

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 06-10-2008 Time: 12:39:17

Record Selected for Analysis

KQSD-D.C USERRECORD-01 LOWRY SD US
Channel 11 ERP 40. kW HAAT 298. m RCAMSL 00905 m
Latitude 045-16-38 Longitude 0099-59-10
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	40.000	277.1	102.2
45.0	40.000	299.6	103.4
90.0	40.000	313.2	104.4
135.0	40.000	304.5	103.7
180.0	40.000	287.3	102.7
225.0	40.000	276.6	102.2
270.0	40.000	305.7	103.8
315.0	40.000	316.8	104.7

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

KQSD-D.C 11 LOWRY SD USERRECORD01

and station

SHORT TO: KQSD-TV 11 LOWRY SD BDTV 1425
45 -16-34 099 -59-03
Req. separation 273.6 Actual separation 0.2 Short 273.4 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	Proposed Station Call	City/State	ARN
11	KQSD-D.C	LOWRY SD	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
10	KTSD-TV	PIERRE SD	149.0	LIC	BDTV	-1428
11	KELO-TV	SIOUX FALLS SD	336.6	LIC	BDTV	-1437
12	KXMB-TV	BISMARCK ND	158.9	LIC	BDTV	-0991
12	KTTM	HURON SD	178.4	LIC	BDTV	-1422
10	KTSD-D.C	PIERRE SD	148.8	APP	USERRECORD-02	
12	KTTM-D.C	HURON SD	178.4	APP	USERRECORD-03	
12	KXMB-D.C	BISMARCK ND	159.0	APP	USERRECORD-04	
11	KELO-D.C	SIOUX FALLS SD	336.6	APP	USERRECORD-05	

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
10	KTSD-TV	PIERRE SD	BDTV	-1428

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
09	KABY-TV	ABERDEEN SD	185.6	LIC	BDTV	-1417
10	KWCM-TV	APPLETON MN	314.7	LIC	BDTV	-0816
10	KOLN	LINCOLN NE	403.8	LIC	BDTV	-1029
10	KHSD-TV	LEAD SD	340.3	LIC	BDTV	-1424
11	KQSD-D.C	LOWRY SD	149.0	APP	USERRECORD-01	

Total scenarios = 1

Result key: 1

Scenario 1 Affected station 1
Before Analysis

Results for: 10A SD PIERRE BDTV 1428 LIC
HAAT 488.0 m, ATV ERP 21.4 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	63448	39456.2
not affected by terrain losses	62951	38324.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	825	589.9
lost to ATV IX only	825	589.9
lost to all IX	825	589.9

Potential Interfering Stations Included in above Scenario 1

9A SD ABERDEEN	BDTV	1417	LIC
10A MN APPLETON	BDTV	0816	LIC
10A NE LINCOLN	BDTV	1029	LIC
10A SD LEAD	BDTV	1424	LIC

After Analysis

Results for: 10A SD PIERRE BDTV 1428 LIC
HAAT 488.0 m, ATV ERP 21.4 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	63448	39456.2
not affected by terrain losses	62951	38324.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	844	634.1
lost to ATV IX only	844	634.1
lost to all IX	844	634.1

Potential Interfering Stations Included in above Scenario 1

9A SD ABERDEEN	BDTV	1417	LIC
10A MN APPLETON	BDTV	0816	LIC
10A NE LINCOLN	BDTV	1029	LIC
10A SD LEAD	BDTV	1424	LIC
11A SD LOWRY	USERRECORD01		APP
*Percent Service lost without proposal:	0.0	to BDTV	1428
*Percent Service lost with proposal:	0.0	to BDTV	1428

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application Ref. No.
11	KELO-TV	SIOUX FALLS SD	BDTV -1437

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
10	KWCM-TV	APPLETON MN	188.1	LIC	BDTV -0816
11	KDIN-TV	DES MOINES IA	305.0	LIC	BDTV -0471
11	KARE	MINNEAPOLIS MN	320.0	LIC	BDTV -0833

