

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 06-10-2008 Time: 17:59:13

Record Selected for Analysis

KESD-D.C USERRECORD-01 BROOKINGS SD US
 Channel 08 ERP 15. kW HAAT 230. m RCAMSL 00764 m
 Latitude 044-20-16 Longitude 0097-13-42
 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	15.000	225.3	91.5
45.0	15.000	215.7	90.7
90.0	15.000	219.8	91.1
135.0	15.000	228.7	91.8
180.0	15.000	231.2	92.0
225.0	15.000	235.5	92.3
270.0	15.000	244.0	92.9
315.0	15.000	236.0	92.3

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

KESD-D.C 08 BROOKINGS SD USERRECORD01

and station

SHORT TO: KTTW 07 SIOUX FALLS SD BDTV 1436
 43 -29-20 096 -45-40
 Req. separation => 23.0 <= 110.0 Actual separation 101.5 Short 8.5(

78.5) km

SHORT TO: KESD-TV 08 BROOKINGS SD BDTV 1419
44 -20-16 097 -13-42
Req. separation 273.6 Actual separation 0.0 Short 273.6 km

SHORT TO: KABY-TV 09 ABERDEEN SD BDTV 1417
45 -06-32 097 -53-30
Req. separation => 23.0 <= 110.0 Actual separation 100.5 Short 9.5(
77.5) km

SHORT TO: KABY-D.C 09 ABERDEEN SD USERRECORD02
045-06-23 0097-53-57
Req. separation => 23.0 <= 110.0 Actual separation 100.6 Short 9.4(
77.6) km

SHORT TO: KTTW-D.C 07 SIOUX FALLS SD USERRECORD06
043-30-19 0096-34-19
Req. separation => 23.0 <= 110.0 Actual separation 106.5 Short 3.5(
83.5) km

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	Call	City/State	ARN
08	KESD-D.C	BROOKINGS SD	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
07	KCCO-TV	ALEXANDRIA MN	222.2	LIC	BDTV	-0814
07	KTTW	SIOUX FALLS SD	101.5	LIC	BDTV	-1436
08	KCCI	DES MOINES IA	405.8	LIC	BDTV	-0470
08	WDAZ-TV	DEVILS LAKE ND	426.7	LIC	BDTV	-0996
08	KLKN	LINCOLN NE	384.0	LIC	BDTV	-1028
08	KZSD-TV	MARTIN SD	360.7	LIC	BDTV	-1426
09	KCAU-TV	SIOUX CITY IA	210.6	LIC	BDTV	-0484
09	KABY-TV	ABERDEEN SD	100.4	LIC	BDTV	-1417
09	KABY-D.C	ABERDEEN SD	100.5	APP	USERRECORD-02	

09	KCAU-D.C SIOUX CITY IA	210.6	APP	USERRECORD-03
08	KZSD-D.C MARTIN SD	360.8	APP	USERRECORD-04
08	KCCI-D.C DES MOINES IA	405.8	APP	USERRECORD-05
07	KTWW-D.C SIOUX FALLS SD	106.4	APP	USERRECORD-06
08	WDAZ-D.C DEVIL'S LAKE-3 ND	426.5	APP	USERRECORD-07

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	KCCO-TV	ALEXANDRIA MN	BDTV	-0814

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
07	KJRR	JAMESTOWN ND	311.3	LIC	BDTV	-1008
07	KTWW	SIOUX FALLS SD	275.8	LIC	BDTV	-1436
08	KESD-D.C	BROOKINGS SD	222.2	APP	USERRECORD-01	
07	KTWW-D.C	SIOUX FALLS SD	267.5	APP	USERRECORD-06	

Proposal causes no interference

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
07	KTWW	SIOUX FALLS SD	BDTV	-1436

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
07	KWWL	WATERLOO IA	417.8	LIC	BDTV	-0489
07	KCCO-TV	ALEXANDRIA MN	275.8	LIC	BDTV	-0814
07	KJRR	JAMESTOWN ND	413.1	LIC	BDTV	-1008
07	KMNE-TV	BASSETT NE	256.1	LIC	BDTV	-1020
08	KESD-D.C	BROOKINGS SD	101.5	APP	USERRECORD-01	

