

Census data selected: 2000

Post DTV Transition Database Selected

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 05-20-2010 Time: 14:11:00

Record Selected for Analysis

K19CG-D USERRECORD-01 BELLEFOUCHE SD US
Channel 19 ERP 0.214 kW HAAT 37. m RCAMSL 00982 m SIMPLE MASK
Latitude 044-39-24 Longitude 0103-50-49
Status APP Zone 1 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 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	0.214	33.0	11.8
45.0	0.214	59.8	15.9
90.0	0.214	51.4	14.7
135.0	0.214	33.0	11.8
180.0	0.214	33.0	11.8
225.0	0.214	33.0	11.8
270.0	0.214	33.0	11.8
315.0	0.214	34.1	12.0

Contour Overlap to Proposed Station

Contour Overlap Evaluation to Proposed Station Complete

LANDMOBILE SPACING VIOLATIONS FOUND

NONE

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet 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

	Proposed Station		
Channel	Call	City/State	ARN
19	K19CG-D	BELLEFOUCHE SD	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
19	K19FF	MILES CITY MT	251.7	LIC	BLTT	-20030121ACC
19	KXMA-TV	DICKINSON ND	241.1	CP	BPCDT	-20080620AED
19	KPRY-TV	PIERRE SD	306.5	LIC	BLCDT	-20080806AAT
19	K19GX-D	BUFFALO WY	228.5	LIC	BLDTT	-20100108ACQ
19	K19HP	GILLETTE WY	133.1	CP	BNPTTL	-20000830BBH
19	K19FX	LARAMIE WY	396.6	LIC	BLTT	-20041118ADY
19	K19FX	LARAMIE WY	396.6	CP	BDFCDTT	-20081031ABC
20	K2OKI-D	RAPID CITY SD	78.7	CP	BNPDTL	-20090825AUY
20	K2OJM-D	SPEARFISH SD	18.3	CP	BDCCDTT	-20061030APU
22	K22AD	GILLETTE WY	138.4	LIC	BLTTL	-19940224JS
23	K23DJ	EKALAKA MT	148.9	LIC	BLTTL	-19930910IP
27	KWBH-LP	RAPID CITY SD	78.7	LIC	BLTTL	-19970801JA

%%%

Analysis of Interference to Affected Station 1

Analysis of current record			
Channel	Call	City/State	Application Ref. No.
19	K19FF	MILES CITY MT	BLTT -20030121ACC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
18	K18BN	GLASGOW MT	205.3	CP	BDFCDTT	-20091013ACF
19	KXMA-TV	DICKINSON ND	226.3	CP	BPCDT	-20080620AED
19	KXMA-TV	DICKINSON ND	226.3	PLN	DTVPLN	-DTVP0673
19	K19GX-D	BUFFALO WY	243.3	LIC	BLDTT	-20100108ACQ
20	K2OJS-D	GLASGOW MT	205.3	CP	BDFCDTT	-20091013ACE
19	K19CG-D	BELLEFOUCHE SD	251.7	APP	USERRECORD-01	

Proposal causes no interference

#####

Analysis of Interference to Affected Station 2

Analysis of current record			
Channel	Call	City/State	Application Ref. No.
19	KXMA-TV	DICKINSON ND	BPCDT -20080620AED

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
19	KPRY-TV	PIERRE SD	370.4	LIC	BLCDT	-20080806AAT
19	KPRY-TV	PIERRE SD	370.4	PLN	DTVPLN	-DTVP0680
19	K19CG-D	BELLEFOUCHE SD	241.1	APP	USERRECORD-01	

Proposal causes no interference

#####

Analysis of Interference to Affected Station 3

Analysis of current record			
Channel	Call	City/State	Application Ref. No.
19	KPRY-TV	PIERRE SD	BLCDT -20080806AAT

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
------	------	------------	----------	--------	-------------	----------

19	KXMA-TV	DICKINSON ND	370.4	CP	BPCDT	-20080620AED
19	KXMA-TV	DICKINSON ND	370.4	PLN	DTVPLN	-DTVP0673
19	KVRR	FARGO ND	419.1	CP	BPCDT	-20080317AI I
19	KVRR	FARGO ND	419.1	PLN	DTVPLN	-DTVP0674
19	KXNE-TV	NORFOLK NE	304.0	CP MOD	BMPEDT	-20080620ACC
19	KXNE-TV	NORFOLK NE	304.0	PLN	DTVPLN	-DTVP0675
19	K19CG-D	BELLEFOUCHE SD	306.5	APP	USERRECORD-01	

