

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 06-10-2008 Time: 12:03:38

Record Selected for Analysis

KPNE-D USERRECORD-01 NORTH PLATTE NE US
 Channel 09 ERP 85. kW HAAT 335. m RCAMSL 01296 m
 Latitude 041-01-22 Longitude 0101-09-14
 Status APP Zone 2 Border
 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)	36.0 dBu F(50,90) (km)
0.0	85.000	366.1	115.4
45.0	84.321	358.3	114.7
90.0	82.804	341.6	113.2
135.0	80.307	323.0	111.4
180.0	79.647	320.9	111.2
225.0	77.441	309.9	110.0
270.0	78.010	312.8	110.3
315.0	83.309	347.3	113.7

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

KPNE-D 09 NORTH PLATTE NE USERRECORD01

and station

SHORT TO: KPNE-TV 09 NORTH PLATTE NE BDTV 1036
 41 -01-16 101 -09-10
 Req. separation 273.6 Actual separation 0.2 Short 273.4 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

	Proposed Station			
Channel	Call	City/State	ARN	
09	KPNE-D	NORTH PLATTE NE	USERRECORD01	

Stations Potentially Affected by Proposed Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
09	KUSA-TV	DENVER CO	373.9	LIC	BDTV	-0238
10	KBSL-TV	GOODLAND KS	176.0	LIC	BDTV	-0609
09	KUSA-D.C	DENVER CO	373.9	APP	USERRECORD-02	

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
09	KUSA-TV	DENVER CO	BDTV	-0238

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
08	KTSC	PUEBLO CO	114.0	LIC	BDTV	-0260
08	KWYP-TV	LARAMIE WY	174.1	LIC	BDTV	-1806
09	KFNR	RAWLINS WY	282.9	LIC	BDTV	-1807
10	KKTV	COLORADO SPRINGS CO	114.1	LIC	BDTV	-0234
10	KMAS-TV	STEAMBOAT SPRINGS CO	159.8	LIC	BDTV	-0263
09	KPNE-D	NORTH PLATTE NE	373.9	APP	USERRECORD-01	

Total scenarios = 1

Result key: 1
 Scenario 1 Affected station 1
 Before Analysis

Results for: 9A CO DENVER BDTV 0238 LIC

HAAT 318.0 m, ATV ERP 39.6 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3082101	29137.0
not affected by terrain losses	2978648	26103.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	52835	307.7
lost to ATV IX only	52835	307.7
lost to all IX	52835	307.7

Potential Interfering Stations Included in above Scenario 1

8A CO PUEBLO	BDTV	0260	LIC
10A CO COLORADO SPRINGS	BDTV	0234	LIC

After Analysis

Results for: 9A CO DENVER BDTV 0238 LIC
 HAAT 318.0 m, ATV ERP 39.6 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3082101	29137.0
not affected by terrain losses	2978648	26103.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	52870	459.6
lost to ATV IX only	52870	459.6
lost to all IX	52870	459.6

Potential Interfering Stations Included in above Scenario 1

8A CO PUEBLO	BDTV	0260	LIC
10A CO COLORADO SPRINGS	BDTV	0234	LIC
9A NE NORTH PLATTE	USERRECORD01		APP
*Percent Service lost without proposal:	0.0	to BDTV	0238
*Percent Service lost with proposal:	0.0	to BDTV	0238

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
10	KBSL-TV	GOODLAND KS	BDTV	-0609

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application	Ref.
10	KKTU	COLORADO SPRINGS CO	296.3	LIC	BDTV	-0234
10	KAKE-TV	WICHITA KS	397.5	LIC	BDTV	-0627
10	KOLN	LINCOLN NE	400.2	LIC	BDTV	-1029
11	KSNG	GARDEN CITY KS	197.2	LIC	BDTV	-0607
09	KPNE-D	NORTH PLATTE NE	176.0	APP	USERRECORD-01	

Total scenarios = 1

Result key: 2
 Scenario 1 Affected station 2

Before Analysis

Results for: 10A KS GOODLAND BDTV 0609 LIC
 HAAT 285.0 m, ATV ERP 34.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	46942	30083.6
not affected by terrain losses	45544	29713.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	7	32.1
lost to ATV IX only	7	32.1
lost to all IX	7	32.1

Potential Interfering Stations Included in above Scenario 1

10A CO COLORADO SPRINGS BDTV 0234 LIC

After Analysis

Results for: 10A KS GOODLAND BDTV 0609 LIC
 HAAT 285.0 m, ATV ERP 34.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	46942	30083.6
not affected by terrain losses	45544	29713.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	17	36.2
lost to ATV IX only	17	36.2
lost to all IX	17	36.2

Potential Interfering Stations Included in above Scenario 1

10A CO COLORADO SPRINGS BDTV 0234 LIC
 9A NE NORTH PLATTE USERRECORD01 APP

*Percent Service lost without proposal:	0.0	to BDTV	0609
*Percent Service lost with proposal:	0.0	to BDTV	0609

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application Ref. No.
09	KUSA-D.C	DENVER CO	USERRECORD-02

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
08	KTSC	PUEBLO CO	114.1	LIC	BDTV -0260
08	KWYP-TV	LARAMIE WY	174.0	LIC	BDTV -1806
09	KFNR	RAWLINS WY	282.9	LIC	BDTV -1807
10	KKTU	COLORADO SPRINGS CO	114.1	LIC	BDTV -0234
10	KMAS-TV	STEAMBOAT SPRINGS CO	159.7	LIC	BDTV -0263
09	KPNE-D	NORTH PLATTE NE	373.9	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
09	KPNE-D	NORTH PLATTE NE	USERRECORD-01

Stations Potentially Affecting This Station

Chan No.	Call	City/State	Dist(km)	Status	Application Ref.
09	KUSA-TV	DENVER CO	373.9	LIC	BDTV -0238
10	KBSL-TV	GOODLAND KS	176.0	LIC	BDTV -0609
09	KUSA-D.C	DENVER CO	373.9	APP	USERRECORD-02

Total scenarios = 1

Result key: 3
 Scenario 1 Affected station 4
 Before Analysis

Results for: 9A NE NORTH PLATTE USERRECORD01 APP

HAAT 335.0 m, ATV ERP 85.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	93370	39736.8
not affected by terrain losses	84087	38020.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	325	16.1
lost to ATV IX only	325	16.1
lost to all IX	325	16.1

Potential Interfering Stations Included in above Scenario 1

9A CO DENVER BDTV 0238 LIC

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