

TECHNICAL EXHIBIT  
DTV MAXIMIZATION APPLICATION  
STATION KICU-DT  
SAN JOSE, CALIFORNIA  
CH 36 1000 KW (MAX-DA) 686 M

Technical Narrative

This Technical Exhibit supports an application for digital television (DTV) station KICU-DT for its "maximized" DTV operation at San Jose, California. This application requests a construction permit (CP) for KICU-DT digital television operation on channel 36 at San Jose with a directional effective radiated power of 1000 kilowatts. KICU-DT intends to use a Dielectric TFU-30DSC/VP-R C170 directional transmitting antenna for digital operation.

Proposed Facilities

Station KICU-DT proposes to operate DTV channel 36 from its authorized DTV construction permit facility. The antenna height above average terrain for the channel 36 DTV operation will be 686 meters. The proposed KICU-DT effective radiated power exceeds the Commission's *Appendix B* allocated maximum effective radiated power in some azimuthal directions for KICU-DT.<sup>1</sup> Therefore, an allocation study was completed to ensure no prohibited interference would occur.

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<sup>1</sup> 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 atop the KICU-TV tower. Therefore, the proposed site location is:

37° 29' 17" North Latitude  
121° 51' 59" West Longitude

A sketch of antenna and pertinent elevations are included as Figure 1. The Appendix contains the vertical and horizontal 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 Jose 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 KICU-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 KICU-DT service area of 31,087 square kilometers is less than that of another station in the market, WPIX-DT, which serves 36,730 square kilometers. Therefore, pursuant to 73.622(f)(5), as the proposed KICU-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 KICU-DT "maximized" facility is predicted to serve 6,690,766 persons, post-transition based upon the 2000 Census. KICU-DT's associated Appendix B facility is predicted to serve 6,601,000 persons. Therefore, the herein proposed KICU-DT facility would serve more than 100% of KICU-DT's Appendix B population.

Allocation Considerations

The proposed KICU-DT Channel 36 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.<sup>2</sup> 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 KICU-DT facility are summarized herein at Figure 3. As indicated therein, the proposed facility will meet the 0.5% criterion outlined in the FCC

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<sup>2</sup> 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.

Rules and published guidelines with respect to all considered stations.<sup>3</sup>

FCC Monitoring Station

The proposed KICU-DT transmitter site is located 28.2 kilometers (17.5 miles) away from the *Livermore, California* FCC monitoring station. If necessary, coordination with the monitoring station is requested to ensure the proposed facility is in compliance with the requirements.

Radiofrequency Electromagnetic Field Exposure

The proposed KICU-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 KICU-DT antenna is located 175 meters above ground level. The maximum effective radiated power is 1000 kilowatts. A "worst case" downward relative field value of 0.1 is assumed for the antenna's downward radiation. The calculated power density at a point 2 meters above ground level is 0.0112 mW/cm<sup>2</sup>. This is less than 5 percent of the Commission's recommended limit of 0.4 mW/cm<sup>2</sup> for channel 36 for an "uncontrolled" environment.

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<sup>3</sup> 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 KICU-DT. This properly reflects the net interference change for determining compliance with the FCC 0.5% *de minimis* standard.

***du Treil, Lundin & Rackley, Inc.***

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Consulting Engineers

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San Jose, California

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. 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 KICU-DT operation appears to be otherwise categorically excluded from environmental processing.

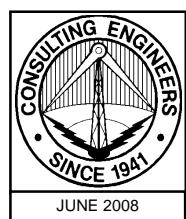
It is noted that this statement only addresses the potential for radiofrequency electromagnetic field exposure. All other aspects of the environmental processing analysis will be or already have been provided to the FCC by the tower owner.

Charles Cooper

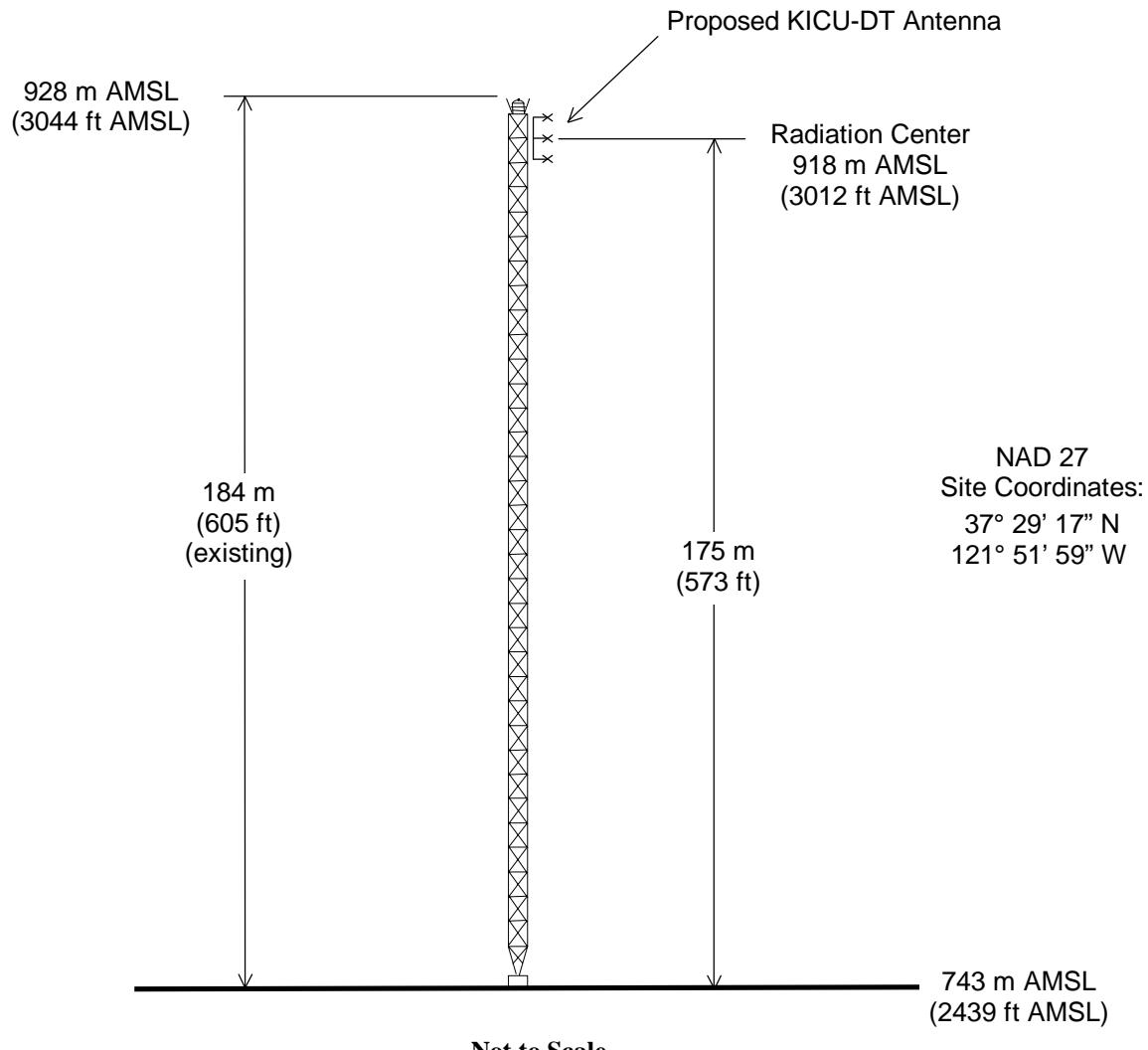
du Treil, Lundin & Rackley, Inc.  
201 Fletcher Avenue  
Sarasota, Florida 32437  
941.329.6000

June 6, 2008

**Figure 1**



**ASR: 1019291**



## **ANTENNA AND SUPPORTING STRUCTURE**

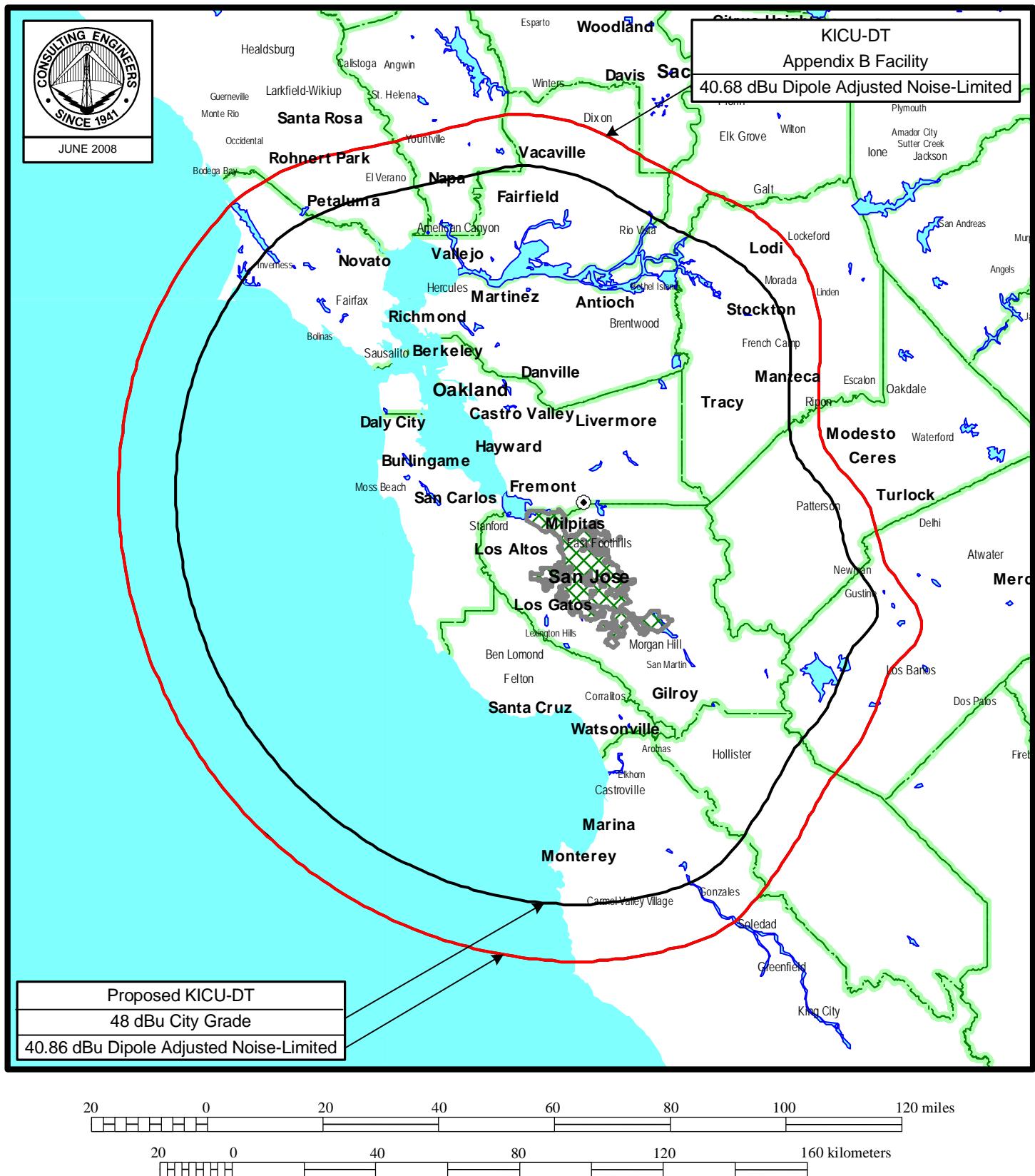
**DTV STATION KICU-DT**

**SAN JOSE, CALIFORNIA**

**CH 36 1000 KW (MAX-DA) 686 M**

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

Figure 2



## PREDICTED COVERAGE CONTOURS

STATION KICU-DT

SAN JOSE, CALIFORNIA

CH 36 1000 KW (MAX-DA) 686 M

du Treil, Lundin & Rackley, Inc Sarasota, Florida

**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: 06-06-2008 Time: 11:01:16

Record Selected for Analysis

KICU-TV USERRECORD-01 SAN JOSE CA US  
 Channel 36 ERP 1000. kW HAAT 692. m RCAMSL 00918 m  
 Latitude 037-29-17 Longitude 0121-51-59  
 Status APP Zone 2 Border  
 Dir Antenna Make CDB Model 0000000085202 Beam tilt N Ref Azimuth 0.  
 Last update Cutoff date Docket  
 Comments  
 Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility does not meet maximum height/power limits  
 Channel 36 ERP = 1000.00 HAAT = 692.

