

kusg-dt_die_thp-cl-4-1.txt

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 10-29-2002 Time: 12:52:56

Record Selected for Analysis

KUSG BPCDT -19991101ACB ST. GEORGE UT US
Channel 09 ERP 3.2 kW HAAT 00043 m RCAMSL 00965 m
Latitude 037-03-48 Longitude 0113-34-23
Status CP Zone 2 Border
Dir Antenna Make CDB Model 00000000018718 Beam tilt N Ref Azimuth 0.0
Last update 00270127 Cutoff date 00051105 Docket
Comments
Applicant KUTV HOLDINGS, INC.

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	1.058	33.0	39.6
45.0	1.995	120.5	65.0
90.0	0.004	33.0	12.2
135.0	0.000	91.4	6.9
180.0	0.000	80.7	6.5
225.0	0.001	109.8	17.4
270.0	1.532	33.0	41.9
315.0	1.040	106.3	58.3

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

KUSG 09 ST. GEORGE UT BPCDT 19991101ACB

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and station

SHORT TO: KCFG 09 FLAGSTAFF AZ BLCT 20001220ACM
035-14-26 0111-35-48
Req. separation 273.6 Actual separation 269.3 Short 4.3 km

SHORT TO: KVVU-DT 09 HENDERSON NV BMPCDT 20010314AAD
036-00-26 0115-00-22
Req. separation 273.6 Actual separation 173.8 Short 99.8 km

SHORT TO: KVVU-TV 09 HENDERSON NV BPRM 20000720AAB
036-00-28 0115-00-24
Req. separation 273.6 Actual separation 173.8 Short 99.8 km

SHORT TO: KUSG-DT 09 ST. GEORGE UT DTVPLN DTVP0057
37-03-49 113-34-20
Req. separation 273.6 Actual separation 0.1 Short 273.5 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
09	KUSG	ST. GEORGE UT	BPCDT 19991101ACB

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
08	KLAS-TV	LAS VEGAS NV	180.7	LIC	BLCT -2128
09	KCFG	FLAGSTAFF AZ	297.8	APP	BPCT -20010706AAQ
09	KCFG	FLAGSTAFF AZ	269.3	LIC	BLCT -20001220ACM
09	KVVU-DT	HENDERSON NV	173.7	CP MOD	BMPCDT -20010314AAD
09	KVVU-TV	HENDERSON NV	173.7		BPRM -20000720AAB

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09	DKBMO-TV	TONOPAH NV	340.0	CP	BPCT	-19970331LW
09	KULC	OGDEN UT	412.6	LIC	BLET	-19861210KF
10	KLVX	LAS VEGAS NV	173.7	LIC	BLET	-211

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Analysis of Interference to Affected Station 1

NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
08	KLASTV	LAS VEGAS NV	DTVPLN	-NPLN1027

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KLAS-DT	LAS VEGAS NV	0.0	PLN	DTVPLN	-DTVP0030
08	KAET	PHOENIX AZ	398.1	PLN	DTVPLN	-NPLN0019
09	KUSG-DT	ST. GEORGE UT	180.8	PLN	DTVPLN	-DTVP0057
08	KFMB-TV	SAN DIEGO CA	400.3	PLN	DTVPLN	-NPLN0120

Results for:	8N NV LAS VEGAS	DTVPLN	NPLN1027	PLN
		POPULATION	AREA (sq km)	
within Noise Limited Contour		805009	44652.0	
not affected by terrain losses		736551	27144.8	
lost to NTSC IX		0	0.0	
lost to additional IX by ATV		0	0.0	
lost to all IX		0	0.0	

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
08	KLAS-TV	LAS VEGAS NV	BLCT	-2128

