

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 05-13-2008 Time: 16:11:20

Record Selected for Analysis

KMNE-D.C USERRECORD-01 BASSETT NE US
Channel 07 ERP 17.6 kW HAAT 454. m RCAMSL 01220 m
Latitude 042-20-05 Longitude 0099-29-02
Status APP Zone 2 Border
Dir Antenna Make usr Model USRPAT01 Beam tilt N Ref Azimuth 0.
Last update Cutoff date Docket
Comments
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	36.0 dBu F(50,90) (km)
0.0	17.600	470.7	109.8
45.0	17.600	474.7	110.1
90.0	17.600	472.1	110.0
135.0	17.600	454.2	108.6
180.0	17.600	438.6	107.4
225.0	17.600	436.8	107.2
270.0	17.600	429.5	106.6
315.0	17.600	451.7	108.4

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

No spacing violations found to other full service stations

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quite 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
07	KMNE-D.C	BASSETT NE	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
07	KBSH-TV	HAYS KS	383.8	LIC	BLCT	-
20051222AES						
07	KETV	OMAHA NE	308.3	LIC	BLCT	-
20050114ADV						
07	KEVN-TV	RAPID CITY SD	360.8	LIC	BLCT	-2543
08	KZSD-TV	MARTIN SD	208.2	CP	BPEDT	-
20080214ADA						
08	KZSD-TV	MARTIN SD	208.2	LIC	BLET	-
20070202AAO						
08	KZSD-TV	MARTIN SD	208.2	APP	BSTA	-
20080214AEE						

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	KBSH-TV	HAYS KS	BLCT	-20051222AES

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
07	KMBC-TV	KANSAS CITY MO	417.1	LIC	BLCDT	-
20020424AAP						
07	KMBCTV	KANSAS CITY MO	417.1	LIC	BPRM	-
20000417AAA						
07	KETV	OMAHA NE	389.8	LIC	BLCT	-
20050114ADV						
07	KOCO-TV	OKLAHOMA CITY OK	403.7	CP MOD	BMPCDT	-
20080215ACU						
07	KOCO-DR	OKLAHOMA CITY OK	403.7	LIC	BPRM	-
20000412AAA						
08	KPTS	HUTCHINSON KS	164.1	LIC	BLET	-263
08	KPTS	HUTCHINSON KS	164.1	CP	BPEDT	-
20080313ACD						
08	KSWK-TV	LAKIN KS	194.0	LIC	BPRM	-
20011101ADH						

08	KSWK	LAKIN KS	194.0	LIC	BLEDT	-
20050203ADS						
08	KSNK	MCCOOK NE	157.5	LIC	BMLCT	-
20031125AMP						
07	KMNE-D.C	BASSETT NE	383.8	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

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
07	KETV	OMAHA NE	DTVPLN	-NPLN0488

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
07	KWWL	WATERLOO IA	366.8	PLN	DTVPLN	-
NPLN0469						
08	KCCI	DES MOINES IA	207.7	PLN	DTVPLN	-
NPLN0530						
08	KLKN	LINCOLN NE	117.1	PLN	DTVPLN	-
NPLN0551						

Results for:	7N NE OMAHA	DTVPLN	NPLN0488	PLN
		POPULATION	AREA (sq km)	
within Noise Limited Contour		1224993	34759.7	
not affected by terrain losses		1200438	33058.2	
lost to NTSC IX		93577	2842.6	
lost to additional IX by ATV		0	0.0	
lost to all IX		93577	2842.6	

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	KETV	OMAHA NE	BLCT	-20050114ADV

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
07	KWWL	WATERLOO IA	366.9	LIC	BLCT	-
20060524AEV						
07	KWWL	WATERLOO IA	366.9	CP	BPCDT	-
20080314ADY						
07	KBSH-TV	HAYS KS	389.8	LIC	BLCT	-
20051222AES						
07	KMBC-TV	KANSAS CITY MO	278.6	LIC	BLCDDT	-
20020424AAP						
07	KMBCTV	KANSAS CITY MO	278.6	LIC	BPRM	-
20000417AAA						
08	KCCI	DES MOINES IA	207.6	CP	BPCDT	-
20080314ABD						
08	KCCI	DES MOINES IA	207.6	LIC	BMLCT	-
20050628ACB						

