

KGUN-TV(AMD). OUT

Percent allowed new interference: 0.500
 Percent allowed new interference to Class A: 0.500
 Census data selected 2000
 Post Transition Data Base Selected
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TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 08-25-2014 Time: 15:04:05

Record Selected for Analysis

KGUN-TV USERRECORD-01 TUCSON AZ US
 Channel 09 ERP 36.5 kW HAAT 1140. m RCAMSL 02670 m
 Latitude 032-24-55 Longitude 0110-42-50
 Status APP Zone 2 Border Site number: 01
 Dir Antenna Make CDB Model 00000000108775 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 (site # 01) does not meet maximum height/power limits
 Channel 9 ERP = 36.50 HAAT = 1140.

Site number	1			
Azimuth	ERP	HAAT	36.0 dBu F(50, 90)	
(Deg)	(kW)	(m)	(km)	
0.0	29.814	1108.0	136.9	
45.0	14.535	1343.2	133.1	
90.0	9.536	1358.1	128.5	
135.0	14.679	1057.8	127.3	
180.0	29.658	1266.4	140.3	
225.0	35.599	1393.9	144.8	
270.0	36.196	781.0	131.7	
315.0	36.299	813.3	132.4	

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

KGUN-TV(AMD). OUT

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is within the Mexican coordination distance

Distance to border = 120.3km

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

Channel	Call	City/State	ARN
09	KGUN-TV	TUCSON AZ	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
08	KAET	PHOENIX AZ	162.1	LIC	BLEDT	20090612AEF
08	KAET	PHOENIX AZ	162.1	PLN	DTVPLN	DTVP002728
09	KEY-TV	EL CENTRO CA	391.2	LIC	BLCDDT	20090723AAO
09	KEY-TV	EL CENTRO CA	391.2	PLN	DTVPLN	DTVP051208
09	KTSM-TV	EL PASO TX	404.1	LIC	BLCDDT	20090612AIL
10	KSAZ-TV	PHOENIX AZ	162.1	LIC	BLCDDT	20100302AAI
10	KSAZ-TV	PHOENIX AZ	162.1	PLN	DTVPLN	DTVP035587

%%%

Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
08	KAET	PHOENIX AZ	BLEDT	-20090612AEF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KAZT-TV	PRESCOTT AZ	150.6	LIC	BLCDDT	-20090612AE0
07	KAZT-TV	PRESCOTT AZ	150.6	PLN	DTVPLN	-DTVP035811
09	KGUN-TV	TUCSON AZ	162.0	PLN	DTVPLN	-DTVP036918
09	KGUN-TV	TUCSON AZ	162.1	APP	USERRECORD-01	

Total scenarios = 2

Result key:

Scenario 1 Affected station 1
Before Analysis

Results for: 8A AZ PHOENIX BLEDT 20090612AEF LIC
HAAT 549.0 m, ATV ERP 40.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3274532	46778.6
not affected by terrain losses	3245161	38460.6
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1021	177.7
lost to ATV IX only	1021	177.7
lost to all IX	1021	177.7

Potential Interfering Stations Included in above Scenario 1

7A AZ PRESCOTT	BLCDDT	20090612AE0	LIC
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9A AZ TUCSON DTVPLN KGUN-TV(AMD). OUT
DTVP036918 PLN

After Analysis

Results for: 8A AZ PHOENIX BLEDT 20090612AEF LIC
HAAT 549.0 m, ATV ERP 40.0 kW
POPULATION AREA (sq km)
within Noise Limited Contour 3274532 46778.6
not affected by terrain losses 3245161 38460.6
lost to NTSC IX 0 0.0
lost to additional IX by ATV 1704 230.2
lost to ATV IX only 1704 230.2
lost to all IX 1704 230.2