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KLAS-DT	LAS VEGAS NV	0.0	CP	BPCDT	-20020418AAD
07	KLAS-DT	LAS VEGAS NV	0.0	PLN	DTVPLN	-DTVP0030
07	KLAS-DT	LAS VEGAS NV	0.0	LIC	BLCDT	-20000421ABE
07	KLAS-DT	LAS VEGAS NV	0.0	CP MOD	BMPCDT	-20000203AAJ
08	KAET	PHOENIX AZ	398.1	LIC	BLET	-19840718KF
08	KFMB-TV	SAN DIEGO CA	400.3	LIC	BLCT	-2176
09	KVVU-DT	HENDERSON NV	7.6	CP MOD	BMPCDT	-20010314AAD
09	KVVU-TV	HENDERSON NV	7.6		BPRM	-20000720AAB
09	KUSG	ST. GEORGE UT	180.7	CP	BPCDT	-19991101ACB
09	KUSG-DT	ST. GEORGE UT	180.8	PLN	DTVPLN	-DTVP0057

Proposal causes no interference

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Analysis of Interference to Affected Station 2

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NTSC Baseline Analysis

Channel	Call	City/State	Application	Ref. No.
09	KCFG	FLAGSTAFF AZ	DTVPLN	-NPLN0021

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
08	KAET	PHOENIX AZ	216.3	PLN	DTVPLN	-NPLN0019
09	KUSG-DT	ST. GEORGE UT	269.2	PLN	DTVPLN	-DTVP0057
10	KSAZTV	PHOENIX AZ	216.2	PLN	DTVPLN	-NPLN0025
09	KGUN	TUCSON AZ	324.4	PLN	DTVPLN	-NPLN0121
09	KECYTV	EL CENTRO CA	383.8	PLN	DTVPLN	-NPLN0122

Results for: 9N AZ FLAGSTAFF DTVPLN NPLN0021 PLN

	POPULATION	AREA (sq km)
within Noise Limited Contour	73667	10210.2
not affected by terrain losses	62711	8353.8
lost to NTSC IX	42	208.0
lost to additional IX by ATV	0	0.0
lost to all IX	42	208.0

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
09	KCFG	FLAGSTAFF AZ	BPCT	-20010706AAQ

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
08	KAET	PHOENIX AZ	188.8	LIC	BLET	-19840718KF
09	KGUN	TUCSON AZ	293.1	LIC	BLCT	-2348
09	KECY-TV	EL CENTRO CA	372.5	LIC	BLCT	-19820712KG
09	KVVU-DT	HENDERSON NV	337.0	CP MOD	BMPCDT	-20010314AAD
09	KVVU-TV	HENDERSON NV	337.0		BPRM	-20000720AAB
09	KUSG	ST. GEORGE UT	297.8	CP	BPCDT	-19991101ACB
09	KUSG-DT	ST. GEORGE UT	297.8	PLN	DTVPLN	-DTVP0057
10	KSAZ-TV	PHOENIX AZ	188.6	LIC	BLCT	-19881021KF

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.
09	KCFG	FLAGSTAFF AZ	BLCT	-20001220ACM

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
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08	KAET	PHOENIX AZ	216.3	LIC	BLET	-19840718KF
09	KGUN	TUCSON AZ	324.4	LIC	BLCT	-2348
09	KECY-TV	EL CENTRO CA	383.8	LIC	BLCT	-19820712KG
09	KVVU-DT	HENDERSON NV	319.6	CP MOD	BMPCDT	-20010314AAD
09	KVVU-TV	HENDERSON NV	319.7		BPRM	-20000720AAB
09	KUSG	ST. GEORGE UT	269.3	CP	BPCDT	-19991101ACB
09	KUSG-DT	ST. GEORGE UT	269.2	PLN	DTVPLN	-DTVP0057
10	KSAZ-TV	PHOENIX AZ	216.2	LIC	BLCT	-19881021KF

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	KVVU-DT	HENDERSON NV	BMPCDT -20010314AAD

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
08	KLAS-TV	LAS VEGAS NV	7.6	LIC	BLCT -2128
09	KCFG	FLAGSTAFF AZ	337.0	APP	BPCT -20010706AAQ
09	KCFG	FLAGSTAFF AZ	319.6	LIC	BLCT -20001220ACM
09	KECY-TV	EL CENTRO CA	328.5	LIC	BLCT -19820712KG
09	KFSN-DT	FRESNO CA	412.8	LIC	BLCDT -20010531ACX
09	KFSN-DT	FRESNO CA	412.8	PLN	DTVPLN -DTVP0048
09	KCAL-TV	LOS ANGELES CA	341.4	LIC	BLCT -19911107KP
09	KVVU-TV	HENDERSON NV	0.1		BPRM -20000720AAB
09	DKBMO-TV	TONOPAH NV	300.6	CP	BPCT -19970331LW
09	KUSG	ST. GEORGE UT	173.7	CP	BPCDT -19991101ACB
09	KUSG-DT	ST. GEORGE UT	173.8	PLN	DTVPLN -DTVP0057
10	KLVX	LAS VEGAS NV	0.0	LIC	BLET -211

Proposal causes no interference

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
09	KVVU-TV	HENDERSON NV	BPRM -20000720AAB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
08	KLAS-TV	LAS VEGAS NV	7.6	LIC	BLCT -2128
09	KCFG	FLAGSTAFF AZ	337.0	APP	BPCT -20010706AAQ
09	KCFG	FLAGSTAFF AZ	319.7	LIC	BLCT -20001220ACM

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09	KEYC-TV	EL CENTRO CA	328.6	LIC	BLCT	-19820712KG
09	KFSN-DT	FRESNO CA	412.8	LIC	BLCDT	-20010531ACX
09	KFSN-DT	FRESNO CA	412.7	PLN	DTVPLN	-DTVP0048
09	KCAL-TV	LOS ANGELES CA	341.4	LIC	BLCT	-19911107KP
09	KVVU-DT	HENDERSON NV	0.1	CP MOD	BMPCDT	-20010314AAD
09	DKBMO-TV	TONOPAH NV	300.5	CP	BPCT	-19970331LW
09	KUSG	ST. GEORGE UT	173.7	CP	BPCDT	-19991101ACB
09	KUSG-DT	ST. GEORGE UT	173.7	PLN	DTVPLN	-DTVP0057
10	KLVX	LAS VEGAS NV	0.0	LIC	BLET	-211

Proposal causes no interference

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Analysis of Interference to Affected Station 6

NTSC Baseline Analysis

Channel	Call	City/State	Application Ref. No.
09	NEW	TONOPAH NV	DTVPLN -NPLN1033

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
09	KFSN-DT	FRESNO CA	228.1	PLN	DTVPLN -DTVP0048
09	KUSG-DT	ST. GEORGE UT	338.2	PLN	DTVPLN -DTVP0057

Results for:	9N NV TONOPAH	DTVPLN	NPLN1033	PLN
		POPULATION	AREA (sq km)	
within Noise Limited Contour		4415	8724.9	
not affected by terrain losses		4400	6536.7	
lost to NTSC IX		0	0.0	
lost to additional IX by ATV		0	0.0	
lost to all IX		0	0.0	

Analysis of current record

Channel	Call	City/State	Application Ref. No.
09	DKBMO-TV	TONOPAH NV	BPCT -19970331LW

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
09	KFSN-DT	FRESNO CA	222.7	LIC	BLCDT -20010531ACX
09	KFSN-DT	FRESNO CA	222.7	PLN	DTVPLN -DTVP0048
09	KVVU-DT	HENDERSON NV	300.6	CP MOD	BMPCDT -20010314AAD
09	KVVU-TV	HENDERSON NV	300.5		BPRM -20000720AAB
09	KOLO-TV	RENO NV	270.0	APP	BPRM -20010510AAH
09	KOLO-DT	RENO NV	270.0	APP	BMPCDT -20011205AAQ
09	KUSG	ST. GEORGE UT	340.0	CP	BPCDT -19991101ACB
09	KUSG-DT	ST. GEORGE UT	340.0	PLN	DTVPLN -DTVP0057
10	NEW	TONOPAH NV	0.0	APP	BPRM -20020430ACQ

