

Date: 06-12-2008 Time: 17:40:56

Record Selected for Analysis

KPSD-D.C USERRECORD-01 EAGLE BUTTE_2 SD US
 Channel 13 ERP 27. kW HAAT 516. m RCAMSL 01296 m
 Latitude 045-03-14 Longitude 0102-15-47
 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	27.000	560.7	119.0
45.0	27.000	523.3	116.7
90.0	27.000	526.5	116.9
135.0	27.000	513.9	116.2
180.0	27.000	503.1	115.7
225.0	27.000	474.5	114.1
270.0	27.000	486.6	114.8
315.0	27.000	538.6	117.6

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

KPSD-D.C 13 EAGLE BUTTE_2 SD USERRECORD01

and station

SHORT TO: KPSD-TV 13 EAGLE BUTTE SD BDTV 1420
 45 -03-20 102 -15-40
 Req. separation 273.6 Actual separation 0.2 Short 273.4 km

SHORT TO: KPLO-TV 13 RELIANCE SD BDTV 1435
 43 -57-57 099 -36-11
 Req. separation 273.6 Actual separation 243.6 Short 30.0 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
13	KPSD-D.C	EAGLE BUTTE_2 SD	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	KXMB-TV	BISMARCK ND	204.4	LIC	BDTV -0991
13	KXMC-TV	MINOT ND	340.4	LIC	BDTV -1010
13	KTNE-TV	ALLIANCE NE	362.9	LIC	BDTV -1019
13	KPSD-TV	EAGLE BUTTE SD	0.2	LIC	BDTV -1420
13	KPLO-TV	RELIANCE SD	243.0	LIC	BDTV -1435
13	KSGW-TV	SHERIDAN WY	385.4	LIC	BDTV -1811
13	KTNE-D.C	ALLIANCE NE	362.8	APP	USERRECORD-02
12	KXMB-D.C	BISMARCK ND	204.7	APP	USERRECORD-03
13	KXMC-D.C	MINOT ND	340.4	APP	USERRECORD-04

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Analysis of Interference to Affected Station 1

Analysis of current record

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

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
11	KQSD-TV	LOWRY SD	159.1	LIC	BDTV -1425
12	KNRR	PEMBINA ND	368.8	LIC	BDTV -1014
12	KTMM	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
13	KPSD-D.C	EAGLE BUTTE_2 SD	204.4	APP	USERRECORD-01
13	KXMC-D.C	MINOT ND	167.4	APP	USERRECORD-04

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.
13	KXMC-TV	MINOT ND	BDTV -1010

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	KXMB-TV	BISMARCK ND	167.5	LIC	BDTV -0991
13	KFME	FARGO ND	331.9	LIC	BDTV -1002
13	KPSD-TV	EAGLE BUTTE SD	340.2	LIC	BDTV -1420
13	KPSD-D.C	EAGLE BUTTE_2 SD	340.4	APP	USERRECORD-01
12	KXMB-D.C	BISMARCK ND	167.3	APP	USERRECORD-03

Total scenarios = 2

Result key: 1

Scenario 1 Affected station 2
Before Analysis

Results for: 13A ND MINOT BDTV 1010 LIC
HAAT 344.0 m, ATV ERP 16.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	95192	30343.5
not affected by terrain losses	89322	29761.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	13	36.1
lost to ATV IX only	13	36.1
lost to all IX	13	36.1

Potential Interfering Stations Included in above Scenario 1

13A SD EAGLE BUTTE BDTV 1420 LIC

After Analysis

Results for: 13A ND MINOT BDTV 1010 LIC
HAAT 344.0 m, ATV ERP 16.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	95192	30343.5
not affected by terrain losses	89322	29761.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	69	52.2
lost to ATV IX only	69	52.2
lost to all IX	69	52.2

Potential Interfering Stations Included in above Scenario 1

13A SD EAGLE BUTTE BDTV 1420 LIC
13A SD EAGLE BUTTE_2 USERRECORD01 APP
*Percent Service lost without proposal: 0.0 to BDTV 1010
*Percent Service lost with proposal: 0.1 to BDTV 1010

Result key: 2
Scenario 2 Affected station 2
Before Analysis

Results for: 13A ND MINOT BDTV 1010 LIC
HAAT 344.0 m, ATV ERP 16.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	95192	30343.5
not affected by terrain losses	89322	29761.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	13	36.1
lost to ATV IX only	13	36.1
lost to all IX	13	36.1

Potential Interfering Stations Included in above Scenario 2

13A SD EAGLE BUTTE BDTV 1420 LIC

After Analysis

Results for: 13A ND MINOT BDTV 1010 LIC
HAAT 344.0 m, ATV ERP 16.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	95192	30343.5
not affected by terrain losses	89322	29761.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	69	52.2
lost to ATV IX only	69	52.2
lost to all IX	69	52.2

Potential Interfering Stations Included in above Scenario 2

13A SD EAGLE BUTTE BDTV 1420 LIC
13A SD EAGLE BUTTE_2 USERRECORD01 APP
*Percent Servicelost without proposal: 0.0 to BDTV 1010
*Percent Servicelost with proposal: 0.1 to BDTV 1010

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
13	KTNE-TV	ALLIANCE NE	BDTV	-1019

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KRNE-TV	MERRIMAN NE	144.6	LIC	BDTV	-1033
13	KBDI-TV	BROOMFIELD CO	315.9	LIC	BDTV	-0232
13	KPSD-TV	EAGLE BUTTE SD	363.1	LIC	BDTV	-1420
13	KPLO-TV	RELIANCE SD	367.1	LIC	BDTV	-1435
13	KPSD-D.C	EAGLE BUTTE_2 SD	362.9	APP	USERRECORD-01	

Total scenarios = 2

Result key:

3

Scenario 1 Affected station 3
Before Analysis

Results for: 13A NE ALLIANCE BDTV 1019 LIC

HAAT 469.0 m, ATV ERP 20.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	93412	37901.8
not affected by terrain losses	90447	35362.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1319	2226.0
lost to ATV IX only	1319	2226.0
lost to all IX	1319	2226.0

Potential Interfering Stations Included in above Scenario 1

12A NE MERRIMAN	BDTV	1033	LIC
13A CO BROOMFIELD	BDTV	0232	LIC
13A SD EAGLE BUTTE	BDTV	1420	LIC
13A SD RELIANCE	BDTV	1435	LIC

After Analysis

Results for: 13A NE ALLIANCE BDTV 1019 LIC

HAAT 469.0 m, ATV ERP 20.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	93412	37901.8
not affected by terrain losses	90447	35362.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1326	2250.1
lost to ATV IX only	1326	2250.1
lost to all IX	1326	2250.1

Potential Interfering Stations Included in above Scenario 1

12A NE MERRIMAN	BDTV	1033	LIC
13A CO BROOMFIELD	BDTV	0232	LIC
13A SD EAGLE BUTTE	BDTV	1420	LIC
13A SD RELIANCE	BDTV	1435	LIC
13A SD EAGLE BUTTE_2	USERRECORD01		APP

*Percent Service lost without proposal:	0.0	to BDTV	1019
*Percent Service lost with proposal:	0.0	to BDTV	1019

Result key:

4

Scenario 2 Affected station 3
Before Analysis

Results for: 13A NE ALLIANCE BDTV 1019 LIC

HAAT	469.0 m, ATV ERP	20.9 kW	POPULATION	AREA (sq km)
within Noise Limited Contour			93412	37901.8
not affected by terrain losses			90447	35362.4
lost to NTSC IX			0	0.0
lost to additional IX by ATV			1319	2226.0
lost to ATV IX only			1319	2226.0
lost to all IX			1319	2226.0

Potential Interfering Stations Included in above Scenario 2

12A NE MERRIMAN	BDTV	1033	LIC
13A CO BROOMFIELD	BDTV	0232	LIC
13A SD EAGLE BUTTE	BDTV	1420	LIC
13A SD RELIANCE	BDTV	1435	LIC

After Analysis

Results for: 13A NE ALLIANCE BDTV 1019 LIC

HAAT	469.0 m, ATV ERP	20.9 kW	POPULATION	AREA (sq km)
within Noise Limited Contour			93412	37901.8
not affected by terrain losses			90447	35362.4
lost to NTSC IX			0	0.0
lost to additional IX by ATV			1326	2250.1
lost to ATV IX only			1326	2250.1
lost to all IX			1326	2250.1

Potential Interfering Stations Included in above Scenario 2

12A NE MERRIMAN	BDTV	1033	LIC
13A CO BROOMFIELD	BDTV	0232	LIC
13A SD EAGLE BUTTE	BDTV	1420	LIC
13A SD RELIANCE	BDTV	1435	LIC
13A SD EAGLE BUTTE_2	USERRECORD01		APP

*Percent Service lost without proposal:	0.0	to BDTV	1019
*Percent Service lost with proposal:	0.0	to BDTV	1019

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
13	KPSD-TV	EAGLE BUTTE SD	BDTV -1420

