

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/cdb/pt_tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 10-22-2014 Time: 15:15:51

Record Selected for Analysis

K46LS USERRECORD-01 SHERIDAN WY US
Channel 46 ERP 3. kW HAAT 416. m RCAMSL 02358 m STRINGENT
MASK
Latitude 044-37-23 Longitude 0107-07-01
Status APP Zone 2 Border Site number: 01
Dir Antenna Make CDB Model 00000000023502 Beam tilt N Ref Azimuth
33.
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	0.061	955.6	38.319	
45.0	1.609	1003.3	60.027	
90.0	0.009	863.8	25.721	
135.0	0.006	178.6	11.287	
180.0	0.003	33.0	4.183	
225.0	0.002	33.0	3.555	
270.0	0.006	33.0	4.897	
315.0	0.007	237.6	13.233	

Database HAAT does not agree with computed HAAT
Database HAAT: 416 Computed HAAT: 417

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 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
46	K46LS	SHERIDAN WY	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan Ref. No.	Call	City/State	Dist(km)	Status	Application
45 -20140822ABU	K45KS-D	BILLINGS MT	164.6	LIC	BLDTL
45 -20100709AGO	K45K0-D	CASTLE ROCK, ETC. MT	136.2	LIC	BLDTL
45 -20100505AGZ	K45MG-D	SAINT XAVIER MT	115.9	CP	BNPDTL
45 -20100505AIC	K45LZ-D	GILLETTE WY	105.6	CP	BNPDTL
45	K45MA-D	MOORCROFT WY	192.9	CP	BNPDTL

-20100505AIM					
46	K46LA-D	HOWARD MT	188.9	LIC	BLDTT
-20120611ACT					
46	K46LY-D	LIVINGSTON MT	289.9	LIC	BLDTT
-20120619ACC					
46	K46BX-D	PHILLIPS COUNTY MT	384.7	LIC	BLDTT
-20111116ATS					
46	K46K0-D	THREE FORKS MT	371.9	LIC	BLDTL
-20131206ARR					
46	K46MQ-D	BELFIELD ND	399.5	CP	BNPDTL
-20100506ACI					
46	K46L0-D	DEADWOOD SD	270.5	CP	BNPDTL
-20100505AJG					
46	K46MS-D	GILLETTE WY	105.5	CP	BNPDTL
-20100505AID					
46	K46LM-D	GLENROCK WY	216.5	CP	BNPDTL
-20100510ACY					
47	K47MT-D	FORSYTH MT	185.3	CP	BDCCDTT
-20100608AJF					
47	K47NU-D	FORSYTH MT	185.3	LIC	BLDTT
-20120611ACP					
47	K47NN-D	LAUREL MT	157.1	CP	BNPDTL
-20100505AGV					
47	K47NK-D	WORDON MT	170.6	CP	BNPDTL
-20100510ABV					
47	K47AD-D	CODY, ETC WY	137.4	LIC	BLDTT
-20120614ABI					
49	K49AI	CODY, POWELL * WY	137.4	LIC	BLTT
-19810318JS					
53	DK53AL	CODY, ETC. WY	137.8	LIC	BLTT
-19800519IG					

%%
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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
45	K45KS-D	BILLINGS MT	BLDTL	-20140822ABU

Stations Potentially Affecting This Station

Chan Ref. No.	Call	City/State	Dist(km)	Status	Application
44	K44LU-D	WORDON MT	47.3	CP	BNPDTL
-20100510ABU					
45	DK45EB	BOZEMAN, ETC. MT	219.0	LIC	BLTTL

-19950815JF					
45	K45K0-D	CASTLE ROCK, ETC. MT	120.0	LIC	BLDTL
-20100709AGO					
45	KTGF	GREAT FALLS MT	301.5	LIC	BLCDD
-20101222AAH					
45	K45CS-D	LEWISTOWN MT	177.5	LIC	BLDTL
-20090824AIM					
45	K45MG-D	SAINT XAVIER MT	52.6	CP	BNPDTL
-20100505AGZ					
46	K46LS	SHERIDAN WY	164.6	APP	USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

##

Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
45	K45K0-D	CASTLE ROCK, ETC. MT	BLDTL	-20100709AGO

Stations Potentially Affecting This Station

Chan Ref. No.	Call	City/State	Dist(km)	Status	Application
44	K44LA-D	GREAT FALLS MT	90.6	CP	BNPDTL
-20100505AHE					
44	K44DM	HOWARD MT	54.9	LIC	BLTT
-19920413JF					
44	K44LU-D	WORDON MT	85.4	CP	BNPDTL
-20100510ABU					
45	K45KS-D	BILLINGS MT	120.0	LIC	BLDTL
-20140822ABU					
45	KTGF	GREAT FALLS MT	391.6	LIC	BLCDD
-20101222AAH					
45	K45MG-D	SAINT XAVIER MT	83.4	CP	BNPDTL
-20100505AGZ					
46	K46LA-D	HOWARD MT	53.8	LIC	BLDTT
-20120611ACT					
46	K46LS	SHERIDAN WY	136.2	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.
45	K45MG-D	SAINT XAVIER MT	BNPDTL	-20100505AGZ