11	KGIN	GRAND ISLAND NE	375.6	LIC	BDTV	-1021
12	KEYC-TV	MANKATO MN	176.8	LIC	BDTV	-0831
12	KTTM	HURON SD	161.4	LIC	BDTV	-1422
11	KQSD-D.C	LOWRY SD	336.6	APP	USERRECORD-01	
12	KTTM-D.C	HURON SD	161.4	APP	USERRECORD-03	

Total scenarios = 2

Result key: 2
 Scenario 1 Affected station 2
 Before Analysis

Results for: 11A SD SIOUX FALLS BDTV 1437 LIC
 HAAT 589.0 m, ATV ERP 24.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	593172	43651.8
not affected by terrain losses	541132	42100.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	11022	1079.7
lost to ATV IX only	11022	1079.7
lost to all IX	11022	1079.7

Potential Interfering Stations Included in above Scenario 1

10A MN APPLETON	BDTV	0816	LIC
11A IA DES MOINES	BDTV	0471	LIC
11A MN MINNEAPOLIS	BDTV	0833	LIC
11A NE GRAND ISLAND	BDTV	1021	LIC
12A SD HURON	BDTV	1422	LIC

After Analysis

Results for: 11A SD SIOUX FALLS BDTV 1437 LIC
 HAAT 589.0 m, ATV ERP 24.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	593172	43651.8
not affected by terrain losses	541132	42100.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	11549	1379.6
lost to ATV IX only	11549	1379.6
lost to all IX	11549	1379.6

Potential Interfering Stations Included in above Scenario 1

10A MN APPLETON	BDTV	0816	LIC
11A IA DES MOINES	BDTV	0471	LIC
11A MN MINNEAPOLIS	BDTV	0833	LIC
11A NE GRAND ISLAND	BDTV	1021	LIC
12A SD HURON	BDTV	1422	LIC
11A SD LOWRY	USERRECORD01		APP
*Percent Service lost without proposal:	0.0	to BDTV	1437
*Percent Service lost with proposal:	0.1	to BDTV	1437

Result key: 3
 Scenario 2 Affected station 2
 Before Analysis

Results for: 11A SD SIOUX FALLS BDTV 1437 LIC

HAAT	589.0 m,	ATV ERP	24.1 kW
		POPULATION	AREA (sq km)
within Noise Limited Contour		593172	43651.8
not affected by terrain losses		541132	42100.3
lost to NTSC IX		0	0.0
lost to additional IX by ATV		11022	1063.7
lost to ATV IX only		11022	1063.7
lost to all IX		11022	1063.7

Potential Interfering Stations Included in above Scenario 2

10A MN APPLETON	BDTV	0816	LIC
11A IA DES MOINES	BDTV	0471	LIC
11A MN MINNEAPOLIS	BDTV	0833	LIC
11A NE GRAND ISLAND	BDTV	1021	LIC
12A SD HURON	USERRECORD03		APP

After Analysis

Results for: 11A SD SIOUX FALLS BDTV 1437 LIC
 HAAT 589.0 m, ATV ERP 24.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	593172	43651.8
not affected by terrain losses	541132	42100.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	11549	1379.6
lost to ATV IX only	11549	1379.6
lost to all IX	11549	1379.6

Potential Interfering Stations Included in above Scenario 2

10A MN APPLETON	BDTV	0816	LIC
11A IA DES MOINES	BDTV	0471	LIC
11A MN MINNEAPOLIS	BDTV	0833	LIC
11A NE GRAND ISLAND	BDTV	1021	LIC
12A SD HURON	USERRECORD03		APP
11A SD LOWRY	USERRECORD01		APP
*Percent Service lost without proposal:	0.0	to BDTV	1437
*Percent Service lost with proposal:	0.1	to BDTV	1437

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
12	KXMB-TV	BISMARCK ND	BDTV	-0991