Proposal causes no interference

#####

Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
19	K19GX-D	BUFFALO WY	BLDTT -20100108ACQ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
19	K19FG	JACKSON WY	339.0	CP	BDFCDTT -20090819AHA
19	K19FX	LARAMIE WY	353.3	CP	BDFCDTT -20081031ABC
19	K19HJ-D	PINEDALE, ETC. WY	309.8	LIC	BLDTT -20080305AEZ
20	K20HB	BILLINGS MT	211.6	CP	BDFCDTT -20061207ACB
20	K20JM-D	SPEARFISH SD	227.6	CP	BDCCDTT -20061030APU
19	K19CG-D	BELLEFOUCHE SD	228.5	APP	USERRECORD-01

Proposal causes no interference

#####

Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
19	K19HP	GILLETTE WY	BNPTTL -20000830BBH

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
19	KXMA-TV	DICKINSON ND	333.9	CP	BPCDT -20080620AED
19	KXMA-TV	DICKINSON ND	333.9	PLN	DTVPLN -DTVP0673
19	K19GX-D	BUFFALO WY	98.8	LIC	BLDTT -20100108ACQ
19	K19FX	LARAMIE WY	335.4	CP	BDFCDTT -20081031ABC
19	K19HJ-D	PINEDALE, ETC. WY	398.2	LIC	BLDTT -20080305AEZ
20	K20KI-D	RAPID CITY SD	177.0	CP	BNPDTL -20090825AUY
20	K20JM-D	SPEARFISH SD	130.0	CP	BDCCDTT -20061030APU
34	K34JS	GILLETTE WY	7.0	CP	BNPTT -20000831ARV
19	K19CG-D	BELLEFOUCHE SD	133.1	APP	USERRECORD-01

Proposal causes no interference

#####

Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application Ref. No.
19	K19FX	LARAMIE WY	BLTT -20041118ADY

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
17	DKTUW	SCOTTSBLUFF NE	138.7	CP	BPCDT -20080807AAN
18	KHDT-LD	DENVER CO	153.0	CP	BDCCDTL -20070511AES
18	K18II-D	CHEYENNE WY	55.1	CP	BDCCDTL -20070402KSK
19	K19FH	ASPEN CO	257.4	CP	BDFCDTL -20090624ACC
19	K19DY	CANON CITY CO	319.2	CP	BDFCDTT -20100111AEX

19	KTVD	DENVER CO	173.7	LIC	BLC DT	-20090218ABY
19	KTVD	DENVER CO	173.7	PLN	DTVPLN	-DTVP0653
19	K19DS	PITKIN CO	311.7	CP	BDFC DTT	-20100211ABE
19	K19HG-D	REDSTONE CO	272.6	LIC	BLD TT	-20091221ABC
19	K19GX-D	BUFFALO WY	353.3	LIC	BLD TT	-20100108ACQ
20	K20KE-D	FORT MORGAN CO	189.1	CP	BNP DTL	-20090825BUU
21	KFCT	FORT COLLINS CO	74.8	CP MOD	BMPC D T	-20080620ANE
21	KFCT	FORT COLLINS CO	88.7	PLN	DTVPLN	-DTVP0736
21	KFCT	FORT COLLINS CO	88.7	LIC	BLC DT	-20070920ACM
27	KLWY	CHEYENNE WY	53.3	CP MOD	BMPC D T	-20080618ABI
27	KLWY	CHEYENNE WY	53.3	PLN	DTVPLN	-DTVP1008
19	K19CG-D	BELLEFOUCHE SD	396.6	APP	USERRECORD-01	

Proposed station is beyond the site to
nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application Ref. No.
19	K19FX	LARAMIE WY	BDFC DTT -20081031ABC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
18	KHDT-LD	DENVER CO	153.0	CP	BDCC DTL -20070511AES
18	K18II-D	CHEYENNE WY	55.1	CP	BDCC DTL -20070402KSK
19	K19FH	ASPEN CO	257.4	CP	BDFC DTL -20090624ACC
19	K19DY	CANON CITY CO	319.2	CP	BDFC DTT -20100111AEX
19	KTVD	DENVER CO	173.7	LIC	BLC DT -20090218ABY
19	KTVD	DENVER CO	173.7	PLN	DTVPLN -DTVP0653
19	K19DS	PITKIN CO	311.7	CP	BDFC DTT -20100211ABE
19	K19HG-D	REDSTONE CO	272.6	LIC	BLD TT -20091221ABC
19	K19GX-D	BUFFALO WY	353.3	LIC	BLD TT -20100108ACQ
19	K19HJ-D	PINEDALE, ETC. WY	418.3	LIC	BLD TT -20080305AEZ
20	K20KE-D	FORT MORGAN CO	189.1	CP	BNP DTL -20090825BUU
19	K19CG-D	BELLEFOUCHE SD	396.6	APP	USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application Ref. No.
20	K20KI-D	RAPID CITY SD	BNP DTL -20090825AUU