Potential Interfering Stations Included in above Scenario 1

7A AZ PRESCOTT BLCDT 20090612AE0 LIC
9A AZ TUCSON USERRECORD01 APP

Percent new IX = 0.0211%

Result key: 2
Scenario 2 Affected station 1
Before Analysis

Results for: 8A AZ PHOENIX BLEDT 20090612AEF LIC
HAAT 549.0 m, ATV ERP 40.0 kW
POPULATION AREA (sq km)
within Noise Limited Contour 3274532 46778.6
not affected by terrain losses 3245161 38460.6
lost to NTSC IX 0 0.0
lost to additional IX by ATV 1013 149.4
lost to ATV IX only 1013 149.4
lost to all IX 1013 149.4

Potential Interfering Stations Included in above Scenario 2

7A AZ PRESCOTT DTVPLN DTVP035811 PLN
9A AZ TUCSON DTVPLN DTVP036918 PLN

After Analysis

Results for: 8A AZ PHOENIX BLEDT 20090612AEF LIC
HAAT 549.0 m, ATV ERP 40.0 kW
POPULATION AREA (sq km)
within Noise Limited Contour 3274532 46778.6
not affected by terrain losses 3245161 38460.6
lost to NTSC IX 0 0.0
lost to additional IX by ATV 1696 201.9
lost to ATV IX only 1696 201.9
lost to all IX 1696 201.9

Potential Interfering Stations Included in above Scenario 2

7A AZ PRESCOTT DTVPLN DTVP035811 PLN
9A AZ TUCSON USERRECORD01 APP

Percent new IX = 0.0211%

Worst case new IX 0.0211% Scenario 1

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Analysis of Interference to Affected Station 2

KGUN-TV(AMD). OUT

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
08	KAET	PHOENIX AZ	DTVPLN	-DTVP002728

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
07	KAZT-TV	PRESCOTT AZ	150.6	LIC	BLCDDT	-20090612AEO
07	KAZT-TV	PRESCOTT AZ	150.6	PLN	DTVPLN	-DTVP035811
09	KGUN-TV	TUCSON AZ	162.0	PLN	DTVPLN	-DTVP036918
09	KGUN-TV	TUCSON AZ	162.1	APP	USERRECORD-01	

Total scenarios = 2

Result key: 3
Scenario 1 Affected station 2
Before Analysis

Results for: 8A AZ PHOENIX DTVPLN DTVP002728 PLN
HAAT 527.0 m, ATV ERP 30.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3255715	43742.4
not affected by terrain losses	3240591	36001.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1132	92.9
lost to ATV IX only	1132	92.9
lost to all IX	1132	92.9

Potential Interfering Stations Included in above Scenario 1

7A AZ PRESCOTT	BLCDDT	20090612AEO	LIC
9A AZ TUCSON	DTVPLN	DTVP036918	PLN

After Analysis

Results for: 8A AZ PHOENIX DTVPLN DTVP002728 PLN
HAAT 527.0 m, ATV ERP 30.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3255715	43742.4
not affected by terrain losses	3240591	36001.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1132	137.3
lost to ATV IX only	1132	137.3
lost to all IX	1132	137.3

Potential Interfering Stations Included in above Scenario 1

7A AZ PRESCOTT	BLCDDT	20090612AEO	LIC
9A AZ TUCSON	USERRECORD01		APP

Percent new IX = 0.0000%

Result key: 4
Scenario 2 Affected station 2
Before Analysis

Results for: 8A AZ PHOENIX DTVPLN DTVP002728 PLN
HAAT 527.0 m, ATV ERP 30.7 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3255715	43742.4
not affected by terrain losses	3240591	36001.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	685	68.6
lost to ATV IX only	685	68.6

KGUN-TV(AMD). OUT

Lost to all IX 685 68.6

Potential Interfering Stations Included in above Scenario 2

7A AZ PRESCOTT	DTVPLN	DTVP035811	PLN
9A AZ TUCSON	DTVPLN	DTVP036918	PLN

After Analysis

Results for: 8A AZ PHOENIX DTVPLN DTVP002728 PLN

HAAT 527.0 m, ATV ERP 30.7 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	3255715	43742.4
not affected by terrain losses	3240591	36001.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	685	113.1
lost to ATV IX only	685	113.1
lost to all IX	685	113.1