Proposal causes no interference

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Analysis of Interference to Affected Station 7

NTSC Baseline Analysis

Channel	Call	City/State	Application Ref. No.
09	KULC	OGDEN UT	DTVPLN -NPLN1529

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
09	KIFI-DT	IDAHO FALLS ID	324.1	PLN	DTVPLN -DTVP0050
09	KUSG-DT	ST. GEORGE UT	412.5	PLN	DTVPLN -DTVP0057

Results for: 9N UT OGDEN DTVPLN NPLN1529 PLN

	POPULATION	AREA (sq km)
within Noise Limited Contour	1440889	31407.8
not affected by terrain losses	1374533	21567.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	0	63.8
lost to all IX	0	63.8

Analysis of current record

Channel	Call	City/State	Application Ref. No.
09	KULC	OGDEN UT	BLET -19861210KF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
09	KIFI-DT	IDAHO FALLS ID	324.1	CP	BPCDT -19991019AAZ
09	KIFI-DT	IDAHO FALLS ID	324.1	PLN	DTVPLN -DTVP0050
09	KUSG	ST. GEORGE UT	412.6	CP	BPCDT -19991101ACB
09	KUSG-DT	ST. GEORGE UT	412.5	PLN	DTVPLN -DTVP0057

Proposed station is beyond the site to
nearest cell evaluation distance

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Analysis of Interference to Affected Station 8

NTSC Baseline Analysis

Channel	Call	City/State	Application Ref. No.
10	KLVX	LAS VEGAS NV	DTVPLN -NPLN1038

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
09	KUSG-DT	ST. GEORGE UT	173.8	PLN	DTVPLN -DTVP0057

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10	KSAZTV	PHOENIX AZ	400.9	PLN	DTVPLN	-NPLN0025
10	KERO-DT	BAKERSFIELD CA	329.4	PLN	DTVPLN	-DTVP0059
11	KLVX-DT	LAS VEGAS NV	0.0	PLN	DTVPLN	-DTVP0080
10	KGTV	SAN DIEGO CA	407.8	PLN	DTVPLN	-NPLN0127

Results for: 10N NV LAS VEGAS	DTVPLN	NPLN1038	PLN
	POPULATION	AREA (sq km)	
within Noise Limited Contour	744369	32473.1	
not affected by terrain losses	730036	19620.8	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	0	0.0	
lost to all IX	0	0.0	

Analysis of current record

Channel	Call	City/State	Application Ref. No.
10	KLVX	LAS VEGAS NV	BLET -211

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
09	KVVU-DT	HENDERSON NV	0.0	CP MOD	BMPCDT -20010314AAD
09	KVVU-TV	HENDERSON NV	0.0		BPRM -20000720AAB
09	KUSG	ST. GEORGE UT	173.7	CP	BPCDT -19991101ACB
09	KUSG-DT	ST. GEORGE UT	173.8	PLN	DTVPLN -DTVP0057
10	KSAZ-TV	PHOENIX AZ	400.9	LIC	BLCT -19881021KF
10	KERO-DT	BAKERSFIELD CA	329.5	CP	BPCDT -19991101AFI
10	KERO-DT	BAKERSFIELD CA	329.4	PLN	DTVPLN -DTVP0059
10	KGTV	SAN DIEGO CA	407.8	LIC	BLCT -20011004AAZ
10	NEW	TONOPAH NV	300.6	APP	BPRM -20020430ACQ
11	KLVX-DT	LAS VEGAS NV	0.0	LIC	BLEDT -20020329ADR
11	KLVX-DT	LAS VEGAS NV	0.0	PLN	DTVPLN -DTVP0080