Total scenarios = 1

Result key: 1
 Scenario 1 Affected station 2
 Before Analysis

Results for: 7A SD SIOUX FALLS BDTV 1436 LIC
 HAAT 126.0 m, ATV ERP 65.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	330884	22977.3
not affected by terrain losses	326636	22341.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	7101	1188.5

lost to ATV IX only	7101	1188.5
lost to all IX	7101	1188.5

Potential Interfering Stations Included in above Scenario 1

7A MN ALEXANDRIA	BDTV	0814	LIC
7A NE BASSETT	BDTV	1020	LIC

After Analysis

Results for: 7A SD SIOUX FALLS BDTV 1436 LIC
 HAAT 126.0 m, ATV ERP 65.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	330884	22977.3
not affected by terrain losses	326636	22341.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	9461	1624.7
lost to ATV IX only	9461	1624.7
lost to all IX	9461	1624.7

Potential Interfering Stations Included in above Scenario 1

7A MN ALEXANDRIA	BDTV	0814	LIC
7A NE BASSETT	BDTV	1020	LIC
8A SD BROOKINGS	USERRECORD01		APP
*Percent Service lost without proposal:	0.0	to BDTV	1436
*Percent Service lost with proposal:	0.7	to BDTV	1436

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application Ref. No.
08	KCCI	DES MOINES IA	BDTV -0470

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
07	KWWL	WATERLOO IA	160.5	LIC	BDTV -0489
08	951215KK	GALESBURG IL	275.2	LIC	BDTV -0534
08	KOMUTV	COLUMBIA MO	344.5	LIC	BDTV -0850
08	KLKN	LINCOLN NE	324.2	LIC	BDTV -1028
08	WKBT	LA CROSSE WI	314.3	LIC	BDTV -1747
09	KCRG-TV	CEDAR RAPIDS IA	156.0	LIC	BDTV -0462
08	KESD-D.C	BROOKINGS SD	405.8	APP	USERRECORD-01

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.
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08 WDAZ-TV DEVILS LAKE ND BDTV -0996

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
07	KJRR	JAMESTOWN ND	147.1	LIC	BDTV	-1008
08	KESD-D.C	BROOKINGS SD	426.7	APP	USERRECORD-01	
08	WDAZ-D.C	DEVIL'S LAKE-3 ND	0.2	APP	USERRECORD-07	

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.
08	KLKN	LINCOLN NE	BDTV	-1028

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
08	KCCI	DES MOINES IA	324.2	LIC	BDTV	-0470
08	KPTS	HUTCHINSON KS	316.8	LIC	BDTV	-0614
09	KCAU-TV	SIOUX CITY IA	209.2	LIC	BDTV	-0484
08	KESD-D.C	BROOKINGS SD	384.0	APP	USERRECORD-01	
09	KCAU-D.C	SIOUX CITY IA	209.2	APP	USERRECORD-03	
08	KCCI-D.C	DES MOINES IA	324.2	APP	USERRECORD-05	

Total scenarios = 2

Result key: 2

Scenario 1 Affected station 5
Before Analysis

Results for: 8A NE LINCOLN BDTV 1028 LIC
HAAT 440.0 m, ATV ERP 17.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	721090	36083.9
not affected by terrain losses	715233	35765.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	19845	229.7
lost to ATV IX only	19845	229.7
lost to all IX	19845	229.7

Potential Interfering Stations Included in above Scenario 1

8A IA DES MOINES	BDTV	0470	LIC
8A KS HUTCHINSON	BDTV	0614	LIC

After Analysis

Results for: 8A NE LINCOLN BDTV 1028 LIC
HAAT 440.0 m, ATV ERP 17.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	721090	36083.9
not affected by terrain losses	715233	35765.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	20503	237.7
lost to ATV IX only	20503	237.7
lost to all IX	20503	237.7

Potential Interfering Stations Included in above Scenario 1

8A IA DES MOINES	BDTV	0470	LIC	
8A KS HUTCHINSON	BDTV	0614	LIC	
8A SD BROOKINGS	USERRECORD01		APP	
*Percent Service lost without proposal:		0.0	to BDTV	1028
*Percent Service lost with proposal:		0.1	to BDTV	1028

Result key: 3
 Scenario 2 Affected station 5
 Before Analysis

Results for: 8A NE LINCOLN BDTV 1028 LIC
 HAAT 440.0 m, ATV ERP 17.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	721090	36083.9
not affected by terrain losses	715233	35765.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	10192	185.3
lost to ATV IX only	10192	185.3
lost to all IX	10192	185.3

Potential Interfering Stations Included in above Scenario 2

8A IA DES MOINES	USERRECORD05	APP
8A KS HUTCHINSON	BDTV	0614 LIC

After Analysis

Results for: 8A NE LINCOLN BDTV 1028 LIC
 HAAT 440.0 m, ATV ERP 17.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	721090	36083.9
not affected by terrain losses	715233	35765.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	10850	193.4
lost to ATV IX only	10850	193.4
lost to all IX	10850	193.4

Potential Interfering Stations Included in above Scenario 2

8A IA DES MOINES	USERRECORD05	APP	
8A KS HUTCHINSON	BDTV	0614	LIC
8A SD BROOKINGS	USERRECORD01		APP
*Percent Service lost without proposal:		0.0	to BDTV 1028
*Percent Service lost with proposal:		0.1	to BDTV 1028

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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	BDTV	-1426

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
07	KMNE-TV	BASSETT NE	208.3	LIC	BDTV	-1020
07	KDUH-TV	SCOTTSBLUFF NE	216.4	LIC	BDTV	-1043
07	KEVNTV	RAPID CITY SD	153.2	LIC	BDTV	-1431
08	KWYP-TV	LARAMIE WY	398.8	LIC	BDTV	-1806
08	KESD-D.C	BROOKINGS SD	360.7	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.
09	KCAU-TV	SIOUX CITY IA	BDTV	-0484

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
08	KLKN	LINCOLN NE	209.2	LIC	BDTV	-1028
09	KCRG-TV	CEDAR RAPIDS IA	359.9	LIC	BDTV	-0462
09	KMSP-TV	MINNEAPOLIS MN	370.9	LIC	BDTV	-0832
09	KMBC-TV	KANSAS CITY MO	415.2	LIC	BDTV	-0858
09	KABY-TV	ABERDEEN SD	310.3	LIC	BDTV	-1417
10	KOLN	LINCOLN NE	213.3	LIC	BDTV	-1029
08	KESD-D.C	BROOKINGS SD	210.6	APP	USERRECORD-01	
09	KABY-D.C	ABERDEEN SD	310.3	APP	USERRECORD-02	

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.
09	KABY-TV	ABERDEEN SD	BDTV	-1417

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
09	KCAU-TV	SIOUX CITY IA	310.3	LIC	BDTV	-0484
09	KAWB	BEMIDJI MN	388.6	LIC	BDTV	-0819
09	KMSP-TV	MINNEAPOLIS MN	374.1	LIC	BDTV	-0832
09	KDSE	DICKINSON ND	427.9	LIC	BDTV	-0999

10	KWCM-TV	APPLETON MN	148.4	LIC	BDTV	-0816
10	KTSD-TV	PIERRE SD	185.6	LIC	BDTV	-1428
08	KESD-D.C	BROOKINGS SD	100.4	APP	USERRECORD-01	
09	KCAU-D.C	SIOUX CITY IA	310.3	APP	USERRECORD-03	

Total scenarios = 2

Result key: 4
 Scenario 1 Affected station 8
 Before Analysis

Results for: 9A SD ABERDEEN BDTV 1417 LIC
 HAAT 427.0 m, ATV ERP 19.4 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	136909	35222.3
not affected by terrain losses	130919	33805.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1885	301.9
lost to ATV IX only	1885	301.9
lost to all IX	1885	301.9

Potential Interfering Stations Included in above Scenario 1

9A IA SIOUX CITY	BDTV	0484	LIC
9A MN BEMIDJI	BDTV	0819	LIC
9A MN MINNEAPOLIS	BDTV	0832	LIC

After Analysis

Results for: 9A SD ABERDEEN BDTV 1417 LIC
 HAAT 427.0 m, ATV ERP 19.4 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	136909	35222.3
not affected by terrain losses	130919	33805.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4007	1131.0
lost to ATV IX only	4007	1131.0
lost to all IX	4007	1131.0