Potential Interfering Stations Included in above Scenario 2

7A AZ PRESCOTT	DTVPLN	DTVP035811	PLN
9A AZ TUCSON	USERRECORD01		APP

Percent new IX = 0.0000%

Worst case new IX 0.0000% Scenario 1

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
09	KECY-TV	EL CENTRO CA	BLCDT	-20090723AA0

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
08	KFMB-TV	SAN DIEGO CA	227.0	LIC	BLCDT	-20100520ACV
08	KFMB-TV	SAN DIEGO CA	227.0	PLN	DTVPLN	-DTVP042122
09	KGUN-TV	TUCSON AZ	391.0	PLN	DTVPLN	-DTVP036918
09	KCAL-TV	LOS ANGELES CA	326.7	LIC	BLCDT	-20090612AIY
09	KCAL-TV	LOS ANGELES CA	326.7	PLN	DTVPLN	-DTVP021422
09	KVVU-TV	HENDERSON NV	328.5	LIC	BLCDT	-20021120ABN
09	KVVU-TV	HENDERSON NV	328.5	APP	BPCDT	-20120427AAB
09	KVVU-TV	HENDERSON NV	328.5	PLN	DTVPLN	-DTVP035870
10	KGTV	SAN DIEGO CA	227.0	LIC	BLCDT	-20090410ANQ
10	KGTV	SAN DIEGO CA	227.0	PLN	DTVPLN	-DTVP040876
09	KGUN-TV	TUCSON AZ	391.2	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	KECY-TV	EL CENTRO CA	DTVPLN	-DTVP051208

Stations Potentially Affecting This Station

Chan	Call	City/State	KGUN-TV(AMD). OUT Dist(km)	Status	Application Ref. No.
08	KFMB-TV	SAN DIEGO CA	227.0	LIC	BLCDT -20100520ACV
08	KFMB-TV	SAN DIEGO CA	227.0	PLN	DTVPLN -DTVP042122
09	KGUN-TV	TUCSON AZ	391.0	PLN	DTVPLN -DTVP036918
09	KCAL-TV	LOS ANGELES CA	326.7	LIC	BLCDT -20090612AIY
09	KCAL-TV	LOS ANGELES CA	326.7	PLN	DTVPLN -DTVP021422
09	KVVU-TV	HENDERSON NV	328.5	LIC	BLCDT -20021120ABN
09	KVVU-TV	HENDERSON NV	328.5	APP	BPCDT -20120427AAB
09	KVVU-TV	HENDERSON NV	328.5	PLN	DTVPLN -DTVP035870
10	KGTV	SAN DIEGO CA	227.0	LIC	BLCDT -20090410ANQ
10	KGTV	SAN DIEGO CA	227.0	PLN	DTVPLN -DTVP040876
09	KGUN-TV	TUCSON AZ	391.2	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 5

Channel	Call	City/State	Application Ref. No.
09	KTSM-TV	EL PASO TX	BLCDT -20090612AIL

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
09	KGUN-TV	TUCSON AZ	404.3	PLN	DTVPLN -DTVP036918
09	KWES-TV	ODESSA TX	340.8	LIC	BLCDT -20121210ACW
09	KWES-TV	ODESSA TX	340.8	PLN	DTVPLN -DTVP042007
10	DKOVT	SILVER CITY NM	202.7	PLN	DTVPLN -DTVP053911
09	KGUN-TV	TUCSON AZ	404.1	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 6

Channel	Call	City/State	Application Ref. No.
10	KSAZ-TV	PHOENIX AZ	BLCDT -20100302AAI

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
09	KGUN-TV	TUCSON AZ	161.9	PLN	DTVPLN -DTVP036918
10	DKOVT	SILVER CITY NM	359.6	PLN	DTVPLN -DTVP053911
09	KGUN-TV	TUCSON AZ	162.1	APP	USERRECORD-01