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
12	KNRR	PEMBINA ND	368.8	LIC	BDTV	-1014
12	KTTM	HURON SD	329.4	LIC	BDTV	-1422
13	KXMC-TV	MINOT ND	167.5	LIC	BDTV	-1010
13	KPSD-TV	EAGLE BUTTE SD	204.2	LIC	BDTV	-1420
11	KQSD-D.C	LOWRY SD	158.9	APP	USERRECORD-01	

12 KTTM-D.C HURON SD 329.4 APP USERRECORD-03

Total scenarios = 2

Result key: 4
Scenario 1 Affected station 3
Before Analysis

Results for: 12A ND BISMARCK BDTV 0991 LIC
HAAT 466.0 m, ATV ERP 19.1 kW
POPULATION AREA (sq km)
within Noise Limited Contour 131598 37192.1
not affected by terrain losses 128320 35763.5
lost to NTSC IX 0 0.0
lost to additional IX by ATV 430 136.1
lost to ATV IX only 430 136.1
lost to all IX 430 136.1

Potential Interfering Stations Included in above Scenario 1

12A ND PEMBINA BDTV 1014 LIC
12A SD HURON BDTV 1422 LIC
13A ND MINOT BDTV 1010 LIC

After Analysis

Results for: 12A ND BISMARCK BDTV 0991 LIC
HAAT 466.0 m, ATV ERP 19.1 kW
POPULATION AREA (sq km)
within Noise Limited Contour 131598 37192.1
not affected by terrain losses 128320 35763.5
lost to NTSC IX 0 0.0
lost to additional IX by ATV 443 172.1
lost to ATV IX only 443 172.1
lost to all IX 443 172.1

Potential Interfering Stations Included in above Scenario 1

12A ND PEMBINA BDTV 1014 LIC
12A SD HURON BDTV 1422 LIC
13A ND MINOT BDTV 1010 LIC
11A SD LOWRY USERRECORD01 APP
*Percent Service lost without proposal: 0.0 to BDTV 0991
*Percent Service lost with proposal: 0.0 to BDTV 0991

Result key: 5
Scenario 2 Affected station 3
Before Analysis

Results for: 12A ND BISMARCK BDTV 0991 LIC
HAAT 466.0 m, ATV ERP 19.1 kW
POPULATION AREA (sq km)
within Noise Limited Contour 131598 37192.1
not affected by terrain losses 128320 35763.5
lost to NTSC IX 0 0.0
lost to additional IX by ATV 430 136.1
lost to ATV IX only 430 136.1
lost to all IX 430 136.1

Potential Interfering Stations Included in above Scenario 2

12A ND PEMBINA	BDTV	1014	LIC
12A SD HURON	USERRECORD03		APP
13A ND MINOT	BDTV	1010	LIC

After Analysis

Results for: 12A ND BISMARCK BDTV 0991 LIC

HAAT 466.0 m, ATV ERP 19.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	131598	37192.1
not affected by terrain losses	128320	35763.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	443	172.1
lost to ATV IX only	443	172.1
lost to all IX	443	172.1

Potential Interfering Stations Included in above Scenario 2

12A ND PEMBINA	BDTV	1014	LIC
12A SD HURON	USERRECORD03		APP
13A ND MINOT	BDTV	1010	LIC
11A SD LOWRY	USERRECORD01		APP
*Percent Service lost without proposal:	0.0	to BDTV	0991
*Percent Service lost with proposal:	0.0	to BDTV	0991

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
12	KTTM	HURON SD	BDTV -1422

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
11	KELO-TV	SIOUX FALLS SD	161.4	LIC	BDTV -1437
12	KEYC-TV	MANKATO MN	313.3	LIC	BDTV -0831
12	KCCW-TV	WALKER MN	427.7	LIC	BDTV -0846
12	KXMB-TV	BISMARCK ND	329.4	LIC	BDTV -0991
12	KUON-TV	LINCOLN NE	372.2	LIC	BDTV -1030
12	KRNE-TV	MERRIMAN NE	321.5	LIC	BDTV -1033
13	KPLO-TV	RELIANCE SD	105.7	LIC	BDTV -1435
13	KSFY-TV	SIOUX FALLS SD	161.4	LIC	BDTV -1438
11	KQSD-D.C	LOWRY SD	178.4	APP	USERRECORD-01
12	KXMB-D.C	BISMARCK ND	329.5	APP	USERRECORD-04
11	KELO-D.C	SIOUX FALLS SD	161.4	APP	USERRECORD-05

