

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 06-10-2008 Time: 16:08:56

Record Selected for Analysis

KCSDTV.C USERRECORD-01 SIOUX FALLS SD US
Channel 23 ERP 80.9 kW HAAT 76. m RCAMSL 00512 m
Latitude 043-34-28 Longitude 0096-39-18
Status APP Zone 2 Border Offset Z
Dir Antenna Make usr Model USRPAT01 Beam tilt N Ref Azimuth 0.
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 meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	64.0 dBu F(50,50) (km)
0.0	80.900	60.1	32.4
45.0	80.900	85.4	36.6
90.0	80.900	96.5	38.1
135.0	80.900	97.4	38.2
180.0	80.900	76.8	35.2
225.0	80.900	64.9	33.3
270.0	80.900	68.0	33.8
315.0	80.900	57.9	32.0

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

No spacing violations found to other full service stations

LANDMOBILE SPACING VIOLATIONS FOUND

NONE

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quite 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
23	KCSDTV.C	SIOUX FALLS SD	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
23	KPWB-TV	AMES IA	315.0	LIC	BDTV	-0459
24	KCSD-TV	SIOUX FALLS SD	0.0	LIC	BDTV	-1439

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
23	KPWB-TV	AMES IA	BDTV	-0459

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
22	KWWF	WATERLOO IA	147.5	LIC	BDTV	-0490
22	WOWT-TV	OMAHA NE	208.6	LIC	BDTV	-1040
23	WIFR	FREEDPORT IL	370.4	LIC	BDTV	-0533
23	WQPT-TV	MOLINE IL	275.2	LIC	BDTV	-0541
23	KCSDTV.C	SIOUX FALLS SD	315.0	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.
24	KCSD-TV	SIOUX FALLS SD	BDTV	-1439

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
25	KTIN	FORT DODGE IA	200.3	LIC	BDTV	-0476
23	KCSDTV.C	SIOUX FALLS SD	0.0	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.
23	KCSDTV.C	SIOUX FALLS SD	USERRECORD-01	

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
15	KSMN	WORTHINGTON MN	67.2	LIC	BDTV	-0847
23	KPWB-TV	AMES IA	315.0	LIC	BDTV	-0459
24	KCSD-TV	SIOUX FALLS SD	0.0	LIC	BDTV	-1439
27	KRWF	REDWOOD FALLS MN	137.4	LIC	BDTV	-0838

Total scenarios = 1

Result key: 1
 Scenario 1 Affected station 3
 Before Analysis

Results for: 23N SD SIOUX FALLS		USERRECORD01	APP
	POPULATION	AREA (sq km)	
within Noise Limited Contour	183048	4287.7	
not affected by terrain losses	183048	4287.7	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	0	0.0	
lost to all IX	0	0.0	

Potential Interfering Stations Included in above Scenario 1

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