

OET-69 INTERFERENCE STUDY - AUTHORIZED KDOS-LP

Percent allowed new interference: 0.500  
 Percent allowed new interference to non Class A LPTV: 2.000  
 TW Census data selected 2000  
 Data Base Selected  
 /export/home/cdbs/pt\_tvdb.sff  
 TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 09-20-2011 Time: 09:34:16

Record Selected for Analysis

KDOS-LP BDISDTL -20090630AAE GLOBE AZ US  
 Channel 29 ERP 15. kW HAAT 1119 m RCAMSL 02336 m STRINGENT MASK  
 Latitude 033-17-21 Longitude 0110-49-45  
 Status CP Zone Border M Site number: 01  
 Dir Antenna Make CDB Model 00000000016996 Beam tilt Y Ref Azimuth 80.0  
 Last update 00000000 Cutoff date 20090630 Docket  
 Comments  
 Applicant KTVW LICENSE PARTNERSHIP, G.P.

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Not full service station  
 Service Class = LD  
 Maximum height/power limits not checked

Site number	1		
Azimuth	ERP	HAAT	51.0 dBu F(50,90)
(Deg)	(kW)	(m)	(km)
0.0	10.234	1119.5	75.5
45.0	14.925	1110.7	78.4
90.0	14.970	956.1	75.0
135.0	13.867	807.3	71.5
180.0	7.080	1113.5	72.4
225.0	0.652	1041.7	54.7
270.0	1.236	1054.9	59.0
315.0	2.497	802.8	59.7

Database HAAT does not agree with computed HAAT  
 Database HAAT: 1119 Computed HAAT: 1001

Contour Overlap to Proposed Station

Station  
KPCE-LP 29 TUCSON AZ BLTTL20080605AAT causes

Contour overlap to Digital LPTV station  
KDOS-LP 29 GLOBE AZ BDISDTL 20090630AAE

Contour Overlap Evaluation to Proposed Station Complete

#### Checks to Site Number 01

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quiet zone

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 = 210.3km

Proposed station is OK toward AM broadcast stations

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#### Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
29	KDOS-LP	GLOBE AZ	BDISDTL 20090630AAE

#### Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
14	K14NA-D	GLOBE & MIAMI AZ	7.0	CP	BDISTT	-20080117ACS
14	KUDF-LP	TUCSON AZ	97.7	LIC	BLTTL	-19890407IB
15	KZOL-LP	SAFFORD AZ	115.8	LIC	BLTT	-20060215AAT
21	K21GC	SAFFORD AZ	115.8	LIC	BLTT	-20060215AAV
22	K22JD	MADERA PEAK AZ	6.8	LIC	BLTT	-20091029ABD
22	KPSN-LP	PAYSON AZ	116.1	LIC	BLTTL	-19970522JI
25	K25DM	PHOENIX AZ	121.4	LIC	BLTTL	-19941028IQ
28	KCAB-LP	CASA GRANDE AZ	97.0	LIC	BLTTL	-20051007ABP
28	NEW	GILA RIVER INDIAN CO AZ	130.0	APP	BNPDTL	-20100713APJ
28	KCOS-LP	PHOENIX AZ	78.7	LIC	BLTTL	-19990325JD
28	NEW	SAN SIMON AZ	187.3	APP	BNPDTL	-20100504AMT
28	KUAS-TV	TUCSON AZ	120.6	LIC	BLEDT	-20030115ABS
29	K29IQ-D	COTTONWOOD AZ	196.8	CP	BDCCDTT	-20080917ACQ
<b>29</b>	<b>NEW</b>	<b>GILA RIVER INDIAN CO AZ</b>	<b>75.1</b>	<b>APP</b>	<b>BNPDTL</b>	<b>-20100713APR</b>
29	NEW	GILA RIVER INDIAN CO AZ	91.5	APP	BNPDTL	-20100713APN
29	K29FD	LAKE HAVASU CITY AZ	357.7	CP	BDFCDTT	-20090824AEE
29	K29FD	LAKE HAVASU CITY AZ	357.7	LIC	BLTT	-20040521AAL
29	KPCE-LP	TUCSON AZ	118.7	LIC	BLTTL	-20080605AAT