Proposal causes no interference

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
10	KTSD-D.C	PIERRE SD	USERRECORD-02

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
09	KABY-TV	ABERDEEN SD	185.1	LIC	BDTV -1417
10	KWCM-TV	APPLETON MN	314.2	LIC	BDTV -0816
10	KOLN	LINCOLN NE	403.8	LIC	BDTV -1029
10	KHSD-TV	LEAD SD	340.6	LIC	BDTV -1424
11	KQSD-D.C	LOWRY SD	148.8	APP	USERRECORD-01

Total scenarios = 1

Result key: 6
 Scenario 1 Affected station 5
 Before Analysis

Results for: 10A SD PIERRE USERRECORD02 APP

HAAT 487.0 m, ATV ERP 21.4 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	64375	39871.1
not affected by terrain losses	63728	38679.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	427	553.8
lost to ATV IX only	427	553.8
lost to all IX	427	553.8

Potential Interfering Stations Included in above Scenario 1

9A SD ABERDEEN	BDTV	1417	LIC
10A MN APPLETON	BDTV	0816	LIC
10A NE LINCOLN	BDTV	1029	LIC
10A SD LEAD	BDTV	1424	LIC

After Analysis

Results for: 10A SD PIERRE USERRECORD02 APP

HAAT 487.0 m, ATV ERP 21.4 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	64375	39871.1
not affected by terrain losses	63728	38679.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	453	614.0
lost to ATV IX only	453	614.0
lost to all IX	453	614.0

Potential Interfering Stations Included in above Scenario 1

9A SD ABERDEEN	BDTV	1417	LIC
10A MN APPLETON	BDTV	0816	LIC
10A NE LINCOLN	BDTV	1029	LIC
10A SD LEAD	BDTV	1424	LIC
11A SD LOWRY	USERRECORD01		APP
*Percent Service lost without proposal:		0.0	to USERRECORD02

*Percent Service lost with proposal: 0.0 to USERRECORD02

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application Ref. No.
12	KTTM-D.C	HURON SD	USERRECORD-03

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
11	KELO-TV	SIOUX FALLS SD	161.4	LIC	BDTV -1437
12	KEYC-TV	MANKATO MN	313.3	LIC	BDTV -0831
12	KCCW-TV	WALKER MN	427.7	LIC	BDTV -0846
12	KXMB-TV	BISMARCK ND	329.4	LIC	BDTV -0991
12	KUON-TV	LINCOLN NE	372.2	LIC	BDTV -1030
12	KRNE-TV	MERRIMAN NE	321.5	LIC	BDTV -1033
13	KPLO-TV	RELIANCE SD	105.7	LIC	BDTV -1435
13	KSFY-TV	SIOUX FALLS SD	161.4	LIC	BDTV -1438
11	KQSD-D.C	LOWRY SD	178.4	APP	USERRECORD-01
12	KXMB-D.C	BISMARCK ND	329.5	APP	USERRECORD-04
11	KELO-D.C	SIOUX FALLS SD	161.4	APP	USERRECORD-05

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.
12	KXMB-D.C	BISMARCK ND	USERRECORD-04

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
12	KNRR	PEMBINA ND	368.5	LIC	BDTV -1014
12	KTTM	HURON SD	329.5	LIC	BDTV -1422
13	KXMC-TV	MINOT ND	167.3	LIC	BDTV -1010
13	KPSD-TV	EAGLE BUTTE SD	204.4	LIC	BDTV -1420
11	KQSD-D.C	LOWRY SD	159.0	APP	USERRECORD-01
12	KTTM-D.C	HURON SD	329.5	APP	USERRECORD-03

