

OET-69 Interference Analysis (KOTA-TV, Rapid City, SD, Channel 2)

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/cdb/pt_tvdb.sff

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 08-22-2013

Record Selected for Analysis

KOTA-TV USERRECORD-01 RAPID CITY SD US
Channel 02 ERP 18.2 kW HAAT 216. m RCAMSL 01325 m
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 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility (site # 01) meets maximum height/power limits

Site number	1			
Azimuth	ERP	HAAT	28.0	dBu F(50,90)
(Deg)	(kW)	(m)		(km)
0.0	18.200	272.3		111.082
45.0	18.200	341.6		115.096
90.0	18.200	351.1		115.375
135.0	18.200	331.8		114.808
180.0	18.200	172.4		100.308
225.0	18.200	78.2		84.460
270.0	18.200	59.0		79.216
315.0	18.200	121.3		92.961

Evaluation toward Class A Stations from site # 01

No Spacing violations or contour overlap
to Class A stations from site # 01

Class A Evaluation 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

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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
02	KOTA-TV	RAPID CITY SD	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
02	KNOP-TV	NORTH PLATTE NE	379.2	LIC	BLCDT	20110609ABG

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
02	KNOP-TV	NORTH PLATTE NE	BLCDT	-20110609ABG

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
02	KOTA-TV	RAPID CITY SD	379.2	PLN	DTVPLN	-DTVP0006
02	KOTA-TV	RAPID CITY SD	379.2	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.
02	KOTA-TV	RAPID CITY SD	USERRECORD-01	

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
02	KNOP-TV	NORTH PLATTE NE	379.2	LIC	BLCDT	-20110609ABG

Total scenarios = 1

Result key: 1

Scenario 1 Affected station 2

Before Analysis

Results for: 2A SD RAPID CITY USERRECORD01 APP
HAAT 216.0 m, ATV ERP 18.2 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	165753	33271.5
not affected by terrain losses	164044	32402.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	102	24.0

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lost to ATV IX only	102	24.0
lost to all IX	102	24.0

Potential Interfering Stations Included in above Scenario 1

2A NE NORTH PLATTE BLCDT 20110609ABG LIC

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