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	KXMB-TV	BISMARCK ND	204.2	LIC	BDTV -0991
13	KXMC-TV	MINOT ND	340.2	LIC	BDTV -1010
13	KTNE-TV	ALLIANCE NE	363.1	LIC	BDTV -1019
13	KPLO-TV	RELIANCE SD	243.0	LIC	BDTV -1435
13	KSGW-TV	SHERIDAN WY	385.6	LIC	BDTV -1811
13	KPSD-D.C	EAGLE BUTTE_2 SD	0.2	APP	USERRECORD-01
13	KTNE-D.C	ALLIANCE NE	363.0	APP	USERRECORD-02
12	KXMB-D.C	BISMARCK ND	204.4	APP	USERRECORD-03
13	KXMC-D.C	MINOT ND	340.2	APP	USERRECORD-04

Total scenarios = 5

Result key: 5
Scenario 1 Affected station 4
Before Analysis

Results for: 13A SD EAGLE BUTTE BDTV 1420 LIC

HAAT	518.0 m, ATV ERP	21.9 kW	POPULATION	AREA (sq km)
within Noise Limited Contour			19819	40824.2

not affected by terrain losses	19079	38441.0	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	569	1280.2	
lost to ATV IX only	569	1280.2	
lost to all IX	569	1280.2	

Potential Interfering Stations Included in above Scenario 1

13A ND MINOT	BDTV	1010	LIC
13A NE ALLIANCE	BDTV	1019	LIC
13A SD RELIANCE	BDTV	1435	LIC
13A WY SHERIDAN	BDTV	1811	LIC

After Analysis

Results for: 13A SD EAGLE BUTTE BDTV 1420 LIC

HAAT 518.0 m, ATV ERP 21.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19819	40824.2
not affected by terrain losses	19079	38441.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	17660	33795.4
lost to ATV IX only	17660	33795.4
lost to all IX	17660	33795.4

Potential Interfering Stations Included in above Scenario 1

13A ND MINOT	BDTV	1010	LIC
13A NE ALLIANCE	BDTV	1019	LIC
13A SD RELIANCE	BDTV	1435	LIC
13A WY SHERIDAN	BDTV	1811	LIC
13A SD EAGLE BUTTE_2	USERRECORD01		APP

The following station failed the de minimis interference criteria.

13D SD EAGLE BUTTE_2 USERRECORD01

ERP 27.00 kW HAAT 516.0 m RCAMSL 1296.0 m

Antenna usr USRPAT01

Due to interference to the following station and scenario: 1

13D SD EAGLE BUTTE BDTV 1420

ERP 21.89 kW HAAT 518.0 m RCAMSL 1298.0 m

Antenna CDB 00000000074989

Percent Service lost without proposal: 0.0 to BDTV 1420

Percent Service lost with proposal: 92.3 to BDTV 1420

Result key: 6

Scenario 2 Affected station 4

Before Analysis

Results for: 13A SD EAGLE BUTTE BDTV 1420 LIC

HAAT 518.0 m, ATV ERP 21.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19819	40824.2
not affected by terrain losses	19079	38441.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	569	1280.2
lost to ATV IX only	569	1280.2
lost to all IX	569	1280.2

Potential Interfering Stations Included in above Scenario 2

13A ND MINOT	BDTV	1010	LIC
13A NE ALLIANCE	BDTV	1019	LIC
13A SD RELIANCE	BDTV	1435	LIC
13A WY SHERIDAN	BDTV	1811	LIC

After Analysis

Results for: 13A SD EAGLE BUTTE BDTV 1420 LIC

HAAT 518.0 m, ATV ERP 21.9 kW

	POPULATION	AREA (sq km)
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within Noise Limited Contour	19819	40824.2
not affected by terrain losses	19079	38441.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	17660	33795.4
lost to ATV IX only	17660	33795.4
lost to all IX	17660	33795.4

Potential Interfering Stations Included in above Scenario 2

13A ND MINOT	BDTV	1010	LIC
13A NE ALLIANCE	BDTV	1019	LIC
13A SD RELIANCE	BDTV	1435	LIC
13A WY SHERIDAN	BDTV	1811	LIC
13A SD EAGLE BUTTE_2	USERRECORD01		APP

The following station failed the de minimis interference criteria.

13D SD EAGLE BUTTE_2	USERRECORD01
ERP 27.00 kW HAAT 516.0 m RCAMSL 1296.0 m	
Antenna usr USRPAT01	

Due to interference to the following station and scenario: 2

13D SD EAGLE BUTTE	BDTV	1420
ERP 21.89 kW HAAT 518.0 m RCAMSL 1298.0 m		
Antenna CDB 00000000074989		

Percent Service lost without proposal:	0.0	to BDTV	1420
Percent Service lost with proposal:	92.3	to BDTV	1420

Result key: 7
Scenario 3 Affected station 4
Before Analysis

Results for: 13A SD EAGLE BUTTE BDTV 1420 LIC

HAAT 518.0 m, ATV ERP 21.9 kW	
POPULATION	AREA (sq km)
within Noise Limited Contour	19819 40824.2
not affected by terrain losses	19079 38441.0
lost to NTSC IX	0 0.0
lost to additional IX by ATV	578 1288.2
lost to ATV IX only	578 1288.2
lost to all IX	578 1288.2

Potential Interfering Stations Included in above Scenario 3

13A ND MINOT	BDTV	1010	LIC
13A NE ALLIANCE	USERRECORD02		APP
13A SD RELIANCE	BDTV	1435	LIC
13A WY SHERIDAN	BDTV	1811	LIC

After Analysis

Results for: 13A SD EAGLE BUTTE BDTV 1420 LIC

HAAT 518.0 m, ATV ERP 21.9 kW	
POPULATION	AREA (sq km)
within Noise Limited Contour	19819 40824.2
not affected by terrain losses	19079 38441.0
lost to NTSC IX	0 0.0
lost to additional IX by ATV	17660 33795.4
lost to ATV IX only	17660 33795.4
lost to all IX	17660 33795.4

Potential Interfering Stations Included in above Scenario 3

13A ND MINOT	BDTV	1010	LIC
13A NE ALLIANCE	USERRECORD02		APP
13A SD RELIANCE	BDTV	1435	LIC
13A WY SHERIDAN	BDTV	1811	LIC
13A SD EAGLE BUTTE_2	USERRECORD01		APP

The following station failed the de minimis interference criteria.

13D SD EAGLE BUTTE_2	USERRECORD01
ERP 27.00 kW HAAT 516.0 m RCAMSL 1296.0 m	

Antenna usr USRPAT01

Due to interference to the following station and scenario: 3

13D SD EAGLE BUTTE BDTV 1420
ERP 21.89 kW HAAT 518.0 m RCAMSL 1298.0 m
Antenna CDB 00000000074989

Percent Service lost without proposal: 0.0 to BDTV 1420
Percent Service lost with proposal: 92.3 to BDTV 1420

Result key: 8
Scenario 4 Affected station 4
Before Analysis

Results for: 13A SD EAGLE BUTTE BDTV 1420 LIC
HAAT 518.0 m, ATV ERP 21.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19819	40824.2
not affected by terrain losses	19079	38441.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	569	1304.3
lost to ATV IX only	569	1304.3
lost to all IX	569	1304.3

Potential Interfering Stations Included in above Scenario 4

13A ND MINOT	USERRECORD04	APP
13A NE ALLIANCE	BDTV 1019	LIC
13A SD RELIANCE	BDTV 1435	LIC
13A WY SHERIDAN	BDTV 1811	LIC

After Analysis

Results for: 13A SD EAGLE BUTTE BDTV 1420 LIC
HAAT 518.0 m, ATV ERP 21.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19819	40824.2
not affected by terrain losses	19079	38441.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	17660	33795.4
lost to ATV IX only	17660	33795.4
lost to all IX	17660	33795.4

Potential Interfering Stations Included in above Scenario 4

13A ND MINOT	USERRECORD04	APP
13A NE ALLIANCE	BDTV 1019	LIC
13A SD RELIANCE	BDTV 1435	LIC
13A WY SHERIDAN	BDTV 1811	LIC
13A SD EAGLE BUTTE_2	USERRECORD01	APP

The following station failed the de minimis interference criteria.

13D SD EAGLE BUTTE_2 USERRECORD01
ERP 27.00 kW HAAT 516.0 m RCAMSL 1296.0 m
Antenna usr USRPAT01

Due to interference to the following station and scenario: 4

13D SD EAGLE BUTTE BDTV 1420
ERP 21.89 kW HAAT 518.0 m RCAMSL 1298.0 m
Antenna CDB 00000000074989

Percent Service lost without proposal: 0.0 to BDTV 1420
Percent Service lost with proposal: 92.3 to BDTV 1420

Result key: 9
Scenario 5 Affected station 4
Before Analysis

Results for: 13A SD EAGLE BUTTE BDTV 1420 LIC
HAAT 518.0 m, ATV ERP 21.9 kW

	POPULATION	AREA (sq km)
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within Noise Limited Contour	19819	40824.2
not affected by terrain losses	19079	38441.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	578	1312.4
lost to ATV IX only	578	1312.4
lost to all IX	578	1312.4

Potential Interfering Stations Included in above Scenario 5

13A ND MINOT	USERRECORD04	APP
13A NE ALLIANCE	USERRECORD02	APP
13A SD RELIANCE	BDTV 1435	LIC
13A WY SHERIDAN	BDTV 1811	LIC

After Analysis

Results for: 13A SD EAGLE BUTTE BDTV 1420 LIC

HAAT 518.0 m, ATV ERP 21.9 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	19819	40824.2
not affected by terrain losses	19079	38441.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	17660	33795.4
lost to ATV IX only	17660	33795.4
lost to all IX	17660	33795.4

Potential Interfering Stations Included in above Scenario 5

13A ND MINOT	USERRECORD04	APP
13A NE ALLIANCE	USERRECORD02	APP
13A SD RELIANCE	BDTV 1435	LIC
13A WY SHERIDAN	BDTV 1811	LIC
13A SD EAGLE BUTTE_2	USERRECORD01	APP

The following station failed the de minimis interference criteria.

13D SD EAGLE BUTTE_2 USERRECORD01

ERP 27.00 kW HAAT 516.0 m RCAMSL 1296.0 m

Antenna usr USRPAT01

Due to interference to the following station and scenario: 5

13D SD EAGLE BUTTE BDTV 1420

ERP 21.89 kW HAAT 518.0 m RCAMSL 1298.0 m

Antenna CDB 00000000074989

Percent Service lost without proposal:	0.0	to BDTV	1420
Percent Service lost with proposal:	92.3	to BDTV	1420

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
13	KPLO-TV	RELIANCE SD	BDTV -1435

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	KRNE-TV	MERRIMAN NE	222.6	LIC	BDTV -1033
12	KTTM	HURON SD	105.7	LIC	BDTV -1422
13	KFME	FARGO ND	387.2	LIC	BDTV -1002
13	KTNE-TV	ALLIANCE NE	367.1	LIC	BDTV -1019
13	KPSD-TV	EAGLE BUTTE SD	243.0	LIC	BDTV -1420
13	KSFY-TV	SIOUX FALLS SD	251.3	LIC	BDTV -1438
13	KPSD-D.C	EAGLE BUTTE_2 SD	243.0	APP	USERRECORD-01
13	KTNE-D.C	ALLIANCE NE	367.1	APP	USERRECORD-02

Total scenarios = 3

Result key: 10
Scenario 1 Affected station 5
Before Analysis

Results for: 13A SD RELIANCE BDTV 1435 LIC
HAAT 318.0 m, ATV ERP 40.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	56183	31241.4
not affected by terrain losses	53474	30097.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3584	2846.0
lost to ATV IX only	3584	2846.0
lost to all IX	3584	2846.0

Potential Interfering Stations Included in above Scenario 1

12A SD HURON	BDTV	1422	LIC
13A ND FARGO	BDTV	1002	LIC
13A NE ALLIANCE	BDTV	1019	LIC
13A SD EAGLE BUTTE	BDTV	1420	LIC
13A SD SIOUX FALLS	BDTV	1438	LIC

After Analysis

Results for: 13A SD RELIANCE BDTV 1435 LIC
HAAT 318.0 m, ATV ERP 40.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	56183	31241.4
not affected by terrain losses	53474	30097.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3600	2958.4
lost to ATV IX only	3600	2958.4
lost to all IX	3600	2958.4

Potential Interfering Stations Included in above Scenario 1

12A SD HURON	BDTV	1422	LIC
13A ND FARGO	BDTV	1002	LIC
13A NE ALLIANCE	BDTV	1019	LIC
13A SD EAGLE BUTTE	BDTV	1420	LIC
13A SD SIOUX FALLS	BDTV	1438	LIC
13A SD EAGLE BUTTE_2	USERRECORD01		APP
*Percent Service lost without proposal:	0.0	to BDTV	1435
*Percent Service lost with proposal:	0.0	to BDTV	1435

Result key: 11
Scenario 2 Affected station 5
Before Analysis

Results for: 13A SD RELIANCE BDTV 1435 LIC
HAAT 318.0 m, ATV ERP 40.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	56183	31241.4
not affected by terrain losses	53474	30097.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3584	2846.0
lost to ATV IX only	3584	2846.0
lost to all IX	3584	2846.0

Potential Interfering Stations Included in above Scenario 2

12A SD HURON	BDTV	1422	LIC
13A ND FARGO	BDTV	1002	LIC
13A NE ALLIANCE	BDTV	1019	LIC
13A SD EAGLE BUTTE	BDTV	1420	LIC
13A SD SIOUX FALLS	BDTV	1438	LIC