Total scenarios = 2

Result key: 7

Scenario 1 Affected station 7
Before Analysis

Results for: 12A ND BISMARCK USERRECORD04 APP
HAAT 447.0 m, ATV ERP 19.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	131520	37171.8
not affected by terrain losses	128417	35695.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	314	120.1
lost to ATV IX only	314	120.1
lost to all IX	314	120.1

Potential Interfering Stations Included in above Scenario 1

12A ND PEMBINA	BDTV	1014	LIC
12A SD HURON	BDTV	1422	LIC
13A ND MINOT	BDTV	1010	LIC

After Analysis

Results for: 12A ND BISMARCK USERRECORD04 APP
 HAAT 447.0 m, ATV ERP 19.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	131520	37171.8
not affected by terrain losses	128417	35695.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	321	148.1
lost to ATV IX only	321	148.1
lost to all IX	321	148.1

Potential Interfering Stations Included in above Scenario 1

12A ND PEMBINA	BDTV	1014	LIC
12A SD HURON	BDTV	1422	LIC
13A ND MINOT	BDTV	1010	LIC
11A SD LOWRY	USERRECORD01		APP
*Percent Service lost without proposal:	0.0	to USERRECORD04	
*Percent Service lost with proposal:	0.0	to USERRECORD04	

Result key: 8
 Scenario 2 Affected station 7
 Before Analysis

Results for: 12A ND BISMARCK USERRECORD04 APP
 HAAT 447.0 m, ATV ERP 19.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	131520	37171.8
not affected by terrain losses	128417	35695.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	314	120.1
lost to ATV IX only	314	120.1
lost to all IX	314	120.1

Potential Interfering Stations Included in above Scenario 2

12A ND PEMBINA	BDTV	1014	LIC
12A SD HURON	USERRECORD03		APP
13A ND MINOT	BDTV	1010	LIC

After Analysis

Results for: 12A ND BISMARCK USERRECORD04 APP
 HAAT 447.0 m, ATV ERP 19.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	131520	37171.8
not affected by terrain losses	128417	35695.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	321	148.1
lost to ATV IX only	321	148.1
lost to all IX	321	148.1

Potential Interfering Stations Included in above Scenario 2

12A ND PEMBINA	BDTV	1014	LIC
12A SD HURON	USERRECORD03		APP
13A ND MINOT	BDTV	1010	LIC
11A SD LOWRY	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 8

Analysis of current record

Channel	Call	City/State	Application Ref. No.
11	KELO-D.C	SIOUX FALLS SD	USERRECORD-05

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
10	KWCM-TV	APPLETON MN	188.1	LIC	BDTV -0816
11	KDIN-TV	DES MOINES IA	305.0	LIC	BDTV -0471
11	KARE	MINNEAPOLIS MN	320.0	LIC	BDTV -0833
11	KGIN	GRAND ISLAND NE	375.6	LIC	BDTV -1021
12	KEYC-TV	MANKATO MN	176.8	LIC	BDTV -0831
12	KTTM	HURON SD	161.4	LIC	BDTV -1422
11	KQSD-D.C	LOWRY SD	336.6	APP	USERRECORD-01
12	KTTM-D.C	HURON SD	161.4	APP	USERRECORD-03

Total scenarios = 2

Result key: 9

Scenario 1 Affected station 8

Before Analysis

Results for: 11A SD SIOUX FALLS USERRECORD05 APP

HAAT 610.0 m, ATV ERP 22.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	620582	45506.4
not affected by terrain losses	575423	43810.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	28123	1295.7
lost to ATV IX only	28123	1295.7
lost to all IX	28123	1295.7

Potential Interfering Stations Included in above Scenario 1

10A MN APPLETON	BDTV	0816	LIC
11A IA DES MOINES	BDTV	0471	LIC
11A MN MINNEAPOLIS	BDTV	0833	LIC
11A NE GRAND ISLAND	BDTV	1021	LIC
12A MN MANKATO	BDTV	0831	LIC
12A SD HURON	BDTV	1422	LIC

