	-20090612AFB
08	KOMU-TV	COLUMBIA MO	344.5	APP	BPCDDT	-20090721AAU
08	KLKN	LINCOLN NE	324.2	LIC	BLCDDT	-20090618ACT
08	KESD-TV	BROOKINGS SD	405.8	LIC	BLEDDT	-20090527AGV
08	WKBT-DT	LA CROSSE WI	314.3	LIC	BLCDDT	-20090507ACT
09	KCRG-TV	CEDAR RAPIDS IA	156.0	PLN	DTVPLN	-DTVP0187
09	KCRG-TV	CEDAR RAPIDS IA	156.0	APP	USERRECORD-01	

Total scenarios = 2

Worst case new IX 0.0814% Scenario 1

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
08	951215KK	GALESBURG IL	BMPCDDT	-20110302ABZ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KWWL	WATERLOO IA	171.2	LIC	BLCDDT	-20100707AXT
07	KHQA-TV	HANNIBAL MO	169.2	LIC	BLCDDT	-20090622AFC
08	KCCI	DES MOINES IA	275.2	LIC	BLCDDT	-20090619AAG
08	WSIU-TV	CARBONDALE IL	369.7	LIC	BLEDDT	-20090612ADB

08	WWMT	KALAMAZOO MI	426.1	CP	BPCDT	-20080312ABA
08	KOMU-TV	COLUMBIA MO	313.4	LIC	BLCDDT	-20090612AFB
08	KOMU-TV	COLUMBIA MO	313.4	APP	BPCDT	-20090721AAU
08	WKBT-DT	LA CROSSE WI	318.6	LIC	BLCDDT	-20090507ACT
08	WMVS	MILWAUKEE WI	284.3	LIC	BLEDT	-20041207AAL
08	WMVS	MILWAUKEE WI	284.3	CP	BPEDT	-20090310ADU
08	WMVS	MILWAUKEE WI	284.3	APP	BMPEDT	-20100730ABN
09	KCRG-TV	CEDAR RAPIDS IA	165.7	PLN	DTVPLN	-DTVP0187
09	WILL-TV	URBANA IL	202.0	LIC	BLEDT	-20050920AEE
09	WILL-TV	URBANA IL	202.0	APP	BPEDT	-20100406ABJ
09	KCRG-TV	CEDAR RAPIDS IA	165.7	APP	USERRECORD-01	

Total scenarios = 6

Worst case new IX 0.1621% Scenario 3

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
08	WKBT-DT	LA CROSSE WI	BLCDDT	-20090507ACT

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KWWL	WATERLOO IA	192.3	LIC	BLCDDT	-20100707AXT
07	WSAW-TV	WAUSAU WI	159.8	CP MOD	BMPCDDT	-20080620AKR
08	KCCI	DES MOINES IA	314.3	LIC	BLCDDT	-20090619AAG
08	951215KK	GALESBURG IL	318.6	CP MOD	BMPCDDT	-20110302ABZ
08	WDHS	IRON MOUNTAIN MI	322.6	LIC	BLCDDT	-20090612AKA
08	WDSE	DULUTH MN	306.3	LIC	BLEDT	-20090618ABE
08	WMVS	MILWAUKEE WI	297.7	LIC	BLEDT	-20041207AAL
08	WMVS	MILWAUKEE WI	297.7	CP	BPEDT	-20090310ADU
08	WMVS	MILWAUKEE WI	297.7	APP	BMPEDT	-20100730ABN
09	KCRG-TV	CEDAR RAPIDS IA	201.7	PLN	DTVPLN	-DTVP0187
09	KMSP-TV	MINNEAPOLIS MN	177.6	CP MOD	BMPCDDT	-20080620ALS
09	WAOW	WAUSAU WI	159.8	CP	BPCDT	-20091105ACL
09	KCRG-TV	CEDAR RAPIDS IA	201.7	APP	USERRECORD-01	

Total scenarios = 3

Worst case new IX 0.0000% Scenario 1

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
09	KCAU-TV	SIOUX CITY IA	BLCDDT	-20100702BMT

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
08	KLKN	LINCOLN NE	209.2	LIC	BLCDDT	-20090618ACT
08	KESD-TV	BROOKINGS SD	210.6	LIC	BLEDT	-20090527AGV
09	KCRG-TV	CEDAR RAPIDS IA	359.9	PLN	DTVPLN	-DTVP0187
09	KMSP-TV	MINNEAPOLIS MN	370.9	CP MOD	BMPCDDT	-20080620ALS
09	KABY-TV	ABERDEEN SD	310.3	LIC	BLCDDT	-20090223ABF
10	KOLN	LINCOLN NE	213.3	LIC	BLCDDT	-20090226AAR
09	KCRG-TV	CEDAR RAPIDS IA	359.9	APP	USERRECORD-01	