29	K29DK	WILLIAMS AZ	247.1	LIC	BLTT	-20060111ACD
29	K29EC	BLYTHE CA	328.0	LIC	BLTT	-20020311ABI
29	NEW	WINTERHAVEN CA	378.1	APP	BNPDTL	-20100510AAX
29	K29DP	LORDSBURG NM	223.6	APP	BDFCDTT	-20060331ABI
29	K29DP	LORDSBURG NM	221.9	LIC	BLTT	-19980108JH
29	K29DP	LORDSBURG NM	223.6	CP	BPTT	-20070525ACN
29	K29DP	LORDSBURG NM	223.6	APP	BSTA	-20070525ACP
29	NEW	MAGDALENA NM	328.9	APP	BNPDTL	-20100513AEO
29	K51BQ	TRUTH OR CONSEQUENCE NM	329.9	APP	BDISDTT	-20110831ACH
30	NEW	BOWIE AZ	162.8	APP	BNPDTL	-20100504AMQ
30	NEW	GILA RIVER INDIAN CO AZ	105.2	APP	BNPDTL	-20100707EBQ
30	K09KV	PRESCOTT AZ	206.5	CP	BDISDTT	-20060331AUF
30	KUAT-TV	TUCSON AZ	97.7	LIC	BLEDT	-20040727ABR
31	KWTA-LP	TUCSON AZ	97.7	LIC	BLTTL	-19970813JB

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#### Analysis of Interference to Affected Station 14

#### Analysis of current record

Channel	Call	City/State	Application Ref. No.
29	NEW	GILA RIVER INDIAN CO AZ	BNPDTL -20100713APR

#### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
28	KCAB-LP	CASA GRANDE AZ	23.7	LIC	BLTTL -20051007ABP
28	NEW	GILA RIVER INDIAN CO AZ	71.7	APP	BNPDTL -20100713APJ
28	KCOS-LP	PHOENIX AZ	51.9	LIC	BLTTL -19990325JD
28	KUAS-TV	TUCSON AZ	105.1	LIC	BLEDT -20030115ABS
29	K29IQ-D	COTTONWOOD AZ	192.4	CP	BDCCDTT -20080917ACQ
29	NEW	GILA RIVER INDIAN CO AZ	25.6	APP	BNPDTL -20100713APN
29	KDOS-LP	GLOBE AZ	75.1	CP	BDISDTL -20090630AAE
29	KPCE-LP	TUCSON AZ	96.9	LIC	BLTTL -20080605AAT
30	NEW	GILA RIVER INDIAN CO AZ	46.0	APP	BNPDTL -20100707EBQ
30	KUAT-TV	TUCSON AZ	105.6	LIC	BLEDT -20040727ABR

Total scenarios = 3

Result key: 1  
Scenario 1 Affected station 14  
Before Analysis

Results for: 29A AZ GILA RIVER INDIAN CO BNPDTL 20100713APR APP  
HAAT 41.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	30748	1040.7
not affected by terrain losses	23409	938.1
lost to NTSC IX	9061	148.5
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	9061	148.5

Potential Interfering Stations Included in above Scenario 1

29N AZ TUCSON BLTTL 20080605AAT LIC

# After Analysis

Results for: 29A AZ GILA RIVER INDIAN CO BNPDTL 20100713APR APP

HAAT 41.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	30748	1040.7
not affected by terrain losses	23409	938.1
lost to NTSC IX	9061	148.5
<b>lost to additional IX by ATV</b>	<b>3073</b>	<b>180.4</b>
lost to ATV IX only	11957	306.0
lost to all IX	12134	329.0

Potential Interfering Stations Included in above Scenario 1

29N AZ TUCSON BLTTL 20080605AAT LIC  
29A AZ GLOBE BDISDTL 20090630AAE CP

The following station failed the de minimis interference criteria.