After Analysis

Results for: 11A SD SIOUX FALLS USERRECORD05 APP
 HAAT 610.0 m, ATV ERP 22.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	620582	45506.4
not affected by terrain losses	575423	43810.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	28380	1503.7
lost to ATV IX only	28380	1503.7
lost to all IX	28380	1503.7

Potential Interfering Stations Included in above Scenario 1

10A MN APPLETON	BDTV	0816	LIC
11A IA DES MOINES	BDTV	0471	LIC
11A MN MINNEAPOLIS	BDTV	0833	LIC
11A NE GRAND ISLAND	BDTV	1021	LIC
12A MN MANKATO	BDTV	0831	LIC
12A SD HURON	BDTV	1422	LIC
11A SD LOWRY	USERRECORD01		APP
*Percent Service lost without proposal:	0.0	to USERRECORD05	
*Percent Service lost with proposal:	0.0	to USERRECORD05	

Result key: 10
 Scenario 2 Affected station 8
 Before Analysis

Results for: 11A SD SIOUX FALLS USERRECORD05 APP
 HAAT 610.0 m, ATV ERP 22.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	620582	45506.4
not affected by terrain losses	575423	43810.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	28123	1279.7
lost to ATV IX only	28123	1279.7
lost to all IX	28123	1279.7

Potential Interfering Stations Included in above Scenario 2

10A MN APPLETON	BDTV	0816	LIC
11A IA DES MOINES	BDTV	0471	LIC
11A MN MINNEAPOLIS	BDTV	0833	LIC
11A NE GRAND ISLAND	BDTV	1021	LIC
12A MN MANKATO	BDTV	0831	LIC
12A SD HURON	USERRECORD03		APP

After Analysis

Results for: 11A SD SIOUX FALLS USERRECORD05 APP
 HAAT 610.0 m, ATV ERP 22.7 kW

	POPULATION	AREA (sq km)
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within Noise Limited Contour	620582	45506.4
not affected by terrain losses	575423	43810.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	28380	1503.7
lost to ATV IX only	28380	1503.7
lost to all IX	28380	1503.7

Potential Interfering Stations Included in above Scenario 2

10A MN APPLETON	BDTV	0816	LIC
11A IA DES MOINES	BDTV	0471	LIC
11A MN MINNEAPOLIS	BDTV	0833	LIC
11A NE GRAND ISLAND	BDTV	1021	LIC
12A MN MANKATO	BDTV	0831	LIC
12A SD HURON	USERRECORD03		APP
11A SD LOWRY	USERRECORD01		APP
*Percent Service lost without proposal:	0.0	to USERRECORD05	
*Percent Service lost with proposal:	0.0	to USERRECORD05	

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application Ref. No.
11	KQSD-D.C	LOWRY SD	USERRECORD-01

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
10	KTSD-TV	PIERRE SD	149.0	LIC	BDTV -1428
11	KELO-TV	SIOUX FALLS SD	336.6	LIC	BDTV -1437
12	KXMB-TV	BISMARCK ND	158.9	LIC	BDTV -0991
12	KTTM	HURON SD	178.4	LIC	BDTV -1422
10	KTSD-D.C	PIERRE SD	148.8	APP	USERRECORD-02
12	KTTM-D.C	HURON SD	178.4	APP	USERRECORD-03
12	KXMB-D.C	BISMARCK ND	159.0	APP	USERRECORD-04
11	KELO-D.C	SIOUX FALLS SD	336.6	APP	USERRECORD-05

Total scenarios = 8

Result key: 11
 Scenario 1 Affected station 9
 Before Analysis

Results for: 11A SD LOWRY	USERRECORD01	APP
HAAT 298.0 m, ATV ERP 40.0 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	37475	33568.0
not affected by terrain losses	36614	32910.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	70	244.7
lost to ATV IX only	70	244.7
lost to all IX	70	244.7

