

OET-69 Interference Analysis (Proposed KOTA-LD, Rapid City, SD, Ch. 18)

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
/export/home/cdbs/pt_tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 08-22-2013

Record Selected for Analysis

KOTA-LD USERRECORD-01 RAPID CITY SD US
Channel 18 ERP 15. kW HAAT 194. m RCAMSL 01303 m STRINGENT MASK
Latitude 044-04-07 Longitude 0103-15-03
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 0.20 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	250.3	52.630	
45.0	15.000	319.6	56.477	
90.0	15.000	329.1	56.978	
135.0	15.000	309.8	55.949	
180.0	15.000	150.4	46.753	
225.0	15.000	56.2	36.207	
270.0	15.000	37.0	31.270	
315.0	15.000	99.3	42.626	

Contour Overlap to Proposed Station

Contour Overlap Evaluation to Proposed Station Complete

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	ARN
Call	City/State	
18	KOTA-LD RAPID CITY SD	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
17	K17JL-D	RAPID CITY SD	0.2	CP	BNPDTL	-20090825AVJ
17	K17KT-D	SUNDANCE WY	99.7	CP	BNPDTL	-20100505AII
18	K18KH-D	JULESBURG CO	358.8	LIC	BLDTT	-20120430AAK

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18	K18FN-D	PEETZ CO	353.1	LIC	BLDTT	-20110928AKM
18	K18GM-D	PLEASANT VALLEY CO	406.4	LIC	BLDTT	-20110613AAT
18	K18JE-D	BROADUS MT	223.4	LIC	BLDTT	-20130530ALQ
18	K18CR	CIRCLE MT	392.5	CP	BDFCDTT	-20110815AAK
18	K18CR	CIRCLE, ETC. MT	394.8	LIC	BLTT	-19900806IW
18	K18DH	BROKEN BOW NE	404.3	LIC	BLTT	-19901210JL
18	K18JQ-D	CASPER WY	289.7	CP	BNPDTL	-20100324ACH
18	K18JZ-D	ROZET WY	157.8	CP	BNPDTL	-20100505AIE
18	K18JY-D	SHERIDAN WY	299.3	CP	BNPDTL	-20100505AHJ
18	K18JD-D	TORRINGTON WY	234.2	LIC	BLDTT	-20110415ABJ
19	K19CG	BELLE FOURCHE SD	80.7	CP	BDFCDTT	-20091106ACS
19	K19CG	BELLE FOURCHE SD	80.7	LIC	BLDTT	-20101130AKH
19	K19KI-D	WASTA SD	69.7	CP	BNPDTL	-20100510AHJ
19	K19IQ-D	LUSK WY	173.4	CP	BNPDTT	-20090827AAI

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application Ref. No.
17	K17JL-D	RAPID CITY SD	BNPDTL -20090825AVJ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
16	KCLO-TV	RAPID CITY SD	0.0	LIC	BLCDDT -20060207ABK
17	KBMY	BISMARCK ND	338.7	LIC	BLCDDT -20090701ADJ
17	KTWO-TV	CASPER WY	291.3	LIC	BLCDDT -20110315ABB
17	K17KT-D	SUNDANCE WY	99.7	CP	BNPDTL -20100505AII
18	KOTA-LD	RAPID CITY SD	0.2	APP	USERRECORD-01

Total scenarios = 1

Result key: 1
 Scenario 1 Affected station 1
 Before Analysis

Results for: 17A SD RAPID CITY BNPDTL 20090825AVJ CP

HAAT	276.0 m, ATV ERP	3.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour			100691	4840.9
not affected by terrain losses			100635	4821.2
lost to NTSC IX			0	0.0
lost to additional IX by ATV			30	49.3
lost to ATV IX only			30	49.3
lost to all IX			30	49.3

Potential Interfering Stations Included in above Scenario 1

16A SD RAPID CITY	BLCDDT	20060207ABK	LIC
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After Analysis

Results for: 17A SD RAPID CITY BNPDTL 20090825AVJ CP

HAAT	276.0 m, ATV ERP	3.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour			100691	4840.9
not affected by terrain losses			100635	4821.2
lost to NTSC IX			0	0.0
lost to additional IX by ATV			1893	1574.5
lost to ATV IX only			1893	1574.5
lost to all IX			1893	1574.5

Potential Interfering Stations Included in above Scenario 1

16A SD RAPID CITY	BLCDDT	20060207ABK	LIC
18A SD RAPID CITY	USERRECORD01		APP

Percent new IX = 1.8518%

Worst case new IX 1.8518% Scenario 1

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application Ref. No.
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OET-69 Interference Analysis (Proposed KOTA-LD, Rapid City, SD, Ch. 18)

17 K17KT-D SUNDANCE WY BNPDTL -20100505AII

Stations Potentially Affecting This Station

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.
18	K18KH-D	JULESBURG CO	BLDTT -20120430AAK

Stations Potentially Affecting This Station

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.
18	K18FN-D	PEETZ CO	BLDTT -20110928AKM