Potential Interfering Stations Included in above Scenario 1

9A IA SIOUX CITY	BDTV	0484	LIC
9A MN BEMIDJI	BDTV	0819	LIC
9A MN MINNEAPOLIS	BDTV	0832	LIC
8A SD BROOKINGS	USERRECORD01		APP
*Percent Service lost without proposal:	0.0	to BDTV	1417
*Percent Service lost with proposal:	1.6	to BDTV	1417

Result key: 5
 Scenario 2 Affected station 8
 Before Analysis

Results for: 9A SD ABERDEEN BDTV 1417 LIC
 HAAT 427.0 m, ATV ERP 19.4 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	136909	35222.3
not affected by terrain losses	130919	33805.5
lost to NTSC IX	0	0.0

lost to additional IX by ATV	1894	305.9
lost to ATV IX only	1894	305.9
lost to all IX	1894	305.9

Potential Interfering Stations Included in above Scenario 2

9A IA SIOUX CITY	USERRECORD03	APP
9A MN BEMIDJI	BDTV 0819	LIC
9A MN MINNEAPOLIS	BDTV 0832	LIC

After Analysis

Results for: 9A SD ABERDEEN BDTV 1417 LIC
 HAAT 427.0 m, ATV ERP 19.4 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	136909	35222.3
not affected by terrain losses	130919	33805.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4015	1131.0
lost to ATV IX only	4015	1131.0
lost to all IX	4015	1131.0

Potential Interfering Stations Included in above Scenario 2

9A IA SIOUX CITY	USERRECORD03	APP
9A MN BEMIDJI	BDTV 0819	LIC
9A MN MINNEAPOLIS	BDTV 0832	LIC
8A SD BROOKINGS	USERRECORD01	APP
*Percent Service lost without proposal:	0.0 to BDTV	1417
*Percent Service lost with proposal:	1.6 to BDTV	1417

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application Ref. No.
09	KABY-D.C	ABERDEEN SD	USERRECORD-02

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
09	KCAU-TV	SIOUX CITY IA	310.3	LIC	BDTV -0484
09	KAWB	BEMIDJI MN	389.2	LIC	BDTV -0819
09	KMSP-TV	MINNEAPOLIS MN	374.7	LIC	BDTV -0832
09	KDSE	DICKINSON ND	427.5	LIC	BDTV -0999
10	KWCM-TV	APPLETON MN	149.0	LIC	BDTV -0816
10	KTSD-TV	PIERRE SD	185.0	LIC	BDTV -1428
08	KESD-D.C	BROOKINGS SD	100.5	APP	USERRECORD-01
09	KCAU-D.C	SIOUX CITY IA	310.3	APP	USERRECORD-03

Total scenarios = 2

Result key: 6
 Scenario 1 Affected station 9

Before Analysis

Results for: 9A SD ABERDEEN USERRECORD02 APP
 HAAT 427.0 m, ATV ERP 19.4 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	139305	36202.3
not affected by terrain losses	132660	34753.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1937	289.8
lost to ATV IX only	1937	289.8
lost to all IX	1937	289.8

Potential Interfering Stations Included in above Scenario 1

9A IA SIOUX CITY	BDTV	0484	LIC
9A MN BEMIDJI	BDTV	0819	LIC
9A MN MINNEAPOLIS	BDTV	0832	LIC

After Analysis

Results for: 9A SD ABERDEEN USERRECORD02 APP
 HAAT 427.0 m, ATV ERP 19.4 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	139305	36202.3
not affected by terrain losses	132660	34753.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4143	1179.4
lost to ATV IX only	4143	1179.4
lost to all IX	4143	1179.4

Potential Interfering Stations Included in above Scenario 1

9A IA SIOUX CITY	BDTV	0484	LIC
9A MN BEMIDJI	BDTV	0819	LIC
9A MN MINNEAPOLIS	BDTV	0832	LIC
8A SD BROOKINGS	USERRECORD01		APP
*Percent Service lost without proposal:	0.0	to USERRECORD02	
*Percent Service lost with proposal:	1.7	to USERRECORD02	

Result key: 7
 Scenario 2 Affected station 9
 Before Analysis

Results for: 9A SD ABERDEEN USERRECORD02 APP
 HAAT 427.0 m, ATV ERP 19.4 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	139305	36202.3
not affected by terrain losses	132660	34753.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1937	289.8
lost to ATV IX only	1937	289.8
lost to all IX	1937	289.8