Total scenarios = 1

Result key: 5
 Scenario 1 Affected station 6
 Before Analysis

Results for: 10A AZ PHOENIX		BLCDT	20100302AAI	LIC
HAAT	558.0 m, ATV ERP	48.0 kW		
		POPULATION	AREA (sq km)	
within Noise Limited Contour		3268764	46656.7	
not affected by terrain losses		3244569	37846.2	
lost to NTSC IX		0	0.0	
lost to additional IX by ATV		18	56.5	
lost to ATV IX only		18	56.5	

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lost to all IX 18 56.5

Potential Interfering Stations Included in above Scenario 1

9A AZ TUCSON DTVPLN DTVP036918 PLN

After Analysis

Results for: 10A AZ PHOENIX BLC DT 20100302AAI LIC

HAAT 558.0 m, ATV ERP 48.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	3268764	46656.7
not affected by terrain losses	3244569	37846.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	276	169.6
lost to ATV IX only	276	169.6
lost to all IX	276	169.6

Potential Interfering Stations Included in above Scenario 1

9A AZ TUCSON USERRECORD01 APP

Percent new IX = 0.0080%

Worst case new IX 0.0080% Scenario 1

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
10	KSAZ-TV	PHOENIX AZ	DTVPLN	-DTVP035587

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
09	KGUN-TV	TUCSON AZ	161.9	PLN	DTVPLN	-DTVP036918
10	DKOVT	SILVER CITY NM	359.6	PLN	DTVPLN	-DTVP053911
09	KGUN-TV	TUCSON AZ	162.1	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 8

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
09	KGUN-TV	TUCSON AZ	USERRECORD-01	

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
08	KAET	PHOENIX AZ	162.1	LIC	BLEDT	-20090612AEF
08	KAET	PHOENIX AZ	162.1	PLN	DTVPLN	-DTVP002728
09	KEYC-TV	EL CENTRO CA	391.2	LIC	BLC DT	-20090723AAO
09	KEYC-TV	EL CENTRO CA	391.2	PLN	DTVPLN	-DTVP051208
09	KTSM-TV	EL PASO TX	404.1	LIC	BLC DT	-20090612AIL
10	KSAZ-TV	PHOENIX AZ	162.1	LIC	BLC DT	-20100302AAI
10	KSAZ-TV	PHOENIX AZ	162.1	PLN	DTVPLN	-DTVP035587

Total scenarios = 8

KGUN-TV(AMD). OUT

Result key: 6
Scenario 1 Affected station 8
Before Analysis

Results for: 9A AZ TUCSON USERRECORD01 APP
HAAT 1140.0 m, ATV ERP 36.5 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1171232	56861.1
not affected by terrain losses	1077649	48312.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5462	346.4
lost to ATV IX only	5462	346.4
lost to all IX	5462	346.4

Potential Interfering Stations Included in above Scenario 1

8A AZ PHOENIX	BLEDT	20090612AEF	LIC
9A CA EL CENTRO	BLCDT	20090723AA0	LIC
10A AZ PHOENIX	BLCDT	20100302AAI	LIC

Result key: 7
Scenario 2 Affected station 8
Before Analysis

Results for: 9A AZ TUCSON USERRECORD01 APP
HAAT 1140.0 m, ATV ERP 36.5 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1171232	56861.1
not affected by terrain losses	1077649	48312.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4833	306.2
lost to ATV IX only	4833	306.2
lost to all IX	4833	306.2

Potential Interfering Stations Included in above Scenario 2

8A AZ PHOENIX	BLEDT	20090612AEF	LIC
9A CA EL CENTRO	BLCDT	20090723AA0	LIC
10A AZ PHOENIX	DTVPLN	DTVP035587	PLN

Result key: 8
Scenario 3 Affected station 8
Before Analysis

Results for: 9A AZ TUCSON USERRECORD01 APP
HAAT 1140.0 m, ATV ERP 36.5 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1171232	56861.1
not affected by terrain losses	1077649	48312.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5448	326.3
lost to ATV IX only	5448	326.3
lost to all IX	5448	326.3

