

FIGURE 1 (6 Pages)

Census data selected: 2000

Post DTV Transition Database Selected

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 02-09-2010 Time: 15:47:30

Record Selected for Analysis

K42GJ USERRECORD-01 SANANTONIO2 TX US
Channel 42 ERP 150. kW HAAT 225. m RCAMSL 00494 m
Latitude 029-41-06 Longitude 0098-26-59
Status APP Zone 2 Border Offset Z
Dir Antenna Make usr Model ALIVE_C1 Beam tilt N Ref Azimuth 180.
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

Facility meets maximum power limit

Azimuth (Deg)	ERP (kW)	HAAT (m)	74.0 dBu F(50,50) (km)
0.0	9.004	121.9	15.6
45.0	20.480	142.3	21.4
90.0	132.540	195.6	35.5
135.0	135.233	211.1	36.6
180.0	121.230	225.2	36.8
225.0	135.233	166.7	33.7
270.0	132.540	112.9	29.2
315.0	20.480	136.8	21.0

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

Start of Interference Analysis

Proposed Station			
Channel	Call	City/State	ARN
42	K42GJ	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	CP MOD	BMPCDT	-20080619ADL
42	KTBU	CONROE TX	284.4	LIC	BLCDDT	-20050103AJA
42	K42GJ	SAN ANTONIO TX	32.0	LIC	BLTTTL	-20080626AAN
42	K42GJ	SAN ANTONIO TX	0.0	APP	BDFCDDL	-20090910AAW
42	K42GJ	SAN ANTONIO TX	0.0	CP MOD	BMPTTL	-20090730ABT
42	KVCV-LP	VICTORIA TX	177.1	LIC	BLTTTL	-20070511ABY
43	KEYE-TV	AUSTIN TX	94.2	LIC	BLCDDT	-20031001BGN



Analysis of Interference to Affected Station 1

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
41	KWEX-DT	SAN ANTONIO TX	BMPCDT	-20080619ADL

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
41	KAZH	BAYTOWN TX	267.8	PLN	DTVPLN -DTVP1480
41	KAZH	BAYTOWN TX	267.8	LIC	BLCDDT -20081016ACF
41	KXAS-TV	FORT WORTH TX	386.0	LIC	BLCDDT -19981125KG
41	KXAS-TV	FORT WORTH TX	386.2	PLN	DTVPLN -DTVP1481
42	K42GJ	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	BLCDT	-20050103AJA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
41	KAZH	BAYTOWN TX	1.0	PLN	DTVPLN	-DTVP1480
41	KAZH	BAYTOWN TX	1.0	LIC	BLCDDT	-20081016ACF
42	KPXD-TV	ARLINGTON TX	358.9	CP	BPCDDT	-20080619AJA
42	KPXD	ARLINGTON TX	364.2	PLN	DTVPLN	-DTVP1514
42	KPXD-TV	ARLINGTON TX	364.2	LIC	BLCDDT	-20021028AAO
42	K42GJ	SANANTONIO2 TX	284.4	APP	USERRECORD-01	

Total scenarios = 12

Result key: 1

Scenario 1 Affected station 2 KTBU

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	194	27.5
lost to ATV IX only	194	27.5
lost to all IX	194	27.5

Potential Interfering Stations Included in above Scenario 1

41A TX BAYTOWN	DTVPLN	DTVP1480	PLN
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	61	12.8
lost to additional IX by ATV	182	23.5
lost to ATV IX only	194	27.5
lost to all IX	243	36.3

Potential Interfering Stations Included in above Scenario 1

41A TX BAYTOWN	DTVPLN	DTVP1480	PLN
42A TX ARLINGTON	BPCDT	20080619AJA	CP
42N TX SANANTONIO2	USERRECORD01		APP

Percent new IX = 0.0010%

Worst case new IX 0.0010% Scenario 1

(NOTE: WORST-CASE SCENARIO TO THIS AFFECTED STATION IS SHOWN-ALL OTHERS HAVE BEEN REMOVED. ALL REMOVED SCENARIOS SHOW THE SAME OR LESS NEW INTERFERENCE THAN SHOWN BY THE WORST-CASE SCENARIO.)

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application Ref. No.
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42 K42GJ 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 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
42	K42GJ	SAN ANTONIO TX	BDFCDTL -20090910AAW

(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	K42GJ	SAN ANTONIO TX	BMPTTL -20090730ABT

(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	CP	BPCDT -20081202ABI
38	KUQI	CORPUS CHRISTI TX	132.2	PLN	DTVPLN -DTVP1376
38	KVDA	SAN ANTONIO TX	139.9	LIC	BLCDT -20021015ABQ
38	KVDA	SAN ANTONIO TX	139.9	PLN	DTVPLN -DTVP1380
39	KENS-TV	SAN ANTONIO TX	139.4	PLN	DTVPLN -DTVP1414
39	KENS	SAN ANTONIO TX	139.5	CP	BPCDT -20080303ALJ
41	KXTS-LP	VICTORIA TX	2.7	LIC	BLTTL -20010511AAZ
42	NEW	LAKE CHARLES LA	393.1	APP	BSFDTT -20060630DCF
42	KTBU	CONROE TX	163.1	LIC	BLCDT -20050103AJA
42	KTBU	CONROE TX	163.1	PLN	DTVPLN -DTVP1515
42	KLNM-LD	LUFKIN TX	357.3	LIC	BLDTL -20091028AAS
42	KXCO-LP	REFUGIO TX	62.9	CP	BNPTTL -20000831AOZ
42	K42GJ	SAN ANTONIO TX	177.1	APP	BDFCDTL -20090910AAW

42	K42GJ	SAN ANTONIO TX	177.1	CP MOD	BMPTTL	-20090730ABT
43	NEW	CORPUS CHRISTI TX	118.6	APP	BSFDTL	-20060630CKI
43	NEW	CORPUS CHRISTI TX	119.1	APP	BSFDTL	-20060630DDQ
43	NEW	CORPUS CHRISTI TX	119.2	APP	BSFDTL	-20060630CIX
43	KHLM-LD	HOUSTON TX	163.1	LIC	BLDTL	-20090630AEZ
43	K43DV	VICTORIA TX	12.7	LIC	BLTT	-19930416IF
42	K42GJ	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	BLCDT	-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
43	KDTN	DENTON TX	259.6	PLN	DTVPLN	-DTVP1554
44	KWKT-TV	WACO TX	119.4	CP MOD	BMPCDT	-20090220ABU
44	KWKT	WACO TX	119.3	PLN	DTVPLN	-DTVP1591
42	K42GJ	SANANTONIO2 TX	94.2	APP	USERRECORD-01	

Total scenarios = 8

Result key: 25

Scenario 1 Affected station 7 KEYE-TV
Before Analysis

Results for: 43A TX AUSTIN BLCDT 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	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 BLCDT 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	9137	51.0
lost to additional IX by ATV	46158	358.3
lost to ATV IX only	46158	358.3
lost to all IX	55295	409.4

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 = 0.4980%

Worst case new IX 0.4980% Scenario 1

(NOTE: WORST-CASE SCENARIO TO THIS AFFECTED STATION IS SHOWN—ALL OTHERS HAVE BEEN REMOVED. ALL REMOVED SCENARIOS SHOW THE SAME OR LESS NEW INTERFERENCE THAN SHOWN BY THE WORST-CASE SCENARIO.)

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