| Azimuth (Deg) | ERP (kW) | HAAT (m) | 41.0 dBu F(50,90) (km) |
|---------------|----------|----------|------------------------|
| 0.0           | 133.956  | 730.8    | 107.8                  |
| 45.0          | 58.564   | 529.4    | 91.3                   |
| 90.0          | 133.956  | 320.8    | 82.4                   |
| 135.0         | 878.906  | 450.6    | 109.4                  |
| 180.0         | 888.199  | 858.7    | 131.0                  |
| 225.0         | 792.786  | 906.6    | 131.5                  |
| 270.0         | 882.211  | 904.8    | 132.7                  |
| 315.0         | 864.721  | 832.6    | 129.8                  |

Evaluation toward Class A Stations

Contour overlap to Class A station  
 KAXT-CA 22 SANTA CLARA-SAN JOSE CA BLTTA 20031010AAT

Contour overlap to Class A station  
 KJCN-LP 36 PASO ROBLES CA BLTTL 19870602IA

Class A Evaluation Complete

Proposed facility is 28.2km from FCC Monitoring station at Livermore CA  
 Bearing: 20.7 degrees ERP: 42.44 kW HAAT: 695.7 m  
 Field = 19.8 mV/m

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 beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

\*\*\*\*\* Start of Interference Analysis

| Channel | Call    | City/State  | ARN          |
|---------|---------|-------------|--------------|
| 36      | KICU-TV | SAN JOSE CA | USERRECORD01 |

Stations Potentially Affected by Proposed Station

| Chan | Call    | City/State               | Dist(km) | Status | Application Ref. No. |
|------|---------|--------------------------|----------|--------|----------------------|
| 22   | KAXT-CA | SANTA CLARA-SAN JOSE CA  | 20.8     | LIC    | BLTTA -20031010AAT   |
| 28   | KFTL-CA | SAN FRANCISCO, ETC. CA   | 54.7     | LIC    | BLTTA -20050105ACB   |
| 28   | KDTV-CA | SANTA ROSA CA            | 145.4    | LIC    | BLTTA -20030212AAT   |
| 33   | KDJT-CA | SALINAS-MONTEREY, ET CA  | 50.7     | LIC    | BLTTL -19931014JE    |
| 33   | KDJT-CA | SALINAS/MONTEREY, ETC CA | 87.5     | APP    | BSTA -20061120ABM    |
| 33   | KDJT-CA | SALINAS/MONTEREY, ETC CA | 87.5     | APP    | BSTA -20060822AIZ    |
| 35   | KCRA-TV | SACRAMENTO CA            | 92.5     | CP     | BPCDT -20080208AEM   |
| 35   | KCRA-TV | SACRAMENTO CA            | 92.5     | PLN    | DTVPLN -DTVPL1280    |
| 35   | KCRA-TV | SACRAMENTO CA            | 90.3     | LIC    | BLCDT -20040122ADR   |
| 36   | KJCN-LP | PASO ROBLES CA           | 260.1    | LIC    | BLTTL -19870602IA    |
| 36   | KFRE-TV | SANGER CA                | 219.9    | LIC    | BLCDT -20060421AAI   |
| 36   | KFRE-TV | SANGER CA                | 219.9    | PLN    | DTVPLN -DTVPL1319    |

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Analysis of Interference to Affected Station 1

| Channel | Call    | City/State              | Application Ref. No. |
|---------|---------|-------------------------|----------------------|
| 22      | KAXT-CA | SANTA CLARA-SAN JOSE CA | BLTTA -20031010AAT   |

Stations Potentially Affecting This Station

| Chan | Call    | City/State | Dist(km) | Status | Application Ref. No. |
|------|---------|------------|----------|--------|----------------------|
| 14   | KTNC-TV | CONCORD CA | 63.7     | CP MOD | BMPCDT -20080222ABB  |
| 14   | KTNC-TV | CONCORD CA | 63.7     | PLN    | DTVPLN -DTVPL0494    |
| 15   | KBSV    | CERES CA   | 50.4     | CP MOD | BMPEDT -20060622ABE  |

**Figure 3**

**Figure 3**

|    |         |                  |       |     |               |              |
|----|---------|------------------|-------|-----|---------------|--------------|
| 15 | KBSV    | CERES CA         | 50.4  | PLN | DTVPLN        | -DTVPO520    |
| 18 | KUVS-TV | MODESTO CA       | 126.6 | LIC | BLCDT         | -20020906ABH |
| 18 | KUVS-TV | MODESTO CA       | 126.6 | PLN | DTVPLN        | -DTVPO632    |
| 19 | KUVS-TV | MODESTO CA       | 126.6 | LIC | BLCT          | -20011012ABT |
| 19 | KBWB    | SAN FRANCISCO CA | 78.0  | LIC | BLCDT         | -20000421ABF |
| 19 | KBWB    | SAN FRANCISCO CA | 78.0  | PLN | DTVPLN        | -DTVPO668    |
| 20 | KBWB    | SAN FRANCISCO CA | 78.0  | LIC | BLCT          | -19851206KM  |
| 21 | KMAX-TV | SACRAMENTO CA    | 107.2 | LIC | BLCDT         | -20041018ABT |
| 21 | KMAX-TV | SACRAMENTO CA    | 107.2 | PLN | DTVPLN        | -DTVP0752    |
| 22 | KRCB    | COTATI CA        | 135.0 | LIC | BLET          | -20070905AAG |
| 22 | KZMM-CA | FRESNO CA        | 207.6 | LIC | BLTTA         | -20050525ARK |
| 22 | K22FR   | SACRAMENTO CA    | 154.5 | LIC | BLTT          | -20061204ADU |
| 22 | KMBY-LP | SOLEDAD CA       | 145.0 | CP  | BDISSTL       | -20071130AAM |
| 22 | KDTS-LP | STOCKTON CA      | 64.6  | APP | BDISSTL       | -20061121AKD |
| 23 | KBSV    | CERES CA         | 76.4  | LIC | BLET          | -19960319KE  |
| 23 | KMUV-LP | MONTEREY CA      | 66.9  | LIC | BLTTL         | -20070402KQD |
| 25 | KOVR    | STOCKTON CA      | 104.3 | LIC | BLCDT         | -20050516ANE |
| 25 | KOVR    | STOCKTON CA      | 104.3 | PLN | DTVPLN        | -DTVP0916    |
| 25 | KQET    | WATSONVILLE CA   | 66.9  | PLN | DTVPLN        | -DTVP0917    |
| 25 | KQET    | WATSONVILLE CA   | 66.9  | CP  | BPEDT         | -20080314ACH |
| 25 | KQET    | WATSONVILLE CA   | 66.9  | CP  | BPET          | -20040803ACB |
| 25 | KQET    | WATSONVILLE CA   | 66.9  | APP | BFRCET        | -20050811AAH |
| 26 | KTSF    | SAN FRANCISCO CA | 72.3  | LIC | BLCT          | -2507        |
| 26 | KTFK-TV | STOCKTON CA      | 104.3 | CP  | BPCDT         | -20080317AGF |
| 26 | KTFK-TV | STOCKTON CA      | 104.3 | PLN | DTVPLN        | -DTVP0949    |
| 29 | KPIX-TV | SAN FRANCISCO CA | 78.0  | LIC | BLCDT         | -19990301KF  |
| 29 | KPIX-TV | SAN FRANCISCO CA | 78.0  | PLN | DTVPLN        | -DTVP1066    |
| 29 | KPIX-TV | SAN FRANCISCO CA | 78.0  | CP  | BPCDT         | -20080303ABP |
| 30 | KQED    | SAN FRANCISCO CA | 78.0  | CP  | BPEDT         | -20080314ACI |
| 30 | KQED    | SAN FRANCISCO CA | 78.0  | PLN | DTVPLN        | -DTVP1103    |
| 30 | KQED    | SAN FRANCISCO CA | 78.0  | LIC | BLEDT         | -20000601ADY |
| 36 | KICU-TV | SAN JOSE CA      | 20.8  | CP  | BPCDT         | -20080311ABL |
| 36 | KICU-TV | SAN JOSE CA      | 20.8  | PLN | DTVPLN        | -DTVP1318    |
| 36 | KICU-TV | SAN JOSE CA      | 20.8  | LIC | BLCT          | -19881116KE  |
| 36 | KICU-TV | SAN JOSE CA      | 20.8  | 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. |
|---------|---------|------------------------|----------------------|
| 28      | KFTL-CA | SAN FRANCISCO, ETC. CA | BLTTA -20050105ACB   |

##### Stations Potentially Affecting This Station

| Chan | Call    | City/State     | Dist(km) | Status | Application Ref. No. |
|------|---------|----------------|----------|--------|----------------------|
| 21   | KMAX-TV | SACRAMENTO CA  | 104.7    | LIC    | BLCDT -20041018ABT   |
| 21   | KMAX-TV | SACRAMENTO CA  | 104.7    | PLN    | DTVPLN -DTVP0752     |
| 25   | KOVR    | STOCKTON CA    | 102.2    | LIC    | BLCDT -20050516ANE   |
| 25   | KOVR    | STOCKTON CA    | 102.2    | PLN    | DTVPLN -DTVP0916     |
| 25   | KQET    | WATSONVILLE CA | 132.4    | PLN    | DTVPLN -DTVP0917     |
| 25   | KQET    | WATSONVILLE CA | 132.4    | CP     | BPEDT -20080314ACH   |
| 25   | KQET    | WATSONVILLE CA | 132.4    | CP     | BPET -20040803ACB    |