Proposal causes no interference

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Analysis of Interference to Affected Station 9

DTV Baseline Analysis

Channel	Call	City/State	Application Ref. No.
09	KUSG-DT	ST. GEORGE UT	DTVPLN -DTVP0057

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
09	KCFG	FLAGSTAFF AZ	269.2	PLN	DTVPLN -NPLN0021
08	KLASTV	LAS VEGAS NV	180.8	PLN	DTVPLN -NPLN1027
09	NEW	TONOPAH NV	338.2	PLN	DTVPLN -NPLN1033
10	KLVX	LAS VEGAS NV	173.8	PLN	DTVPLN -NPLN1038
09	KULC	OGDEN UT	412.5	PLN	DTVPLN -NPLN1529

Results for: 9A UT ST. GEORGE	DTVPLN	DTVP0057	PLN
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HAAT	42.0 m, ATV ERP	3.2 kW	
		POPULATION	AREA (sq km)
within Noise Limited Contour		44888	2550.8
not affected by terrain losses		44804	2366.9
lost to NTSC IX		0	0.0
lost to additional IX by ATV		0	0.0
lost to ATV IX only		0	0.0
lost to all IX		0	0.0

NTSC Baseline Analysis

Channel	Call	City/State	Application Ref. No.
12	KUSG	ST. GEORGE UT	DTVPLN -NPLN1537

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
11	KLVX-DT	LAS VEGAS NV	173.8	PLN	DTVPLN -DTVP0080
13	KTNV	LAS VEGAS NV	180.8	PLN	DTVPLN -NPLN1048

Results for: 12N UT ST. GEORGE	DTVPLN	NPLN1537	PLN
	POPULATION	AREA (sq km)	
within Noise Limited Contour	42943	1823.1	
not affected by terrain losses	41124	1643.2	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	0	0.0	
lost to all IX	0	0.0	

Analysis of current record

Channel	Call	City/State	Application Ref. No.
09	KUSG	ST. GEORGE UT	BPCDT -19991101ACB

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
08	KLAS-TV	LAS VEGAS NV	180.7	LIC	BLCT -2128
09	KCFG	FLAGSTAFF AZ	297.8	APP	BPCT -20010706AAQ
09	KCFG	FLAGSTAFF AZ	269.3	LIC	BLCT -20001220ACM
09	KVVU-DT	HENDERSON NV	173.7	CP MOD	BMPCDT -20010314AAD
09	KVVU-TV	HENDERSON NV	173.7		BPRM -20000720AAB
09	DKBMO-TV	TONOPAH NV	340.0	CP	BPCT -19970331LW
09	KULC	OGDEN UT	412.6	LIC	BLET -19861210KF
10	KLVX	LAS VEGAS NV	173.7	LIC	BLET -211

Total scenarios = 2

Result key: 1
Scenario 1 Affected station 9
Before Analysis

Results for: 9A UT ST. GEORGE	BPCDT	19991101ACB	CP
HAAT	43.0 m, ATV ERP	3.2 kW	
		POPULATION	AREA (sq km)

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within Noise Limited Contour	45731	5014.5
not affected by terrain losses	45355	3767.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	61	219.8
lost to ATV IX only	61	219.8
lost to all IX	61	219.8

Potential Interferring Stations Included in above Scenario 1

9A NV HENDERSON BMPCDT 20010314AAD CP

Result key: 2
Scenario 2 Affected station 9
Before Analysis

Results for: 9A UT ST. GEORGE BPCDT 19991101ACB CP
 HAAT 43.0 m, ATV ERP 3.2 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	45731	5014.5
not affected by terrain losses	45355	3767.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	61	231.7
lost to ATV IX only	61	231.7
lost to all IX	61	231.7

Potential Interferring Stations Included in above Scenario 2

9A NV HENDERSON BMPCDT 20010314AAD CP
9A NV HENDERSON BPRM 20000720AAB

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