

Percent allowed new interference: 0.500  
Percent allowed new interference to non Class A LPTV: 2.000  
TW Census data selected 2000  
Data Base Selected  
/space/software/cdbs/pt\_tvdb.sff  
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 04-08-2012 Time: 14:22:46

#### Record Selected for Analysis

K46DY USERRECORD-01 US  
Channel 28 ERP 15. kW HAAT 104. m RCAMSL 00638 m FULL SERVICE MASK  
Latitude 046-49-38 Longitude 0100-46-28  
Status APP Zone 2 Border Site number: 01  
Last update Cutoff date Docket  
Comments  
Applicant

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Not full service station  
Service Class = LD  
Maximum height/power limits not checked

Site number	1		
Azimuth	ERP	HAAT	51.0 dBu F(50,90)
(Deg)	(kW)	(m)	(km)
0.0	15.000	71.9	38.8
45.0	15.000	64.5	37.7
90.0	15.000	109.9	43.8
135.0	15.000	101.8	42.9
180.0	15.000	140.0	46.0
225.0	15.000	99.2	42.6
270.0	15.000	127.2	45.1
315.0	15.000	115.8	44.3

Contour Overlap to Proposed Station

Contour Overlap Evaluation to Proposed Station Complete

NO LANDMOBILE SPACING VIOLATIONS FOUND

Checks to Site Number 01

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is within the Canadian coordination distance  
Distance to border = 241.5km

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

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Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
28	K46DY		USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
27	NEW	GARRISON ND	107.5	APP	BNPDTL	-20100609AGS
27	K27KZ-D	HEBRON ND	106.7	CP	BNPDTL	-20100506ABX
27	NEW	MINOT ND	163.0	APP	BNPTT	-20000828ALD
27	K27LX-D	MINOT ND	153.6	CP	BNPDTL	-20100331AFB
27	K27LR-D	STEELE ND	53.5	CP	BNPDTL	-20100505AMA
28	K28LZ-D	GLENDIVE MT	282.7	CP	BNPDTL	-20100506ACP
28	K28MA-D	ARGUSVILLE ND	289.4	CP	BNPDTL	-20100504ANH
28	K28EP	DICKINSON ND	148.8	LIC	BLTT	-19980707JD
28	NEW	MITCHELL SD	405.4	APP	BNPDTL	-20100510AID
28	NEW	MURDO SD	326.2	APP	BNPDTL	-20100510AIO
28	K28MI-D	STURGIS SD	341.6	CP	BNPDTL	-20100505AIU
28	NEW	WASTA SD	333.8	APP	BNPDTL	-20100510AHL
29	K29KA-D	NEW SALEM ND	48.4	CP	BNPDTL	-20100505AMH
29	K29JZ-D	TAPPEN ND	98.1	CP	BNPDTL	-20100505ALW

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
27	NEW	GARRISON ND	BNPDTL	-20100609AGS

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
26	KNDX	BISMARCK ND	130.0	LIC	BLCDT	-20100510AGW
27	KCPM	GRAND FORKS ND	336.4	LIC	BLCDT	-20100623ACO
27	K27KZ-D	HEBRON ND	100.5	CP	BNPDTL	-20100506ABX
27	NEW	MINOT ND	69.7	APP	BNPTT	-20000828ALD
27	K27LX-D	MINOT ND	60.3	CP	BNPDTL	-20100331AFB
27	K27LR-D	STEELE ND	141.1	CP	BNPDTL	-20100505AMA
28	K46DY		107.5	APP	USERRECORD-01	

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	K27KZ-D	HEBRON ND	BNPDTL	-20100506ABX

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
26	KNDX	BISMARCK ND	109.4	LIC	BLCDT	-20100510AGW

26	K26KW-D	DICKINSON ND	41.1	CP	BNPDTL	-20100506ACD
27	NEW	GARRISON ND	100.5	APP	BNPDTL	-20100609AGS
27	K27LX-D	MINOT ND	159.9	CP	BNPDTL	-20100331AFB
28	K46DY		106.7	APP	USERRECORD-01	

Proposal causes no interference

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#### Analysis of Interference to Affected Station 3

##### Analysis of current record

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

##### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
24	KXND	MINOT ND	24.2	LIC	BLCDT -20100510AHE
27	NEW	GARRISON ND	69.7	APP	BNPDTL -20100609AGS
27	KCPM	GRAND FORKS ND	316.5	LIC	BLCDT -20100623ACO
27	K27LX-D	MINOT ND	9.8	CP	BNPDTL -20100331AFB
28	K46DY		163.0	APP	USERRECORD-01

Proposed station is beyond the site to  
nearest cell evaluation distance

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#### Analysis of Interference to Affected Station 4

##### Analysis of current record

Channel	Call	City/State	Application Ref. No.
27	K27LX-D	MINOT ND	BNPDTL -20100331AFB

##### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
27	NEW	GARRISON ND	60.3	APP	BNPDTL -20100609AGS
27	KCPM	GRAND FORKS ND	316.1	LIC	BLCDT -20100623ACO
27	K27KZ-D	HEBRON ND	159.9	CP	BNPDTL -20100506ABX
27	NEW	MINOT ND	9.8	APP	BNPTT -20000828ALD
28	K46DY		153.6	APP	USERRECORD-01

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.
27	K27LR-D	STEELE ND	BNPDTL -20100505AMA

##### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
26	KNDX	BISMARCK ND	62.4	LIC	BLCDT -20100510AGW
27	NEW	GARRISON ND	141.1	APP	BNPDTL -20100609AGS
27	KCPM	GRAND FORKS ND	258.3	LIC	BLCDT -20100623ACO
27	K27LX-D	MINOT ND	172.3	CP	BNPDTL -20100331AFB

28 K46DY 53.5 APP USERRECORD-01  
Proposal causes no interference

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application Ref. No.
28	K28LZ-D	GLENDIVE MT	BNPDTL -20100506ACP

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
28	K28EP	DICKINSON ND	134.4	LIC	BLTT -19980707JD
28	K46DY		282.7	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.
28	K28MA-D	ARGUSVILLE ND	BNPDTL -20100504ANH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
27	K27LN-D	FARGO ND	42.6	CP	BNPDTL -20100518AEF
27	KCPM	GRAND FORKS ND	101.7	LIC	BLCDT -20100623ACO
28	K28DD	BEMIDJI MN	168.9	LIC	BLTT -20080610AAL
28	KAWB	BRAINERD MN	203.7	LIC	BLEDT -20101012ADI
29	NEW	CASSELTON ND	28.2	APP	BNPDTL -20100505ALD
28	K46DY		289.4	APP	USERRECORD-01

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.
28	K28EP	DICKINSON ND	BLTT -19980707JD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
28	K46DY		148.8	APP	USERRECORD-01

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.
28	NEW	MITCHELL SD	BNPDTL -20100510AID

# Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
28	KSIN-TV	SIOUX CITY IA	196.8	LIC	BLEDT -20050726AMC
28	KHNE-TV	HASTINGS NE	325.3	LIC	BLEDT -20030409ABN
28	K46DY		405.4	APP	USERRECORD-01

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.
28	NEW	MURDO SD	BNPDTL -20100510AIO

# Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
28	KSIN-TV	SIOUX CITY IA	389.3	LIC	BLEDT -20050726AMC
28	NEW	WASTA SD	133.6	APP	BNPDTL -20100510AHL
28	K46DY		326.2	APP	USERRECORD-01

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.
28	K28MI-D	STURGIS SD	BNPDTL -20100505AIU

# Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
27	NEW	RAPID CITY SD	46.7	APP	BNPDTL -20090825AUN
27	KWBH-LP	RAPID CITY SD	42.6	LIC	BLTTL -19970801JA
28	NEW	WASTA SD	99.9	APP	BNPDTL -20100510AHL
28	K28KM-D	CLARETON WY	150.1	LIC	BLDTL -20091106ABM
28	K46DY		341.6	APP	USERRECORD-01

Proposal causes no interference

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# Analysis of Interference to Affected Station 12

## Analysis of current record

Channel	Call	City/State	Application Ref. No.
28	NEW	WASTA SD	BNPDTL -20100510AHL

# Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
27	NEW	RAPID CITY SD	69.0	APP	BNPDTL -20090825AUN
28	NEW	MURDO SD	133.6	APP	BNPDTL -20100510AIO
28	K28MI-D	STURGIS SD	99.9	CP	BNPDTL -20100505AIU
28	K46DY		333.8	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.
29	K29KA-D	NEW SALEM ND	BNPDTL -20100505AMH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
28	K46DY		48.4	APP	USERRECORD-01

Total scenarios = 1

Result key: 1  
Scenario 1 Affected station 13  
Before Analysis

Results for: 29A ND NEW SALEM BNPDTL 20100505AMH CP

HAAT 131.0 m, ATV ERP 1.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4690	3537.6
not affected by terrain losses	4671	3487.5
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: 29A ND NEW SALEM BNPDTL 20100505AMH CP

HAAT 131.0 m, ATV ERP 1.8 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4690	3537.6
not affected by terrain losses	4671	3487.5
lost to NTSC IX	0	0.0
lost to additional IX by ATV	6	16.7
lost to ATV IX only	6	16.7
lost to all IX	6	16.7

Potential Interfering Stations Included in above Scenario 1

28A USERRECORD01 APP

Percent new IX = 0.1285%

Worst case new IX 0.1285% Scenario 1

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Analysis of Interference to Affected Station 14

Analysis of current record

Channel	Call	City/State	Application Ref. No.
29	K29JZ-D	TAPPEN ND	BNPDTL -20100505ALW

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
29	K29KA-D	NEW SALEM ND	146.5	CP	BNPDTL -20100505AMH
28	K46DY		98.1	APP	USERRECORD-01

Proposal causes no interference

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# Analysis of Interference to Affected Station 15

## Analysis of current record

Channel	Call	City/State	Application Ref. No.
28	K46DY		USERRECORD-01

## Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
27	K27LR-D	STEELE ND	53.5	CP	BNPDTL -20100505AMA
29	K29KA-D	NEW SALEM ND	48.4	CP	BNPDTL -20100505AMH

Total scenarios = 1

Result key: 2  
Scenario 1 Affected station 15  
Before Analysis

Results for: 28A USERRECORD01 APP

HAAT 104.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	90560	6046.9
not affected by terrain losses	90550	5985.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	60	85.4
lost to ATV IX only	60	85.4
lost to all IX	60	85.4

Potential Interfering Stations Included in above Scenario 1

29A ND NEW SALEM BNPDTL 20100505AMH CP

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