|    |         |                  |       |        |                      |
|----|---------|------------------|-------|--------|----------------------|
| 25 | KQET    | WATSONVILLE CA   | 132.4 | APP    | BFRCET -20050811AAH  |
| 26 | KTSF    | SAN FRANCISCO CA | 0.1   | LIC    | BLCT -2507           |
| 26 | KTFK-TV | STOCKTON CA      | 102.2 | CP     | BPCDT -20080317AGF   |
| 26 | KTFK-TV | STOCKTON CA      | 102.2 | PLN    | DTVPLN -DTVP0949     |
| 27 | KTSF    | SAN FRANCISCO CA | 0.1   | LIC    | BLCDT -20050131AOD   |
| 27 | KTSF    | SAN FRANCISCO CA | 0.1   | PLN    | DTVPLN -DTVP0989     |
| 28 | KKPM-CA | CHICO CA         | 177.0 | LIC    | BLTTA -20040805ABM   |
| 28 | KBVI    | EUREKA CA        | 362.9 | CP MOD | BMPCDT -20051220AIY  |
| 28 | KBVI    | EUREKA CA        | 362.9 | PLN    | DTVPLN -DTVP1029     |
| 28 | KDTV-CA | SANTA ROSA CA    | 108.9 | LIC    | BLTTA -20030212AAT   |
| 28 | KMWW-LP | STOCKTON CA      | 157.4 | CP     | BDISSTL -20060403AOS |
| 28 | KMHP-TV | VISALIA CA       | 334.6 | LIC    | BLCDT -20030204AGN   |
| 28 | KMHP-TV | VISALIA CA       | 334.6 | PLN    | DTVPLN -DTVP1031     |
| 29 | KSPX    | SACRAMENTO CA    | 104.7 | APP    | BPCDT -20031002AEJ   |
| 29 | KPIX-TV | SAN FRANCISCO CA | 7.7   | LIC    | BLCDT -19990301KF    |
| 29 | KPIX-TV | SAN FRANCISCO CA | 7.7   | PLN    | DTVPLN -DTVP1066     |
| 29 | KPIX-TV | SAN FRANCISCO CA | 7.7   | CP     | BPCDT -20080303ABP   |
| 30 | KQED    | SAN FRANCISCO CA | 7.7   | CP     | BPEDT -20080314ACI   |
| 30 | KQED    | SAN FRANCISCO CA | 7.7   | PLN    | DTVPLN -DTVP1103     |
| 30 | KQED    | SAN FRANCISCO CA | 7.7   | LIC    | BLEDT -20000601ADY   |
| 31 | KSMS-TV | MONTEREY CA      | 132.4 | CP     | BPCDT -19991101AFU   |
| 31 | KSMS-TV | MONTEREY CA      | 132.4 | PLN    | DTVPLN -DTVP1132     |
| 31 | KMAX-TV | SACRAMENTO CA    | 104.7 | LIC    | BLCT -20021125AAK    |
| 32 | KMTP-TV | SAN FRANCISCO CA | 7.7   | LIC    | BLET -19910910KE     |
| 32 | KFTY    | SANTA ROSA CA    | 110.5 | CP     | BPCDT -20080313ACF   |
| 32 | KFTY    | SANTA ROSA CA    | 110.5 | PLN    | DTVPLN -DTVP1173     |
| 35 | KCRA-TV | SACRAMENTO CA    | 104.7 | CP     | BPCDT -20080208AEM   |
| 35 | KCRA-TV | SACRAMENTO CA    | 104.7 | PLN    | DTVPLN -DTVP1280     |
| 35 | KCRA-TV | SACRAMENTO CA    | 102.7 | LIC    | BLCDT -20040122ADR   |
| 36 | KICU-TV | SAN JOSE CA      | 54.7  | CP     | BPCDT -20080311ABL   |
| 36 | KICU-TV | SAN JOSE CA      | 54.7  | PLN    | DTVPLN -DTVP1318     |
| 42 | KTNC-TV | CONCORD CA       | 52.3  | LIC    | BLCT -19830630KF     |
| 43 | KCSM-TV | SAN MATEO CA     | 7.7   | LIC    | BLEDT -20030822AFZ   |
| 43 | KCSM-TV | SAN MATEO CA     | 7.7   | PLN    | DTVPLN -DTVP1529     |
| 36 | KICU-TV | SAN JOSE CA      | 54.7  | 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. |
|---------|---------|---------------|----------------------|
| 28      | KDTV-CA | SANTA ROSA CA | BLTTA -20030212AAT   |

##### Stations Potentially Affecting This Station

|    |         |                  |       |     |                    |
|----|---------|------------------|-------|-----|--------------------|
| 21 | KMAX-TV | SACRAMENTO CA    | 107.1 | LIC | BLCDT -20041018ABT |
| 21 | KMAX-TV | SACRAMENTO CA    | 107.1 | PLN | DTVPLN -DTVP0752   |
| 25 | KOVR    | STOCKTON CA      | 107.5 | LIC | BLCDT -20050516ANE |
| 25 | KOVR    | STOCKTON CA      | 107.5 | PLN | DTVPLN -DTVP0916   |
| 26 | KTFK-TV | STOCKTON CA      | 107.5 | CP  | BPCDT -20080317AGF |
| 26 | KTFK-TV | STOCKTON CA      | 107.5 | PLN | DTVPLN -DTVP0949   |
| 27 | KTSF    | SAN FRANCISCO CA | 108.9 | LIC | BLCDT -20050131AOD |

**Figure 3**

**Figure 3**

|    |         |                        |       |        |               |              |
|----|---------|------------------------|-------|--------|---------------|--------------|
| 27 | KTSF    | SAN FRANCISCO CA       | 108.9 | PLN    | DTVPLN        | -DTVP0989    |
| 28 | KKPM-CA | CHICO CA               | 92.0  | LIC    | BLTTA         | -20040805ABM |
| 28 | KBVU    | EUREKA CA              | 257.8 | CP MOD | BMPCT         | -20051220AIY |
| 28 | KBVU    | EUREKA CA              | 257.8 | PLN    | DTVPLN        | -DTVP1029    |
| 28 | KFTL-CA | SAN FRANCISCO, ETC. CA | 108.9 | LIC    | BLTTA         | -20050105ACB |
| 28 | KMMW-LP | STOCKTON CA            | 175.2 | CP     | BDISTTL       | -20060403ABA |
| 29 | KSPX    | SACRAMENTO CA          | 107.1 | APP    | BPCDT         | -20031002AEJ |
| 29 | KPIX-TV | SAN FRANCISCO CA       | 101.1 | LIC    | BLCDT         | -19990301KF  |
| 29 | KPIX-TV | SAN FRANCISCO CA       | 101.1 | PLN    | DTVPLN        | -DTVP1066    |
| 29 | KPIX-TV | SAN FRANCISCO CA       | 101.2 | CP     | BPCDT         | -20080303ABP |
| 30 | KQED    | SAN FRANCISCO CA       | 101.2 | CP     | BPEDT         | -20080314ACI |
| 30 | KQED    | SAN FRANCISCO CA       | 101.2 | PLN    | DTVPLN        | -DTVP1103    |
| 30 | KQED    | SAN FRANCISCO CA       | 101.2 | LIC    | BLEDT         | -20000601ADY |
| 32 | KFTY    | SANTA ROSA CA          | 2.0   | CP     | BPCDT         | -20080313ACF |
| 32 | KFTY    | SANTA ROSA CA          | 2.0   | PLN    | DTVPLN        | -DTVP1173    |
| 35 | KCRA-TV | SACRAMENTO CA          | 107.1 | CP     | BPCDT         | -20080208AEM |
| 35 | KCRA-TV | SACRAMENTO CA          | 107.1 | PLN    | DTVPLN        | -DTVP1280    |
| 35 | KCRA-TV | SACRAMENTO CA          | 107.1 | LIC    | BLCDT         | -20040122ADR |
| 36 | KICU-TV | SAN JOSE CA            | 145.4 | CP     | BPCDT         | -20080311ABL |
| 36 | KICU-TV | SAN JOSE CA            | 145.4 | PLN    | DTVPLN        | -DTVP1318    |
| 42 | KTNC-TV | CONCORD CA             | 105.4 | LIC    | BLCT          | -19830630KF  |
| 43 | KCSM-TV | SAN MATEO CA           | 101.2 | LIC    | BLEDT         | -20030822AFZ |
| 43 | KCSM-TV | SAN MATEO CA           | 101.2 | PLN    | DTVPLN        | -DTVP1529    |
| 43 | K43AF   | UKIAH CA               | 65.9  | LIC    | BLTT          | -19830125IL  |
| 36 | KICU-TV | SAN JOSE CA            | 145.4 | APP    | USERRECORD-01 |              |

Proposed station is beyond the site to  
nearest cell evaluation distance

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#### Analysis of Interference to Affected Station 4

Analysis of current record  
 Channel Call City/State Application Ref. No.  
 33 KDJT-CA SALINAS-MONTEREY, ET CA BLTTL -19931014JE

#### Stations Potentially Affecting This Station

| Chan | Call    | City/State       | Dist(km) | Status | Application Ref. No. |
|------|---------|------------------|----------|--------|----------------------|
| 25   | KOVR    | STOCKTON CA      | 135.3    | LIC    | BLCDT -2005016ANE    |
| 25   | KOVR    | STOCKTON CA      | 135.3    | PLN    | DTVPLN -DTVP0916     |
| 25   | KQET    | WATSONVILLE CA   | 39.0     | PLN    | DTVPLN -DTVP0917     |
| 25   | KQET    | WATSONVILLE CA   | 38.9     | CP     | BPEDT -20080314ACH   |
| 25   | KQET    | WATSONVILLE CA   | 38.9     | APP    | BFRCET -20050811AAH  |
| 26   | KTSF    | SAN FRANCISCO CA | 93.4     | LIC    | BLCT -2507           |
| 26   | KTPK-TV | STOCKTON CA      | 135.3    | CP     | BPCDT -20080317AGF   |
| 26   | KTPK-TV | STOCKTON CA      | 135.3    | PLN    | DTVPLN -DTVP0949     |
| 29   | KPIX-TV | SAN FRANCISCO CA | 100.4    | LIC    | BLCDT -19990301KF    |
| 29   | KPIX-TV | SAN FRANCISCO CA | 100.4    | PLN    | DTVPLN -DTVP1066     |
| 29   | KPIX-TV | SAN FRANCISCO CA | 100.3    | CP     | BPCDT -20080303ABP   |
| 30   | KQED    | SAN FRANCISCO CA | 100.3    | CP     | BPEDT -20080314ACI   |
| 30   | KQED    | SAN FRANCISCO CA | 100.3    | PLN    | DTVPLN -DTVP1103     |
| 30   | KQED    | SAN FRANCISCO CA | 100.3    | LIC    | BLEDT -20000601ADY   |
| 31   | KSMS-TV | MONTEREY CA      | 38.9     | CP     | BPCDT -19991101AFU   |

|    |         |                    |       |     |                    |
|----|---------|--------------------|-------|-----|--------------------|
| 31 | KSMS-TV | MONTEREY CA        | 38.9  | PLN | DTVPLN -DTVP1132   |
| 32 | KION-TV | MONTEREY CA        | 57.5  | LIC | BLCDT -20030604ACO |
| 32 | KION-TV | MONTEREY CA        | 57.5  | PLN | DTVPLN -DTVP1172   |
| 32 | KION-TV | MONTEREY CA        | 57.5  | APP | BPCDT -19991201AAR |
| 32 | KMTP-TV | SAN FRANCISCO CA   | 100.4 | LIC | BLCT -19910910KE   |
| 33 | KBAK-TV | BAKERSFIELD CA     | 334.2 | LIC | BLCDT -2006028ABK  |
| 33 | KBAK-TV | BAKERSFIELD CA     | 334.2 | PLN | DTVPLN -DTVP1208   |
| 33 | KCSO-LP | SACRAMENTO CA      | 150.6 | LIC | BLTTL -20020503AAV |
| 33 | KMTP-TV | SAN FRANCISCO CA   | 100.3 | CP  | BPEDT -20000501AGF |
| 33 | KMTP-TV | SAN FRANCISCO CA   | 100.4 | PLN | DTVPLN -DTVP1209   |
| 33 | KTAS    | SAN LUIS OBISPO CA | 211.2 | LIC | BLCT -19900416KF   |
| 34 | KFSF-TV | VALLEJO CA         | 100.3 | LIC | BLCDT -20030620ABV |
| 34 | KFSF-TV | VALLEJO CA         | 100.3 | PLN | DTVPLN -DTVP1242   |
| 35 | KCRA-TV | SACRAMENTO CA      | 138.2 | CP  | BPCDT -20080208AEM |
| 35 | KCRA-TV | SACRAMENTO CA      | 138.2 | PLN | DTVPLN -DTVP1280   |
| 35 | KCRA-TV | SACRAMENTO CA      | 136.0 | LIC | BLCDT -20040122ADR |
| 36 | KICU-TV | SAN JOSE CA        | 50.7  | CP  | BPCDT -20080311ABL |
| 36 | KICU-TV | SAN JOSE CA        | 50.7  | PLN | DTVPLN -DTVP1318   |
| 40 | KTXL    | SACRAMENTO CA      | 138.7 | PLN | DTVPLN -DTVP1427   |
| 40 | KTXL    | SACRAMENTO CA      | 138.7 | CP  | BPCDT -20080320ABI |
| 41 | KKPX    | SAN JOSE CA        | 93.5  | LIC | BLCDT -20021108ABD |
| 41 | KKPX    | SAN JOSE CA        | 93.5  | PLN | DTVPLN -DTVP1463   |
| 47 | KTLN-TV | NOVATO CA          | 143.6 | CP  | BPCDT -19991026ABE |
| 47 | KTLN-TV | NOVATO CA          | 143.6 | PLN | DTVPLN -DTVP1668   |
| 48 | KSPX    | SACRAMENTO CA      | 138.2 | LIC | BLCDT -20050110ABB |
| 48 | KSPX    | SACRAMENTO CA      | 138.2 | PLN | DTVPLN -DTVP1699   |
| 48 | KSTS    | SAN JOSE CA        | 52.0  | LIC | BLCT -19990721KE   |
| 48 | KSTS    | SAN JOSE CA        | 52.0  | APP | BPCT -20001215ABL  |
| 36 | KICU-TV | SAN JOSE CA        | 50.7  | APP | USERRECORD-01      |

Proposed station is beyond the site to  
nearest cell evaluation distance

#####

#### Analysis of Interference to Affected Station 5

Analysis of current record  
 Channel Call City/State Application Ref. No.  
 33 KDJT-CA SALINAS/MONTEREY, ETC CA BSTA -20061120ABM

#### Stations Potentially Affecting This Station

| Chan | Call    | City/State       | Dist(km) | Status | Application Ref. No. |
|------|---------|------------------|----------|--------|----------------------|
| 25   | KQET    | WATSONVILLE CA   | 0.0      | PLN    | DTVPLN -DTVP0917     |
| 25   | KQET    | WATSONVILLE CA   | 0.0      | CP     | BPEDT -20080314ACH   |
| 25   | KQET    | WATSONVILLE CA   | 0.0      | APP    | BFRCET -20050811AAH  |
| 26   | KTSF    | SAN FRANCISCO CA | 132.3    | LIC    | BLCT -2507           |
| 29   | KPIX-TV | SAN FRANCISCO CA | 139.3    | LIC    | BLCDT -19990301KF    |
| 29   | KPIX-TV | SAN FRANCISCO CA | 139.3    | PLN    | DTVPLN -DTVP1066     |
| 29   | KPIX-TV | SAN FRANCISCO CA | 139.3    | CP     | BPCDT -20080303ABP   |
| 30   | KQED    | SAN FRANCISCO CA | 139.3    | CP     | BPEDT -20080314ACI   |
| 30   | KQED    | SAN FRANCISCO CA | 139.3    | PLN    | DTVPLN -DTVP1103     |
| 30   | KQED    | SAN FRANCISCO CA | 139.3    | LIC    | BLEDT -20000601ADY   |
| 31   | KSMS-TV | MONTEREY CA      | 0.0      | CP     | BPCDT -19991101AFU   |

**Figure 3**

**Figure 3**

|    |         |                    |       |     |               |              |
|----|---------|--------------------|-------|-----|---------------|--------------|
| 31 | KSMS-TV | MONTEREY CA        | 0.0   | PLN | DTVPLN        | -DTVP1132    |
| 32 | KION-TV | MONTEREY CA        | 26.8  | LIC | BLCDT         | -20030604ACO |
| 32 | KION-TV | MONTEREY CA        | 26.8  | PLN | DTVPLN        | -DTVP1172    |
| 32 | KION-TV | MONTEREY CA        | 26.8  | APP | BPCDT         | -19991201AAR |
| 33 | KBAK-TV | BAKERSFIELD CA     | 298.9 | LIC | BLCDT         | -20060628ABK |
| 33 | KBAK-TV | BAKERSFIELD CA     | 298.9 | PLN | DTVPLN        | -DTVP1208    |
| 33 | KCSO-LP | SACRAMENTO CA      | 166.3 | LIC | BLTTL         | -20020503AAV |
| 33 | KMTP-TV | SAN FRANCISCO CA   | 139.3 | CP  | BPEDT         | -20000501AGF |
| 33 | KMTP-TV | SAN FRANCISCO CA   | 139.3 | PLN | DTVPLN        | -DTVP1209    |
| 33 | KTAS    | SAN LUIS OBISPO CA | 172.7 | LIC | BLCT          | -19900416KF  |
| 36 | KICU-TV | SAN JOSE CA        | 87.5  | CP  | BPCDT         | -20080311ABL |
| 36 | KICU-TV | SAN JOSE CA        | 87.5  | PLN | DTVPLN        | -DTVP1318    |
| 41 | KKPX    | SAN JOSE CA        | 132.4 | LIC | BLCDT         | -20021108ABD |
| 41 | KKPX    | SAN JOSE CA        | 132.4 | PLN | DTVPLN        | -DTVP1463    |
| 48 | KSTS    | SAN JOSE CA        | 88.8  | LIC | BLCT          | -19990721KE  |
| 48 | KSTS    | SAN JOSE CA        | 88.8  | APP | BPCT          | -20001215ABL |
| 36 | KICU-TV | SAN JOSE CA        | 87.5  | APP | USERRECORD-01 |              |

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 6

Analysis of current record

| Channel | Call    | City/State               | Application Ref. No. |
|---------|---------|--------------------------|----------------------|
| 33      | KDJT-CA | SALINAS/MONTEREY, ETC CA | BSTA -20060822AIZ    |

Stations Potentially Affecting This Station

| Chan | Call    | City/State         | Dist(km) | Status | Application Ref. No. |
|------|---------|--------------------|----------|--------|----------------------|
| 25   | KQET    | WATSONVILLE CA     | 0.0      | PLN    | DTVPLN -DTVP0917     |
| 25   | KQET    | WATSONVILLE CA     | 0.0      | CP     | BPEDT -20080314ACH   |
| 25   | KQET    | WATSONVILLE CA     | 0.0      | APP    | BFRCT -20050811AAH   |
| 26   | KTSF    | SAN FRANCISCO CA   | 132.3    | LIC    | BLCT -2507           |
| 29   | KPIX-TV | SAN FRANCISCO CA   | 139.3    | LIC    | BLCDT -19990301KF    |
| 29   | KPIX-TV | SAN FRANCISCO CA   | 139.3    | PLN    | DTVPLN -DTVP1066     |
| 29   | KPIX-TV | SAN FRANCISCO CA   | 139.3    | CP     | BPCDT -20080303ABP   |
| 30   | KQED    | SAN FRANCISCO CA   | 139.3    | CP     | BPEDT -20080314ACI   |
| 30   | KQED    | SAN FRANCISCO CA   | 139.3    | PLN    | DTVPLN -DTVP1103     |
| 30   | KQED    | SAN FRANCISCO CA   | 139.3    | LIC    | BLEDT -20000601ADY   |
| 31   | KSMS-TV | MONTEREY CA        | 0.0      | CP     | BPCDT -19991101AFU   |
| 31   | KSMS-TV | MONTEREY CA        | 0.0      | PLN    | DTVPLN -DTVP1132     |
| 32   | KION-TV | MONTEREY CA        | 26.8     | LIC    | BLCDT -20030604ACO   |
| 32   | KION-TV | MONTEREY CA        | 26.8     | PLN    | DTVPLN -DTVP1172     |
| 32   | KION-TV | MONTEREY CA        | 26.8     | APP    | BPCDT -19991201AAR   |
| 33   | KBAK-TV | BAKERSFIELD CA     | 298.9    | LIC    | BLCDT -20060628ABK   |
| 33   | KBAK-TV | BAKERSFIELD CA     | 298.9    | PLN    | DTVPLN -DTVP1208     |
| 33   | KCSO-LP | SACRAMENTO CA      | 166.3    | LIC    | BLTTL -20020503AAV   |
| 33   | KMTP-TV | SAN FRANCISCO CA   | 139.3    | CP     | BPEDT -20000501AGF   |
| 33   | KMTP-TV | SAN FRANCISCO CA   | 139.3    | PLN    | DTVPLN -DTVP1209     |
| 33   | KTAS    | SAN LUIS OBISPO CA | 172.7    | LIC    | BLCT -19900416KF     |
| 36   | KICU-TV | SAN JOSE CA        | 87.5     | CP     | BPCDT -20080311ABL   |
| 36   | KICU-TV | SAN JOSE CA        | 87.5     | PLN    | DTVPLN -DTVP1318     |

|    |         |             |       |     |                    |
|----|---------|-------------|-------|-----|--------------------|
| 41 | KKPX    | SAN JOSE CA | 132.4 | LIC | BLCDT -20021108ABD |
| 41 | KKPX    | SAN JOSE CA | 132.4 | PLN | DTVPLN -DTVP1463   |
| 48 | KSTS    | SAN JOSE CA | 88.8  | LIC | BLCT -19990721KE   |
| 48 | KSTS    | SAN JOSE CA | 88.8  | APP | BPCT -20001215ABL  |
| 36 | KICU-TV | SAN JOSE CA | 87.5  | APP | USERRECORD-01      |

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 7

Analysis of current record

| Channel | Call    | City/State    | Application Ref. No. |
|---------|---------|---------------|----------------------|
| 35      | KCRA-TV | SACRAMENTO CA | BPCDT -20080208AEM   |

Stations Potentially Affecting This Station

| Chan | Call    | City/State  | Dist(km) | Status | Application Ref. No. |
|------|---------|-------------|----------|--------|----------------------|
| 34   | KGPE    | FRESNO CA   | 225.0    | LIC    | BLCDT -20030702ABJ   |
| 34   | KGPE    | FRESNO CA   | 225.0    | PLN    | DTVPLN -DTVP1239     |
| 34   | KFSD-TV | VALLEJO CA  | 101.5    | LIC    | BLCDT -20030620ABV   |
| 34   | KFSD-TV | VALLEJO CA  | 101.5    | PLN    | DTVPLN -DTVP1242     |
| 36   | KICU-TV | SAN JOSE CA | 92.5     | PLN    | DTVPLN -DTVP1318     |
| 36   | KFRE-TV | SANGER CA   | 224.0    | LIC    | BLCDT -20060421AAI   |
| 36   | KFRE-TV | SANGER CA   | 224.0    | PLN    | DTVPLN -DTVP1319     |
| 36   | KICU-TV | SAN JOSE CA | 92.5     | APP    | USERRECORD-01        |

Total scenarios = 2

Result key: 1  
Scenario 1 Affected station  
Before Analysis

Results for: 35A CA SACRAMENTO BPCDT 20080208AEM CP

| HAAT                           | 579.0 m, ATV ERP 1000.0 kW | POPULATION | AREA (sq km) |
|--------------------------------|----------------------------|------------|--------------|
| within Noise Limited Contour   | 9653589                    | 45233.3    |              |
| not affected by terrain losses | 6071463                    | 38497.9    |              |
| lost to NTSC IX                | 0                          | 0.0        |              |
| lost to additional IX by ATV   | 1087579                    | 1082.2     |              |
| lost to ATV IX only            | 1087579                    | 1082.2     |              |
| lost to all IX                 | 1087579                    | 1082.2     |              |

Potential Interfering Stations Included in above Scenario 1

|                 |        |             |     |
|-----------------|--------|-------------|-----|
| 34A CA VALLEJO  | BLCDT  | 20030620ABV | LIC |
| 36A CA SAN JOSE | DTVPLN | DTVP1318    | PLN |