Stations Potentially Affecting This Station

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.
18	K18GM-D	PLEASANT VALLEY CO	BLDTT -20110613AAT

Stations Potentially Affecting This Station

18	KOTA-LD	RAPID CITY SD	406.4	APP	USERRECORD-01
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Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application Ref. No.
18	K18JE-D	BROADUS MT	BLDTT -20130530ALQ

Stations Potentially Affecting This Station

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.
18	K18CR	CIRCLE MT	BDFCDTT -20110815AAK

Stations Potentially Affecting This Station

Proposed station is beyond the site to nearest cell evaluation distance

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OET-69 Interference Analysis (Proposed KOTA-LD, Rapid City, SD, Ch. 18)

Analysis of Interference to Affected Station 8

Analysis of current record
Channel Call City/State Application Ref. No.
18 K18CR CIRCLE, ETC. MT BLTT -19900806IW

Stations Potentially Affecting This Station

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 9

Analysis of current record
Channel Call City/State Application Ref. No.
18 K18DH BROKEN BOW NE BLTT -19901210JL

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 10

Analysis of current record
Channel Call City/State Application Ref. No.
18 K18JQ-D CASPER WY BNPDTL -20100324ACH

Stations Potentially Affecting This Station

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.
18 K18JZ-D ROZET WY BNPDTL -20100505AIE

Stations Potentially Affecting This Station

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.
18 K18JY-D SHERIDAN WY BNPDTL -20100505AHJ

Stations Potentially Affecting This Station

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.
18 K18JD-D TORRINGTON WY BLDTT -20110415ABJ

Stations Potentially Affecting This Station

Proposal causes no interference

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OET-69 Interference Analysis (Proposed KOTA-LD, Rapid City, SD, Ch. 18)

Analysis of Interference to Affected Station 14

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
19	K19CG	BELLE FOURCHE SD	BDFCDTT	-20091106ACS

Stations Potentially Affecting This Station

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.
19	K19CG	BELLE FOURCHE SD	BLDDTT	-20101130AKH

Stations Potentially Affecting This Station

Proposal causes no interference

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Analysis of Interference to Affected Station 16

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
19	K19KI-D	WASTA SD	BNPDTL	-20100510AHJ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
19	KXMA-TV	DICKINSON ND	301.2	LIC	BLCDT	-20090715AHZ
19	KPRY-TV	PIERRE SD	183.4	LIC	BLCDT	-20080806AAT
20	K20KI-D	RAPID CITY SD	69.6	CP	BNPDTL	-20090825AUY
18	KOTA-LD	RAPID CITY SD	69.7	APP	USERRECORD-01	

Total scenarios = 1

Result key: 2

Scenario 1 Affected station 16

Before Analysis

Results for: 19A SD WASTA BNPDTL 20100510AHJ CP

HAAT	177.0 m, ATV ERP	1.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour			1751	2955.4
not affected by terrain losses			1748	2936.7
lost to NTSC IX			0	0.0
lost to additional IX by ATV			59	215.0
lost to ATV IX only			59	215.0
lost to all IX			59	215.0

Potential Interfering Stations Included in above Scenario 1

19A SD PIERRE BLCDDT 20080806AAT LIC

After Analysis

Results for: 19A SD WASTA BNPDTL 20100510AHJ CP

HAAT	177.0 m, ATV ERP	1.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour			1751	2955.4
not affected by terrain losses			1748	2936.7
lost to NTSC IX			0	0.0
lost to additional IX by ATV			74	253.4
lost to ATV IX only			74	253.4
lost to all IX			74	253.4

Potential Interfering Stations Included in above Scenario 1

19A SD PIERRE BLCDDT 20080806AAT LIC
 18A SD RAPID CITY USERRECORD01 APP

Percent new IX = 0.8881%

OET-69 Interference Analysis (Proposed KOTA-LD, Rapid City, SD, Ch. 18)

Worst case new IX 0.8881% Scenario 1

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Analysis of Interference to Affected Station 17

Analysis of current record

Channel	Call	City/State	Application Ref. No.
19	K19IQ-D	LUSK WY	BNPDTT -20090827AAI

Stations Potentially Affecting This Station

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 18

Analysis of current record

Channel	Call	City/State	Application Ref. No.
18	KOTA-LD	RAPID CITY SD	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
17	K17JL-D	RAPID CITY SD	0.2	CP	BNPDTL -20090825AVJ
19	K19KI-D	WASTA SD	69.7	CP	BNPDTL -20100510AHJ

Total scenarios = 1

Result key: 3
 Scenario 1 Affected station 18
 Before Analysis

Results for: 18A SD RAPID CITY USERRECORD01 APP

HAAT 194.0 m, ATV ERP 15.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	112179	8040.4
not affected by terrain losses	109665	7946.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	21	42.4
lost to ATV IX only	21	42.4
lost to all IX	21	42.4

Potential Interfering Stations Included in above Scenario 1

19A SD WASTA BNPDTL 20100510AHJ CP

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