

TECHNICAL EXHIBIT
DTV MAXIMIZATION APPLICATION
STATION WOAI-DT
SAN ANTONIO, TEXAS
CH 48 905 KW 457 M

Technical Narrative

This Technical Exhibit supports an application for digital television (DTV) station WOAI-DT for its "maximized" DTV operation at San Antonio, Texas. This application requests a construction permit (CP) for WOAI-DT digital television operation on channel 48 at San Antonio with a non-directional effective radiated power of 905 kilowatts.

Proposed Facilities

Station WOAI-DT proposes to operate DTV channel 48 from its DTV pending application facility. The antenna height above average terrain for the channel 48 DTV operation will be 457 meters. The proposed WOAI-DT effective radiated power exceeds the Commission's *Appendix B* allocated maximum effective radiated power in some azimuthal directions for WOAI-DT.¹ Therefore, an allocation study was completed to ensure no prohibited interference would occur.

¹ See Seventh Report And Order And Eighth Further Notice Of Proposed Rule Making in the Matter of Advanced Television Systems and their Impact Upon the Existing Television Broadcast Service, MB Docket 87-268, Released August 6, 2007; Adopted August 1, 2007.

The proposed DTV transmitter site will be located at WOAI-DT's tower. Therefore, the proposed site location is:

29° 16' 11" North Latitude
98° 15' 55" West Longitude

A sketch of antenna and pertinent elevations are included as Figure 1.

The Appendix contains the vertical plane radiation pattern for the proposed antenna system.

Figure 2 is a map showing the proposed DTV predicted coverage contour and the associated DTV appendix B Noise-Limited coverage contour. The extent of the contours have been calculated using the normal FCC prediction method. The San Antonio city limits were derived from information contained in the 2000 U.S. Census of Population and Housing.

Maximum DTV Effective Radiated Power and HAAT

The proposed WOAI-DT effective radiated power and antenna height above average terrain exceeds that permitted by Section 73.622(f)(8) of the Commission Rules. However, the proposed WOAI-DT service area of 35,626 square kilometers is less than that of another station in the market, KCWX(DT), which serves 38,961 square kilometers. Therefore, pursuant to 73.622(f)(5), as the proposed WOAI-DT service area remains equal to or less than that of the largest station in the market, the proposed effective

radiated power and antenna height above terrain is allowed to exceed the limits defined in Section 73.622(f)(8).

Population Served

The herein proposed WOAI-DT "maximized" facility is predicted to serve 1,878,349 persons, post-transition based upon the 2000 Census. WOAI-DT's associated Appendix B facility is predicted to serve 1,894,000 persons. Therefore, the herein proposed WOAI-DT facility would serve 99.1% of WOAI-DT's Appendix B population. The OET-69 studies were conducted using a cell size of 1.0 km/side and distance increments for Longley-Rice analysis of 0.5 km.

Allocation Considerations

The proposed WOAI-DT Channel 48 facility meets the requirements of Section 73.623 of the FCC Rules concerning predicted interference to other Appendix B DTV allotments. Longley-Rice interference analyses were conducted pursuant to the requirements of the FCC Rules; OET Bulletin No. 69; and published FCC guidelines for preparation of such interference analyses. The Longley-Rice interference analyses were conducted using the software developed by du Treil, Lundin & Rackley, Inc. based on the FCC published software routines.² Stations selected for analysis were determined pursuant to the distance requirements outlined in the FCC DTV Processing Guidelines Public Notice. The results of the interference analyses for the proposed WOAI-DT facility are summarized

herein at Figure 3. As indicated therein, the proposed facility will meet the 0.5% criterion outlined in the FCC Rules and published guidelines with respect to all considered stations.³

Radiofrequency Electromagnetic Field Exposure

The proposed WOAI-DT facilities were evaluated in terms of potential radiofrequency electromagnetic field exposure at ground level to workers and the general public. The radiation center for the proposed WOAI-DT antenna is located 459 meters above ground level. The maximum effective radiated power is 905 kilowatts. A "worst case" downward relative field value of 0.25 is assumed for the antenna's downward radiation. The calculated power density at a point 2 meters above ground level is 0.009 mW/cm². This is less than 5 percent of the Commission's recommended limit of 0.45 mW/cm² for channel 48 for an "uncontrolled" environment.

Access to the transmitting site is restricted and appropriately marked with warning signs. As this is a multi-user site an agreement between the stations will control access. In the event that workers or other authorized personnel enter restricted areas or climb the tower, appropriate measures will be taken to assure worker safety with respect to radio frequency radiation exposure.

² The duTreil, Lundin & Rackley, Inc. DTV interference analysis program is based on the program and procedures outlined by the FCC in the Sixth Report and Order; subsequent Memorandum Opinion and Order; and FCC OET Bulletin No. 69. A nominal grid size resolution of 2 km was employed.

du Treil, Lundin & Rackley, Inc.

Consulting Engineers

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San Antonio, Texas

Such measures include reducing the average exposure by spreading out the work over a longer period of time, wearing "accepted" RFR protective clothing and/or RFR exposure monitors or scheduling work when the stations are at reduced power or shut down. The proposed WOAI-DT operation appears to be otherwise categorically excluded from environmental processing.

It is noted that this statement only addresses the potential for radiofrequency electromagnetic field exposure. All other aspects of the environmental processing analysis will be or already have been provided to the FCC by the tower owner.

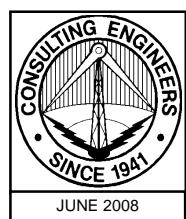
Charles Cooper

du Treil, Lundin & Rackley, Inc.
201 Fletcher Avenue
Sarasota, Florida 32437
941.329.6000

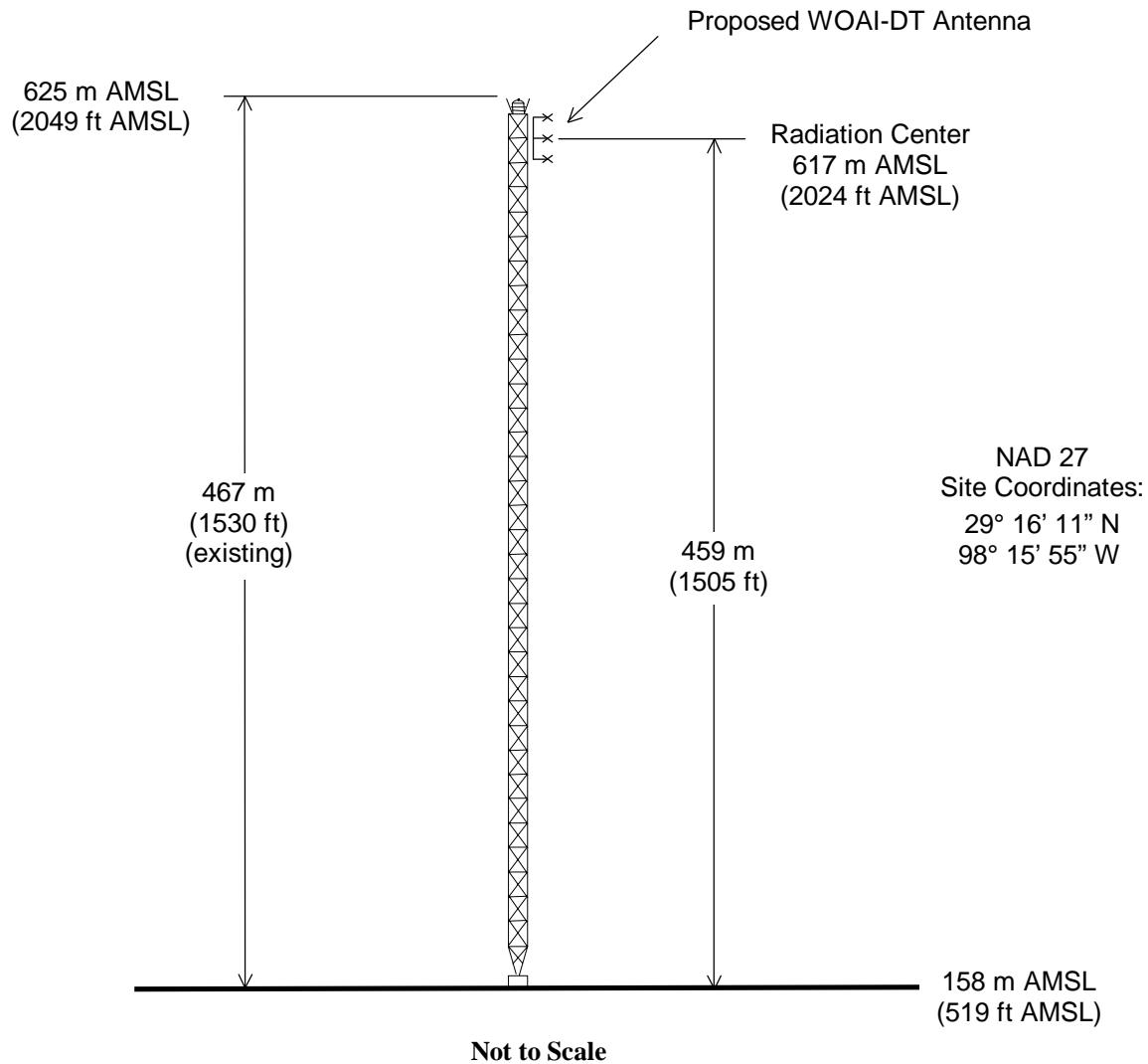
June 9, 2008

3 Interference analysis results reflect the net change in interference to a given station considering the interference predicted to occur from all other stations (i.e. "masking") including the allotment facility for WOAI-DT. This properly reflects the net interference change for determining compliance with the FCC 0.5% *de minimis* standard.