After Analysis

Results for: 13A SD RELIANCE BDTV 1435 LIC
HAAT 318.0 m, ATV ERP 40.0 kW

	POPULATION	AREA (sq km)
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within Noise Limited Contour	56183	31241.4
not affected by terrain losses	53474	30097.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3600	2958.4
lost to ATV IX only	3600	2958.4
lost to all IX	3600	2958.4

Potential Interfering Stations Included in above Scenario 2

12A SD HURON	BDTV	1422	LIC
13A ND FARGO	BDTV	1002	LIC
13A NE ALLIANCE	BDTV	1019	LIC
13A SD EAGLE BUTTE	BDTV	1420	LIC
13A SD SIOUX FALLS	BDTV	1438	LIC
13A SD EAGLE BUTTE_2	USERRECORD01		APP
*Percent Service lost without proposal:	0.0	to BDTV	1435
*Percent Service lost with proposal:	0.0	to BDTV	1435

Result key: 12
Scenario 3 Affected station 5
Before Analysis

Results for: 13A SD RELIANCE BDTV 1435 LIC
HAAT 318.0 m, ATV ERP 40.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	56183	31241.4
not affected by terrain losses	53474	30097.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3585	2854.0
lost to ATV IX only	3585	2854.0
lost to all IX	3585	2854.0

Potential Interfering Stations Included in above Scenario 3

12A SD HURON	BDTV	1422	LIC
13A ND FARGO	BDTV	1002	LIC
13A NE ALLIANCE	USERRECORD02		APP
13A SD EAGLE BUTTE	BDTV	1420	LIC
13A SD SIOUX FALLS	BDTV	1438	LIC

After Analysis

Results for: 13A SD RELIANCE BDTV 1435 LIC
HAAT 318.0 m, ATV ERP 40.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	56183	31241.4
not affected by terrain losses	53474	30097.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	3601	2966.4
lost to ATV IX only	3601	2966.4
lost to all IX	3601	2966.4

Potential Interfering Stations Included in above Scenario 3

12A SD HURON	BDTV	1422	LIC
13A ND FARGO	BDTV	1002	LIC
13A NE ALLIANCE	USERRECORD02		APP
13A SD EAGLE BUTTE	BDTV	1420	LIC
13A SD SIOUX FALLS	BDTV	1438	LIC
13A SD EAGLE BUTTE_2	USERRECORD01		APP
*Percent Service lost without proposal:	0.0	to BDTV	1435
*Percent Service lost with proposal:	0.0	to BDTV	1435

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Analysis of Interference to Affected Station 6

Analysis of current record
Channel Call City/State Application Ref. No.

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KCWY	CASPER WY	217.8	LIC	BDTV	-1795
13	KBZK	BOZEMAN MT	316.4	LIC	BDTV	-0919
13	KBAO	LEWISTOWN MT	340.2	LIC	BDTV	-0934
13	KPSD-TV	EAGLE BUTTE SD	385.6	LIC	BDTV	-1420
13	KGWR-TV	ROCK SPRINGS WY	389.2	LIC	BDTV	-1809
13	KPSD-D.C	EAGLE BUTTE_2 SD	385.4	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.
13	KTNE-D.C	ALLIANCE NE	USERRECORD-02	

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
12	KRNE-TV	MERRIMAN NE	144.5	LIC	BDTV	-1033
13	KBDI-TV	BROOMFIELD CO	316.0	LIC	BDTV	-0232
13	KPSD-TV	EAGLE BUTTE SD	363.0	LIC	BDTV	-1420
13	KPLO-TV	RELIANCE SD	367.1	LIC	BDTV	-1435
13	KPSD-D.C	EAGLE BUTTE_2 SD	362.8	APP	USERRECORD-01	

Total scenarios = 2

Result key: 13
Scenario 1 Affected station 7
Before Analysis

Results for: 13A NE ALLIANCE USERRECORD02 APP

HAAT 467.0 m, ATV ERP 27.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	102229	40380.2
not affected by terrain losses	96033	37359.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2045	2438.6
lost to ATV IX only	2045	2438.6
lost to all IX	2045	2438.6

Potential Interfering Stations Included in above Scenario 1

12A NE MERRIMAN	BDTV	1033	LIC
13A CO BROOMFIELD	BDTV	0232	LIC
13A SD EAGLE BUTTE	BDTV	1420	LIC
13A SD RELIANCE	BDTV	1435	LIC

After Analysis

Results for: 13A NE ALLIANCE USERRECORD02 APP

HAAT 467.0 m, ATV ERP 27.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	102229	40380.2
not affected by terrain losses	96033	37359.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2053	2462.7
lost to ATV IX only	2053	2462.7
lost to all IX	2053	2462.7

Potential Interfering Stations Included in above Scenario 1

12A NE MERRIMAN	BDTV	1033	LIC
13A CO BROOMFIELD	BDTV	0232	LIC
13A SD EAGLE BUTTE	BDTV	1420	LIC

13A SD RELIANCE BDTV 1435 LIC
13A SD EAGLE BUTTE_2 USERRECORD01 APP
*Percent Service lost without proposal: 0.0 to USERRECORD02
*Percent Service lost with proposal: 0.0 to USERRECORD02

Result key: 14
Scenario 2 Affected station 7
Before Analysis

Results for: 13A NE ALLIANCE USERRECORD02 APP
HAAT 467.0 m, ATV ERP 27.0 kW
POPULATION AREA (sq km)
within Noise Limited Contour 102229 40380.2
not affected by terrain losses 96033 37359.0
lost to NTSC IX 0 0.0
lost to additional IX by ATV 2045 2438.6
lost to ATV IX only 2045 2438.6
lost to all IX 2045 2438.6

Potential Interfering Stations Included in above Scenario 2

12A NE MERRIMAN BDTV 1033 LIC
13A CO BROOMFIELD BDTV 0232 LIC
13A SD EAGLE BUTTE BDTV 1420 LIC
13A SD RELIANCE BDTV 1435 LIC

After Analysis

Results for: 13A NE ALLIANCE USERRECORD02 APP
HAAT 467.0 m, ATV ERP 27.0 kW
POPULATION AREA (sq km)
within Noise Limited Contour 102229 40380.2
not affected by terrain losses 96033 37359.0
lost to NTSC IX 0 0.0
lost to additional IX by ATV 2053 2462.7
lost to ATV IX only 2053 2462.7
lost to all IX 2053 2462.7

Potential Interfering Stations Included in above Scenario 2

12A NE MERRIMAN BDTV 1033 LIC
13A CO BROOMFIELD BDTV 0232 LIC
13A SD EAGLE BUTTE BDTV 1420 LIC
13A SD RELIANCE BDTV 1435 LIC
13A SD EAGLE BUTTE_2 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 8

Analysis of current record

Channel	Call	City/State	Application Ref. No.
12	KXMB-D.C	BISMARCK ND	USERRECORD-03

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
11	KQSD-TV	LOWRY SD	159.2	LIC	BDTV -1425
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
13	KPSD-D.C	EAGLE BUTTE_2 SD	204.7	APP	USERRECORD-01
13	KXMC-D.C	MINOT ND	167.3	APP	USERRECORD-04

Proposal causes no interference

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Analysis of current record

Channel	Call	City/State	Application Ref. No.
13	KXMC-D.C	MINOT ND	USERRECORD-04

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	KXMB-TV	BISMARCK ND	167.4	LIC	BDTV -0991
13	KFME	FARGO ND	331.9	LIC	BDTV -1002
13	KPSD-TV	EAGLE BUTTE SD	340.2	LIC	BDTV -1420
13	KPSD-D.C	EAGLE BUTTE_2 SD	340.4	APP	USERRECORD-01
12	KXMB-D.C	BISMARCK ND	167.3	APP	USERRECORD-03

Total scenarios = 2

Result key: 15
 Scenario 1 Affected station 9
 Before Analysis

Results for: 13A ND MINOT USERRECORD04 APP
 HAAT 334.0 m, ATV ERP 16.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	95420	30576.6
not affected by terrain losses	89005	29950.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	110	48.2
lost to ATV IX only	110	48.2
lost to all IX	110	48.2

Potential Interfering Stations Included in above Scenario 1

13A SD EAGLE BUTTE	BDTV	1420	LIC
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After Analysis

Results for: 13A ND MINOT USERRECORD04 APP
 HAAT 334.0 m, ATV ERP 16.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	95420	30576.6
not affected by terrain losses	89005	29950.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	110	68.3
lost to ATV IX only	110	68.3
lost to all IX	110	68.3

Potential Interfering Stations Included in above Scenario 1

13A SD EAGLE BUTTE	BDTV	1420	LIC
13A SD EAGLE BUTTE_2	USERRECORD01		APP
*Percent Service lost without proposal:	0.0	to USERRECORD04	
*Percent Service lost with proposal:	0.0	to USERRECORD04	

Result key: 16
 Scenario 2 Affected station 9
 Before Analysis

Results for: 13A ND MINOT USERRECORD04 APP
 HAAT 334.0 m, ATV ERP 16.1 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	95420	30576.6
not affected by terrain losses	89005	29950.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	115	52.2
lost to ATV IX only	115	52.2
lost to all IX	115	52.2