Potential Interfering Stations Included in above Scenario 1

10A SD PIERRE	BDTV	1428	LIC
11A SD SIOUX FALLS	BDTV	1437	LIC
12A ND BISMARCK	BDTV	0991	LIC

Result key: 12
Scenario 2 Affected station 9
Before Analysis

Results for: 11A SD LOWRY USERRECORD01 APP
HAAT 298.0 m, ATV ERP 40.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	37475	33568.0
not affected by terrain losses	36614	32910.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	72	240.7
lost to ATV IX only	72	240.7
lost to all IX	72	240.7

Potential Interfering Stations Included in above Scenario 2

10A SD PIERRE	BDTV	1428	LIC
11A SD SIOUX FALLS	BDTV	1437	LIC
12A ND BISMARCK	USERRECORD04		APP

Result key: 13
Scenario 3 Affected station 9
Before Analysis

Results for: 11A SD LOWRY USERRECORD01 APP
HAAT 298.0 m, ATV ERP 40.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	37475	33568.0
not affected by terrain losses	36614	32910.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	81	260.7
lost to ATV IX only	81	260.7
lost to all IX	81	260.7

Potential Interfering Stations Included in above Scenario 3

10A SD PIERRE	BDTV	1428	LIC
11A SD SIOUX FALLS	USERRECORD05		APP
12A ND BISMARCK	BDTV	0991	LIC

Result key: 14
Scenario 4 Affected station 9
Before Analysis

Results for: 11A SD LOWRY USERRECORD01 APP
HAAT 298.0 m, ATV ERP 40.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	37475	33568.0
not affected by terrain losses	36614	32910.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	83	256.7
lost to ATV IX only	83	256.7
lost to all IX	83	256.7

Potential Interfering Stations Included in above Scenario 4

10A SD PIERRE	BDTV	1428	LIC
11A SD SIOUX FALLS	USERRECORD05		APP
12A ND BISMARCK	USERRECORD04		APP

Result key: 15
 Scenario 5 Affected station 9
 Before Analysis

Results for: 11A SD LOWRY USERRECORD01 APP
 HAAT 298.0 m, ATV ERP 40.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	37475	33568.0
not affected by terrain losses	36614	32910.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	65	248.7
lost to ATV IX only	65	248.7
lost to all IX	65	248.7

Potential Interfering Stations Included in above Scenario 5

10A SD PIERRE	USERRECORD02	APP
11A SD SIOUX FALLS	BDTV	1437
12A ND BISMARCK	BDTV	0991

Result key: 16
 Scenario 6 Affected station 9
 Before Analysis

Results for: 11A SD LOWRY USERRECORD01 APP
 HAAT 298.0 m, ATV ERP 40.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	37475	33568.0
not affected by terrain losses	36614	32910.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	67	244.7
lost to ATV IX only	67	244.7
lost to all IX	67	244.7

Potential Interfering Stations Included in above Scenario 6

10A SD PIERRE	USERRECORD02	APP
11A SD SIOUX FALLS	BDTV	1437
12A ND BISMARCK	USERRECORD04	APP

Result key: 17
 Scenario 7 Affected station 9
 Before Analysis

Results for: 11A SD LOWRY USERRECORD01 APP
 HAAT 298.0 m, ATV ERP 40.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	37475	33568.0
not affected by terrain losses	36614	32910.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	76	264.8
lost to ATV IX only	76	264.8
lost to all IX	76	264.8

Potential Interfering Stations Included in above Scenario 7

10A SD PIERRE	USERRECORD02	APP
11A SD SIOUX FALLS	USERRECORD05	APP
12A ND BISMARCK	BDTV 0991	LIC

Result key: 18
Scenario 8 Affected station 9
Before Analysis

Results for: 11A SD LOWRY USERRECORD01 APP
HAAT 298.0 m, ATV ERP 40.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	37475	33568.0
not affected by terrain losses	36614	32910.1
lost to NTSC IX	0	0.0
lost to additional IX by ATV	78	260.7
lost to ATV IX only	78	260.7
lost to all IX	78	260.7

Potential Interfering Stations Included in above Scenario 8

10A SD PIERRE	USERRECORD02	APP
11A SD SIOUX FALLS	USERRECORD05	APP
12A ND BISMARCK	USERRECORD04	APP

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