Figure 1



ASR: 1226610



ANTENNA AND SUPPORTING STRUCTURE

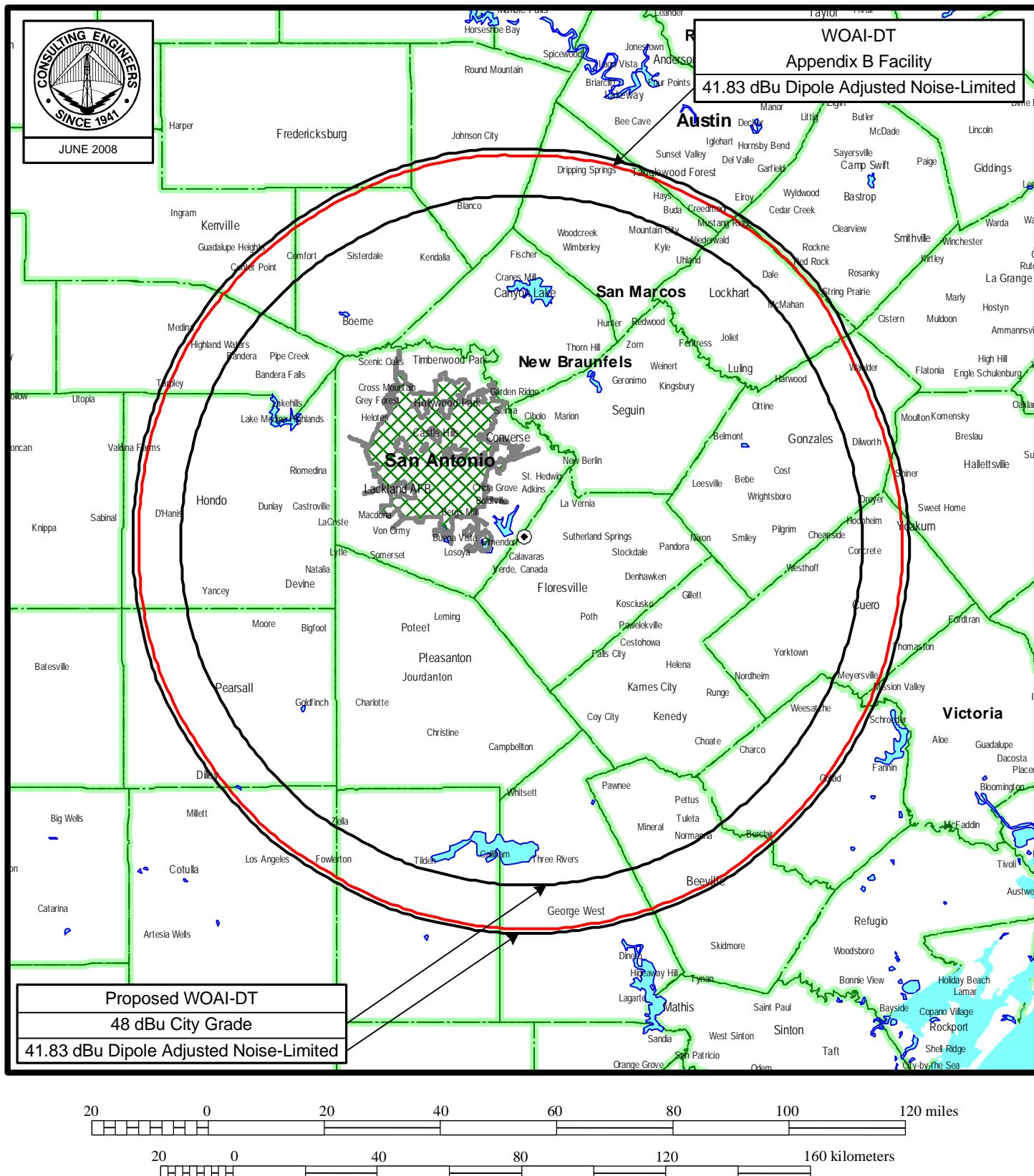
DTV STATION WOAI-DT

SAN ANTONIO, TEXAS

CH 48 905 KW 457 M

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

Figure 2



PREDICTED COVERAGE CONTOURS

DTV STATION WOAI-DT

SAN ANTONIO, TEXAS

CH 48 905 KW 457 M

Figure 3

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: 06-09-2008 Time: 07:37:41

Record Selected for Analysis

WOAI-TV USERRECORD-01 SAN ANTONIO TX US
 Channel 48 ERP 905. kW HAAT 458. m RCAMSL 00617 m
 Latitude 029-16-11 Longitude 0098-15-55
 Status APP Zone 3 Border
 Last update Cutoff date Docket
 Comments
 Applicant

Cell Size for Service Analysis 1.0 km/side

Distance Increments for Longley-Rice Analysis 0.50 km

Facility does not meet maximum height/power limits
 Channel 48 ERP = 905.00 HAAT = 458.

Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	905.000	446.3	109.3
45.0	905.000	445.2	109.2
90.0	905.000	440.5	108.8
135.0	905.000	468.2	111.1
180.0	905.000	480.6	112.1
225.0	905.000	467.0	111.0
270.0	905.000	459.8	110.4
315.0	905.000	457.0	110.2

Evaluation toward Class A Stations

Contour overlap to Class A station
 KNIC-CA 34 SAN ANTONIO TX BSTA 20060925ADT

Contour overlap to Class A station
 KNIC-CA 34 SAN ANTONIO TX BDISTTA 20070615ADF

Contour overlap to Class A station
 KGMM-CA 44 SAN ANTONIO TX BLTTA 20040406AAU

Class A Evaluation Complete

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 = 215.5km
 Proposed station is OK toward AM broadcast stations
 **** Start of Interference Analysis

Channel	Call	City/State	ARN
48	WOAI-TV	SAN ANTONIO TX	USERRECORD01

Stations Potentially Affected by Proposed Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
34	KNIC-CA	SAN ANTONIO TX	28.2	APP	BSTA -20060925ADT
34	KNIC-CA	SAN ANTONIO TX	28.2	APP	BDISTTA -20070615ADF
40	KXLK-CA	AUSTIN TX	125.3	LIC	BLTTA -20030424ABA
40	KHMP-CA	SAN MARCOS TX	75.5	LIC	BLTTA -20060515ADT
44	KHPF-CA	FREDERICKSBURG TX	125.3	LIC	BLTTA -20021004AAC
44	KGMM-CA	SAN ANTONIO TX	2.8	LIC	BLTTA -20040406AAU
45	KHPB-CA	BASTROP TX	140.5	LIC	BLTTA -20020405ABF
48	KTMD	GALVESTON TX	268.8	LIC	BLCDT -20040325ABO
48	KTMD	GALVESTON TX	268.8	PLN	DTVPLN -DTVP1721
48	KSTR-TV	IRVING TX	384.6	LIC	BLCDT -20020909AAM
48	KSTR-TV	IRVING TX	384.6	PLN	DTVPLN -DTVP1722
49	KNVA	AUSTIN TX	125.7	LIC	BLCDT -20060721ABF
49	KNVA	AUSTIN TX	125.7	PLN	DTVPLN -DTVP1752
49	KNVA	AUSTIN TX	125.7	CP MOD	BMPCDT -20060623AAC
51	KBVO-CA	AUSTIN TX	125.7	LIC	BLTTA -20020405ABE
51	KTJA-CA	VICTORIA TX	137.3	LIC	BLTTA -20060209AAY
51	KTJA-CA	VICTORIA TX	137.3	APP	BSTA -20060208ABG

Analysis of Interference to Affected Station 1

Channel	Call	City/State	Application Ref. No.
34	KNIC-CA	SAN ANTONIO TX	BSTA -20060925ADT

Analysis of current record

Figure 3

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
26	KPXL	UVALDE TX	57.9	PLN	DTVPLN -DTPV0980
26	KPXL	UVALDE TX	57.9	CP	BPCDT -20070501AEW
27	KXAM-TV	LLANO TX	139.0	CP	BPCDT -19991018AAV
27	KXAM-TV	LLANO TX	139.0	PLN	DTVPLN -DTPV1020
30	KABB	SAN ANTONIO TX	26.4	CP	BPCDT -19991028AAR
30	KABB	SAN ANTONIO TX	26.4	PLN	DTVPLN -DTPV1124
32	KMYS	KERRVILLE TX	43.7	LIC	BLCDT -20060608ACW
32	KMYS	KERRVILLE TX	43.7	PLN	DTVPLN -DTPV1199
33	KVUE	AUSTIN TX	119.5	LIC	BLCDT -20050624AAI
33	KVUE	AUSTIN TX	119.5	PLN	DTVPLN -DTPV1230
34	K34FM	AUSTIN TX	119.7	LIC	BLTT -20061002BGB
34	NEW	BROWNWOOD TX	257.9	APP	BNPTTL -20000830BMM
34	KUTW-LP	COLLEGE STATION TX	226.8	LIC	BLTTL -20070402ADS
34	KLJJ-TV	HARLINGEN TX	363.7	LIC	BLEDT -20070402KPK
34	KLJJ-TV	HARLINGEN TX	363.7	PLN	DTVPLN -DTPV1274
34	KWBU-TV	WACO TX	237.5	LIC	BLET -20020822ABU
35	KMYS	KERRVILLE TX	43.7	LIC	BLCDT -20060109AAH
38	KVDA	SAN ANTONIO TX	27.1	LIC	BLCDT -20021015ABQ
38	KVDA	SAN ANTONIO TX	27.1	PLN	DTVPLN -DTPV1387
41	KWEX-TV	SAN ANTONIO TX	27.1	PLN	DTVPLN -DTPV1487
41	KWEX-TV	SAN ANTONIO TX	27.1	CP	BPCDT -20080313ACM
48	WOAI-TV	SAN ANTONIO TX	28.2	PLN	DTVPLN -DTPV1723
49	KNVA	AUSTIN TX	120.1	LIC	BLCDT -20060721ABF
49	KNVA	AUSTIN TX	120.1	PLN	DTVPLN -DTPV1752
49	KNVA	AUSTIN TX	120.1	CP MOD	BMPCT -20060623AAC
48	WOAI-TV	SAN ANTONIO TX	28.2	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 2

Channel	Call	City/State	Application Ref. No.
34	KNIC-CA	SAN ANTONIO TX	BDISTTA -20070615ADF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
26	KPXL	UVALDE TX	57.9	PLN	DTVPLN -DTPV0980
26	KPXL	UVALDE TX	57.9	CP	BPCDT -20070501AEW
27	KXAM-TV	LLANO TX	139.0	CP	BPCDT -19991018AAV
27	KXAM-TV	LLANO TX	139.0	PLN	DTVPLN -DTPV1020
30	KABB	SAN ANTONIO TX	26.4	CP	BPCDT -19991028AAR
30	KABB	SAN ANTONIO TX	26.4	PLN	DTVPLN -DTPV1124
32	KMYS	KERRVILLE TX	43.7	LIC	BLCDT -20060608ACW
32	KMYS	KERRVILLE TX	43.7	PLN	DTVPLN -DTPV1199
33	KVUE	AUSTIN TX	119.5	LIC	BLCDT -20050624AAI
33	KVUE	AUSTIN TX	119.5	PLN	DTVPLN -DTPV1230
34	KUTW-LP	COLLEGE STATION TX	226.8	LIC	BLTTL -20070402ADS
34	KLJJ-TV	HARLINGEN TX	363.7	LIC	BLEDT -20070402KPK
34	KLJJ-TV	HARLINGEN TX	363.7	PLN	DTVPLN -DTPV1274

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
34	KWBU-TV	WACO TX	237.5	LIC	BLET -20020822ABU
35	KMYS	KERRVILLE TX	43.7	LIC	BLCT -20060109AAH
38	KVDA	SAN ANTONIO TX	27.1	LIC	BLCDT -20021015ABQ
38	KVDA	SAN ANTONIO TX	27.1	PLN	DTVPLN -DTPV1387
41	KWEX-TV	SAN ANTONIO TX	27.1	PLN	DTVPLN -DTPV1487
41	KWEX-TV	SAN ANTONIO TX	27.1	CP	BPCDT -20080313ACM
48	WOAI-TV	SAN ANTONIO TX	28.2	PLN	DTVPLN -DTPV1723
49	KNVA	AUSTIN TX	120.1	LIC	BLCT -20060721ABF
49	KNVA	AUSTIN TX	120.1	PLN	DTVPLN -DTPV1752
49	KNVA	AUSTIN TX	120.1	CP MOD	BMPCT -20060623AAC
48	WOAI-TV	SAN ANTONIO TX	28.2	APP	USERRECORD-01

Proposal causes no interference

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Analysis of Interference to Affected Station 3

Channel	Call	City/State	Application Ref. No.
40	KXLK-CA	AUSTIN TX	BLTTA -20030424ABA

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
32	KMYS	KERRVILLE TX	131.6	LIC	BLCDT -20060608ACW
32	KMYS	KERRVILLE TX	131.6	PLN	DTVPLN -DTPV1199
33	KVUE	AUSTIN TX	0.2	LIC	BLCDT -20050624AAI
33	KVUE	AUSTIN TX	0.2	PLN	DTVPLN -DTPV1230
38	KVDA	SAN ANTONIO TX	122.5	LIC	BLCDT -20021015ABQ
38	KVDA	SAN ANTONIO TX	122.5	PLN	DTVPLN -DTPV1387
39	KENS-TV	SAN ANTONIO TX	125.3	APP	BPCDT -20080303ALJ
39	KENS-TV	SAN ANTONIO TX	125.4	PLN	DTVPLN -DTPV1421
40	KRHD-LP	BRYAN TX	136.7	APP	BSTA -20070608AAW
40	KXTX-TV	DALLAS TX	263.6	LIC	BLCDT -20021106ABR
40	KXTX-TV	DALLAS TX	263.6	PLN	DTVPLN -DTPV1453
40	KHPL-CA	LA GRANGE TX	99.5	LIC	BLTTA -20020405ABH
40	KBTW-TV	PORT ARTHUR TX	366.8	CP MOD	BMPCT -20040312ADS
40	KBTW-TV	PORT ARTHUR TX	366.8	PLN	DTVPLN -DTPV1455
40	KISA-LP	SAN ANTONIO TX	119.2	LIC	BLTTL -20050323AGF
40	KHPM-CA	SAN MARCOS TX	50.1	LIC	BLTTA -20060515ADT
41	KWEX-TV	SAN ANTONIO TX	122.5	LIC	BLCT -19970331SG
41	KWEX-TV	SAN ANTONIO TX	122.5	PLN	DTVPLN -DTPV1487
41	KWEX-TV	SAN ANTONIO TX	122.5	CP	BPCDT -20080313ACM
43	KEYE-TV	AUSTIN TX	0.2	LIC	BLCDT -20031001BGN
43	KEYE-TV	AUSTIN TX	0.2	PLN	DTVPLN -DTPV1556
44	KWKT	WACO TX	119.2	CP	BPCDT -20080519ABE
44	KWKT	WACO TX	119.2	PLN	DTVPLN -DTPV1595
48	WOAI-TV	SAN ANTONIO TX	125.3	PLN	DTVPLN -DTPV1723
54	KNVA	AUSTIN TX	0.4	LIC	BLCT -19980708KE
48	WOAI-TV	SAN ANTONIO TX	125.3	APP	USERRECORD-01

Proposed station is beyond the site to nearest cell evaluation distance

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Figure 3

Figure 3

Analysis of Interference to Affected Station 4

Analysis of current record

Channel	Call	City/State	Application Ref. No.
40	KHPM-CA	SAN MARCOS TX	BLTTA -20060515ADT

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
32	KMYS	KERRVILLE TX	96.3	LIC	BLCDT -20060608ACW
32	KMYS	KERRVILLE TX	96.3	PLN	DTVPLN -DTVP1199
33	KVUE	AUSTIN TX	49.9	LIC	BLCDT -20050624AAI
33	KVUE	AUSTIN TX	49.9	PLN	DTVPLN -DTVP1230
38	KVDA	SAN ANTONIO TX	72.8	LIC	BLCDT -20021015ABQ
38	KVDA	SAN ANTONIO TX	72.8	PLN	DTVPLN -DTVP1387
39	KENS-TV	SAN ANTONIO TX	75.5	APP	BPCDT -20080303ALJ
39	KENS-TV	SAN ANTONIO TX	75.6	PLN	DTVPLN -DTVP1421
40	KXLK-CA	AUSTIN TX	50.1	LIC	BLTTA -20030424ABA
40	KRHD-LP	BRYAN TX	171.9	APP	BSTA -20070608AAW
40	KXTX-TV	DALLAS TX	313.7	LIC	BLCDT -20021106ABR
40	KXTX-TV	DALLAS TX	313.7	PLN	DTVPLN -DTVP1453
40	KHPL-CA	LA GRANGE TX	102.8	LIC	BLTTA -20020405ABH
40	KBTV-TV	PORT ARTHUR TX	382.4	CP MOD	BMPCDT -20040312ADS
40	KBTV-TV	PORT ARTHUR TX	382.4	PLN	DTVPLN -DTVP1455
40	KTLM	RIO GRANDE CITY TX	381.3	LIC	BLCT -19991019AAU
40	KTLM	RIO GRANDE CITY TX	381.3	APP	BSTA -20050921AHD
40	KISA-LP	SAN ANTONIO TX	73.4	LIC	BLTTL -20050323AGF
41	KWEX-TV	SAN ANTONIO TX	72.7	LIC	BLCT -19970331SG
41	KWEX-TV	SAN ANTONIO TX	72.8	PLN	DTVPLN -DTVP1487
41	KWEX-TV	SAN ANTONIO TX	72.8	CP	BPCDT -20080313ACM
43	KEYE-TV	AUSTIN TX	49.9	LIC	BLCDT -20031001BGN
43	KEYE-TV	AUSTIN TX	49.9	PLN	DTVPLN -DTVP1556
48	WOAI-TV	SAN ANTONIO TX	75.5	PLN	DTVPLN -DTVP1723
54	KNVA	AUSTIN TX	50.5	LIC	BLCT -19980708KE
48	WOAI-TV	SAN ANTONIO TX	75.5	APP	USERRECORD-01

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 5

Analysis of current record

Channel	Call	City/State	Application Ref. No.
44	KHPF-CA	FREDERICKSBURG TX	BLTTA -20021004AAC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
41	KWEX-TV	SAN ANTONIO TX	123.3	PLN	DTVPLN -DTVP1487
41	KWEX-TV	SAN ANTONIO TX	123.3	CP	BPCDT -20080313ACM

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
43	KEYE-TV	AUSTIN TX	104.3	LIC	BLCDT -20031001BGN
43	KEYE-TV	AUSTIN TX	104.3	PLN	DTVPLN -DTVP1556
44	NEW	ABILENE TX	239.4	APP	BNPTTL -20000830BHN
44	KZJL	HOUSTON TX	334.5	CP MOD	BMPCDT -20041101AFY
44	KZJL	HOUSTON TX	334.5	PLN	DTVPLN -DTVP1594
44	KGMM-CA	SAN ANTONIO TX	123.3	LIC	BLTTA -20040406AAU
44	KWKT	WACO TX	189.6	CP	BPCDT -20080519ABE
44	KWKT	WACO TX	189.6	PLN	DTVPLN -DTVP1595
44	KWKT	WACO TX	189.6	LIC	BLCT -20050314AFV
46	KNCT	BELTON TX	144.7	PLN	DTVPLN -DTVP1658
48	WOAI-TV	SAN ANTONIO TX	125.4	PLN	DTVPLN -DTVP1723
48	WOAI-TV	SAN ANTONIO TX	125.3	APP	USERRECORD-01

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 6

Analysis of current record

Channel	Call	City/State	Application Ref. No.
44	KGMM-CA	SAN ANTONIO TX	BLTTA -20040406AAU

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
41	KWEX-TV	SAN ANTONIO TX	0.0	LIC	BLCT -19970331SG
41	KWEX-TV	SAN ANTONIO TX	0.0	PLN	DTVPLN -DTVP1487
41	KWEX-TV	SAN ANTONIO TX	0.0	CP	BPCDT -20080313ACM
42	KEYE-TV	AUSTIN TX	122.4	LIC	BLCT -20031014ACM
43	KEYE-TV	AUSTIN TX	122.4	LIC	BLCDT -20031001BGN
43	KEYE-TV	AUSTIN TX	122.4	PLN	DTVPLN -DTVP1556
43	KOBS-LP	SAN ANTONIO TX	30.6	LIC	BLTTL -20030514ADX
44	KHFP-CA	FREDERICKSBURG TX	123.3	LIC	BLTTA -20021004AAC
44	KLUJ-TV	HARLINGEN TX	345.3	LIC	BLET -19861224KH
44	KLUJ-TV	HARLINGEN TX	345.3	APP	BSTA -20060503AAW
44	KZJL	HOUSTON TX	267.7	CP MOD	BMPCDT -20041101AFY
44	KZJL	HOUSTON TX	267.7	PLN	DTVPLN -DTVP1594
44	KWKT	WACO TX	241.7	CP	BPCDT -20080519ABE
44	KWKT	WACO TX	241.7	PLN	DTVPLN -DTVP1595
44	KWKT	WACO TX	241.7	LIC	BLCT -20050314AFV
45	K45DX	FLORENSVILLE TX	21.1	LIC	BLTTL -20001108ABZ
45	K45FJ	SAN ANTONIO TX	38.1	LIC	BLTT -20000509AAK
48	WOAI-TV	SAN ANTONIO TX	2.8	PLN	DTVPLN -DTVP1723
48	WOAI-TV	SAN ANTONIO TX	2.8	APP	USERRECORD-01

Total scenarios = 1

Result key: 1
Scenario 1 Affected station
Before Analysis

Results for: 44N TX SAN ANTONIO BLTTA 20040406AAU LIC

Figure 3

Figure 3

	POPULATION	AREA (sq km)
within Noise Limited Contour	505269	1137.5
not affected by terrain losses	501811	1134.5
lost to NTSC IX	10649	6.9
lost to additional IX by ATV	12	2.0
lost to all IX	10661	8.8
Potential Interfering Stations Included in above Scenario	1	
41N TX SAN ANTONIO	BLCT	19970331SG LIC
43N TX SAN ANTONIO	BLTTL	20030514ADX LIC
48A TX SAN ANTONIO	DTVPLN	DTVPLN1723 PLN
After Analysis		
Results for: 44N TX SAN ANTONIO	BLTTA	20040406AAU LIC
	POPULATION	AREA (sq km)
within Noise Limited Contour	505269	1137.5
not affected by terrain losses	501811	1134.5
lost to NTSC IX	10649	6.9
lost to additional IX by ATV	12	2.0
lost to all IX	10661	8.8
Potential Interfering Stations Included in above Scenario	1	
41N TX SAN ANTONIO	BLCT	19970331SG LIC
43N TX SAN ANTONIO	BLTTL	20030514ADX LIC
48A TX SAN ANTONIO	USERRECORD01	APP
Percent new IX =	0.0000%	
Worst case new IX	0.0000% Scenario	1
#####		
Analysis of Interference to Affected Station	7	
Analysis of current record		
Channel Call City/State Application Ref. No.		
45 KHPB-CA BASTROP TX BLTTA -20020405ABF		

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
38	KVDA	SAN ANTONIO TX	138.1	LIC	BLCDT -20021015ABQ
38	KVDA	SAN ANTONIO TX	138.1	PLN	DTVPLN -DTVPL1387
41	KWEX-TV	SAN ANTONIO TX	138.1	PLN	DTVPLN -DTVPL1487
41	KWEX-TV	SAN ANTONIO TX	138.1	CP	BPCDT -20080313ACM
43	KEYE-TV	AUSTIN TX	59.1	LIC	BLCDT -20031001BGN
43	KEYE-TV	AUSTIN TX	59.1	PLN	DTVPLN -DTVPL1556
44	KWKT	WACO TX	129.9	CP	BPCDT -20080519ABE
44	KWKT	WACO TX	129.8	PLN	DTVPLN -DTVPL1595
44	KWKT	WACO TX	129.9	LIC	BLCT -20050314AFV
45	KXCC-CA	CORPUS CHRISTI TX	262.2	LIC	BLTTL -19931126JB
45	KDTX-TV	DALLAS TX	267.2	CP MOD	BMPCDT -20030417ABJ

45	KDTX-TV	DALLAS TX	267.2	PLN	DTVPLN	-DTVPL1633
45	K45DX	FLORESVILLE TX	144.5	LIC	BLTTL	-20011108ABZ
45	KXLN-TV	ROSENBERG TX	177.4	CP	BPCDT	-20080228ABL
45	KXLN-TV	ROSENBERG TX	177.4	PLN	DTVPLN	-DTVPL1634
45	KXLN-TV	ROSENBERG TX	177.4	LIC	BLCT	-20010514ABJ
45	K45IN	VICTORIA TX	177.6	APP	BPTTL	-20080227ADK
46	KNCT	BELTON TX	100.9	LIC	BLCT	-2369
46	KNCT	BELTON TX	100.8	PLN	DTVPLN	-DTVPL1658
48	WOAI-TV	SAN ANTONIO TX	140.5	PLN	DTVPLN	-DTVPL1723
49	KVNA	AUSTIN TX	58.9	LIC	BLCDT	-20060721ABF
49	KVNA	AUSTIN TX	58.9	PLN	DTVPLN	-DTVPL1752
49	KVNA	AUSTIN TX	58.9	CP MOD	BMPCDT	-20060623AAC
60	KVDA	SAN ANTONIO TX	138.1	LIC	BMLCT	-20020319ABS
48	WOAI-TV	SAN ANTONIO TX	140.5	APP	USERRECORD-01	

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 8

Channel	Call	City/State	Application Ref. No.
48	KTMD	GALVESTON TX	BLCDT -20040325AEO

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
47	KNWS-TV	KATY TX	0.0	PLN	DTVPLN -DTVPL1693
48	KSTR-TV	IRVING TX	358.0	LIC	BLCDT -20020909AAM
48	KSTR-TV	IRVING TX	358.0	PLN	DTVPLN -DTVPL1722
48	WOAI-TV	SAN ANTONIO TX	268.8	PLN	DTVPLN -DTVPL1723
48	WOAI-TV	SAN ANTONIO TX	268.8	APP	USERRECORD-01