Potential Interfering Stations Included in above Scenario 2

9A IA SIOUX CITY	USERRECORD03	APP
9A MN BEMIDJI	BDTV	0819 LIC
9A MN MINNEAPOLIS	BDTV	0832 LIC

After Analysis

Results for: 9A SD ABERDEEN USERRECORD02 APP
 HAAT 427.0 m, ATV ERP 19.4 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	139305	36202.3
not affected by terrain losses	132660	34753.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4143	1179.4
lost to ATV IX only	4143	1179.4
lost to all IX	4143	1179.4

Potential Interfering Stations Included in above Scenario 2

9A IA SIOUX CITY	USERRECORD03	APP
9A MN BEMIDJI	BDTV 0819	LIC
9A MN MINNEAPOLIS	BDTV 0832	LIC
8A SD BROOKINGS	USERRECORD01	APP
*Percent Service lost without proposal:	0.0	to USERRECORD02
*Percent Service lost with proposal:	1.7	to USERRECORD02

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Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application Ref. No.
09	KCAU-D.C	SIOUX CITY IA	USERRECORD-03

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
08	KLKN	LINCOLN NE	209.2	LIC	BDTV -1028
09	KCRG-TV	CEDAR RAPIDS IA	359.9	LIC	BDTV -0462
09	KMSP-TV	MINNEAPOLIS MN	370.9	LIC	BDTV -0832
09	KMBC-TV	KANSAS CITY MO	415.2	LIC	BDTV -0858
09	KABY-TV	ABERDEEN SD	310.3	LIC	BDTV -1417
10	KOLN	LINCOLN NE	213.3	LIC	BDTV -1029
08	KESD-D.C	BROOKINGS SD	210.6	APP	USERRECORD-01
09	KABY-D.C	ABERDEEN SD	310.3	APP	USERRECORD-02

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.
08	KZSD-D.C	MARTIN SD	USERRECORD-04

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
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07	KMNE-TV	BASSETT NE	208.2	LIC	BDTV	-1020
07	KDUH-TV	SCOTTSBLUFF NE	216.2	LIC	BDTV	-1043
07	KEVNTV	RAPID CITY SD	153.3	LIC	BDTV	-1431
08	KWYP-TV	LARAMIE WY	398.6	LIC	BDTV	-1806
08	KESD-D.C	BROOKINGS SD	360.8	APP	USERRECORD-01	

Total scenarios = 1

Result key: 8
 Scenario 1 Affected station 11
 Before Analysis

Results for: 8A SD MARTIN USERRECORD04 APP
 HAAT 266.0 m, ATV ERP 44.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	39093	33090.6
not affected by terrain losses	31520	31425.2
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

Results for: 8A SD MARTIN USERRECORD04 APP
 HAAT 266.0 m, ATV ERP 44.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	39093	33090.6
not affected by terrain losses	31520	31425.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	12	56.0
lost to ATV IX only	12	56.0
lost to all IX	12	56.0

Potential Interfering Stations Included in above Scenario 1

8A SD BROOKINGS USERRECORD01 APP
 *Percent Service lost without proposal: 0.0 to USERRECORD04
 *Percent Service lost with proposal: 0.0 to USERRECORD04

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Analysis of Interference to Affected Station 12

Analysis of current record

Channel	Call	City/State	Application Ref. No.
08	KCCI-D.C	DES MOINES IA	USERRECORD-05

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
07	KWWL	WATERLOO IA	160.5	LIC	BDTV -0489

08	951215KK	GALESBURG IL	275.2	LIC	BDTV	-0534
08	KOMUTV	COLUMBIA MO	344.5	LIC	BDTV	-0850
08	KLKN	LINCOLN NE	324.2	LIC	BDTV	-1028
08	WKBT	LA CROSSE WI	314.3	LIC	BDTV	-1747
09	KCRG-TV	CEDAR RAPIDS IA	156.0	LIC	BDTV	-0462
08	KESD-D.C	BROOKINGS SD	405.8	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 13

Analysis of current record

Channel	Call	City/State	Application Ref. No.
07	KTTW-D.C	SIOUX FALLS SD	USERRECORD-06