Total scenarios = 1

Worst case new IX 0.3009% Scenario 1

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
09	WILL-TV	URBANA IL	BLEDT	-20050920AEE

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
08	WSIU-TV	CARBONDALE IL	220.8	LIC	BLEDT	-20090612ADB
08	951215KK	GALESBURG IL	202.0	CP MOD	BMPCDDT	-20110302ABZ
09	KCRG-TV	CEDAR RAPIDS IA	367.8	PLN	DTVPLN	-DTVP0187
09	WNIN	EVANSVILLE IN	258.4	LIC	BLEDT	-20090612AGN
09	WISH-TV	INDIANAPOLIS IN	210.5	LIC	BLCDDT	-20090622ABX
10	WWTO-TV	LA SALLE IL	139.9	LIC	BLCDDT	-20060630AEE
10	WWTO-TV	LA SALLE IL	139.9	CP	BPCDDT	-20080611ACK
10	WGEM-TV	QUINCY IL	226.9	CP	BPCDDT	-20080317ACL
10	WGEM-TV	QUINCY IL	226.9	CP MOD	BMPCDDT	-20080619ADS
10	WTHI-TV	TERRE HAUTE IN	141.0	LIC	BLCDDT	-20090622ACG
09	KCRG-TV	CEDAR RAPIDS IA	367.8	APP	USERRECORD-01	

Total scenarios = 1

Worst case new IX 0.6551% Scenario 1

INTERFERENCE AGREEMENT

The above station has agreed to accept interference from:

9D IA CEDAR RAPIDS USERRECORD01
based on ERP ≤ 49.00 kW HAAT 605.0 m RCAMSL 883.0 m

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application Ref. No.
09	WILL-TV	URBANA IL	BPEDT -20100406ABJ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
08	WSIU-TV	CARBONDALE IL	220.8	LIC	BLEDT -20090612ADB
08	951215KK	GALESBURG IL	202.0	CP MOD	BMPCDT -20110302ABZ
09	KCRG-TV	CEDAR RAPIDS IA	367.7	PLN	DTVPLN -DTVP0187
09	WNIN	EVANSVILLE IN	258.4	LIC	BLEDT -20090612AGN
09	WISH-TV	INDIANAPOLIS IN	210.5	LIC	BLCDDT -20090622ABX
10	WWTO-TV	LA SALLE IL	139.9	LIC	BLCDDT -20060630AEE
10	WWTO-TV	LA SALLE IL	139.9	CP	BPCDDT -20080611ACK
10	WGEM-TV	QUINCY IL	226.9	CP	BPCDDT -20080317ACL
10	WGEM-TV	QUINCY IL	226.9	CP MOD	BMPCDDT -20080619ADS
10	WTHI-TV	TERRE HAUTE IN	141.1	LIC	BLCDDT -20090622ACG
09	KCRG-TV	CEDAR RAPIDS IA	367.7	APP	USERRECORD-01

Total scenarios = 1

Worst case new IX 1.3194% Scenario 1

INTERFERENCE AGREEMENT

The above station has agreed to accept interference from:

9D IA CEDAR RAPIDS USERRECORD01
based on ERP ≤ 49.00 kW HAAT 605.0 m RCAMSL 883.0 m

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application Ref. No.
09	KMSP-TV	MINNEAPOLIS MN	BMPCDDT -20080620ALS

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
08	WDSE	DULUTH MN	207.6	LIC	BLEDT -20090618ABE
08	WKBT-DT	LA CROSSE WI	177.6	LIC	BLCDDT -20090507ACT
09	KCRG-TV	CEDAR RAPIDS IA	321.3	PLN	DTVPLN -DTVP0187
09	KCAU-TV	SIOUX CITY IA	370.9	LIC	BLCDDT -20100702BMT
09	Kawe	BEMIDJI MN	311.7	LIC	BLEDT -20091026ABU
09	KABY-TV	ABERDEEN SD	374.7	LIC	BLCDDT -20090223ABF
09	WAOW	WAUSAU WI	270.3	CP	BPCDDT -20091105ACL
10	KWCM-TV	APPLETON MN	225.9	LIC	BLEDT -20091217ADE
10	WDIO-DT	DULUTH MN	207.2	LIC	BLCDDT -20090917AAY