Total scenarios = 1

Result key:	2
Scenario	1
Affected station	8
Before Analysis	

Results for: 48A TX GALVESTON	BLCDT	20040325AEO	LIC
HAAT 597.0 m, ATV ERP 1000.0 kW	POPULATION	AREA (sq km)	
within Noise Limited Contour	4838457	39988.3	
not affected by terrain losses	4838060	39903.9	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	1172	109.9	
lost to ATV IX only	1172	109.9	
lost to all IX	1172	109.9	

Potential Interfering Stations Included in above Scenario 1

48A TX SAN ANTONIO	DTVPLN	DTVPLN1723	PLN
--------------------	--------	------------	-----

Figure 3

Figure 3

After Analysis

Results for: 48A TX GALVESTON BLCDT 20040325AEO LIC

	POPULATION	AREA (sq km)
within Noise Limited Contour	4838457	39988.3
not affected by terrain losses	4838060	39903.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2036	125.6
lost to ATV IX only	2036	125.6
lost to all IX	2036	125.6

Potential Interfering Stations Included in above Scenario 1

48A TX SAN ANTONIO USERRECORD01 APP

Percent new IX = 0.0179%

Worst case new IX 0.0179% Scenario 1

#####
#####

Analysis of Interference to Affected Station 9

Analysis of current record

Channel	Call	City/State	Application Ref. No.
48	KTMD	GALVESTON TX	DTVPLN -DTVPL1721

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
47	KNWS-TV	KATY TX	0.0	PLN	DTVPLN -DTVPL1693
48	KSTR-TV	IRVING TX	358.0	LIC	BLCDT -20020909AM
48	KSTR-TV	IRVING TX	358.0	PLN	DTVPLN -DTVPL1722
48	WOAI-TV	SAN ANTONIO TX	268.8	PLN	DTVPLN -DTVPL1723
48	WOAI-TV	SAN ANTONIO TX	268.8	APP	USERRECORD-01

Total scenarios = 1

Result key: 3

Scenario 1 Affected station 9

Before Analysis

Results for: 48A TX GALVESTON DTVPLN DTVPL1721 PLN

	POPULATION	AREA (sq km)
within Noise Limited Contour	4838457	39988.3
not affected by terrain losses	4838060	39903.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	1172	109.9
lost to ATV IX only	1172	109.9
lost to all IX	1172	109.9

Potential Interfering Stations Included in above Scenario 1

48A TX SAN ANTONIO DTVPLN DTVPL1723 PLN

After Analysis

Results for: 48A TX GALVESTON DTVPLN DTVPL1721 PLN

	POPULATION	AREA (sq km)
within Noise Limited Contour	4838457	39988.3
not affected by terrain losses	4838060	39903.9
lost to NTSC IX	0	0.0
lost to additional IX by ATV	2036	125.6
lost to ATV IX only	2036	125.6
lost to all IX	2036	125.6

Potential Interfering Stations Included in above Scenario 1

48A TX SAN ANTONIO USERRECORD01 APP

Percent new IX = 0.0179%

Worst case new IX 0.0179% Scenario 1

#####
#####

Analysis of Interference to Affected Station 10

Analysis of current record

Channel	Call	City/State	Application Ref. No.
48	KSTR-TV	IRVING TX	BLCDT -20020909AM

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
48	KTMD	GALVESTON TX	358.0	LIC	BLCDT -20040325AEO
48	KTMD	GALVESTON TX	358.0	PLN	DTVPLN -DTVPL1721
48	WOAI-TV	SAN ANTONIO TX	384.6	PLN	DTVPLN -DTVPL1723
48	WOAI-TV	SAN ANTONIO TX	384.6	APP	USERRECORD-01

Proposal causes no interference

#####
#####

Analysis of Interference to Affected Station 11

Analysis of current record

Channel	Call	City/State	Application Ref. No.
48	KSTR-TV	IRVING TX	DTVPLN -DTVPL1722

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
48	KTMD	GALVESTON TX	358.0	LIC	BLCDT -20040325AEO

Figure 3

```

48 KTMD GALVESTON TX      358.0 PLN   DTVPLN -DTVPI721
48 WOAI-TV SAN ANTONIO TX 384.6 PLN   DTVPLN -DTVPI723
48 WOAI-TV SAN ANTONIO TX 384.6 APP    USERRECORD-01
Proposal causes no interference
#####

```

Analysis of Interference to Affected Station 12

Analysis of current record
 Channel Call City/State Application Ref. No.
 49 KNVA AUSTIN TX BLCDT -20060721ABF

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
48	WOAI-TV	SAN ANTONIO TX	125.7	PLN	DTVPLN -DTVPI723
50	KBTX-TV	BRYAN TX	171.4	CP MOD	BMPCTD -20080228ABF
50	KBTX-TV	BRYAN TX	171.4	PLN	DTVPLN -DTVPI779
48	WOAI-TV	SAN ANTONIO TX	125.7	APP	USERRECORD-01

Total scenarios = 2

Result key: 4
 Scenario 1 Affected station 12
 Before Analysis

Results for: 49A TX AUSTIN BLCDT 20060721ABF LIC
 HAAT 396.0 m, ATV ERP 197.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1592200	25570.6
not affected by terrain losses	1580989	24984.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	65081	722.5
lost to ATV IX only	65081	722.5
lost to all IX	65081	722.5

Potential Interfering Stations Included in above Scenario 1

```

50A TX BRYAN BMPCTD 20080228ABF CP
48A TX SAN ANTONIO DTVPLN DTVPI723 PLN

```

After Analysis

Results for: 49A TX AUSTIN BLCDT 20060721ABF LIC
 HAAT 396.0 m, ATV ERP 197.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1592200	25570.6
not affected by terrain losses	1580989	24984.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	65404	757.6
lost to ATV IX only	65404	757.6
lost to all IX	65404	757.6

Potential Interfering Stations Included in above Scenario 1

```

50A TX BRYAN BMPCTD 20080228ABF CP
48A TX SAN ANTONIO USERRECORD01 APP

```

Percent new IX = 0.0213%

Result key: 5
 Scenario 2 Affected station 12
 Before Analysis

Results for: 49A TX AUSTIN BLCDT 20060721ABF LIC

	POPULATION	AREA (sq km)
within Noise Limited Contour	1592200	25570.6
not affected by terrain losses	1580989	24984.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	65156	724.5
lost to ATV IX only	65156	724.5
lost to all IX	65156	724.5

Potential Interfering Stations Included in above Scenario 2

```

50A TX BRYAN DTVPLN DTVPI779 PLN
48A TX SAN ANTONIO DTVPLN DTVPI723 PLN

```

After Analysis

Results for: 49A TX AUSTIN BLCDT 20060721ABF LIC

	POPULATION	AREA (sq km)
within Noise Limited Contour	1592200	25570.6
not affected by terrain losses	1580989	24984.2
lost to NTSC IX	0	0.0
lost to additional IX by ATV	65479	759.6
lost to ATV IX only	65479	759.6
lost to all IX	65479	759.6

Potential Interfering Stations Included in above Scenario 2

```

50A TX BRYAN DTVPLN DTVPI779 PLN
48A TX SAN ANTONIO USERRECORD01 APP

```

Percent new IX = 0.0213%

Worst case new IX 0.0213% Scenario 2

#####

Analysis of Interference to Affected Station 13

Analysis of current record
 Channel Call City/State Application Ref. No.
 49 KNVA AUSTIN TX DTVPLN -DTVPI752

Figure 3

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
48	WOAI-TV	SAN ANTONIO TX	125.7	PLN	DTVPLN -DTVP1723
50	KBTX-TV	BRYAN TX	171.4	CP MOD	BMPCTD -20080228ABF
50	KBTX-TV	BRYAN TX	171.4	PLN	DTVPLN -DTVP1779
48	WOAI-TV	SAN ANTONIO TX	125.7	APP	USERRECORD-01

Total scenarios = 2

Result key: 6
 Scenario 1 Affected station 13
 Before Analysis

Results for: 49A TX AUSTIN DTVPLN DTVP1752 PLN

	POPULATION	AREA (sq km)
within Noise Limited Contour	1674067	27671.8
not affected by terrain losses	1656281	27029.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	57135	765.7
lost to ATV IX only	57135	765.7
lost to all IX	57135	765.7

Potential Interfering Stations Included in above Scenario 1

50A TX BRYAN	BMPCTD	20080228ABF	CP
48A TX SAN ANTONIO	DTVPLN	DTVPLN	PLN

After Analysis

Results for: 49A TX AUSTIN DTVPLN DTVP1752 PLN

	POPULATION	AREA (sq km)
within Noise Limited Contour	1674067	27671.8
not affected by terrain losses	1656281	27029.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	63756	838.7
lost to ATV IX only	63756	838.7
lost to all IX	63756	838.7

Potential Interfering Stations Included in above Scenario 1

50A TX BRYAN	BMPCTD	20080228ABF	CP
48A TX SAN ANTONIO	USERRECORD01	APP	

Percent new IX = 0.4140%

Result key: 7
 Scenario 2 Affected station 13
 Before Analysis

Results for: 49A TX AUSTIN DTVPLN DTVP1752 PLN

	POPULATION	AREA (sq km)
within Noise Limited Contour	1674067	27671.8

not affected by terrain losses	1656281	27029.3
lost to NTSC IX	0	0.0
lost to additional IX by ATV	57136	774.7
lost to ATV IX only	57136	774.7
lost to all IX	57136	774.7

