

2000 Census data selected
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 09-27-2006 Time: 14:01:00

Record Selected for Analysis

NEW BSFDTL -20090101ABO MINOT ND US
Channel 42 ERP 000.5 kW HAAT 00140 m RCAMSL 00667 m
Latitude 048-12-56 Longitude 101 -19-5
Status APP Zone 0 Border Offset
Dir Antenna Make CDB Model 00000000024202 Beam tilt N Ref Azimuth
167
Last update 00000000 Cutoff date 00000000 Docket
Comments
Applicant AMANDA ORRICK

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Not full service station

Facility meets maximum power limit

Azimuth (Deg)	ERP (kW)	HAAT (m)	51.0 dBu F(50,90) (km)
0.0	0.222	153.2	25.4
45.0	0.180	172.7	25.5
90.0	0.263	172.1	27.4
135.0	0.444	149.5	28.6
180.0	0.494	109.9	26.3
225.0	0.344	88.2	22.0
270.0	0.195	112.1	21.5
315.0	0.202	163.4	25.5

Contour Overlap to Proposed Station

Contour Overlap Evaluation to Proposed Station Complete

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quite zone

Proposed facility OK toward Table Mountain

Proposed facility is within the Canadian coordination distance
Distance to border = 87.2km

Proposed facility is beyond the Mexican coordination distance

Proposed station is 2.57km from AM station
MINOT ND KCJB Status: L Antenna: DA2

Start of Interference Analysis

Channel	Call	Proposed Station City/State	ARN
42	NEW	MINOT ND	BSFDTL 20090101ABO

Stations Potentially Affected by Proposed Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
27		MINOT ND	4.3	APP	BNPTT	-
20000828ALD						
27		MINOT ND	7.5	APP	BNPTTL	-
20000802ACW						
42	NEW	MINOT ND	0.0	APP	BSFDTL	-
20060630BDH						
42	NEW	BISMARCK ND	159.6	CP	BNPTTL	-
20000828BGH						
42	NEW	BAKER MT	303.5	CP	BNPTT	-
20000818AAV						
42	K42FY	DICKINSON ND	178.8	LIC	BLTT	-
20030418AAL						
42	NEW	ABERDEEN SD	371.2	CP	BNPTTL	-
20000807ADK						
42	NEW	WILLISTON ND	160.7	APP	BNPTTL	-
20000802AEM						
43	NEW	BISMARCK ND	159.6	CP	BNPTTL	-
20000807AHO						

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
27		MINOT ND	BNPTT	-20000828ALD

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
27	KCPM	GRAND FORKS ND	316.5	CP MOD	BMPCT	-
20031223AAH						
27		MINOT ND	5.2	APP	BNPTTL	-
20000802ACW						
42	NEW	MINOT ND	4.3	APP	BSFDTL	-
20060630BDH						
42	NEW	MINOT ND	4.3	APP	BSFDTL	-
20090101ABO						

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.
27		MINOT ND	BNPTTL -20000802ACW

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
26	NEW	MINOT ND	13.5	APP	BNPTT -
20000830BDW					
27	KCPM	GRAND FORKS ND	320.9	CP MOD	BMPCT -
20031223AAH					
27		MINOT ND	5.2	APP	BNPTT -
20000828ALD					
42	NEW	MINOT ND	7.5	APP	BSFDTL -
20060630BDH					
42	NEW	MINOT ND	7.5	APP	BSFDTL -
20090101ABO					

Proposal causes no interference

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THE FACILITY LISTED BELOW IS APPLICANT'S ORIGINAL SHORT FORM APPLICATION FOR THIS PROPOSED DIGITAL COMPANION CHANNEL.

Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application Ref. No.
42	NEW	MINOT ND	BSFDTL -20060630BDH

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
40	KSRE-TV	MINOT ND	19.1	LIC	BPRM -
20020605ABL					
40	KSRE-DT	MINOT ND	19.1	LIC	BLEDT -
20031104ABX					
45	KXMC-DT	MINOT ND	19.1	LIC	BLCDT -
20031008ABK					
42	NEW	MINOT ND	0.0	APP	BSFDTL -
20090101ABO					

Total scenarios = 1

Result key: 1
Scenario 1 Affected station 3
Before Analysis

Results for: 42A ND MINOT BSFDTL 20060630BDH APP
HAAT 0.0 m, ATV ERP 0.5 kW
POPULATION AREA (sq km)

within Noise Limited Contour	55520	2480.4
not affected by terrain losses	55520	2480.4
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: 42A ND MINOT BSFDTL 20060630BDH APP

HAAT 0.0 m, ATV ERP 0.5 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	55520	2480.4
not affected by terrain losses	55520	2480.4
lost to NTSC IX	0	0.0
lost to additional IX by ATV	55435	2452.5
lost to ATV IX only	55435	2452.5
lost to all IX	55435	2452.5

Potential Interfering Stations Included in above Scenario 1

42A ND MINOT BSFDTL 20090101ABO APP

The following station failed the de minimis interference criteria.