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
07	KWWL	WATERLOO IA	403.6	LIC	BDTV -0489
07	KCCO-TV	ALEXANDRIA MN	267.5	LIC	BDTV -0814
07	KJRR	JAMESTOWN ND	417.3	LIC	BDTV -1008
07	KMNE-TV	BASSETT NE	270.3	LIC	BDTV -1020
08	KESD-D.C	BROOKINGS SD	106.4	APP	USERRECORD-01

Total scenarios = 1

Result key: 9

Scenario 1 Affected station 13

Before Analysis

Results for: 7A SD SIOUX FALLS USERRECORD06 APP
HAAT 218.0 m, ATV ERP 7.5 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	287413	18871.9
not affected by terrain losses	284854	17880.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5018	991.8
lost to ATV IX only	5018	991.8
lost to all IX	5018	991.8

Potential Interfering Stations Included in above Scenario 1

7A MN ALEXANDRIA	BDTV	0814	LIC
7A NE BASSETT	BDTV	1020	LIC

After Analysis

Results for: 7A SD SIOUX FALLS USERRECORD06 APP
HAAT 218.0 m, ATV ERP 7.5 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	287413	18871.9
not affected by terrain losses	284854	17880.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	6033	1347.7
lost to ATV IX only	6033	1347.7

lost to all IX 6033 1347.7

Potential Interfering Stations Included in above Scenario 1

7A MN ALEXANDRIA	BDTV	0814	LIC
7A NE BASSETT	BDTV	1020	LIC
8A SD BROOKINGS	USERRECORD01		APP
*Percent Service lost without proposal:	0.0	to USERRECORD06	
*Percent Service lost with proposal:	0.4	to USERRECORD06	

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Analysis of Interference to Affected Station 14

Analysis of current record

Channel	Call	City/State	Application Ref. No.
08	WDAZ-D.C	DEVIL'S LAKE-3 ND	USERRECORD-07

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
07	KJRR	JAMESTOWN ND	147.0	LIC	BDTV -1008
08	WDAZ-TV	DEVILS LAKE ND	0.2	LIC	BDTV -0996
08	KESD-D.C	BROOKINGS SD	426.5	APP	USERRECORD-01

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 15

Analysis of current record

Channel	Call	City/State	Application Ref. No.
08	KESD-D.C	BROOKINGS SD	USERRECORD-01

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
07	KCCO-TV	ALEXANDRIA MN	222.2	LIC	BDTV -0814
07	KTTW	SIOUX FALLS SD	101.5	LIC	BDTV -1436
08	KCCI	DES MOINES IA	405.8	LIC	BDTV -0470
08	WDAZ-TV	DEVILS LAKE ND	426.7	LIC	BDTV -0996
08	KLKN	LINCOLN NE	384.0	LIC	BDTV -1028
08	KZSD-TV	MARTIN SD	360.7	LIC	BDTV -1426
09	KCAU-TV	SIOUX CITY IA	210.6	LIC	BDTV -0484
09	KABY-TV	ABERDEEN SD	100.4	LIC	BDTV -1417
09	KABY-D.C	ABERDEEN SD	100.5	APP	USERRECORD-02
09	KCAU-D.C	SIOUX CITY IA	210.6	APP	USERRECORD-03
08	KZSD-D.C	MARTIN SD	360.8	APP	USERRECORD-04
08	KCCI-D.C	DES MOINES IA	405.8	APP	USERRECORD-05
07	KTTW-D.C	SIOUX FALLS SD	106.4	APP	USERRECORD-06
08	WDAZ-D.C	DEVIL'S LAKE-3 ND	426.5	APP	USERRECORD-07

Total scenarios = 8

Result key: 10
Scenario 1 Affected station 15
Before Analysis

Results for: 8A SD BROOKINGS USERRECORD01 APP
HAAT 230.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	158350	26472.8
not affected by terrain losses	152285	25041.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	10435	1762.4
lost to ATV IX only	10435	1762.4
lost to all IX	10435	1762.4

Potential Interfering Stations Included in above Scenario 1

7A SD SIOUX FALLS	BDTV	1436	LIC
8A NE LINCOLN	BDTV	1028	LIC
8A SD MARTIN	BDTV	1426	LIC
9A SD ABERDEEN	BDTV	1417	LIC

Result key: 11
Scenario 2 Affected station 15
Before Analysis

Results for: 8A SD BROOKINGS USERRECORD01 APP
HAAT 230.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	158350	26472.8
not affected by terrain losses	152285	25041.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	10465	1843.1
lost to ATV IX only	10465	1843.1
lost to all IX	10465	1843.1