Stations Potentially Affecting This Station

Chan Ref. No.	Call	City/State	Dist(km)	Status	Application
44 -20100505AHE	K44LA-D	GREAT FALLS MT	49.1	CP	BNPDTL
44 -20100510ABU	K44LU-D	WORDON MT	57.9	CP	BNPDTL
45 -20140822ABU	K45KS-D	BILLINGS MT	52.6	LIC	BLDTL
45 -20100709AGO	K45KO-D	CASTLE ROCK, ETC. MT	83.4	LIC	BLDTL
45 -20101222AAH	KTGF	GREAT FALLS MT	353.0	LIC	BLCDT
46	K46LS	SHERIDAN WY	115.9	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.
45	K45LZ-D	GILLETTE WY	BNPDTL	-20100505AIC

Stations Potentially Affecting This Station

Chan Ref. No.	Call	City/State	Dist(km)	Status	Application
45 -20100709AGO	K45KO-D	CASTLE ROCK, ETC. MT	196.9	LIC	BLDTL
45 -20100505AIM	K45MA-D	MOORCROFT WY	93.9	CP	BNPDTL
46 -20100505AID	K46MS-D	GILLETTE WY	0.0	CP	BNPDTL
46	K46LS	SHERIDAN WY	105.6	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.
45	K45MA-D	MOORCROFT WY	BNPDTL	-20100505AIM

Stations Potentially Affecting This Station

Chan Ref. No.	Call	City/State	Dist(km)	Status	Application
45 -20100505AIC	K45LZ-D	GILLETTE WY	93.9	CP	BNPDTL
46	K46LS	SHERIDAN WY	192.9	APP	USERRECORD-01

Proposed station is beyond the site to nearest cell evaluation distance

##

Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
46	K46LA-D	HOWARD MT	BLDTT	-20120611ACT

Stations Potentially Affecting This Station

Chan Ref. No.	Call	City/State	Dist(km)	Status	Application
45 -20100709AGO	K45K0-D	CASTLE ROCK, ETC. MT	53.8	LIC	BLDTL
47 -20100608AJF	K47MT-D	FORSYTH MT	25.7	CP	BDCCDTT
47 -20120611ACP	K47NU-D	FORSYTH MT	25.7	LIC	BLDTT
46	K46LS	SHERIDAN WY	188.9	APP	USERRECORD-01

Proposal causes no interference

##

Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
46	K46LY-D	LIVINGSTON MT	BLDTT	-20120619ACC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application
Ref. No.					
45	DK45EB	BOZEMAN, ETC. MT	56.6	LIC	BLTTL
-19950815JF					
46	K46K0-D	THREE FORKS MT	82.4	LIC	BLDTL
-20131206ARR					
46	K46LS	SHERIDAN WY	289.9	APP	USERRECORD-01
Proposal causes no interference					

##

Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
46	K46BX-D	PHILLIPS COUNTY MT	BLDTT	-20111116ATS

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application
Ref. No.					
46	K46LS	SHERIDAN WY	384.7	APP	USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

##

Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
46	K46K0-D	THREE FORKS MT	BLDTL	-20131206ARR

Stations Potentially Affecting This Station

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

45	K45MX-D	BOULDER MT	70.3	CP	BNPDTL
-20100609AIU					
45	DK45EB	BOZEMAN, ETC. MT	28.0	LIC	BLTTL
-19950815JF					
46	K46MF-D	MONIDA ID	145.4	CP	BNPDTL
-20100609AIB					
46	NEW	KALISPELL MT	327.2	APP	BPRM
-20101221ADR					
46	KUKL-TV	KALISPELL MT	327.2	LIC	BLEDT
-20121211ABR					
46	K46LY-D	LIVINGSTON MT	82.4	LIC	BLDTT
-20120619ACC					
46	K46LS	SHERIDAN WY	371.9	APP	USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

##

Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
46	K46MQ-D	BELFIELD ND	BNPDTL	-20100506ACI

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application
Ref. No.					
46	K46ME-D	WILLISTON ND	143.0	CP	BNPDTL
-20100609AFH					
46	K46LS	SHERIDAN WY	399.5	APP	USERRECORD-01
Proposal causes no interference					

##

Analysis of Interference to Affected Station 11

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
46	K46LO-D	DEADWOOD SD	BNPDTL	-20100505AJG

Stations Potentially Affecting This Station

Chan Ref. No.	Call	City/State	Dist(km)	Status	Application
47	K47N0-D	SUNDANCE WY	55.3	CP	BNPDTL
-20100505AIO					
46	K46LS	SHERIDAN WY	270.5	APP	USERRECORD-01
		Proposal causes no interference			

##

Analysis of Interference to Affected Station 12

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
46	K46MS-D	GILLETTE WY	BNPDTL	-20100505AID

Stations Potentially Affecting This Station

Chan Ref. No.	Call	City/State	Dist(km)	Status	Application
45	K45LZ-D	GILLETTE WY	0.0	CP	BNPDTL
-20100505AIC					
46	K46LO-D	DEADWOOD SD	175.5	CP	BNPDTL
-20100505AJG					
46	K46LM-D	GLENROCK WY	146.4	CP	BNPDTL
-20100510ACY					
46	K46LS	SHERIDAN WY	105.5	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.
46	K46LM-D	GLENROCK WY	BNPDTL	-20100510ACY

