

## KUVE-DT (DTS), Green Valley, AZ OET-69 Interference Analysis

Percent allowed new interference: 0.500  
Percent allowed new interference to Class A: 0.500  
TW Census data selected 2000  
Post Transition Data Base Selected /export/home/cdbs/pt\_tvdb.sff

### TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 06-23-2011

Record Selected for Analysis (Record is a DTS)

KUVE-DT BDTS -30000101AAA GREEN VALLEY AZ US  
Channel 46 ERP 172 kW HAAT 1113 m RCAMSL 2659 m  
Latitude 32 -24-54 Longitude 110 -42-56  
Status APP Zone 2 Border Site number: 01  
Dir Antenna Make CDB Model 00000000087308 Beam tilt N Ref Azimuth 220.0  
Last update Cutoff date 40000101 Docket  
Comments  
Applicant

KUVE-DT BDTS -30000101AAA ORO VALLEY AZ US  
Channel 46 ERP 5 kW HAAT 574 m RCAMSL 1362 m  
Latitude 32 -14-56 Longitude 111 -06-58  
Status APP Zone 2 Border Site number: 02  
Dir Antenna Make CDB Model 00000000041355 Beam tilt N Ref Azimuth 0.0  
Last update Cutoff date 40000101 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 46 ERP = 172.00 HAAT = 1113.

Facility (site # 02) meets maximum height/power limits

Site number	1			
Azimuth	ERP	HAAT	41.0 dBu F(50,90)	
(Deg)	(kW)	(m)	(km)	
0.0	19.712	1089.2	100.2	
45.0	7.750	1323.4	96.8	
90.0	34.327	1340.6	111.6	
135.0	152.488	1049.8	119.0	
180.0	137.189	1265.5	124.0	
225.0	153.009	1385.9	129.2	
270.0	150.758	786.9	111.1	
315.0	140.990	799.6	110.9	

Site number	2			
Azimuth	ERP	HAAT	41.0 dBu F(50,90)	
(Deg)	(kW)	(m)	(km)	
0.0	3.280	635.7	73.7	
45.0	4.851	639.4	76.7	
90.0	4.705	618.8	75.9	
135.0	3.785	518.7	70.8	
180.0	0.450	568.4	58.8	

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225.0	0.047	619.3	45.8
270.0	0.048	598.8	45.5
315.0	0.221	539.1	53.9

Evaluation toward Class A Stations from site # 01

No Spacing violations or contour overlap  
to Class A stations from site # 01

Evaluation toward Class A Stations from site # 02

Station inside contour of Class A station  
KUVE-CA 38 TUCSON AZ BLTTA 20030418ABB

Class A Evaluation 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 = 120.3km

Proposed station is OK toward AM broadcast stations

Checks to Site Number 02

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 = 92.7km

Proposed station is OK toward AM broadcast stations

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Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN	
46	KUVE-DT	GREEN VALLEY AZ	BDTS	30000101AAA

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
38	KUVE-CA	TUCSON AZ	41.9	LIC	BLTTA 20030418ABB

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## Analysis of Interference to Affected Station 1

### Analysis of current record

Channel	Call	City/State	Application Ref. No.
38	KUVE-CA	TUCSON AZ	BLTTA -20030418ABB

### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
30	KUAT-TV	TUCSON AZ	42.0	LIC	BLEDT -20040727ABR
30	KUAT-TV	TUCSON AZ	42.0	PLN	DTVPLN -DTVP1087
36	KFTU-DT	DOUGLAS AZ	138.6	CP	BPCDT -20080514AFZ
36	KFTU-DT	DOUGLAS AZ	138.6	LIC	BLCDT -20090616ABO
38	K38AI	COTTONWOOD, ETC. AZ	286.4	LIC	BLTT -19890927IK
40	KHRR	TUCSON AZ	0.0	LIC	BLCDT -20090629AAW
40	KHRR	TUCSON AZ	0.0	PLN	DTVPLN -DTVP1420
46	KUVE-DT	GREEN VALLEY AZ	41.9	CP MOD	BMPCDT -20080618ATO
46	KUVE-TV	GREEN VALLEY AZ	41.9	PLN	DTVPLN -DTVP1635
46	KUVE-DT	GREEN VALLEY AZ	41.9	LIC	BLCDT -20090618AAE
46	KUVE-DT	GREEN VALLEY AZ	41.9	APP	BDTS -30000101AAA
46	KUVE-DT	ORO VALLEY AZ	0.0	APP	BDTS -30000101AAA

Proposal causes no interference

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## Analysis of Interference to Affected Station 2

### Analysis of current record

#### DTS STATION

Channel	Call	City/State	Application Ref. No.
46	KUVE-DT	ORO VALLEY AZ	BDTS -30000101AAA

### Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
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Total scenarios = 1

### Result key:

1

Scenario 1 Affected station

2

Before Analysis

Results for: 46A AZ GREEN VALLEY BDTS 30000101AAA APP

HAAT 1113.0 m, ATV ERP 172.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1029553	38410.9
not affected by terrain losses	933122	30552.2
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

Potential Interfering Stations Included in above Scenario 1

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