42D ND MINOT BSFDTL 20090101ABO
 ERP 0.50 kW HAAT 140.0 m RCAMSL 667.0 m
 Antenna CDB 00000000024202

Due to interference to the following station and scenario: 1

42D ND MINOT BSFDTL 20060630BDH
 ERP 0.50 kW HAAT 0.0 m RCAMSL 667.2 m
 Antenna CDB 00000000073522

Percent Service lost without proposal: 0.0 to BSFDTL
 20060630BDH
 Percent Service lost with proposal: 99.8 to BSFDTL
 20060630BDH

Proposed station is MX

42A ND MINOT BSFDTL 20090101ABO APP
 42A ND MINOT BSFDTL 20060630BDH APP

Proposal MX with BSFDTL 20060630BDH scenario 1 of station 3

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
42	NEW	BISMARCK ND	BNPTTL -20000828BGH

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
40	KSRE-TV	MINOT ND	143.6	LIC	BPRM	-
20020605ABL						
40	KSRE-DT	MINOT ND	143.6	LIC	BLEDT	-
20031104ABX						
43	NEW	BISMARCK ND	0.0	CP	BNPTTL	-
20000807AHO						
45	KXMC-DT	MINOT ND	143.6	LIC	BLCDT	-
20031008ABK						
42	NEW	MINOT ND	159.6	APP	BSFDTL	-
20090101ABO						
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.
42	NEW	BAKER MT	BNPTT	-20000818AAV

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
42	K42FY	DICKINSON ND	134.6	LIC	BLTT	-
20030418AAL						
42	NEW	MINOT ND	303.5	APP	BSFDTL	-
20090101ABO						
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.
42	K42FY	DICKINSON ND	BLTT	-20030418AAL

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
42	NEW	MINOT ND	178.8	APP	BSFDTL	-
20090101ABO						
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.
42	NEW	ABERDEEN SD	BNPTTL -20000807ADK

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
42	KSAX	ALEXANDRIA MN	261.8	LIC	BLCT -
19870925KJ					
43	NEW	ABERDEEN SD	3.1	CP	BNPTTL -
20000828AYV					
42	NEW	MINOT ND	371.2	APP	BSFDTL -
20090101ABO					

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.
42	NEW	WILLISTON ND	BNPTTL -20000802AEM

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
42	NEW	MINOT ND	160.7	APP	BSFDTL -
20090101ABO					

Proposal causes no interference

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Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application Ref. No.
43	NEW	BISMARCK ND	BNPTTL -20000807AHO

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
40	KSRE-TV	MINOT ND	143.6	LIC	BPRM -
20020605ABL					
40	KSRE-DT	MINOT ND	143.6	LIC	BLEDT -
20031104ABX					
42	NEW	BISMARCK ND	0.0	CP	BNPTTL -
20000828BGH					
45	KXMC-DT	MINOT ND	143.6	LIC	BLCDT -
20031008ABK					
42	NEW	MINOT ND	159.6	APP	BSFDTL -
20090101ABO					

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application Ref. No.
42	NEW	MINOT ND	BSFDTL -20090101ABO

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
40	KSRE-TV	MINOT ND	19.1	LIC	BPRM -
20020605ABL					
40	KSRE-DT	MINOT ND	19.1	LIC	BLEDT -
20031104ABX					
42	NEW	MINOT ND	0.0	APP	BSFDTL -
20060630BDH					
45	KXMC-DT	MINOT ND	19.1	LIC	BLCDT -
20031008ABK					

Total scenarios = 2

Result key: 2
Scenario 1 Affected station 10
Before Analysis

Results for: 42A ND MINOT BSFDTL 20090101ABO APP
HAAT 140.0 m, ATV ERP 0.5 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	54952	1963.3
not affected by terrain losses	54952	1963.3
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

Result key: 3
Scenario 2 Affected station 10
Before Analysis

Results for: 42A ND MINOT BSFDTL 20090101ABO APP
HAAT 140.0 m, ATV ERP 0.5 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	54952	1963.3
not affected by terrain losses	54952	1963.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	54869	1939.4
lost to ATV IX only	54869	1939.4
lost to all IX	54869	1939.4

Potential Interfering Stations Included in above Scenario 2

42A ND MINOT BSFDTL 20060630BDH APP

Proposal fails scenario 2 received IX increased to 99.8%

Proposed station is MX

42A ND MINOT BSFDTL 20090101ABO APP

Proposal MX with group in scenario 2 of station 10

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