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
20	K20JM-D	SPEARFISH SD	64.5	CP	BDCC DTT -20061030APU
20	KFNB	CASPER WY	292.7	CP MOD	BMPC D T -20080618ABL
20	KFNB	CASPER WY	289.0	PLN	DTVPLN -DTVP0731
21	KNBN	RAPID CITY SD	0.0	CP	BPC D T -20080215AJT
21	KNBN	RAPID CITY SD	0.0	PLN	DTVPLN -DTVP0765
19	K19CG-D	BELLEFOUCHE SD	78.7	APP	USERRECORD-01

Proposal causes no interference

#####

Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application Ref. No.
20	K20JM-D	SPEARFISH SD	BDCDDT -20061030APU

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
19	K19GX-D	BUFFALO WY	227.6	LIC	BLDTT -20100108ACQ
20	K20HB	BILLINGS MT	389.1	CP	BDFCDT -20061207ACB
20	K20KI-D	RAPID CITY SD	64.5	CP	BNPDTL -20090825AUY
20	KFNB	CASPER WY	281.4	CP MOD	BMPCDT -20080618ABL
20	KFNB	CASPER WY	278.2	PLN	DTVPLN -DTVP0731
21	KNBN	RAPID CITY SD	64.5	CP	BPCDT -20080215AJT
21	KNBN	RAPID CITY SD	64.5	PLN	DTVPLN -DTVP0765
19	K19CG-D	BELLEFOUCHE SD	18.3	APP	USERRECORD-01

Proposal causes no interference

#####

Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application Ref. No.
22	K22AD	GILLETTE WY	BLTTL -19940224JS

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
22	KHMT	HARDIN MT	265.8	CP MOD	BMPCDT -20070125ACV
22	KHMT	HARDIN MT	265.8	PLN	DTVPLN -DTVP0795
22	K22JU-D	RAPID CITY SD	179.9	CP	BNPDTL -20090825BII
22	K22JX-D	DOUGLAS WY	170.2	CP	BNPDTL -20090825BUN
22	K22CI	LANDER WY	300.5	CP	BDFCDT -20100429ADT
23	K23KK-D	RAPID CITY SD	179.9	CP	BNPDTL -20090825AUR
19	K19CG-D	BELLEFOUCHE SD	138.4	APP	USERRECORD-01

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 11

Analysis of current record

Channel	Call	City/State	Application Ref. No.
23	K23DJ	EKALAKA MT	BLTTL -19930910IP

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
23	K23KK-D	RAPID CITY SD	225.6	CP	BNPDTL -20090825AUR
23	K23IX-D	CLARK, ETC. WY	371.9	LIC	BLDTT -20100107AEA
19	K19CG-D	BELLEFOUCHE SD	148.9	APP	USERRECORD-01

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 12

Analysis of current record

Channel	Call	City/State	Application Ref. No.
27	KWBH-LP	RAPID CITY SD	BLTTL -19970801JA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
26	KBHE-TV	RAPID CITY SD	4.5	LIC	BLEDT	-20081121AKE
26	KBHE-TV	RAPID CITY SD	4.5	PLN	DTVPLN	-DTVP0959
27	K27IH-D	HOLYOKE CO	404.8	LIC	BLDTT	-20070604ADF
27	KHGI-LD	NORTH PLATTE NE	381.4	LIC	BLDTL	-20100120AAQ
27	KLWY	CHEYENNE WY	364.1	CP MOD	BMPCDT	-20080618ABI
27	KLWY	CHEYENNE WY	364.1	PLN	DTVPLN	-DTVP1008
28	K28KM-D	CLARETON WY	154.8	LIC	BLDTL	-20091106ABM
19	K19CG-D	BELLEFOUCHE SD	78.7	APP	USERRECORD-01	

Proposal causes no interference

#####

Analysis of Interference to Affected Station 13

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
19	K19CG-D	BELLEFOUCHE SD	USERRECORD-01	

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
19	KXMA-TV	DICKINSON ND	241.1	CP	BPCDT	-20080620AED
19	KXMA-TV	DICKINSON ND	241.1	PLN	DTVPLN	-DTVP0673
19	KPRY-TV	PIERRE SD	306.5	LIC	BLCDDT	-20080806AAT
19	KPRY-TV	PIERRE SD	306.5	PLN	DTVPLN	-DTVP0680
19	K19GX-D	BUFFALO WY	228.5	LIC	BLDTT	-20100108ACQ
19	K19FX	LARAMIE WY	396.6	CP	BDFCDTT	-20081031ABC
20	K20KI-D	RAPID CITY SD	78.7	CP	BNPDTL	-20090825AUY
20	K20JM-D	SPEARFISH SD	18.3	CP	BDCCDTT	-20061030APU

Total scenarios = 1

Result key: 1

Scenario 1 Affected station 13 K19CG-D

Before Analysis

Results for: 19A SD BELLEFOUCHE USERRECORD01 APP

HAAT	37.0 m, ATV ERP	0.2 kW	POPULATION	AREA (sq km)
within Noise Limited Contour			6864	627.8
not affected by terrain losses			6864	626.8
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

#####

FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED