

**FIGURE 2 (7 Pages)**

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  
/space/software/cdbs/pt\_tvdb.sff  
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 12-01-2010 Time: 12:06:29

Record Selected for Analysis

KSSJ-LP USERRECORD-01 SANANTONIO2 TX US  
Channel 42 ERP 50. kW HAAT 225. m RCAMSL 00494 m  
Latitude 029-41-06 Longitude 0098-26-59  
Status APP Zone 2 Border Offset Z  
Last update Cutoff date Docket  
Comments  
Applicant

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

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

Site number	1			
Azimuth	ERP	HAAT	74.0	dBu F(50,50)
(Deg)	(kW)	(m)		(km)
0.0	50.000	121.9		24.6
45.0	50.000	142.3		26.1
90.0	50.000	195.6		29.7
135.0	50.000	211.1		30.6
180.0	50.000	225.2		31.5
225.0	50.000	166.7		27.9
270.0	50.000	112.9		23.8
315.0	50.000	136.8		25.7

NO LANDMOBILE SPACING VIOLATIONS FOUND

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 = 223.1km

Proposed station is OK toward AM broadcast stations

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Start of Interference Analysis

Channel	Proposed Station Call	City/State	ARN
42	KSSJ-LP	SANANTONIO2 TX	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
41	KWEX-DT	SAN ANTONIO TX	47.2	LIC	BLCDDT	-20090619AAK
42	KTBU	CONROE TX	284.4	LIC	BLCDDT	-20050103AJA
42	KSSJ-LP	SAN ANTONIO TX	0.0	CP MOD	BMPDTL	-20100216AAN
42	KSSJ-LP	SAN ANTONIO TX	32.0	LIC	BLTTL	-20080626AAN
42	KSSJ-LP	SAN MARCOS TX	67.9	APP	BDFCDTL	-20100723AAQ
42	KVCV-LP	VICTORIA TX	177.1	LIC	BLTTL	-20070511ABY
43	KEYE-TV	AUSTIN TX	94.2	LIC	BLCDDT	-20031001BGN

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Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
41	KWEX-DT	SAN ANTONIO TX	BLCDDT	-20090619AAK

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
41	KUBE-TV	BAYTOWN TX	267.8	LIC	BLCDDT	-20081016ACF
41	KXAS-TV	FORT WORTH TX	386.0	LIC	BLCDDT	-19981125KG
42	KSSJ-LP	SANANTONIO2 TX	47.2	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 2

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
42	KTBU	CONROE TX	BLCDDT	-20050103AJA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
41	KUBE-TV	BAYTOWN TX	1.0	LIC	BLCDDT	-20081016ACF
42	KPXD-TV	ARLINGTON TX	364.2	LIC	BLCDDT	-20021028AAO
42	KPXD-TV	ARLINGTON TX	358.9	CP	BPCDDT	-20080619AJA
42	KSSJ-LP	SANANTONIO2 TX	284.4	APP	USERRECORD-01	

Total scenarios = 2

Result key: 1  
 Scenario 1 Affected station 2  
 Before Analysis

Results for: 42A TX CONROE BLCDT 20050103AJA LIC  
 HAAT 597.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4841182	39346.6
not affected by terrain losses	4840781	39274.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	153	27.5
lost to ATV IX only	153	27.5
lost to all IX	153	27.5

Potential Interfering Stations Included in above Scenario 1

41A TX BAYTOWN	BLCDT	20081016ACF	LIC
42A TX ARLINGTON	BLCDT	20021028AAO	LIC

After Analysis

Results for: 42A TX CONROE BLCDT 20050103AJA LIC  
 HAAT 597.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4841182	39346.6
not affected by terrain losses	4840781	39274.9
lost to NTSC IX	12	6.9
lost to additional IX by ATV	141	21.6
lost to ATV IX only	153	27.5
lost to all IX	153	28.4

Potential Interfering Stations Included in above Scenario 1

41A TX BAYTOWN	BLCDT	20081016ACF	LIC
42A TX ARLINGTON	BLCDT	20021028AAO	LIC
42N TX SANANTONIO2	USERRECORD01		APP

Percent new IX = 0.0000%

Result key: 2  
 Scenario 2 Affected station 2  
 Before Analysis

Results for: 42A TX CONROE BLCDT 20050103AJA LIC  
 HAAT 597.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4841182	39346.6
not affected by terrain losses	4840781	39274.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	153	22.6
lost to ATV IX only	153	22.6
lost to all IX	153	22.6