After Analysis

|   |                            |  |
|---|----------------------------|--|
| Results for: 35A CA SACRAMENTO BPCDT 20080208AEM CP |                            |  |
| HAAT  | 579.0 m, ATV ERP 1000.0 kW |  |

**Figure 3**

**Figure 3**

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 9653589    | 45233.3      |
| not affected by terrain losses | 6071463    | 38497.9      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 1095086    | 1118.5       |
| lost to ATV IX only            | 1095086    | 1118.5       |
| lost to all IX                 | 1095086    | 1118.5       |

Potential Interfering Stations Included in above Scenario 1

|                 |              |             |     |
|-----------------|--------------|-------------|-----|
| 34A CA VALLEJO  | BLCDT        | 20030620ABV | LIC |
| 36A CA SAN JOSE | USERRECORD01 |             | APP |

Percent new IX = 0.1506%

Result key: 2  
Scenario 2 Affected station 7  
Before Analysis

Results for: 35A CA SACRAMENTO BPCDT 20080208AEM CP  
HAAT 579.0 m, ATV ERP 1000.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 9653589    | 45233.3      |
| not affected by terrain losses | 6071463    | 38497.9      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 1087579    | 1082.2       |
| lost to ATV IX only            | 1087579    | 1082.2       |
| lost to all IX                 | 1087579    | 1082.2       |

Potential Interfering Stations Included in above Scenario 2

|                 |        |           |     |
|-----------------|--------|-----------|-----|
| 34A CA VALLEJO  | DTVPLN | DTVPL1242 | PLN |
| 36A CA SAN JOSE | DTVPLN | DTVPL1318 | PLN |

After Analysis

Results for: 35A CA SACRAMENTO BPCDT 20080208AEM CP  
HAAT 579.0 m, ATV ERP 1000.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 9653589    | 45233.3      |
| not affected by terrain losses | 6071463    | 38497.9      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 1095086    | 1118.5       |
| lost to ATV IX only            | 1095086    | 1118.5       |
| lost to all IX                 | 1095086    | 1118.5       |

Potential Interfering Stations Included in above Scenario 2

|                 |              |           |     |
|-----------------|--------------|-----------|-----|
| 34A CA VALLEJO  | DTVPLN       | DTVPL1242 | PLN |
| 36A CA SAN JOSE | USERRECORD01 |           | APP |

Percent new IX = 0.1506%

Worst case new IX 0.1506% Scenario 1

#####

Analysis of Interference to Affected Station 8

Analysis of current record  
Channel Call City/State Application Ref. No.  
35 KCRA-TV SACRAMENTO CA DTVPLN -DTVPL1280

Stations Potentially Affecting This Station

| Chan | Call    | City/State  | Dist(km) | Status | Application Ref. No. |
|------|---------|-------------|----------|--------|----------------------|
| 34   | KGPE    | FRESNO CA   | 225.0    | LIC    | BLCDT -20030702ABJ   |
| 34   | KGPE    | FRESNO CA   | 225.0    | PLN    | DTVPLN -DTVPL1239    |
| 34   | KFSD-TV | VALLEJO CA  | 101.5    | LIC    | BLCDT -20030620ABV   |
| 34   | KFSD-TV | VALLEJO CA  | 101.5    | PLN    | DTVPLN -DTVPL1242    |
| 36   | KICU-TV | SAN JOSE CA | 92.5     | PLN    | DTVPLN -DTVPL1318    |
| 36   | KFRE-TV | SANGER CA   | 224.0    | LIC    | BLCDT -20060421AAI   |
| 36   | KFRE-TV | SANGER CA   | 224.0    | PLN    | DTVPLN -DTVPL1319    |
| 36   | KICU-TV | SAN JOSE CA | 92.5     | APP    | USERRECORD-01        |

Total scenarios = 2

Result key: 3  
Scenario 1 Affected station 8  
Before Analysis

Results for: 35A CA SACRAMENTO DTVPLN DTVPL1280 PLN  
HAAT 591.0 m, ATV ERP 1000.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 9710741    | 45895.4      |
| not affected by terrain losses | 6106488    | 38950.1      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 1082406    | 1066.0       |
| lost to ATV IX only            | 1082406    | 1066.0       |
| lost to all IX                 | 1082406    | 1066.0       |

Potential Interfering Stations Included in above Scenario 1

|                 |        |             |     |
|-----------------|--------|-------------|-----|
| 34A CA VALLEJO  | BLCDT  | 20030620ABV | LIC |
| 36A CA SAN JOSE | DTVPLN | DTVPL1318   | PLN |

After Analysis

Results for: 35A CA SACRAMENTO DTVPLN DTVPL1280 PLN  
HAAT 591.0 m, ATV ERP 1000.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 9710741    | 45895.4      |
| not affected by terrain losses | 6106488    | 38950.1      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 1099559    | 1118.5       |
| lost to ATV IX only            | 1099559    | 1118.5       |
| lost to all IX                 | 1099559    | 1118.5       |

Potential Interfering Stations Included in above Scenario 1

|                |       |             |     |
|----------------|-------|-------------|-----|
| 34A CA VALLEJO | BLCDT | 20030620ABV | LIC |
|----------------|-------|-------------|-----|

**Figure 3**

```

36A CA SAN JOSE           USERRECORD01          APP
Percent new IX = 0.3414%
Result key: 4
Scenario 2 Affected station 8
Before Analysis

Results for: 35A CA SACRAMENTO      DTVPLN      DTVP1280      PLN
HAAT 591.0 m, ATV ERP 1000.0 kW
POPULATION      AREA (sq km)
within Noise Limited Contour 9710741 45895.4
not affected by terrain losses 6106488 38950.1
lost to NTSC IX 0 0.0
lost to additional IX by ATV 1082406 1066.0
lost to ATV IX only 1082406 1066.0
lost to all IX 1082406 1066.0

Potential Interfering Stations Included in above Scenario 2
34A CA VALLEJO      DTVPLN      DTVP1242      PLN
36A CA SAN JOSE      DTVPLN      DTVP1318      PLN

After Analysis

Results for: 35A CA SACRAMENTO      DTVPLN      DTVP1280      PLN
HAAT 591.0 m, ATV ERP 1000.0 kW
POPULATION      AREA (sq km)
within Noise Limited Contour 9710741 45895.4
not affected by terrain losses 6106488 38950.1
lost to NTSC IX 0 0.0
lost to additional IX by ATV 1099559 1118.5
lost to ATV IX only 1099559 1118.5
lost to all IX 1099559 1118.5

Potential Interfering Stations Included in above Scenario 2
34A CA VALLEJO      DTVPLN      DTVP1242      PLN
36A CA SAN JOSE      USERRECORD01          APP

Percent new IX = 0.3414%
Worst case new IX 0.3414% Scenario 1
#####
Analysis of Interference to Affected Station 9

Analysis of current record
Channel Call City/State Application Ref. No.
35 KCRA-TV SACRAMENTO CA BLCDT -20040122ADR

Stations Potentially Affecting This Station
Chan Call City/State Dist(km) Status Application Ref. No.

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34 KGPE      FRESNO CA 224.6 LIC BLCDT -20030702ABJ
34 KGPE      FRESNO CA 224.6 PLN DTVPLN -DTVP1239
34 KFSF-TV  VALLEJO CA 99.6 LIC BLCDT -20030620ABV
34 KFSF-TV  VALLEJO CA 99.6 PLN DTVPLN -DTVP1242
36 KICU-TV  SAN JOSE CA 90.3 PLN DTVPLN -DTVP1318
36 KFRE-TV  SANGER CA 223.6 LIC BLCDT -20060421AAI
36 KFRE-TV  SANGER CA 223.6 PLN DTVPLN -DTVP1319
36 KICU-TV  SAN JOSE CA 90.3 APP USERRECORD-01

Total scenarios = 2

Result key: 5
Scenario 1 Affected station 9
Before Analysis

Results for: 35A CA SACRAMENTO      BLCDT      20040122ADR      LIC
HAAT 462.0 m, ATV ERP 1000.0 kW
POPULATION      AREA (sq km)
within Noise Limited Contour 9065362 39559.8
not affected by terrain losses 5609554 34069.1
lost to NTSC IX 0 0.0
lost to additional IX by ATV 775548 881.9
lost to ATV IX only 775548 881.9
lost to all IX 775548 881.9

Potential Interfering Stations Included in above Scenario 1
34A CA VALLEJO      BLCDT      20030620ABV      LIC
36A CA SAN JOSE      DTVPLN      DTVP1318      PLN

After Analysis

Results for: 35A CA SACRAMENTO      BLCDT      20040122ADR      LIC
HAAT 462.0 m, ATV ERP 1000.0 kW
POPULATION      AREA (sq km)
within Noise Limited Contour 9065362 39559.8
not affected by terrain losses 5609554 34069.1
lost to NTSC IX 0 0.0
lost to additional IX by ATV 776735 921.8
lost to ATV IX only 776735 921.8
lost to all IX 776735 921.8

Potential Interfering Stations Included in above Scenario 1
34A CA VALLEJO      BLCDT      20030620ABV      LIC
36A CA SAN JOSE      USERRECORD01          APP

Percent new IX = 0.0246%
Result key: 6
Scenario 2 Affected station 9
Before Analysis

Results for: 35A CA SACRAMENTO      BLCDT      20040122ADR      LIC
HAAT 462.0 m, ATV ERP 1000.0 kW
POPULATION      AREA (sq km)

```

**Figure 3**

**Figure 3**

|   |                  |                    |                                      |
|---|------------------|--------------------|--------------------------------------|
| within Noise Limited Contour                                | 9065362          | 39559.8            |                                      |
| not affected by terrain losses                              | 5609554          | 34069.1            |                                      |
| lost to NTSC IX   | 0                | 0.0                |                                      |
| lost to additional IX by ATV                                | 775548           | 881.9              |                                      |
| lost to ATV IX only   | 775548           | 881.9              |                                      |
| lost to all IX  | 775548           | 881.9              |                                      |
| Potential Interfering Stations Included in above Scenario 2 |                  |                    |                                      |
| 34A CA VALLEJO  | DTVPNL           | DTVPL1242          | PLN                                  |
| 36A CA SAN JOSE   | DTVPNL           | DTVPL1318          | PLN                                  |
| After Analysis  |                  |                    |                                      |
| Results for: 35A CA SACRAMENTO BLCDT 20040122ADR LIC        |                  |                    |                                      |
| HAAT 462.0 m, ATV ERP 1000.0 kW                             | POPULATION       | AREA (sq km)       |                                      |
| within Noise Limited Contour                                | 9065362          | 39559.8            |                                      |
| not affected by terrain losses                              | 5609554          | 34069.1            |                                      |
| lost to NTSC IX   | 0                | 0.0                |                                      |
| lost to additional IX by ATV                                | 776735           | 921.8              |                                      |
| lost to ATV IX only   | 776735           | 921.8              |                                      |
| lost to all IX  | 776735           | 921.8              |                                      |
| Potential Interfering Stations Included in above Scenario 2 |                  |                    |                                      |
| 34A CA VALLEJO  | DTVPNL           | DTVPL1242          | PLN                                  |
| 36A CA SAN JOSE   | USERRECORD01     |                    | APP                                  |
| Percent new IX = 0.0246%                                    |                  |                    |                                      |
| Worst case new IX   | 0.0246% Scenario | 1                  |                                      |
| # #####   |                  |                    |                                      |
| Analysis of Interference to Affected Station 10             |                  |                    |                                      |
| Analysis of current record                                  |                  |                    |                                      |
| Channel   | Call             | City/State         | Application Ref. No.                 |
| 36  | KJCN-LP          | PASO ROBLES CA     | BLTTL -19870602IA                    |
| Stations Potentially Affecting This Station                 |                  |                    |                                      |
| Chan  | Call             | City/State         | Dist(km) Status Application Ref. No. |
| 34  | KTAS             | SAN LUIS OBISPO CA | 0.0 LIC BLCDT -20070222AAX           |
| 34  | KTAS             | SAN LUIS OBISPO CA | 0.0 PLN DTVPNL -DTVP1241             |
| 35  | K35ER            | SANTA MARIA CA     | 51.7 LIC BLTTL -19980902JD           |
| 35  | K35ER            | SANTA MARIA CA     | 65.8 APP BSTA -20071221AAD           |
| 36  | KBFK-LP          | BAKERSFIELD CA     | 173.7 LIC BLTTL -20040219ACE         |
| 36  | KNBC             | LOS ANGELES CA     | 268.1 CP BPCDT -20050406ACJ          |
| 36  | KNBC             | LOS ANGELES CA     | 268.1 PLN DTVPNL -DTVP1317           |
| 36  | KNBC             | LOS ANGELES CA     | 268.1 LIC BLCDT -19981123KG          |
| 36  | KICU-TV          | SAN JOSE CA        | 260.1 CP BPCDT -20080311ABL          |
| 36  | KICU-TV          | SAN JOSE CA        | 260.1 PLN DTVPNL -DTVP1318           |
| 36  | KICU-TV          | SAN JOSE CA        | 260.1 LIC BLCT -19881116KE           |

|                                 |       |     |               |              |
|---------------------------------|-------|-----|---------------|--------------|
| 36 KFRE-TV SANGER CA            | 220.0 | LIC | BLCDT         | -20060421AAI |
| 36 KFRE-TV SANGER CA            | 220.0 | PLN | DTVPNL        | -DTVP1319    |
| 36 KICU-TV SAN JOSE CA          | 260.1 | APP | USERRECORD-01 |              |
| Proposal causes no interference |       |     |               |              |
| # #####                         |       |     |               |              |

**Figure 3**

| Channel | Call    | City/State | Application Ref. No. |
|---------|---------|------------|----------------------|
| 36      | KFRE-TV | SANGER CA  | BLCDT -20060421AAI   |

Stations Potentially Affecting This Station

| Chan | Call    | City/State     | Dist(km) | Status | Application Ref. No. |
|------|---------|----------------|----------|--------|----------------------|
| 35   | KCRA-TV | SACRAMENTO CA  | 224.0    | CP     | BPCDT -20080208AEM   |
| 35   | KCRA-TV | SACRAMENTO CA  | 224.0    | PLN    | DTVPNL -DTVP1280     |
| 35   | KCRA-TV | SACRAMENTO CA  | 223.6    | LIC    | BLCDT -20040122ADR   |
| 36   | KNBC    | LOS ANGELES CA | 340.2    | CP     | BPCDT -20050406ACJ   |
| 36   | KNBC    | LOS ANGELES CA | 340.2    | PLN    | DTVPNL -DTVP1317     |
| 36   | KNBC    | LOS ANGELES CA | 340.2    | LIC    | BLCDT -19981123KG    |
| 36   | KICU-TV | SAN JOSE CA    | 219.9    | PLN    | DTVPNL -DTVP1318     |
| 36   | KICU-TV | SAN JOSE CA    | 219.9    | APP    | USERRECORD-01        |

Total scenarios = 3

Result key: 7  
Scenario 1 Affected station 11  
Before Analysis

| Channel | Call    | City/State     | Application Ref. No. |
|---------|---------|----------------|----------------------|
| 36      | KJCN-LP | PASO ROBLES CA | BLTTL -19870602IA    |

Results for: 36A CA SANGER BLCDT 20060421AAI LIC  
HAAT 607.0 m, ATV ERP 360.0 kW

| POPULATION                     | AREA (sq km) |         |
|--------------------------------|--------------|---------|
| within Noise Limited Contour   | 1453694      | 31044.2 |
| not affected by terrain losses | 1439164      | 27130.1 |
| lost to NTSC IX                | 0            | 0.0     |
| lost to additional IX by ATV   | 62           | 160.4   |
| lost to ATV IX only            | 62           | 160.4   |
| lost to all IX                 | 62           | 160.4   |

Potential Interfering Stations Included in above Scenario 1

|                    |        |             |     |
|--------------------|--------|-------------|-----|
| 36A CA LOS ANGELES | BPCDT  | 20050406ACJ | CP  |
| 36A CA SAN JOSE    | DTVPNL | DTVPL1318   | PLN |

After Analysis

|  |            |              |
|--|------------|--------------|
| Results for: 36A CA SANGER BLCDT 20060421AAI LIC<br>HAAT 607.0 m, ATV ERP 360.0 kW | POPULATION | AREA (sq km) |
| within Noise Limited Contour   | 1453694    | 31044.2      |
| not affected by terrain losses   | 1439164    | 27130.1      |
| lost to NTSC IX  | 0          | 0.0          |

**Figure 3**

```

lost to additional IX by ATV      62      176.5
lost to ATV IX only             62      176.5
lost to all IX                  62      176.5

Potential Interfering Stations Included in above Scenario      1

36A CA LOS ANGELES          BPCDT    20050406ACJ  CP
36A CA SAN JOSE              USERRECORD01   APP

Percent new IX =      0.0000%

Result key:      8
Scenario      2 Affected station      11
Before Analysis

Results for: 36A CA SANGER          BLCDT    20060421AAI  LIC
HAAT 607.0 m, ATV ERP 360.0 kW
                                         POPULATION  AREA (sq km)
within Noise Limited Contour  1453694    31044.2
not affected by terrain losses 1439164    27130.1
lost to NTSC IX                 0        0.0
lost to additional IX by ATV    62       176.5
lost to ATV IX only             62       176.5
lost to all IX                  62       176.4

Potential Interfering Stations Included in above Scenario      2

36A CA LOS ANGELES          DTVPLN    DTVP1317  PLN
36A CA SAN JOSE              DTVPLN    DTVP1318  PLN

After Analysis

Results for: 36A CA SANGER          BLCDT    20060421AAI  LIC
HAAT 607.0 m, ATV ERP 360.0 kW
                                         POPULATION  AREA (sq km)
within Noise Limited Contour  1453694    31044.2
not affected by terrain losses 1439164    27130.1
lost to NTSC IX                 0        0.0
lost to additional IX by ATV    62       176.5
lost to ATV IX only             62       176.5
lost to all IX                  62       176.5

Potential Interfering Stations Included in above Scenario      2

36A CA LOS ANGELES          DTVPLN    DTVP1317  PLN
36A CA SAN JOSE              USERRECORD01   APP

Percent new IX =      0.0000%

Result key:      9
Scenario      3 Affected station      11
Before Analysis

Results for: 36A CA SANGER          BLCDT    20060421AAI  LIC
HAAT 607.0 m, ATV ERP 360.0 kW
                                         POPULATION  AREA (sq km)
within Noise Limited Contour  1453694    31044.2

```

```

not affected by terrain losses  1439164    27130.1
lost to NTSC IX                  0        0.0
lost to additional IX by ATV     62       160.4
lost to ATV IX only              62       160.4
lost to all IX                  62       160.4

Potential Interfering Stations Included in above Scenario      3

36A CA LOS ANGELES          BLCDT    19981123KG  LIC
36A CA SAN JOSE              DTVPLN    DTVP1318  PLN

After Analysis

Results for: 36A CA SANGER          BLCDT    20060421AAI  LIC
HAAT 607.0 m, ATV ERP 360.0 kW
                                         POPULATION  AREA (sq km)
within Noise Limited Contour  1453694    31044.2
not affected by terrain losses  1439164    27130.1
lost to NTSC IX                  0        0.0
lost to additional IX by ATV     62       176.5
lost to ATV IX only              62       176.5
lost to all IX                  62       176.5

Potential Interfering Stations Included in above Scenario      3

36A CA LOS ANGELES          BLCDT    19981123KG  LIC
36A CA SAN JOSE              USERRECORD01   APP

Percent new IX =      0.0000%

Worst case new IX      0.0000% Scenario      1
#####

```

```

Analysis of Interference to Affected Station 12

Analysis of current record
Channel   Call           City/State      Application Ref. No.
36       KFRE-TV        SANGER CA        DTVPLN -DTVPL1319

```

#### Stations Potentially Affecting This Station

| Chan | Call    | City/State     | Dist(km) | Status | Application Ref. No. |
|------|---------|----------------|----------|--------|----------------------|
| 35   | KCRA-TV | SACRAMENTO CA  | 224.0    | CP     | BPCDT -20080208AEM   |
| 35   | KCRA-TV | SACRAMENTO CA  | 224.0    | PLN    | DTVPLN -DTVPL1280    |
| 35   | KCRA-TV | SACRAMENTO CA  | 223.6    | LIC    | BLCDT -20040122ADR   |
| 36   | KNBC    | LOS ANGELES CA | 340.2    | CP     | BPCDT -20050406ACJ   |
| 36   | KNBC    | LOS ANGELES CA | 340.2    | PLN    | DTVPLN -DTVPL1317    |
| 36   | KNBC    | LOS ANGELES CA | 340.2    | LIC    | BLCDT -19981123KG    |
| 36   | KICU-TV | SAN JOSE CA    | 219.9    | PLN    | DTVPLN -DTVPL1318    |
| 36   | KICU-TV | SAN JOSE CA    | 219.9    | APP    | USERRECORD-01        |

Total scenarios = 3

**Figure 3**

**Figure 3**

Result key: 10  
 Scenario 1 Affected station 12  
 Before Analysis

Results for: 36A CA SANGER DTVPLN DTVP1319 PLN  
 HAAT 600.0 m, ATV ERP 372.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 1454605    | 31128.5      |
| not affected by terrain losses | 1440768    | 27230.4      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 62         | 152.4        |
| lost to ATV IX only            | 62         | 152.4        |
| lost to all IX                 | 62         | 152.4        |

Potential Interfering Stations Included in above Scenario 1

36A CA LOS ANGELES BPCDT 20050406ACJ CP  
 36A CA SAN JOSE DTVPLN DTVP1318 PLN

After Analysis

Results for: 36A CA SANGER DTVPLN DTVP1319 PLN  
 HAAT 600.0 m, ATV ERP 372.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 1454605    | 31128.5      |
| not affected by terrain losses | 1440768    | 27230.4      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 804        | 204.5        |
| lost to ATV IX only            | 804        | 204.5        |
| lost to all IX                 | 804        | 204.5        |

Potential Interfering Stations Included in above Scenario 1

36A CA LOS ANGELES BPCDT 20050406ACJ CP  
 36A CA SAN JOSE USERRECORD01 APP

Percent new IX = 0.0515%

Result key: 11  
 Scenario 2 Affected station 12  
 Before Analysis

Results for: 36A CA SANGER DTVPLN DTVP1319 PLN  
 HAAT 600.0 m, ATV ERP 372.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 1454605    | 31128.5      |
| not affected by terrain losses | 1440768    | 27230.4      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 62         | 152.4        |
| lost to ATV IX only            | 62         | 152.4        |
| lost to all IX                 | 62         | 152.4        |

Potential Interfering Stations Included in above Scenario 2

36A CA LOS ANGELES DTVPLN DTVP1317 PLN  
 36A CA SAN JOSE DTVPLN DTVP1318 PLN

After Analysis

Results for: 36A CA SANGER DTVPLN DTVP1319 PLN  
 HAAT 600.0 m, ATV ERP 372.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 1454605    | 31128.5      |
| not affected by terrain losses | 1440768    | 27230.4      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 804        | 204.5        |
| lost to ATV IX only            | 804        | 204.5        |
| lost to all IX                 | 804        | 204.5        |