Potential Interfering Stations Included in above Scenario 2

13A SD EAGLE BUTTE	BDTV	1420	LIC
12A ND BISMARCK	USERRECORD03		APP

After Analysis

Results for: 13A ND MINOT USERRECORD04 APP

HAAT 334.0 m, ATV ERP 16.1 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	95420	30576.6
not affected by terrain losses	89005	29950.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	115	72.3
lost to ATV IX only	115	72.3
lost to all IX	115	72.3

Potential Interfering Stations Included in above Scenario 2

13A SD EAGLE BUTTE	BDTV	1420	LIC
12A ND BISMARCK	USERRECORD03		APP
13A SD EAGLE BUTTE_2	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 10

Analysis of current record

Channel	Call	City/State	Application Ref. No.
13	KPSD-D.C	EAGLE BUTTE_2 SD	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
12	KXMB-TV	BISMARCK ND	204.4	LIC	BDTV -0991
13	KXMC-TV	MINOT ND	340.4	LIC	BDTV -1010
13	KTNE-TV	ALLIANCE NE	362.9	LIC	BDTV -1019
13	KPSD-TV	EAGLE BUTTE SD	0.2	LIC	BDTV -1420
13	KPLO-TV	RELIANCE SD	243.0	LIC	BDTV -1435
13	KSGW-TV	SHERIDAN WY	385.4	LIC	BDTV -1811
13	KTNE-D.C	ALLIANCE NE	362.8	APP	USERRECORD-02
12	KXMB-D.C	BISMARCK ND	204.7	APP	USERRECORD-03
13	KXMC-D.C	MINOT ND	340.4	APP	USERRECORD-04

Total scenarios = 4

Result key: 17

Scenario 1 Affected station 10

Before Analysis

Results for: 13A SD EAGLE BUTTE_2 USERRECORD01 APP

HAAT 516.0 m, ATV ERP 27.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	20890	42490.9
not affected by terrain losses	19473	40123.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	18242	35078.9
lost to ATV IX only	18242	35078.9
lost to all IX	18242	35078.9

Potential Interfering Stations Included in above Scenario 1

13A ND MINOT	BDTV	1010	LIC
13A NE ALLIANCE	BDTV	1019	LIC
13A SD EAGLE BUTTE	BDTV	1420	LIC
13A SD RELIANCE	BDTV	1435	LIC
13A WY SHERIDAN	BDTV	1811	LIC

Result key: 18
Scenario 2 Affected station 10
Before Analysis

Results for: 13A SD EAGLE BUTTE_2 USERRECORD01 APP
HAAT 516.0 m, ATV ERP 27.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20890	42490.9
not affected by terrain losses	19473	40123.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	18242	35078.9
lost to ATV IX only	18242	35078.9
lost to all IX	18242	35078.9

Potential Interfering Stations Included in above Scenario 2

13A ND MINOT	BDTV	1010	LIC
13A NE ALLIANCE	USERRECORD02		APP
13A SD EAGLE BUTTE	BDTV	1420	LIC
13A SD RELIANCE	BDTV	1435	LIC
13A WY SHERIDAN	BDTV	1811	LIC

Result key: 19
Scenario 3 Affected station 10
Before Analysis

Results for: 13A SD EAGLE BUTTE_2 USERRECORD01 APP
HAAT 516.0 m, ATV ERP 27.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20890	42490.9
not affected by terrain losses	19473	40123.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	18242	35078.9
lost to ATV IX only	18242	35078.9
lost to all IX	18242	35078.9

Potential Interfering Stations Included in above Scenario 3

13A ND MINOT	USERRECORD04		APP
13A NE ALLIANCE	BDTV	1019	LIC
13A SD EAGLE BUTTE	BDTV	1420	LIC
13A SD RELIANCE	BDTV	1435	LIC
13A WY SHERIDAN	BDTV	1811	LIC

Result key: 20
Scenario 4 Affected station 10
Before Analysis

Results for: 13A SD EAGLE BUTTE_2 USERRECORD01 APP
HAAT 516.0 m, ATV ERP 27.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	20890	42490.9
not affected by terrain losses	19473	40123.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	18242	35078.9
lost to ATV IX only	18242	35078.9
lost to all IX	18242	35078.9

Potential Interfering Stations Included in above Scenario 4

13A ND MINOT	USERRECORD04		APP
13A NE ALLIANCE	USERRECORD02		APP
13A SD EAGLE BUTTE	BDTV	1420	LIC
13A SD RELIANCE	BDTV	1435	LIC
13A WY SHERIDAN	BDTV	1811	LIC

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