

FIGURE 2 (9 Pages)

Census data selected: 2000

Post DTV Transition Database Selected

TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 07-30-2009 Time: 10:27:50

Record Selected for Analysis

K42GJ USERRECORD-01 SANANTONIO2 TX US
Channel 42 ERP 9.99 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

Facility meets maximum power limit

Azimuth (Deg)	ERP (kW)	HAAT (m)	74.0 dBu F(50,50) (km)
0.0	9.990	121.9	16.1
45.0	9.990	142.3	17.7
90.0	9.990	195.6	20.9
135.0	9.990	211.1	21.7
180.0	9.990	225.2	22.4
225.0	9.990	166.7	19.4
270.0	9.990	112.9	15.4
315.0	9.990	136.8	17.2

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

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	0.0	CP	BPTTL	-20090423ADD
42	K42GJ	SAN ANTONIO TX	32.0	LIC	BLTTL	-20080626AAN
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	BMPCDT	-20080619ADL

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
41	KAZH	BAYTOWN TX	267.8	CP MOD	BMPCDT	-20080808AAH
41	KAZH	BAYTOWN TX	267.8	PLN	DTVPLN	-DTVP1484
41	KXAS-TV	FORT WORTH TX	386.0	LIC	BLCDDT	-19981125KG
41	KXAS-TV	FORT WORTH TX	386.2	PLN	DTVPLN	-DTVP1485
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	BLCDDT	-20050103AJA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application	Ref. No.
41	KAZH	BAYTOWN TX	1.0	CP MOD	BMPCDT	-20080808AAH
41	KAZH	BAYTOWN TX	1.0	PLN	DTVPLN	-DTVP1484
42	KPXD-TV	ARLINGTON TX	364.2	LIC	BLCDDT	-20021028AAO
42	KPXD	ARLINGTON TX	364.2	PLN	DTVPLN	-DTVP1517
42	KPXD-TV	ARLINGTON TX	358.9	CP	BPCDDT	-20080619AJA
42	K42GJ	SANANTONIO2 TX	284.4	APP	USERRECORD-01	

Proposal causes no interference

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Analysis of Interference to Affected Station 3

Analysis of current record

Channel	Call	City/State	Application	Ref. No.
42	K42GJ	SAN ANTONIO TX	BPTTL	-20090423ADD

(NOTE: FACILITY BEING HEREIN MODIFIED. STUDY 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	BLTTL	-20080626AAN

(NOTE: FACILITY BEING HEREIN MODIFIED. STUDY REMOVED.)

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Analysis of Interference to Affected Station 5

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	-DTVP1557
44	KWKT-TV	WACO TX	119.4	CP MOD	BMPCDT	-20090220ABU
44	KWKT	WACO TX	119.3	PLN	DTVPLN	-DTVP1593
42	K42GJ	SANANTONIO2 TX	94.2	APP	USERRECORD-01	

Total scenarios = 8

Result key: 11

Scenario 1 Affected station 5 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 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	273	15.0
lost to additional IX by ATV	46158	358.3
lost to ATV IX only	46158	358.3
lost to all IX	46431	373.3

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 = 0.0149%

Result key: 12
Scenario 2 Affected station 5 KEYE-TV
Before 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	0	0.0
lost to additional IX by ATV	35399	353.3
lost to ATV IX only	35399	353.3
lost to all IX	35399	353.3

Potential Interfering Stations Included in above Scenario 2

43A TX DENTON	BLEDT	20040301AAH	LIC
44A TX WACO	DTVPLN	DTVP1593	PLN

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	273	15.0
lost to additional IX by ATV	35399	353.3
lost to ATV IX only	35399	353.3

lost to all IX 35672 368.3

Potential Interfering Stations Included in above Scenario 2

43A TX DENTON	BLEDT	20040301AAH	LIC
44A TX WACO	DTVPLN	DTVP1593	PLN
42N TX SANANTONIO2	USERRECORD01		APP

Percent new IX = 0.0148%

Result key: 13

Scenario 3 Affected station 5 KEYE-TV

Before 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	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 3

43A TX DENTON	DTVPLN	DTVP1557	PLN
44A TX WACO	BMPCDDT	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	273	15.0
lost to additional IX by ATV	46158	358.3
lost to ATV IX only	46158	358.3
lost to all IX	46431	373.3

Potential Interfering Stations Included in above Scenario 3

43A TX DENTON	DTVPLN	DTVP1557	PLN
44A TX WACO	BMPCDDT	20090220ABU	CP
42N TX SANANTONIO2	USERRECORD01		APP

Percent new IX = 0.0149%

Result key: 14

Scenario 4 Affected station 5 KEYE-TV

Before 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	0	0.0
lost to additional IX by ATV	35399	353.3
lost to ATV IX only	35399	353.3
lost to all IX	35399	353.3

Potential Interfering Stations Included in above Scenario 4

43A TX DENTON	DTVPLN	DTVP1557	PLN
44A TX WACO	DTVPLN	DTVP1593	PLN

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	273	15.0
lost to additional IX by ATV	35399	353.3
lost to ATV IX only	35399	353.3
lost to all IX	35672	368.3

Potential Interfering Stations Included in above Scenario 4

43A TX DENTON	DTVPLN	DTVP1557	PLN
44A TX WACO	DTVPLN	DTVP1593	PLN
42N TX SANANTONIO2	USERRECORD01		APP

Percent new IX = 0.0148%

Result key: 15

Scenario 5 Affected station 5 KEYE-TV

Before 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	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 5

43A TX DENTON	BLEDDT	20040301AAH	LIC
44A TX WACO	BMPCDDT	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	273	15.0
lost to additional IX by ATV	46158	358.3
lost to ATV IX only	46158	358.3
lost to all IX	46431	373.3

Potential Interfering Stations Included in above Scenario 5

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

Percent new IX = 0.0149%

Result key: 16
 Scenario 6 Affected station 5 KEYE-TV
 Before 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	0	0.0
lost to additional IX by ATV	35399	353.3
lost to ATV IX only	35399	353.3
lost to all IX	35399	353.3

Potential Interfering Stations Included in above Scenario 6

43A TX DENTON	BLEDT	20040301AAH	LIC
44A TX WACO	DTVPLN	DTVP1593	PLN

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	273	15.0
lost to additional IX by ATV	35399	353.3
lost to ATV IX only	35399	353.3
lost to all IX	35672	368.3

Potential Interfering Stations Included in above Scenario 6

43A TX DENTON	BLEDT	20040301AAH	LIC
44A TX WACO	DTVPLN	DTVP1593	PLN
42N TX SANANTONIO2	USERRECORD01		APP

Percent new IX = 0.0148%

Result key: 17
 Scenario 7 Affected station 5 KEYE-TV
 Before 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	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 7

43A TX DENTON	DTVPLN	DTVP1557	PLN
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	273	15.0
lost to additional IX by ATV	46158	358.3
lost to ATV IX only	46158	358.3
lost to all IX	46431	373.3

Potential Interfering Stations Included in above Scenario 7

43A TX DENTON	DTVPLN	DTVP1557	PLN
44A TX WACO	BMPCDT	20090220ABU	CP
42N TX SANANTONIO2	USERRECORD01		APP

Percent new IX = 0.0149%

Result key: 18
Scenario 8 Affected station 5 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	35399	353.3
lost to ATV IX only	35399	353.3
lost to all IX	35399	353.3

Potential Interfering Stations Included in above Scenario 8

43A TX DENTON	DTVPLN	DTVP1557	PLN
44A TX WACO	DTVPLN	DTVP1593	PLN

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	273	15.0
lost to additional IX by ATV	35399	353.3
lost to ATV IX only	35399	353.3
lost to all IX	35672	368.3

Potential Interfering Stations Included in above Scenario 8

43A TX DENTON	DTVPLN	DTVP1557	PLN
44A TX WACO	DTVPLN	DTVP1593	PLN
42N TX SANANTONIO2	USERRECORD01		APP

Percent new IX = 0.0148%

Worst case new IX 0.0149% Scenario 1

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