Potential Interfering Stations Included in above Scenario 2

50A TX BRYAN	DTVPLN	DTVPLN	PLN
48A TX SAN ANTONIO	DTVPLN	DTVPLN	PLN

After Analysis

Results for: 49A TX AUSTIN DTVPLN DTVP1752 PLN

HAAT	396.0 m, ATV ERP	500.0 kW	POPULATION	AREA (sq km)
within Noise Limited Contour	1674067	27671.8	1656281	27029.3
not affected by terrain losses	0	0.0	63757	847.7
lost to additional IX by ATV	63757	847.7	63757	847.7
lost to all IX	63757	847.7	63757	847.7

Potential Interfering Stations Included in above Scenario 2

50A TX BRYAN	DTVPLN	DTVPLN	PLN
48A TX SAN ANTONIO	USERRECORD01	APP	

Percent new IX = 0.4140%

Worst case new IX 0.4140% Scenario 2

#####

Analysis of Interference to Affected Station 14

Analysis of current record

Channel	Call	City/State	Application Ref. No.
49	KNVA	AUSTIN TX	BMPCTD -20060623AAC

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
48	WOAI-TV	SAN ANTONIO TX	125.7	PLN	DTVPLN -DTVP1723
50	KBTX-TV	BRYAN TX	171.4	CP MOD	BMPCTD -20080228ABF
50	KBTX-TV	BRYAN TX	171.4	PLN	DTVPLN -DTVP1779
48	WOAI-TV	SAN ANTONIO TX	125.7	APP	USERRECORD-01

Total scenarios = 2

Result key: 8
 Scenario 1 Affected station 14
 Before Analysis

Figure 3

Figure 3

Figure 3

		POPULATION	AREA (sq km)		
within Noise Limited Contour	1592200	25570.6			
not affected by terrain losses	1580989	24984.2			
lost to NTSC IX	0	0.0			
lost to additional IX by ATV	65479	759.6			
lost to ATV IX only	65479	759.6			
lost to all IX	65479	759.6			
Potential Interfering Stations Included in above Scenario			2		
60A TX BRYAN	DTVPLN	DTVP1779	PLN		
18A TX SAN ANTONIO	USERRECORD01		APP		
Percent new IX =	0.0213%				
Worst case new IX	0.0213% Scenario		2		
##### Analysis of Interference to Affected Station 15					
Analysis of current record					
Channel	Call	City/State	Application Ref. No.		
51	KBVO-CA	AUSTIN TX	BLTTA -20020405ABE		
Stations Potentially Affecting This Station					
Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
43	KEYE-TV	AUSTIN TX	0.6	LIC	BLCDT -2003100
43	KEYE-TV	AUSTIN TX	0.6	PLN	DTVPLN -DTVP15
44	KWKT	WACO TX	118.8	CP	BPCDT -200805
44	KWKT	WACO TX	118.8	PLN	DTVPLN -DTVP15
44	KWKT	WACO TX	118.8	LIC	BLCT -200503
48	WOAI-TV	SAN ANTONIO TX	125.7	PLN	DTVPLN -DTVP17
49	KNVA	AUSTIN TX	0.0	LIC	BLCDT -200607
49	KNVA	AUSTIN TX	0.0	PLN	DTVPLN -DTVP17
49	KNVA	AUSTIN TX	0.0	CP MOD	BMPCDT -200606
51	KNWS-TV	KATY TX	237.1	LIC	BLCT -199311
51	KFXK	LONGVIEW TX	345.5	LIC	BLCT -199109
51	KTJA-CA	VICTORIA TX	189.8	APP	BSTA -200602
48	WOAI-TV	SAN ANTONIO TX	125.7	APP	USERRECORD-01
Proposed station is beyond the site to nearest cell evaluation distance					

Figure 3

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
48	WOAI-TV	SAN ANTONIO TX	137.3	PLN	DTVPLN -DTVPI723
51	KLAO-LP	CORPUS CHRISTI TX	116.4	CP	BDISTTL -20070827AAN
51	KNWS-TV	KATY TX	166.9	LIC	BLCT -19931104KE
48	WOAI-TV	SAN ANTONIO TX	137.3	APP	USERRECORD-01

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 17

Analysis of current record

Channel	Call	City/State	Application Ref. No.
51	KTJA-CA	VICTORIA TX	BSTA -20060208ABG

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
48	WOAI-TV	SAN ANTONIO TX	137.3	PLN	DTVPLN -DTVPI723
51	KLAO-LP	CORPUS CHRISTI TX	116.4	CP	BDISTTL -20070827AAN
51	KNWS-TV	KATY TX	166.9	LIC	BLCT -19931104KE
48	WOAI-TV	SAN ANTONIO TX	137.3	APP	USERRECORD-01

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 18

Analysis of current record

Channel	Call	City/State	Application Ref. No.
48	WOAI-TV	SAN ANTONIO TX	USERRECORD-01

Stations Potentially Affecting This Station

Chan	Call	City/State	Dist(km)	Status	Application Ref. No.
48	KTMD	GALVESTON TX	268.8	LIC	BLCDT -20040325AEO
48	KTMD	GALVESTON TX	268.8	PLN	DTVPLN -DTVPI721
48	KSTR-TV	IRVING TX	384.6	LIC	BLCDT -20020909AAM
48	KSTR-TV	IRVING TX	384.6	PLN	DTVPLN -DTVPI722
49	KNVA	AUSTIN TX	125.7	LIC	BLCDT -20060721ABF
49	KNVA	AUSTIN TX	125.7	PLN	DTVPLN -DTVPI752
49	KNVA	AUSTIN TX	125.7	CP MOD BMPCDT	-20060623AAC

Total scenarios = 12

Result key: 10

Scenario 1 Affected station 18
Before Analysis

HAAT	458.0 m, ATV ERP 905.0 kW	USERRECORD01	APP
within Noise Limited Contour	1954560	36916.1	
not affected by terrain losses	1943577	36301.7	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	26953	604.6	
lost to ATV IX only	26953	604.6	
lost to all IX	26953	604.6	

Potential Interfering Stations Included in above Scenario 1

48A TX GALVESTON	BLCDT	20040325AEO	LIC
48A TX IRVING	BLCDT	20020909AAM	LIC
49A TX AUSTIN	BLCDT	20060721ABF	LIC

Result key: 11
Scenario 2 Affected station 18
Before Analysis

HAAT	458.0 m, ATV ERP 905.0 kW	USERRECORD01	APP
within Noise Limited Contour	1954560	36916.1	
not affected by terrain losses	1943577	36301.7	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	32614	675.5	
lost to ATV IX only	32614	675.5	
lost to all IX	32614	675.5	

Potential Interfering Stations Included in above Scenario 2

48A TX GALVESTON	BLCDT	20040325AEO	LIC
48A TX IRVING	BLCDT	20020909AAM	LIC
49A TX AUSTIN	DTVPLN	DTVPI752	PLN

Result key: 12
Scenario 3 Affected station 18
Before Analysis

HAAT	458.0 m, ATV ERP 905.0 kW	USERRECORD01	APP
within Noise Limited Contour	1954560	36916.1	
not affected by terrain losses	1943577	36301.7	
lost to NTSC IX	0	0.0	
lost to additional IX by ATV	26953	604.6	
lost to ATV IX only	26953	604.6	
lost to all IX	26953	604.6	

Potential Interfering Stations Included in above Scenario 3

48A TX GALVESTON	BLCDT	20040325AEO	LIC
48A TX IRVING	BLCDT	20020909AAM	LIC

Figure 3

Figure 3

49A TX AUSTIN BMPCDT 20060623AAC CP

Result key: 13
 Scenario 4 Affected station 18
 Before Analysis

Results for: 48A TX SAN ANTONIO USERRECORD01 APP
 HAAT 458.0 m, ATV ERP 905.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1954560	36916.1
not affected by terrain losses	1943577	36301.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	26953	604.6
lost to ATV IX only	26953	604.6
lost to all IX	26953	604.6

Potential Interfering Stations Included in above Scenario 4

48A TX GALVESTON BLCDT 20040325AEO LIC
 48A TX IRVING DTVPLN DTVP1722 PLN
 49A TX AUSTIN BLCDT 20060721ABF LIC

Result key: 14
 Scenario 5 Affected station 18
 Before Analysis

Results for: 48A TX SAN ANTONIO USERRECORD01 APP
 HAAT 458.0 m, ATV ERP 905.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1954560	36916.1
not affected by terrain losses	1943577	36301.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	32614	675.5
lost to ATV IX only	32614	675.5
lost to all IX	32614	675.5

Potential Interfering Stations Included in above Scenario 5

48A TX GALVESTON BLCDT 20040325AEO LIC
 48A TX IRVING DTVPLN DTVP1722 PLN
 49A TX AUSTIN DTVPLN DTVP1752 PLN

Result key: 15
 Scenario 6 Affected station 18
 Before Analysis

Results for: 48A TX SAN ANTONIO USERRECORD01 APP
 HAAT 458.0 m, ATV ERP 905.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1954560	36916.1
not affected by terrain losses	1943577	36301.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	26953	604.6
lost to ATV IX only	26953	604.6
lost to all IX	26953	604.6