Potential Interfering Stations Included in above Scenario 3

8A AZ PHOENIX	BLEDT	20090612AEF	LIC
9A CA EL CENTRO	DTVPLN	DTVP051208	PLN
10A AZ PHOENIX	BLCDT	20100302AAI	LIC

Result key: 9
Scenario 4 Affected station 8
Before Analysis

Results for: 9A AZ TUCSON KGUN-TV(AMD). OUT APP
 HAAT 1140.0 m, ATV ERP 36.5 kW USERRECORD01

	POPULATION	AREA (sq km)
within Noise Limited Contour	1171232	56861.1
not affected by terrain losses	1077649	48312.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4819	286.0
lost to ATV IX only	4819	286.0
lost to all IX	4819	286.0

Potential Interfering Stations Included in above Scenario 4

8A AZ PHOENIX	BLEDT	20090612AEF	LIC
9A CA EL CENTRO	DTVPLN	DTVP051208	PLN
10A AZ PHOENIX	DTVPLN	DTVP035587	PLN

Result key: 10
 Scenario 5 Affected station 8
 Before Analysis

Results for: 9A AZ TUCSON USERRECORD01 APP
 HAAT 1140.0 m, ATV ERP 36.5 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1171232	56861.1
not affected by terrain losses	1077649	48312.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	5462	346.4
lost to ATV IX only	5462	346.4
lost to all IX	5462	346.4

Potential Interfering Stations Included in above Scenario 5

8A AZ PHOENIX	DTVPLN	DTVP002728	PLN
9A CA EL CENTRO	BLCDT	20090723AA0	LIC
10A AZ PHOENIX	BLCDT	20100302AAI	LIC

Result key: 11
 Scenario 6 Affected station 8
 Before Analysis

Results for: 9A AZ TUCSON USERRECORD01 APP
 HAAT 1140.0 m, ATV ERP 36.5 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1171232	56861.1
not affected by terrain losses	1077649	48312.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4833	290.0
lost to ATV IX only	4833	290.0
lost to all IX	4833	290.0

Potential Interfering Stations Included in above Scenario 6

8A AZ PHOENIX	DTVPLN	DTVP002728	PLN
9A CA EL CENTRO	BLCDT	20090723AA0	LIC
10A AZ PHOENIX	DTVPLN	DTVP035587	PLN

Result key: 12
 Scenario 7 Affected station 8
 Before Analysis

Results for: 9A AZ TUCSON USERRECORD01 APP
 HAAT 1140.0 m, ATV ERP 36.5 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1171232	56861.1
not affected by terrain losses	1077649	48312.8
lost to NTSC IX	0	0.0

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lost to additional IX by ATV	5448	326.3
lost to ATV IX only	5448	326.3
lost to all IX	5448	326.3

Potential Interfering Stations Included in above Scenario 7

8A AZ PHOENIX	DTVPLN	DTVP002728	PLN
9A CA EL CENTRO	DTVPLN	DTVP051208	PLN
10A AZ PHOENIX	BLCDT	20100302AAI	LIC

Result key: 13
 Scenario 8 Affected station 8
 Before Analysis

Results for: 9A AZ TUCSON USERRECORD01 APP
 HAAT 1140.0 m, ATV ERP 36.5 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1171232	56861.1
not affected by terrain losses	1077649	48312.8
lost to NTSC IX	0	0.0
lost to additional IX by ATV	4819	269.9
lost to ATV IX only	4819	269.9
lost to all IX	4819	269.9

Potential Interfering Stations Included in above Scenario 8

8A AZ PHOENIX	DTVPLN	DTVP002728	PLN
9A CA EL CENTRO	DTVPLN	DTVP051208	PLN
10A AZ PHOENIX	DTVPLN	DTVP035587	PLN

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