08	KLKN	LINCOLN NE	117.2	CP	BPCDT	-
20080411AAB						
08	KLKN	LINCOLN NE	117.2	LIC	BLCT	-
19960708KK						
07	KMNE-D.C	BASSETT NE	308.3	APP	USERRECORD-01	

Total scenarios = 4

Result key: 1
Scenario 1 Affected station 2
Before Analysis

Results for: 7N NE OMAHA	BLCT	20050114ADV	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1225524	34935.9	
not affected by terrain losses	1198895	33238.3	
lost to NTSC IX	85427	2842.6	
lost to additional IX by ATV	10337	1969.8	
lost to all IX	95764	4812.4	

Potential Interfering Stations Included in above Scenario 1

7N IA WATERLOO	BLCT	20060524AEV	LIC
8N NE LINCOLN	BLCT	19960708KK	LIC
7A IA WATERLOO	BPCDT	20080314ADY	CP
7A MO KANSAS CITY	BLCDDT	20020424AAP	LIC
8A NE LINCOLN	BPCDT	20080411AAB	CP

After Analysis

Results for: 7N NE OMAHA	BLCT	20050114ADV	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1225524	34935.9	
not affected by terrain losses	1198895	33238.3	
lost to NTSC IX	85427	2842.6	
lost to additional IX by ATV	13653	2178.0	
lost to all IX	99080	5020.6	

Potential Interfering Stations Included in above Scenario 1

7N IA WATERLOO	BLCT	20060524AEV	LIC
8N NE LINCOLN	BLCT	19960708KK	LIC
7A IA WATERLOO	BPCDT	20080314ADY	CP
7A MO KANSAS CITY	BLCDDT	20020424AAP	LIC
8A NE LINCOLN	BPCDT	20080411AAB	CP
7A NE BASSETT	USERRECORD01	APP	
*Percent new DTV interference without proposal:			0.8 BLCT
20050114ADV			
*Percent new DTV interference with proposal:			1.1 BLCT
20050114ADV			

Result key: 2
Scenario 2 Affected station 2
Before Analysis

Results for: 7N NE OMAHA	BLCT	20050114ADV	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1225524	34935.9	

not affected by terrain losses	1198895	33238.3
lost to NTSC IX	85427	2842.6
lost to additional IX by ATV	10569	2057.9
lost to all IX	95996	4900.5

Potential Interfering Stations Included in above Scenario 2

7N IA WATERLOO	BLCT	20060524AEV	LIC
8N NE LINCOLN	BLCT	19960708KK	LIC
7A IA WATERLOO	BPCDT	20080314ADY	CP
7A MO KANSAS CITY	BPRM	20000417AAA	LIC
8A NE LINCOLN	BPCDT	20080411AAB	CP

After Analysis

Results for: 7N NE OMAHA	BLCT	20050114ADV	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1225524	34935.9	
not affected by terrain losses	1198895	33238.3	
lost to NTSC IX	85427	2842.6	
lost to additional IX by ATV	13885	2266.1	
lost to all IX	99312	5108.7	

Potential Interfering Stations Included in above Scenario 2

7N IA WATERLOO	BLCT	20060524AEV	LIC
8N NE LINCOLN	BLCT	19960708KK	LIC
7A IA WATERLOO	BPCDT	20080314ADY	CP
7A MO KANSAS CITY	BPRM	20000417AAA	LIC
8A NE LINCOLN	BPCDT	20080411AAB	CP
7A NE BASSETT	USERRECORD01		APP
*Percent new DTV interference without proposal:		0.9	BLCT
20050114ADV			
*Percent new DTV interference with proposal:		1.1	BLCT
20050114ADV			

Result key: 3
 Scenario 3 Affected station 2
 Before Analysis

Results for: 7N NE OMAHA	BLCT	20050114ADV	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1225524	34935.9	
not affected by terrain losses	1198895	33238.3	
lost to NTSC IX	85427	2842.6	
lost to additional IX by ATV	10337	1969.8	
lost to all IX	95764	4812.4	

Potential Interfering Stations Included in above Scenario 3

7N IA WATERLOO	BLCT	20060524AEV	LIC
8N NE LINCOLN	BLCT	19960708KK	LIC
7A IA WATERLOO	BPCDT	20080314ADY	CP
7A MO KANSAS CITY	BLCDT	20020424AAP	LIC
8A NE LINCOLN	BPCDT	20080411AAB	CP

After Analysis

Results for: 7N NE OMAHA	BLCT	20050114ADV	LIC
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	POPULATION	AREA (sq km)
within Noise Limited Contour	1225524	34935.9
not affected by terrain losses	1198895	33238.3
lost to NTSC IX	85427	2842.6
lost to additional IX by ATV	13653	2178.0
lost to all IX	99080	5020.6

Potential Interfering Stations Included in above Scenario 3

7N IA WATERLOO	BLCT	20060524AEV	LIC
8N NE LINCOLN	BLCT	19960708KK	LIC
7A IA WATERLOO	BPCDT	20080314ADY	CP
7A MO KANSAS CITY	BLCDT	20020424AAP	LIC
8A NE LINCOLN	BPCDT	20080411AAB	CP
7A NE BASSETT	USERRECORD01		APP
*Percent new DTV interference without proposal:			0.8 BLCT
20050114ADV			
*Percent new DTV interference with proposal:			1.1 BLCT
20050114ADV			

Result key: 4
 Scenario 4 Affected station 2
 Before Analysis

Results for: 7N NE OMAHA

	BLCT	20050114ADV	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1225524	34935.9	
not affected by terrain losses	1198895	33238.3	
lost to NTSC IX	85427	2842.6	
lost to additional IX by ATV	10569	2057.9	
lost to all IX	95996	4900.5	

Potential Interfering Stations Included in above Scenario 4

7N IA WATERLOO	BLCT	20060524AEV	LIC
8N NE LINCOLN	BLCT	19960708KK	LIC
7A IA WATERLOO	BPCDT	20080314ADY	CP
7A MO KANSAS CITY	BPRM	20000417AAA	LIC
8A NE LINCOLN	BPCDT	20080411AAB	CP

After Analysis

Results for: 7N NE OMAHA

	BLCT	20050114ADV	LIC
	POPULATION	AREA (sq km)	
within Noise Limited Contour	1225524	34935.9	
not affected by terrain losses	1198895	33238.3	
lost to NTSC IX	85427	2842.6	
lost to additional IX by ATV	13885	2266.1	
lost to all IX	99312	5108.7	

Potential Interfering Stations Included in above Scenario 4

7N IA WATERLOO	BLCT	20060524AEV	LIC
8N NE LINCOLN	BLCT	19960708KK	LIC
7A IA WATERLOO	BPCDT	20080314ADY	CP
7A MO KANSAS CITY	BPRM	20000417AAA	LIC
8A NE LINCOLN	BPCDT	20080411AAB	CP
7A NE BASSETT	USERRECORD01		APP
*Percent new DTV interference without proposal:			0.9 BLCT

20050114ADV

*Percent new DTV interference with proposal:

1.1 BLCT

20050114ADV

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	KEVN-TV	RAPID CITY SD	BLCT	-2543

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
07	KQCD-TV	DICKINSON ND	320.8	LIC	BLCT	-
19800804KE						
07	KQCD-TV	DICKINSON ND	320.9	CP	BPCDT	-
20080305AEL						
07	KSWY	SHERIDAN WY	313.4	LIC	BLCT	-
20020408ABG						
08	KZSD-TV	MARTIN SD	153.3	CP	BPEDT	-
20080214ADA						
08	KZSD-TV	MARTIN SD	153.3	LIC	BLET	-
20070202AAO						
08	KZSD-TV	MARTIN SD	153.3	APP	BSTA	-
20080214AEE						
07	KMNE-D.C	BASSETT NE	360.8	APP	USERRECORD-01	

Total scenarios = 2

Result key: 5

Scenario 1 Affected station 3

Before Analysis

Results for:	7N SD RAPID CITY	BLCT	2543	LIC
		POPULATION	AREA (sq km)	
within Noise Limited Contour		149138	22335.8	
not affected by terrain losses		129400	19396.2	
lost to NTSC IX		930	769.0	
lost to additional IX by ATV		0	0.0	
lost to all IX		930	769.0	

Potential Interfering Stations Included in above Scenario 1

7N ND DICKINSON	BLCT	19800804KE	LIC
8N SD MARTIN	BLET	20070202AAO	LIC
7A ND DICKINSON	BPCDT	20080305AEL	CP

After Analysis

Results for:	7N SD RAPID CITY	BLCT	2543	LIC
		POPULATION	AREA (sq km)	
within Noise Limited Contour		149138	22335.8	
not affected by terrain losses		129400	19396.2	

lost to NTSC IX	930	769.0
lost to additional IX by ATV	0	4.0
lost to all IX	930	773.0

Potential Interfering Stations Included in above Scenario 1

7N ND DICKINSON	BLCT	19800804KE	LIC
8N SD MARTIN	BLET	20070202AAO	LIC
7A ND DICKINSON	BPCDT	20080305AEL	CP
7A NE BASSETT	USERRECORD01		APP

*Percent new DTV interference without proposal: 0.0 BLCT
2543
*Percent new DTV interference with proposal: 0.0 BLCT
2543

Result key: 6
Scenario 2 Affected station 3
Before Analysis

Results for: 7N SD RAPID CITY BLCT 2543 LIC

	POPULATION	AREA (sq km)
within Noise Limited Contour	149138	22335.8
not affected by terrain losses	129400	19396.2
lost to NTSC IX	930	769.0
lost to additional IX by ATV	0	0.0
lost to all IX	930	769.0

Potential Interfering Stations Included in above Scenario 2

7N ND DICKINSON	BLCT	19800804KE	LIC
8N SD MARTIN	BLET	20070202AAO	LIC
7A ND DICKINSON	BPCDT	20080305AEL	CP

After Analysis

Results for: 7N SD RAPID CITY BLCT 2543 LIC

	POPULATION	AREA (sq km)
within Noise Limited Contour	149138	22335.8
not affected by terrain losses	129400	19396.2
lost to NTSC IX	930	769.0
lost to additional IX by ATV	0	4.0
lost to all IX	930	773.0

Potential Interfering Stations Included in above Scenario 2

7N ND DICKINSON	BLCT	19800804KE	LIC
8N SD MARTIN	BLET	20070202AAO	LIC
7A ND DICKINSON	BPCDT	20080305AEL	CP
7A NE BASSETT	USERRECORD01		APP

*Percent new DTV interference without proposal: 0.0 BLCT
2543
*Percent new DTV interference with proposal: 0.0 BLCT
2543

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
08	KZSD-TV	MARTIN SD	BPEDT -20080214ADA

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
07	KEVN-TV	RAPID CITY SD	153.3	LIC	BLCT -2543
08	KSNK	MCCOOK NE	406.7	LIC	BMLCT -
20031125AMP					
08	KESD-TV	BROOKINGS SD	360.8	LIC	BLET -283
08	KESD-TV	BROOKINGS SD	360.8	CP	BPEDT -
20080214ADE					
08	KWYP-TV	LARAMIE WY	398.6	LIC	BLET -
20041129BBK					
08	KWYP-TV	LARAMIE WY	397.8	CP	BPEDT -
20080312AAZ					
09	KBHE-TV	RAPID CITY SD	152.1	LIC	BLET -
19980403KG					
09	KBHE-TV	RAPID CITY SD	152.0	APP	BPET -
20070108ABY					
07	KMNE-D.C	BASSETT NE	208.2	APP	USERRECORD-01
Proposal causes no interference					

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Analysis of Interference to Affected Station 5

NTSC Baseline Analysis

Channel	Call	City/State	Application Ref. No.
08	KZSDTV	MARTIN SD	DTVPLN -NPLN0564

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
08	KSNK	MCCOOK NE	406.9	PLN	DTVPLN -
NPLN0552					
08	KESDTV	BROOKINGS SD	360.7	PLN	DTVPLN -
NPLN0563					
08	NEW	LARAMIE WY	397.9	PLN	DTVPLN -
NPLN0575					
09	KBHETV	RAPID CITY SD	152.0	PLN	DTVPLN -
NPLN0623					

Results for:	8N SD MARTIN	DTVPLN	NPLN0564	PLN
		POPULATION	AREA (sq km)	
within Noise Limited Contour		30235	26442.9	
not affected by terrain losses		27775	24365.4	
lost to NTSC IX		120	420.3	
lost to additional IX by ATV		0	0.0	
lost to all IX		120	420.3	

Analysis of current record

Channel	Call	City/State	Application Ref. No.
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08 KZSD-TV MARTIN SD BLET -20070202AAO

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
07	KEVN-TV	RAPID CITY SD	153.3	LIC	BLCT	-2543
08	KSNK	MCCOOK NE	406.7	LIC	BMLCT	-
20031125AMP						
08	KESD-TV	BROOKINGS SD	360.8	LIC	BLET	-283
08	KESD-TV	BROOKINGS SD	360.8	CP	BPEDT	-
20080214ADE						
08	KWYP-TV	LARAMIE WY	398.6	LIC	BLET	-
20041129BBK						
08	KWYP-TV	LARAMIE WY	397.8	CP	BPEDT	-
20080312AAZ						
09	KBHE-TV	RAPID CITY SD	152.1	LIC	BLET	-
19980403KG						
09	KBHE-TV	RAPID CITY SD	152.0	APP	BPET	-
20070108ABY						
07	KMNE-D.C	BASSETT NE	208.2	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.
08	KZSD-TV	MARTIN SD	BSTA	-20080214AEE

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
07	KEVN-TV	RAPID CITY SD	153.3	LIC	BLCT	-2543
08	KSNK	MCCOOK NE	406.7	LIC	BMLCT	-
20031125AMP						
08	KESD-TV	BROOKINGS SD	360.8	LIC	BLET	-283
08	KESD-TV	BROOKINGS SD	360.8	CP	BPEDT	-
20080214ADE						
08	KWYP-TV	LARAMIE WY	398.6	LIC	BLET	-
20041129BBK						
08	KWYP-TV	LARAMIE WY	397.8	CP	BPEDT	-
20080312AAZ						
09	KBHE-TV	RAPID CITY SD	152.1	LIC	BLET	-
19980403KG						
09	KBHE-TV	RAPID CITY SD	152.0	APP	BPET	-
20070108ABY						
07	KMNE-D.C	BASSETT NE	208.2	APP	USERRECORD-01	

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.
07	KMNE-D.C	BASSETT NE	USERRECORD-01

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
07	KBSH-TV	HAYS KS	383.8	LIC	BLCT -
20051222AES					
07	KETV	OMAHA NE	308.3	LIC	BLCT -
20050114ADV					
07	KEVN-TV	RAPID CITY SD	360.8	LIC	BLCT -2543
08	KZSD-TV	MARTIN SD	208.2	CP	BPEDT -
20080214ADA					
08	KZSD-TV	MARTIN SD	208.2	LIC	BLET -
20070202AAO					
08	KZSD-TV	MARTIN SD	208.2	APP	BSTA -
20080214AEE					

Total scenarios = 1

Result key: 7
Scenario 1 Affected station 7
Before Analysis

Results for: 7A NE BASSETT USERRECORD01 APP
HAAT 454.0 m, ATV ERP 17.6 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	48180	37023.9
not affected by terrain losses	43414	35943.9
lost to NTSC IX	1306	552.1
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	1306	552.1

Potential Interfering Stations Included in above Scenario 1

7N KS HAYS	BLCT	20051222AES	LIC
7N NE OMAHA	BLCT	20050114ADV	LIC
7N SD RAPID CITY	BLCT	2543	LIC

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