Potential Interfering Stations Included in above Scenario 2

7A SD SIOUX FALLS	BDTV	1436	LIC
8A NE LINCOLN	BDTV	1028	LIC
8A SD MARTIN	BDTV	1426	LIC
9A SD ABERDEEN	USERRECORD02		APP

Result key: 12
Scenario 3 Affected station 15
Before Analysis

Results for: 8A SD BROOKINGS USERRECORD01 APP
HAAT 230.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	158350	26472.8
not affected by terrain losses	152285	25041.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	10440	1766.5
lost to ATV IX only	10440	1766.5
lost to all IX	10440	1766.5

Potential Interfering Stations Included in above Scenario 3

7A SD SIOUX FALLS	BDTV	1436	LIC
8A NE LINCOLN	BDTV	1028	LIC
8A SD MARTIN	USERRECORD04		APP
9A SD ABERDEEN	BDTV	1417	LIC

Result key: 13
Scenario 4 Affected station 15
Before Analysis

Results for: 8A SD BROOKINGS USERRECORD01 APP
HAAT 230.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	158350	26472.8
not affected by terrain losses	152285	25041.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	10470	1847.1
lost to ATV IX only	10470	1847.1
lost to all IX	10470	1847.1

Potential Interfering Stations Included in above Scenario 4

7A SD SIOUX FALLS	BDTV	1436	LIC
8A NE LINCOLN	BDTV	1028	LIC
8A SD MARTIN	USERRECORD04		APP
9A SD ABERDEEN	USERRECORD02		APP

Result key: 14
Scenario 5 Affected station 15
Before Analysis

Results for: 8A SD BROOKINGS USERRECORD01 APP
HAAT 230.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	158350	26472.8
not affected by terrain losses	152285	25041.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5347	1504.3
lost to ATV IX only	5347	1504.3
lost to all IX	5347	1504.3

Potential Interfering Stations Included in above Scenario 5

7A SD SIOUX FALLS	USERRECORD06		APP
8A NE LINCOLN	BDTV	1028	LIC
8A SD MARTIN	BDTV	1426	LIC
9A SD ABERDEEN	BDTV	1417	LIC

Result key: 15
Scenario 6 Affected station 15
Before Analysis

Results for: 8A SD BROOKINGS USERRECORD01 APP
HAAT 230.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	158350	26472.8
not affected by terrain losses	152285	25041.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5377	1585.0

lost to ATV IX only	5377	1585.0
lost to all IX	5377	1585.0

Potential Interfering Stations Included in above Scenario 6

7A SD SIOUX FALLS	USERRECORD06	APP
8A NE LINCOLN	BDTV 1028	LIC
8A SD MARTIN	BDTV 1426	LIC
9A SD ABERDEEN	USERRECORD02	APP

Result key: 16
 Scenario 7 Affected station 15
 Before Analysis

Results for: 8A SD BROOKINGS USERRECORD01 APP

HAAT 230.0 m, ATV ERP 15.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	158350	26472.8
not affected by terrain losses	152285	25041.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5352	1508.4
lost to ATV IX only	5352	1508.4
lost to all IX	5352	1508.4

Potential Interfering Stations Included in above Scenario 7

7A SD SIOUX FALLS	USERRECORD06	APP
8A NE LINCOLN	BDTV 1028	LIC
8A SD MARTIN	USERRECORD04	APP
9A SD ABERDEEN	BDTV 1417	LIC

Result key: 17
 Scenario 8 Affected station 15
 Before Analysis

Results for: 8A SD BROOKINGS USERRECORD01 APP

HAAT 230.0 m, ATV ERP 15.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	158350	26472.8
not affected by terrain losses	152285	25041.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5382	1589.0
lost to ATV IX only	5382	1589.0
lost to all IX	5382	1589.0

Potential Interfering Stations Included in above Scenario 8

7A SD SIOUX FALLS	USERRECORD06	APP
8A NE LINCOLN	BDTV 1028	LIC
8A SD MARTIN	USERRECORD04	APP
9A SD ABERDEEN	USERRECORD02	APP

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