29D AZ GLOBE BDISDTL 20090630AAE  
ERP 15.00 kW HAAT 1119.0 m RCAMSL 2336.0 m  
Antenna CDB 00000000016996

Due to interference to the following station and scenario: 1

29D AZ GILA RIVER INDIAN CO BNPDTL 20100713APR  
ERP 15.00 kW HAAT 41.0 m RCAMSL 474.0 m  
Antenna CDB 00000000020735

Percent new interference from proposal: 21.4176 to BNPDTL 20100713APR

Result key: 2  
Scenario 2 Affected station 14  
Before Analysis

Results for: 29A AZ GILA RIVER INDIAN CO BNPDTL 20100713APR APP

HAAT 41.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	30748	1040.7
not affected by terrain losses	23409	938.1
lost to NTSC IX	9061	148.5
lost to additional IX by ATV	7899	260.2
lost to ATV IX only	11064	336.9
lost to all IX	16960	408.7

Potential Interfering Stations Included in above Scenario 2

29N AZ TUCSON BLTTL 20080605AAT LIC  
29A AZ GILA RIVER INDIAN CO BNPDTL 20100713APN APP

# After Analysis

Results for: 29A AZ GILA RIVER INDIAN CO BNPDTL 20100713APR APP

HAAT 41.0 m, ATV ERP 15.0 kW

POPULATION	AREA (sq km)
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within Noise Limited Contour	30748	1040.7
not affected by terrain losses	23409	938.1
lost to NTSC IX	9061	148.5
lost to additional IX by ATV	8191	311.0
lost to ATV IX only	17075	453.6
lost to all IX	17252	459.6

Potential Interfering Stations Included in above Scenario 2

29N AZ TUCSON	BLTTL	20080605AAT	LIC
29A AZ GILA RIVER INDIAN CO	BNPDTL	20100713APN	APP
29A AZ GLOBE	BDISDTL	20090630AAE	CP

The following station failed the de minimis interference criteria.

29D AZ GLOBE BDISDTL 20090630AAE  
ERP 15.00 kW HAAT 1119.0 m RCAMSL 2336.0 m  
Antenna CDB 00000000016996

Due to interference to the following station and scenario: 2

29D AZ GILA RIVER INDIAN CO BNPDTL 20100713APR  
ERP 15.00 kW HAAT 41.0 m RCAMSL 474.0 m  
Antenna CDB 00000000020735

Percent new interference from proposal: 4.5278 to BNPDTL 20100713APR

Result key: 3  
Scenario 3 Affected station 14  
Before Analysis

Results for: 29A AZ GILA RIVER INDIAN CO BNPDTL 20100713APR APP  
HAAT 41.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	30748	1040.7
not affected by terrain losses	23409	938.1
lost to NTSC IX	9061	148.5
lost to additional IX by ATV	0	0.0
lost to ATV IX only	0	0.0
lost to all IX	9061	148.5

Potential Interfering Stations Included in above Scenario 3

29N AZ TUCSON	BLTTL	20080605AAT	LIC
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After Analysis

Results for: 29A AZ GILA RIVER INDIAN CO BNPDTL 20100713APR APP  
HAAT 41.0 m, ATV ERP 15.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	30748	1040.7
not affected by terrain losses	23409	938.1
lost to NTSC IX	9061	148.5
lost to additional IX by ATV	3073	180.4
lost to ATV IX only	11957	306.0
lost to all IX	12134	329.0

Potential Interfering Stations Included in above Scenario 3

29N AZ TUCSON BLTTL 20080605AAT LIC  
29A AZ GLOBE BDISDTL 20090630AAE CP

The following station failed the de minimis interference criteria.

29D AZ GLOBE BDISDTL 20090630AAE  
ERP 15.00 kW HAAT 1119.0 m RCAMSL 2336.0 m  
Antenna CDB 00000000016996

Due to interference to the following station and scenario: 3

29D AZ GILA RIVER INDIAN CO BNPDTL 20100713APR  
ERP 15.00 kW HAAT 41.0 m RCAMSL 474.0 m  
Antenna CDB 00000000020735

Percent new interference from proposal: 21.4176 to BNPDTL 20100713APR

**Worst case new IX 21.4176% Scenario 1**

Proposed station is MX

29A AZ GLOBE BDISDTL 20090630AAE CP  
29A AZ GILA RIVER INDIAN CO BNPDTL 20100713APR APP

Proposal MX with BNPDTL 20100713APR scenario 1 of station 14

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