Potential Interfering Stations Included in above Scenario 6

48A TX GALVESTON BLCDT 20040325AEO LIC
 48A TX IRVING DTVPLN DTVP1722 PLN
 49A TX AUSTIN BMPCDT 20060623AAC CP

Result key: 16
 Scenario 7 Affected station 18
 Before Analysis

Results for: 48A TX SAN ANTONIO USERRECORD01 APP
 HAAT 458.0 m, ATV ERP 905.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1954560	36916.1
not affected by terrain losses	1943577	36301.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	26953	604.6
lost to ATV IX only	26953	604.6
lost to all IX	26953	604.6

Potential Interfering Stations Included in above Scenario 7

48A TX GALVESTON DTVPLN DTVP1721 PLN
 48A TX IRVING BLCDT 20020909AAM LIC
 49A TX AUSTIN BLCDT 20060721ABF LIC

Result key: 17
 Scenario 8 Affected station 18
 Before Analysis

Results for: 48A TX SAN ANTONIO USERRECORD01 APP
 HAAT 458.0 m, ATV ERP 905.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1954560	36916.1
not affected by terrain losses	1943577	36301.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	32614	675.5
lost to ATV IX only	32614	675.5
lost to all IX	32614	675.5

Potential Interfering Stations Included in above Scenario 8

48A TX GALVESTON DTVPLN DTVP1721 PLN
 48A TX IRVING BLCDT 20020909AAM LIC
 49A TX AUSTIN DTVPLN DTVP1752 PLN

Result key: 18
 Scenario 9 Affected station 18
 Before Analysis

Results for: 48A TX SAN ANTONIO USERRECORD01 APP
 HAAT 458.0 m, ATV ERP 905.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1954560	36916.1
not affected by terrain losses	1943577	36301.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	26953	604.6
lost to ATV IX only	26953	604.6
lost to all IX	26953	604.6

Figure 3

Figure 3

lost to all IX 26953 604.6

Potential Interfering Stations Included in above Scenario 9

48A TX GALVESTON	DTVPNL	DTVP1721	PLN
48A TX IRVING	BLCDT	20020909AAM	LIC
49A TX AUSTIN	BMPCDT	20060623AAC	CP

Result key: 19
Scenario 10 Affected station 18
Before Analysis

Results for: 48A TX SAN ANTONIO USERRECORD01 APP
HAAT 458.0 m, ATV ERP 905.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1954560	36916.1
not affected by terrain losses	1943577	36301.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	26953	604.6
lost to ATV IX only	26953	604.6
lost to all IX	26953	604.6

Potential Interfering Stations Included in above Scenario 10

48A TX GALVESTON	DTVPNL	DTVP1721	PLN
48A TX IRVING	DTVPNL	DTVP1722	PLN
49A TX AUSTIN	BLCDT	20060721ABF	LIC

Result key: 20
Scenario 11 Affected station 18
Before Analysis

Results for: 48A TX SAN ANTONIO USERRECORD01 APP
HAAT 458.0 m, ATV ERP 905.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1954560	36916.1
not affected by terrain losses	1943577	36301.7
lost to NTSC IX	0	0.0
lost to additional IX by ATV	32614	675.5
lost to ATV IX only	32614	675.5
lost to all IX	32614	675.5

Potential Interfering Stations Included in above Scenario 11

48A TX GALVESTON	DTVPNL	DTVP1721	PLN
48A TX IRVING	DTVPNL	DTVP1722	PLN
49A TX AUSTIN	DTVPNL	DTVP1752	PLN

Result key: 21
Scenario 12 Affected station 18
Before Analysis

Results for: 48A TX SAN ANTONIO USERRECORD01 APP
HAAT 458.0 m, ATV ERP 905.0 kW

	POPULATION	AREA (sq km)
within Noise Limited Contour	1954560	36916.1
not affected by terrain losses	1943577	36301.7

lost to NTSC IX 0 0.0
lost to additional IX by ATV 26953 604.6
lost to ATV IX only 26953 604.6
lost to all IX 26953 604.6

Potential Interfering Stations Included in above Scenario 12

48A TX GALVESTON	DTVPNL	DTVP1721	PLN
48A TX IRVING	DTVPNL	DTVP1722	PLN
49A TX AUSTIN	BMPCDT	20060623AAC	CP

FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED

Figure 3

APPENDIX

TRANSMITTING ANTENNA
VERTICAL PLANE PATTERN

Proposal Number **C-00674**
Date **26-Sep-06**
Call Letters **WOAI-DT**
Location **San Antonio, TX**
Customer
Antenna Type **TFU-30GTH-R O4**

Channel **48**

ELEVATION PATTERN

RMS Gain at Main Lobe

27.00 (14.31 dB)

Beam Tilt

0.75 deg

RMS Gain at Horizontal

18.70 (12.72 dB)

Frequency

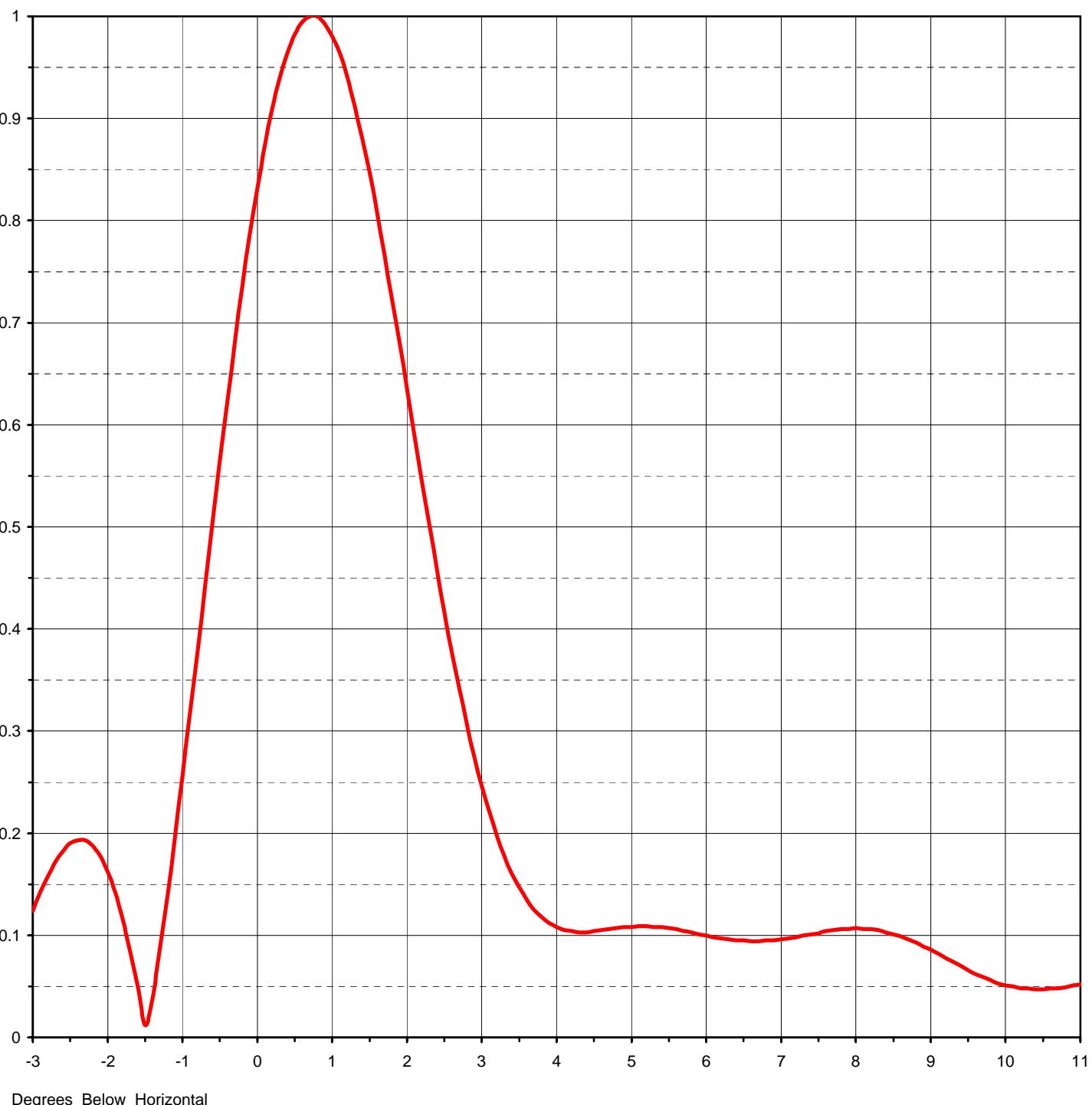
677.00 MHz

Calculated / Measured

Calculated

Drawing #

30G270075



Degrees Below Horizontal

Proposal Number **C-00674**
Date **26-Sep-06**
Call Letters **WOAI-DT** Channel **48**
Location **San Antonio, TX**
Customer
Antenna Type **TFU-30GTH-R O4**

ELEVATION PATTERN

RMS Gain at Main Lobe

27.00 (14.31 dB)

Beam Tilt

0.75 deg

RMS Gain at Horizontal

18.70 (12.72 dB)