Stations Potentially Affecting This Station

Chan Ref. No.	Call	City/State	Dist(km)	Status	Application
46	K46MS-D	GILLETTE WY	146.4	CP	BNPDTL
-20100505AID					
47	K47MW-D	CASPER WY	43.8	LIC	BLDTT

-20101217AAS
46 K46LS SHERIDAN WY 216.5 APP USERRECORD-01
Proposal causes no interference

##

Analysis of Interference to Affected Station 14

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
47	K47MT-D	FORSYTH MT	BDCCDTT	-20100608AJF

Stations Potentially Affecting This Station

Chan Ref. No.	Call	City/State	Dist(km)	Status	Application
46 -20120611ACT	K46LA-D	HOWARD MT	25.7	LIC	BLDTT
47 -20120611ACP	K47NU-D	FORSYTH MT	0.0	LIC	BLDTT
47 -20100510ABV	K47NK-D	WORDON MT	103.9	CP	BNPDTL
48 -20120611ACS	K48MI-D	HOWARD MT	25.7	LIC	BLDTT
46	K46LS	SHERIDAN WY	185.3	APP	USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

##

Analysis of Interference to Affected Station 15

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
47	K47NU-D	FORSYTH MT	BLDTT	-20120611ACP

Stations Potentially Affecting This Station

Chan Ref. No.	Call	City/State	Dist(km)	Status	Application
46 -20120611ACT	K46LA-D	HOWARD MT	25.7	LIC	BLDTT
47	K47MT-D	FORSYTH MT	0.0	CP	BDCCDTT

-20100608AJF					
47	K47NK-D	WORDON MT	103.9	CP	BNPDTL
-20100510ABV					
48	K48MI-D	HOWARD MT	25.7	LIC	BLDTT
-20120611ACS					
46	K46LS	SHERIDAN WY	185.3	APP	USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

##

Analysis of Interference to Affected Station 16

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
47	K47NN-D	LAUREL MT	BNPDTL	-20100505AGV

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application
Ref. No.					
47	K47NK-D	WORDON MT	75.0	CP	BNPDTL
-20100510ABV					
47	K47AD-D	CODY, ETC WY	107.1	LIC	BLDTT
-20120614ABI					
48	K48IQ	BILLINGS MT	28.6	LIC	BLTT
-20070326AAS					
46	K46LS	SHERIDAN WY	157.1	APP	USERRECORD-01

Proposal causes no interference

##

Analysis of Interference to Affected Station 17

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
47	K47NK-D	WORDON MT	BNPDTL	-20100510ABV

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application
Ref. No.					
47	K47NU-D	FORSYTH MT	103.9	LIC	BLDTT

-20120611ACP					
47	K47NN-D	LAUREL MT	75.0	CP	BNPDTL
-20100505AGV					
47	K47AD-D	CODY, ETC WY	174.5	LIC	BLDTT
-20120614ABI					
46	K46LS	SHERIDAN WY	170.6	APP	USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

##

Analysis of Interference to Affected Station 18

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
47	K47AD-D	CODY, ETC WY	BLDTT	-20120614ABI

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application
Ref. No.					
47	K47NN-D	LAUREL MT	107.1	CP	BNPDTL
-20100505AGV					
47	K47LK-D	DUBOIS, ETC. WY	138.1	LIC	BLDTT
-20071211ABZ					
46	K46LS	SHERIDAN WY	137.4	APP	USERRECORD-01

Proposal causes no interference

##

Analysis of Interference to Affected Station 19

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
49	K49AI	CODY, POWELL * WY	BLTT	-19810318JS

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application
Ref. No.					
50	K50MY-D	CODY WY	0.0	LIC	BLDTT
-20130215AA0					
46	K46LS	SHERIDAN WY	137.4	APP	USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

##

Analysis of Interference to Affected Station 20

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
53	DK53AL	CODY, ETC. WY	BLTT	-19800519IG

Stations Potentially Affecting This Station

Chan Ref. No.	Call	City/State	Dist(km)	Status	Application
46	K46LS	SHERIDAN WY	137.8	APP	USERRECORD-01

Proposed station is beyond the site to
nearest cell evaluation distance

##

Analysis of Interference to Affected Station 21

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
46	K46LS	SHERIDAN WY	USERRECORD-01	

Stations Potentially Affecting This Station

Chan Ref. No.	Call	City/State	Dist(km)	Status	Application
46 -20100505AID	K46MS-D	GILLETTE WY	105.5	CP	BNPDTL

Total scenarios = 1

Result key: 1
Scenario 1 Affected station 21
Before Analysis

Results for: 46A WY SHERIDAN USERRECORD01 APP

HAAT 416.0 m, ATV ERP 3.0 kW		
	POPULATION	AREA (sq km)
within Noise Limited Contour	23842	2296.8
not affected by terrain losses	22967	2196.3
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

##

FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED