

Census data selected 2000

Post Transition Data Base Selected
/space/software/cdbb/tvdb.sff_G
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 06-25-2009 Time: 21:43:03

Record Selected for Analysis

KIIN USERRECORD-01 IOWA CITY IA US
Channel 12 ERP 42. kW HAAT 434. m RCAMSL 00669 m
Latitude 041-43-15 Longitude 0091-20-29
Status APP Zone 2 Border
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)	36.0 dBu F(50,90) (km)
0.0	42.000	431.2	114.9
45.0	42.000	430.4	114.8
90.0	42.000	438.5	115.6
135.0	42.000	442.3	115.9
180.0	42.000	442.4	115.9
225.0	42.000	442.0	115.9
270.0	42.000	433.9	115.1
315.0	42.000	412.1	113.0

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

KIIN 12 IOWA CITY IA USERRECORD01

and station

SHORT TO: KIIN 12 IOWA CITY IA BDTV 00000107
41-43-15 91-20-30
Req. separation 273.6 Actual separation 0.0 Short 273.6 km

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
12	KIIN	IOWA CITY IA	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	KDIN-TV	DES MOINES IA	188.7	CP	BDTV	-00000090
11	WMSN-TV	MADISON WI	209.8	CP	BPCDT	-19991101AIM
12	WBBM-TV	CHICAGO IL	307.5	CP	BFRCTT	-20050303AAG
12	KEYC-TV	MANKATO MN	351.0	CP MOD	BMPCDT	-20010223AAQ
12	KRCG	JEFFERSON CITY MO	342.7	LIC	BLCDT	-20030709ABP
13	WHO-TV	DES MOINES IA	188.9	CP	BPCDT	-19990805LD
13	WREXTV	ROCKFORD IL	185.0	LIC	BLCT	-1372
12	KEYC	MANKATO MN	351.1	APP	USERRECORD-02	

Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application Ref. No.
12	KEYC	MANKATO MN	USERRECORD-02

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
11	KARE	MINNEAPOLIS MN	160.6	LIC	BLCDT	-20010917ABZ
11	KELO-TV	SIOUX FALLS SD	176.8	LIC	BLCDT	-20030417AAE
12	KCCW-TV	WALKER MN	333.1	CP	BDTV	-00000097
12	KUON-TV	LINCOLN NE	353.2	CP	BDTV	-00000106
12	KTTM	HURON SD	313.3	CP	BPCDT	-19991029ADD
13	KSFY-TV	SIOUX FALLS SD	176.8	CP	BDTV	-00000121
12	KIIN	IOWA CITY IA	351.1	APP	USERRECORD-01	

Total scenarios = 1

Result key: 1

Scenario 1 Affected station 8

Before Analysis

Results for: 12A MN MANKATO USERRECORD02 APP

HAAT 316.0 m, ATV ERP 52.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	520659	35935.6
not affected by terrain losses	514892	35598.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2095	76.3
lost to ATV IX only	2095	76.3
lost to all IX	2095	76.3

Potential Interfering Stations Included in above Scenario 1

11A MN MINNEAPOLIS	BLCDT	20010917ABZ	LIC
12A MN WALKER	BDTV	00000097	CP
12A NE LINCOLN	BDTV	00000106	CP
12A SD HURON	BPCDT	19991029ADD	CP

After Analysis

Results for: 12A MN MANKATO USERRECORD02 APP

HAAT 316.0 m, ATV ERP 52.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	520659	35935.6
not affected by terrain losses	514892	35598.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4231	257.0
lost to ATV IX only	4231	257.0
lost to all IX	4231	257.0

Potential Interfering Stations Included in above Scenario 1

11A MN MINNEAPOLIS	BLCDT	20010917ABZ	LIC
12A MN WALKER	BDTV	00000097	CP
12A NE LINCOLN	BDTV	00000106	CP
12A SD HURON	BPCDT	19991029ADD	CP
12A IA IOWA CITY	USERRECORD01		APP

Percent new IX = 0.4165%

Worst case new IX 0.4165% Scenario 1

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