Frequency

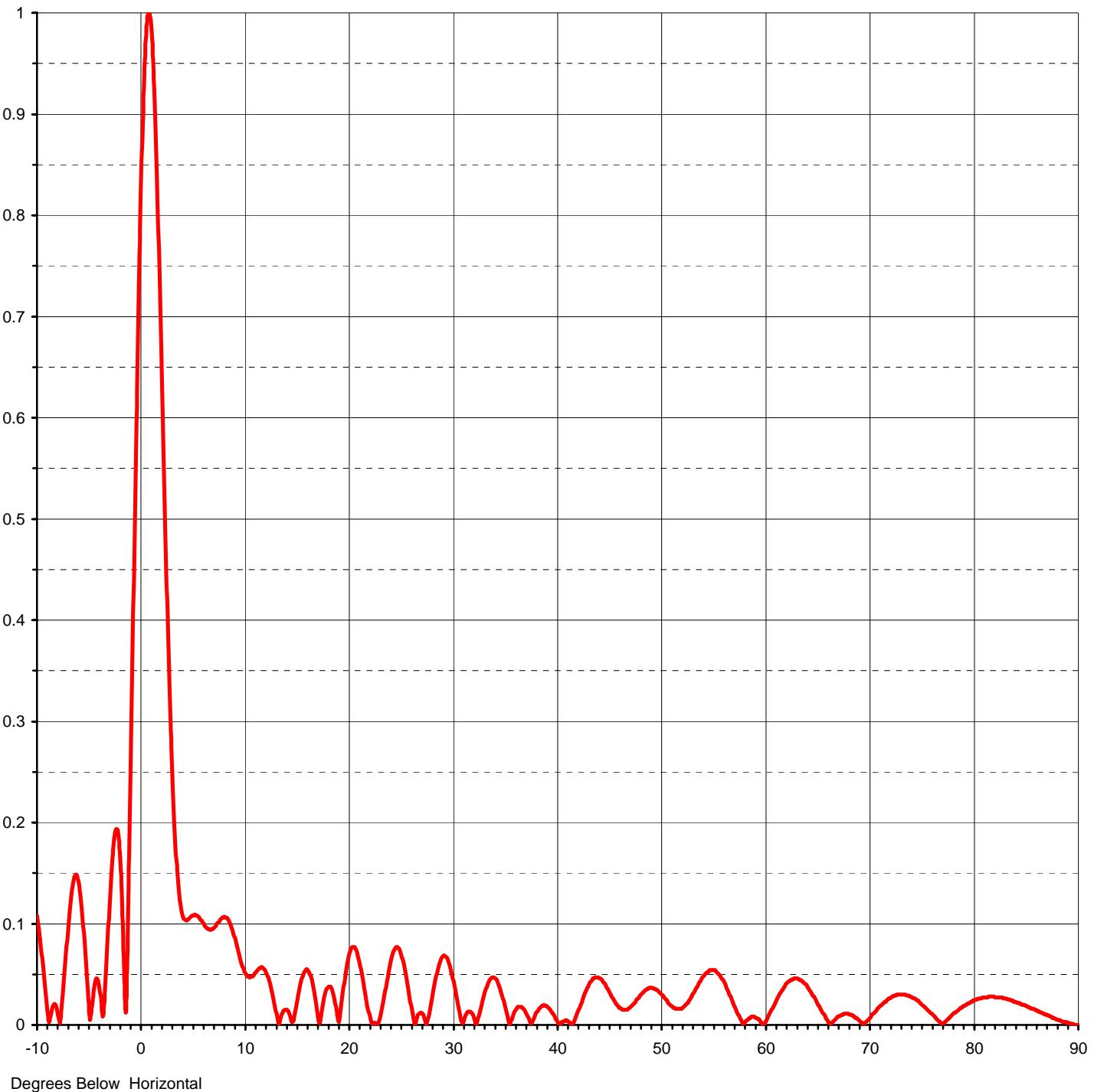
677.00 MHz

Calculated / Measured

Calculated

Drawing #

30G270075-90



Degrees Below Horizontal



Proposal Number **C-00674**
Date **26-Sep-06**
Call Letters **WOAI-DT** Channel **48**
Location **San Antonio, TX**
Customer
Antenna Type **TFU-30GTH-R O4**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **30G270075-90**

Angle	Field										
-10.0	0.108	2.4	0.458	10.6	0.047	30.5	0.022	51.0	0.019	71.5	0.023
-9.5	0.066	2.6	0.378	10.8	0.048	31.0	0.002	51.5	0.016	72.0	0.027
-9.0	0.015	2.8	0.307	11.0	0.051	31.5	0.013	52.0	0.016	72.5	0.029
-8.5	0.018	3.0	0.247	11.5	0.056	32.0	0.009	52.5	0.021	73.0	0.030
-8.0	0.012	3.2	0.198	12.0	0.054	32.5	0.008	53.0	0.029	73.5	0.029
-7.5	0.033	3.4	0.161	12.5	0.040	33.0	0.028	53.5	0.038	74.0	0.027
-7.0	0.096	3.6	0.135	13.0	0.016	33.5	0.043	54.0	0.047	74.5	0.024
-6.5	0.141	3.8	0.118	13.5	0.007	34.0	0.047	54.5	0.052	75.0	0.020
-6.0	0.141	4.0	0.108	14.0	0.015	34.5	0.038	55.0	0.054	75.5	0.015
-5.5	0.091	4.2	0.104	14.5	0.006	35.0	0.020	55.5	0.051	76.0	0.010
-5.0	0.017	4.4	0.103	15.0	0.019	35.5	0.001	56.0	0.044	76.5	0.005
-4.5	0.038	4.6	0.105	15.5	0.044	36.0	0.014	56.5	0.033	77.0	0.001
-4.0	0.037	4.8	0.107	16.0	0.055	36.5	0.018	57.0	0.020	77.5	0.006
-3.5	0.029	5.0	0.108	16.5	0.044	37.0	0.013	57.5	0.009	78.0	0.011
-3.0	0.124	5.2	0.109	17.0	0.015	37.5	0.002	58.0	0.001	78.5	0.015
-2.8	0.158	5.4	0.108	17.5	0.017	38.0	0.011	58.5	0.007	79.0	0.019
-2.6	0.182	5.6	0.106	18.0	0.037	38.5	0.018	59.0	0.008	79.5	0.022
-2.4	0.193	5.8	0.103	18.5	0.033	39.0	0.019	59.5	0.005	80.0	0.024
-2.2	0.188	6.0	0.100	19.0	0.005	39.5	0.013	60.0	0.002	80.5	0.026
-2.0	0.162	6.2	0.097	19.5	0.034	40.0	0.005	60.5	0.012	81.0	0.027
-1.8	0.116	6.4	0.095	20.0	0.066	40.5	0.003	61.0	0.022	81.5	0.028
-1.6	0.050	6.6	0.094	20.5	0.077	41.0	0.004	61.5	0.032	82.0	0.027
-1.4	0.038	6.8	0.095	21.0	0.065	41.5	0.001	62.0	0.040	82.5	0.027
-1.2	0.140	7.0	0.096	21.5	0.038	42.0	0.012	62.5	0.044	83.0	0.026
-1.0	0.255	7.2	0.098	22.0	0.011	42.5	0.025	63.0	0.046	83.5	0.024
-0.8	0.378	7.4	0.101	22.5	0.002	43.0	0.038	63.5	0.044	84.0	0.023
-0.6	0.503	7.6	0.104	23.0	0.006	43.5	0.046	64.0	0.039	84.5	0.021
-0.4	0.624	7.8	0.106	23.5	0.031	44.0	0.047	64.5	0.029	85.0	0.019
-0.2	0.735	8.0	0.107	24.0	0.059	44.5	0.042	65.0	0.020	85.5	0.016
0.0	0.832	8.2	0.106	24.5	0.076	45.0	0.034	65.5	0.011	86.0	0.014
0.2	0.909	8.4	0.103	25.0	0.072	45.5	0.024	66.0	0.003	86.5	0.012
0.4	0.964	8.6	0.099	25.5	0.051	46.0	0.017	66.5	0.004	87.0	0.010
0.6	0.994	8.8	0.093	26.0	0.020	46.5	0.015	67.0	0.008	87.5	0.007
0.8	1.000	9.0	0.086	26.5	0.004	47.0	0.017	67.5	0.011	88.0	0.005
1.0	0.981	9.2	0.078	27.0	0.012	47.5	0.022	68.0	0.010	88.5	0.003
1.2	0.941	9.4	0.070	27.5	0.001	48.0	0.029	68.5	0.008	89.0	0.002
1.4	0.882	9.6	0.062	28.0	0.024	48.5	0.034	69.0	0.004	89.5	0.001
1.6	0.808	9.8	0.059	28.5	0.051	49.0	0.037	69.5	0.002	90.0	0.000
1.8	0.724	10.0	0.053	29.0	0.067	49.5	0.035	70.0	0.007		
2.0	0.635	10.2	0.050	29.5	0.066	50.0	0.031	70.5	0.013		
2.2	0.545	10.4	0.048	30.0	0.048	50.5	0.025	71.0	0.019		