Potential Interfering Stations Included in above Scenario 2

41A TX BAYTOWN	BLCDT	20081016ACF	LIC
42A TX ARLINGTON	BPCDT	20080619AJA	CP

After Analysis

Results for: 42A TX CONROE BLCDT 20050103AJA LIC  
HAAT 597.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	4841182	39346.6
not affected by terrain losses	4840781	39274.9
lost to NTSC IX	12	6.9
lost to additional IX by ATV	141	18.6
lost to ATV IX only	153	22.6
lost to all IX	153	25.5

Potential Interfering Stations Included in above Scenario 2

41A TX BAYTOWN	BLCDT	20081016ACF	LIC
42A TX ARLINGTON	BPCDT	20080619AJA	CP
42N TX SANANTONIO2	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.
42	KSSJ-LP	SAN ANTONIO TX	BMPTTL -20100216AAN

(NOTE: AFFECTED STATION IS THE STATION BEING MODIFIED BY THIS PROPOSAL. THE STUDIES TO THIS AFFECTED STATION ARE, THEREFORE, REMOVED.)

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Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
42	KSSJ-LP	SAN ANTONIO TX	BLTTL -20080626AAN

(NOTE: AFFECTED STATION IS THE STATION BEING MODIFIED BY THIS PROPOSAL. THE STUDIES TO THIS AFFECTED STATION ARE, THEREFORE, REMOVED.)

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.

42 KSSJ-LP SAN MARCOS TX BDFCDTL -20100723AAQ

(NOTE: AFFECTED STATION IS THE STATION BEING MODIFIED BY THIS PROPOSAL. THE STUDIES TO THIS AFFECTED STATION ARE, THEREFORE, REMOVED.)

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
42	KVCV-LP	VICTORIA TX	BLTTL	-20070511ABY

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
38	KUQI	CORPUS CHRISTI TX	131.9	LIC	BLCDDT	-20090612AFW
38	KVDA	SAN ANTONIO TX	139.9	LIC	BLCDDT	-20021015ABQ
39	KENS	SAN ANTONIO TX	139.5	CP	BPCDDT	-20080303ALJ
41	KXTS-LP	VICTORIA TX	2.7	LIC	BLTTL	-20010511AAZ
42	KTBU	CONROE TX	163.1	LIC	BLCDDT	-20050103AJA
42	KXCO-LP	REFUGIO TX	62.9	CP	BNPTTL	-20000831AOZ
42	KSSJ-LP	SAN ANTONIO TX	177.1	CP MOD	BMP TTL	-20100216AAN
43	K43DV	VICTORIA TX	12.7	LIC	BLTT	-19930416IF
42	KSSJ-LP	SANANTONIO2 TX	177.1	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 7

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
43	KEYE-TV	AUSTIN TX	BLCDDT	-20031001BGN

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
43	KDTN	DENTON TX	259.6	LIC	BLEDT	-20040301AAH
44	KWKT-TV	WACO TX	119.4	CP MOD	BMP CDDT	-20090220ABU
42	KSSJ-LP	SANANTONIO2 TX	94.2	APP	USERRECORD-01	

Total scenarios = 1

Result key: 11  
Scenario 1 Affected station 7  
Before Analysis

Results for: 43A TX AUSTIN BLCDDT 20031001BGN LIC  
HAAT 395.0 m, ATV ERP 1000.0 kW  
within Noise Limited Contour POPULATION 1910910 AREA (sq km) 32386.7

not affected by terrain losses	1880850	31622.0
lost to NTSC IX	0	0.0
lost to additional IX by ATV	46158	358.3
lost to ATV IX only	46158	358.3
lost to all IX	46158	358.3

Potential Interfering Stations Included in above Scenario 1

43A TX DENTON	BLEDT	20040301AAH	LIC
44A TX WACO	BMPCDT	20090220ABU	CP

After Analysis

Results for: 43A TX AUSTIN BLCDDT 20031001BGN LIC  
 HAAT 395.0 m, ATV ERP 1000.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1910910	32386.7
not affected by terrain losses	1880850	31622.0
lost to NTSC IX	3418	32.0
lost to additional IX by ATV	46158	358.3
lost to ATV IX only	46158	358.3
lost to all IX	49576	390.4

Potential Interfering Stations Included in above Scenario 1

43A TX DENTON	BLEDT	20040301AAH	LIC
44A TX WACO	BMPCDT	20090220ABU	CP
42N TX SANANTONIO2	USERRECORD01		APP

Percent new IX = 0.1863%

Worst case new IX 0.1863% Scenario 1

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