10	KTTC	ROCHESTER MN	174.4	LIC	BLCDDT	-20091222AOE
10	KTTC	ROCHESTER MN	174.4	CP	BPCDDT	-20100720AIW
09	KCRG-TV	CEDAR RAPIDS IA	321.3	APP	USERRECORD-01	

Total scenarios = 2

Worst case new IX 0.1196% Scenario 2

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Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
09	WAOW	WAUSAU WI	BPCDDT	-20091105ACL

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
08	WDHS	IRON MOUNTAIN MI	162.9	LIC	BLCDDT	-20090612AKA
08	WKBT-DT	LA CROSSE WI	159.8	LIC	BLCDDT	-20090507ACT
09	KCRG-TV	CEDAR RAPIDS IA	337.9	PLN	DTVPLN	-DTVP0187
09	WWTW	CADILLAC MI	355.4	LIC	BLCDDT	-20091217ACZ
09	KMSP-TV	MINNEAPOLIS MN	270.3	CP MOD	BMPCDDT	-20080620ALS
10	WBUP	ISHPEMING MI	223.4	CP MOD	BMPCDDT	-20091015AAS
09	KCRG-TV	CEDAR RAPIDS IA	337.9	APP	USERRECORD-01	

Total scenarios = 1

Worst case new IX 0.1617% Scenario 1

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
10	KTTC	ROCHESTER MN	BLCDDT	-20091222AOE

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
09	KCRG-TV	CEDAR RAPIDS IA	146.9	PLN	DTVPLN	-DTVP0187
09	KMSP-TV	MINNEAPOLIS MN	174.4	CP MOD	BMPCDDT	-20080620ALS
10	WWTO-TV	LA SALLE IL	383.0	LIC	BLCDDT	-20060630AEE
10	WWTO-TV	LA SALLE IL	383.0	CP	BPCDDT	-20080611ACK
10	WGEM-TV	QUINCY IL	412.5	CP	BPCDDT	-20080317ACL
10	WGEM-TV	QUINCY IL	412.5	CP MOD	BMPCDDT	-20080619ADS
10	KWCM-TV	APPLETON MN	334.8	LIC	BLEDT	-20091217ADE
10	WDIO-DT	DULUTH MN	358.3	LIC	BLCDDT	-20090917AAY
11	KDIN-TV	DES MOINES IA	218.5	LIC	BLEDT	-20090612AIB
11	KARE	MINNEAPOLIS MN	175.2	LIC	BLCDDT	-20100624ACP

09 KCRG-TV CEDAR RAPIDS IA 146.9 APP USERRECORD-01

Total scenarios = 2

Worst case new IX 0.8483% Scenario 2

INTERFERENCE AGREEMENT

The above station has agreed to accept interference from:

9D IA CEDAR RAPIDS USERRECORD01
based on ERP ≤ 49.00 kW HAAT 605.0 m RCAMSL 883.0 m

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Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
10	KTTC	ROCHESTER MN	BPCDT	-20100720AIW

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
09	KCRG-TV	CEDAR RAPIDS IA	146.9	PLN	DTVPLN	-DTVP0187
09	KMSP-TV	MINNEAPOLIS MN	174.4	CP MOD	BMPCDT	-20080620ALS
10	WWTO-TV	LA SALLE IL	383.0	LIC	BLCDT	-20060630AEE
10	WWTO-TV	LA SALLE IL	383.0	CP	BPCDT	-20080611ACK
10	WGEM-TV	QUINCY IL	412.5	CP	BPCDT	-20080317ACL
10	WGEM-TV	QUINCY IL	412.5	CP MOD	BMPCDT	-20080619ADS
10	KWCM-TV	APPLETON MN	334.8	LIC	BLEDT	-20091217ADE
10	WDIO-DT	DULUTH MN	358.3	LIC	BLCDT	-20090917AAY
11	KDIN-TV	DES MOINES IA	218.5	LIC	BLEDT	-20090612AIB
11	KARE	MINNEAPOLIS MN	175.2	LIC	BLCDT	-20100624ACP
09	KCRG-TV	CEDAR RAPIDS IA	146.9	APP	USERRECORD-01	

Total scenarios = 2

Worst case new IX 0.7270% Scenario 2

INTERFERENCE AGREEMENT

The above station has agreed to accept interference from:

9D IA CEDAR RAPIDS USERRECORD01
based on ERP ≤ 49.00 kW HAAT 605.0 m RCAMSL 883.0 m

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