Potential Interfering Stations Included in above Scenario 2

36A CA LOS ANGELES DTVPLN DTVP1317 PLN  
 36A CA SAN JOSE USERRECORD01 APP

Percent new IX = 0.0515%

Result key: 12  
 Scenario 3 Affected station 12  
 Before Analysis

Results for: 36A CA SANGER DTVPLN DTVP1319 PLN  
 HAAT 600.0 m, ATV ERP 372.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 1454605    | 31128.5      |
| not affected by terrain losses | 1440768    | 27230.4      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 62         | 152.4        |
| lost to ATV IX only            | 62         | 152.4        |
| lost to all IX                 | 62         | 152.4        |

Potential Interfering Stations Included in above Scenario 3

36A CA LOS ANGELES BLCDT 19981123KG LIC  
 36A CA SAN JOSE DTVPLN DTVP1318 PLN

After Analysis

Results for: 36A CA SANGER DTVPLN DTVP1319 PLN  
 HAAT 600.0 m, ATV ERP 372.0 kW

|                                | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour   | 1454605    | 31128.5      |
| not affected by terrain losses | 1440768    | 27230.4      |
| lost to NTSC IX                | 0          | 0.0          |
| lost to additional IX by ATV   | 804        | 204.5        |
| lost to ATV IX only            | 804        | 204.5        |
| lost to all IX                 | 804        | 204.5        |

Potential Interfering Stations Included in above Scenario 3

36A CA LOS ANGELES BLCDT 19981123KG LIC  
 36A CA SAN JOSE USERRECORD01 APP

Percent new IX = 0.0515%

**Figure 3**

**Figure 3**

```

Worst case new IX  0.0515% Scenario  1

#####
Analysis of Interference to Affected Station  13

Analysis of current record
Channel Call City/State Application Ref. No.
36 KICU-TV SAN JOSE CA USERRECORD-01

Stations Potentially Affecting This Station

Chan Call City/State Dist(km) Status Application Ref. No.
35 KCRA-TV SACRAMENTO CA 92.5 CP BPCDT -20080208AEM
35 KCRA-TV SACRAMENTO CA 92.5 PLN DTVPLN -DTVPI280
35 KCRA-TV SACRAMENTO CA 90.3 LIC BLCDT -20040122ADR
36 KFRE-TV SANGER CA 219.9 LIC BLCDT -20060421AAI
36 KFRE-TV SANGER CA 219.9 PLN DTVPLN -DTVPI1319

Total scenarios = 6

Result key: 13
Scenario 1 Affected station 13
Before Analysis

Results for: 36A CA SAN JOSE          USERRECORD01          APP
HAAT 692.0 m, ATV ERP 1000.0 kW
POPULATION AREA (sq km)
within Noise Limited Contour 7999754 42617.5
not affected by terrain losses 7021054 34073.8
lost to NTSC IX 0 0.0
lost to additional IX by ATV 314412 2934.0
lost to ATV IX only 314412 2934.0
lost to all IX 314412 2934.0

Potential Interfering Stations Included in above Scenario 1

35A CA SACRAMENTO BPCDT 20080208AEM CP
36A CA SANGER BLCDT 20060421AAI LIC

Result key: 14
Scenario 2 Affected station 13
Before Analysis

Results for: 36A CA SAN JOSE          USERRECORD01          APP
HAAT 692.0 m, ATV ERP 1000.0 kW
POPULATION AREA (sq km)
within Noise Limited Contour 7999754 42617.5
not affected by terrain losses 7021054 34073.8
lost to NTSC IX 0 0.0
lost to additional IX by ATV 325871 2966.3
lost to ATV IX only 325871 2966.3
lost to all IX 325871 2966.3

```

**Figure 3**

```

Potential Interfering Stations Included in above Scenario 2

35A CA SACRAMENTO BPCDT 20080208AEM CP
36A CA SANGER DTVPLN DTVPI1319 PLN

Result key: 15
Scenario 3 Affected station 13
Before Analysis

Results for: 36A CA SAN JOSE          USERRECORD01          APP
HAAT 692.0 m, ATV ERP 1000.0 kW
POPULATION AREA (sq km)
within Noise Limited Contour 7999754 42617.5
not affected by terrain losses 7021054 34073.8
lost to NTSC IX 0 0.0
lost to additional IX by ATV 314412 2934.0
lost to ATV IX only 314412 2934.0
lost to all IX 314412 2934.0

Potential Interfering Stations Included in above Scenario 3

35A CA SACRAMENTO DTVPLN DTVPI280 PLN
36A CA SANGER BLCDT 20060421AAI LIC

Result key: 16
Scenario 4 Affected station 13
Before Analysis

Results for: 36A CA SAN JOSE          USERRECORD01          APP
HAAT 692.0 m, ATV ERP 1000.0 kW
POPULATION AREA (sq km)
within Noise Limited Contour 7999754 42617.5
not affected by terrain losses 7021054 34073.8
lost to NTSC IX 0 0.0
lost to additional IX by ATV 325871 2966.3
lost to ATV IX only 325871 2966.3
lost to all IX 325871 2966.3

Potential Interfering Stations Included in above Scenario 4

35A CA SACRAMENTO DTVPLN DTVPI280 PLN
36A CA SANGER DTVPLN DTVPI1319 PLN

Result key: 17
Scenario 5 Affected station 13
Before Analysis

Results for: 36A CA SAN JOSE          USERRECORD01          APP
HAAT 692.0 m, ATV ERP 1000.0 kW
POPULATION AREA (sq km)
within Noise Limited Contour 7999754 42617.5
not affected by terrain losses 7021054 34073.8
lost to NTSC IX 0 0.0
lost to additional IX by ATV 318829 2954.2
lost to ATV IX only 318829 2954.2
lost to all IX 318829 2954.2

```

**Figure 3**

Potential Interfering Stations Included in above Scenario 5

|                   |       |             |     |
|-------------------|-------|-------------|-----|
| 35A CA SACRAMENTO | BLCDT | 20040122ADR | LIC |
| 36A CA SANGER     | BLCDT | 20060421AAI | LIC |

Result key: 18  
Scenario 6 Affected station 13  
Before Analysis

Results for: 36A CA SAN JOSE                   USERRECORD01                   APP

|                                 |            |              |
|---------------------------------|------------|--------------|
| HAAT 692.0 m, ATV ERP 1000.0 kW | POPULATION | AREA (sq km) |
| within Noise Limited Contour    | 7999754    | 42617.5      |
| not affected by terrain losses  | 7021054    | 34073.8      |
| lost to NTSC IX                 | 0          | 0.0          |
| lost to additional IX by ATV    | 330288     | 2986.5       |
| lost to ATV IX only             | 330288     | 2986.5       |
| lost to all IX                  | 330288     | 2986.5       |

Potential Interfering Stations Included in above Scenario 6

|                   |        |             |     |
|-------------------|--------|-------------|-----|
| 35A CA SACRAMENTO | BLCDT  | 20040122ADR | LIC |
| 36A CA SANGER     | DTVPLN | DTVP1319    | PLN |

#####
#####

FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED

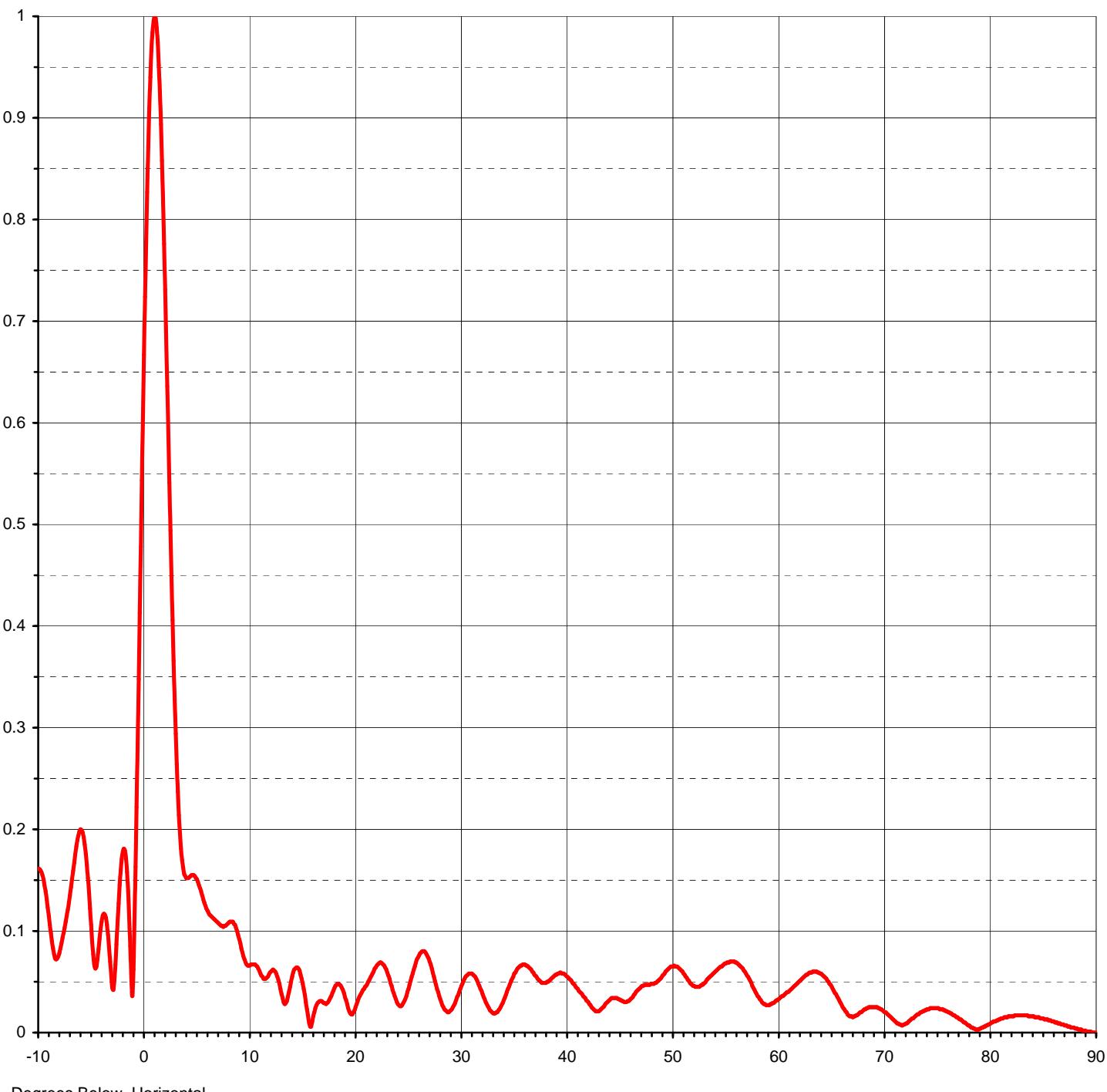
# APPENDIX

TRANSMITTING ANTENNA  
VERTICAL AND HORIZONTAL  
PLANE PATTERN

Proposal Number **C-00487** Revision: **5**  
 Date **14-Feb-08**  
 Call Letters **KICU-DT** Channel **36**  
 Location **San Jose, CA**  
 Customer  
 Antenna Type **TFU-30DSC/VP-R C170**

## ELEVATION PATTERN

|                        |                           |           |                     |
|------------------------|---------------------------|-----------|---------------------|
| RMS Gain at Main Lobe  | <b>25.50 ( 14.07 dB )</b> | Beam Tilt | <b>1.00 deg</b>     |
| RMS Gain at Horizontal | <b>11.30 ( 10.53 dB )</b> | Frequency | <b>605.00 MHz</b>   |
| Calculated / Measured  | <b>Calculated</b>         | Drawing # | <b>30Q255100-90</b> |





Proposal Number **C-00487** Revision: **5**  
Date **14-Feb-08**  
Call Letters **KICU-DT** Channel **36**  
Location **San Jose, CA**  
Customer  
Antenna Type **TFU-30DSC/VP-R C170**

## TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **30Q255100-90**

| Angle | Field |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -10.0 | 0.161 | 2.4   | 0.541 | 10.6  | 0.067 | 30.5  | 0.055 | 51.0  | 0.060 | 71.5  | 0.008 |
| -9.5  | 0.151 | 2.6   | 0.449 | 10.8  | 0.065 | 31.0  | 0.058 | 51.5  | 0.052 | 72.0  | 0.009 |
| -9.0  | 0.115 | 2.8   | 0.366 | 11.0  | 0.061 | 31.5  | 0.053 | 52.0  | 0.046 | 72.5  | 0.013 |
| -8.5  | 0.077 | 3.0   | 0.294 | 11.5  | 0.053 | 32.0  | 0.041 | 52.5  | 0.045 | 73.0  | 0.017 |
| -8.0  | 0.078 | 3.2   | 0.237 | 12.0  | 0.059 | 32.5  | 0.028 | 53.0  | 0.048 | 73.5  | 0.020 |
| -7.5  | 0.103 | 3.4   | 0.196 | 12.5  | 0.060 | 33.0  | 0.020 | 53.5  | 0.054 | 74.0  | 0.023 |
| -7.0  | 0.135 | 3.6   | 0.170 | 13.0  | 0.043 | 33.5  | 0.020 | 54.0  | 0.059 | 74.5  | 0.024 |
| -6.5  | 0.175 | 3.8   | 0.156 | 13.5  | 0.029 | 34.0  | 0.029 | 54.5  | 0.064 | 75.0  | 0.024 |
| -6.0  | 0.200 | 4.0   | 0.152 | 14.0  | 0.050 | 34.5  | 0.043 | 55.0  | 0.068 | 75.5  | 0.023 |
| -5.5  | 0.176 | 4.2   | 0.152 | 14.5  | 0.064 | 35.0  | 0.055 | 55.5  | 0.070 | 76.0  | 0.020 |
| -5.0  | 0.106 | 4.4   | 0.154 | 15.0  | 0.053 | 35.5  | 0.064 | 56.0  | 0.069 | 76.5  | 0.017 |
| -4.5  | 0.065 | 4.6   | 0.155 | 15.5  | 0.023 | 36.0  | 0.067 | 56.5  | 0.065 | 77.0  | 0.014 |
| -4.0  | 0.109 | 4.8   | 0.154 | 16.0  | 0.011 | 36.5  | 0.064 | 57.0  | 0.058 | 77.5  | 0.010 |
| -3.5  | 0.106 | 5.0   | 0.151 | 16.5  | 0.029 | 37.0  | 0.057 | 57.5  | 0.049 | 78.0  | 0.007 |
| -3.0  | 0.044 | 5.2   | 0.145 | 17.0  | 0.030 | 37.5  | 0.051 | 58.0  | 0.038 | 78.5  | 0.004 |
| -2.8  | 0.051 | 5.4   | 0.139 | 17.5  | 0.030 | 38.0  | 0.049 | 58.5  | 0.030 | 79.0  | 0.004 |
| -2.6  | 0.087 | 5.6   | 0.131 | 18.0  | 0.041 | 38.5  | 0.052 | 59.0  | 0.027 | 79.5  | 0.006 |
| -2.4  | 0.127 | 5.8   | 0.125 | 18.5  | 0.048 | 39.0  | 0.057 | 59.5  | 0.029 | 80.0  | 0.009 |
| -2.2  | 0.160 | 6.0   | 0.120 | 19.0  | 0.039 | 39.5  | 0.059 | 60.0  | 0.032 | 80.5  | 0.011 |
| -2.0  | 0.178 | 6.2   | 0.116 | 19.5  | 0.021 | 40.0  | 0.056 | 60.5  | 0.036 | 81.0  | 0.014 |
| -1.8  | 0.179 | 6.4   | 0.114 | 20.0  | 0.022 | 40.5  | 0.051 | 61.0  | 0.040 | 81.5  | 0.015 |
| -1.6  | 0.158 | 6.6   | 0.112 | 20.5  | 0.036 | 41.0  | 0.044 | 61.5  | 0.045 | 82.0  | 0.016 |
| -1.4  | 0.114 | 6.8   | 0.110 | 21.0  | 0.045 | 41.5  | 0.038 | 62.0  | 0.050 | 82.5  | 0.017 |
| -1.2  | 0.053 | 7.0   | 0.108 | 21.5  | 0.054 | 42.0  | 0.031 | 62.5  | 0.055 | 83.0  | 0.017 |
| -1.0  | 0.062 | 7.2   | 0.106 | 22.0  | 0.064 | 42.5  | 0.024 | 63.0  | 0.059 | 83.5  | 0.017 |
| -0.8  | 0.163 | 7.4   | 0.105 | 22.5  | 0.069 | 43.0  | 0.021 | 63.5  | 0.060 | 84.0  | 0.016 |
| -0.6  | 0.284 | 7.6   | 0.105 | 23.0  | 0.062 | 43.5  | 0.025 | 64.0  | 0.058 | 84.5  | 0.015 |
| -0.4  | 0.413 | 7.8   | 0.106 | 23.5  | 0.046 | 44.0  | 0.031 | 64.5  | 0.053 | 85.0  | 0.014 |
| -0.2  | 0.543 | 8.0   | 0.108 | 24.0  | 0.030 | 44.5  | 0.034 | 65.0  | 0.045 | 85.5  | 0.012 |
| 0.0   | 0.667 | 8.2   | 0.109 | 24.5  | 0.027 | 45.0  | 0.033 | 65.5  | 0.036 | 86.0  | 0.011 |
| 0.2   | 0.778 | 8.4   | 0.109 | 25.0  | 0.040 | 45.5  | 0.030 | 66.0  | 0.026 | 86.5  | 0.009 |
| 0.4   | 0.871 | 8.6   | 0.106 | 25.5  | 0.058 | 46.0  | 0.032 | 66.5  | 0.018 | 87.0  | 0.007 |
| 0.6   | 0.940 | 8.8   | 0.100 | 26.0  | 0.074 | 46.5  | 0.038 | 67.0  | 0.015 | 87.5  | 0.006 |
| 0.8   | 0.984 | 9.0   | 0.092 | 26.5  | 0.080 | 47.0  | 0.044 | 67.5  | 0.018 | 88.0  | 0.004 |
| 1.0   | 1.000 | 9.2   | 0.083 | 27.0  | 0.073 | 47.5  | 0.047 | 68.0  | 0.022 | 88.5  | 0.003 |
| 1.2   | 0.989 | 9.4   | 0.075 | 27.5  | 0.055 | 48.0  | 0.048 | 68.5  | 0.025 | 89.0  | 0.002 |
| 1.4   | 0.952 | 9.6   | 0.069 | 28.0  | 0.036 | 48.5  | 0.049 | 69.0  | 0.025 | 89.5  | 0.001 |
| 1.6   | 0.894 | 9.8   | 0.067 | 28.5  | 0.023 | 49.0  | 0.054 | 69.5  | 0.024 | 90.0  | 0.000 |
| 1.8   | 0.818 | 10.0  | 0.066 | 29.0  | 0.021 | 49.5  | 0.061 | 70.0  | 0.020 |       |       |
| 2.0   | 0.731 | 10.2  | 0.067 | 29.5  | 0.029 | 50.0  | 0.065 | 70.5  | 0.016 |       |       |
| 2.2   | 0.636 | 10.4  | 0.067 | 30.0  | 0.043 | 50.5  | 0.065 | 71.0  | 0.011 |       |       |

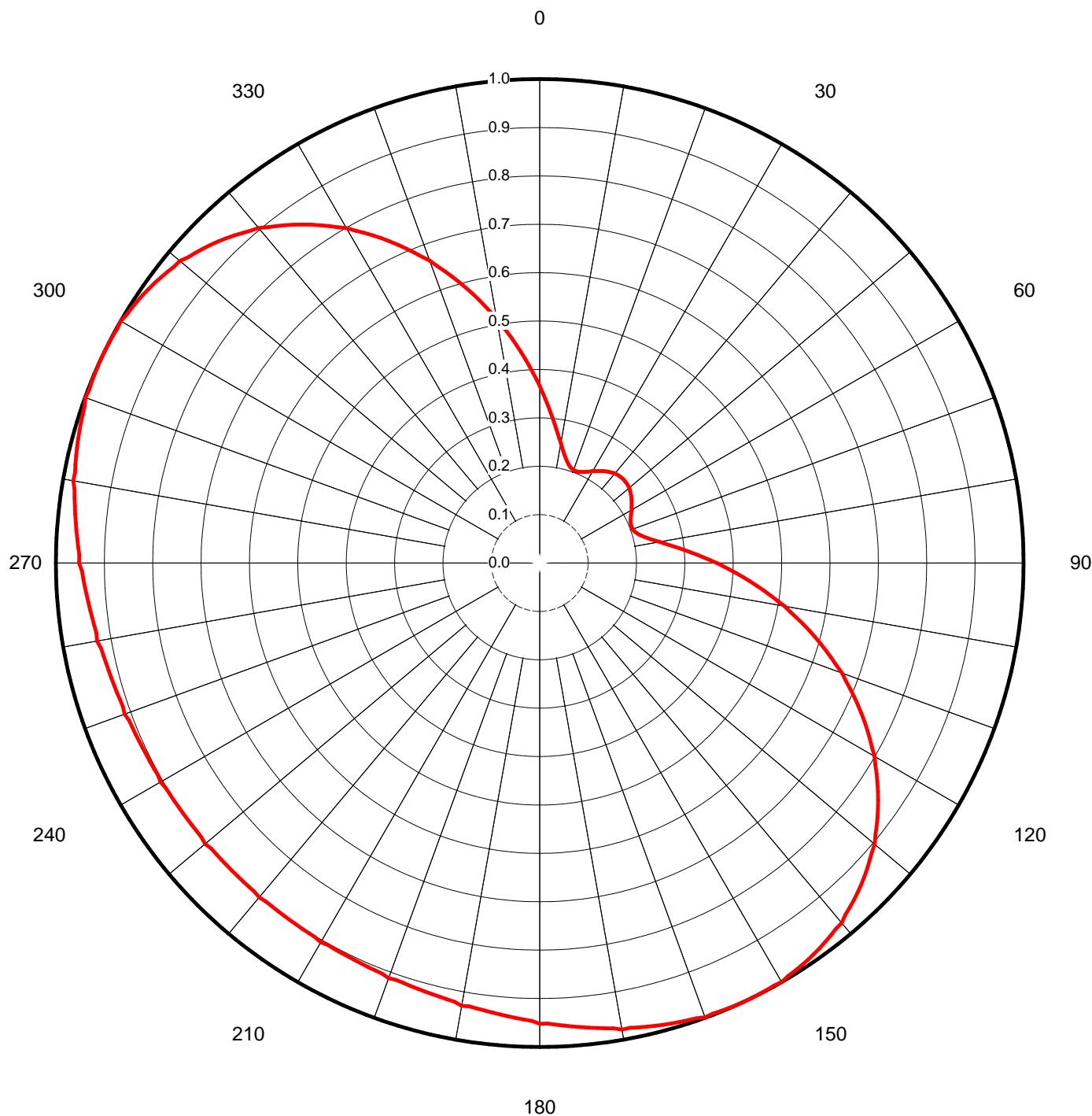


Proposal Number **C-00487** Revision: **5**  
Date **14-Feb-08**  
Call Letters **KICU-DT** Channel **36**  
Location **San Jose, CA**  
Customer  
Antenna Type **TFU-30DSC/VP-R C170**

### AZIMUTH PATTERN

Gain **1.70** ( 2.30 dB)  
Calculated / Measured **Calculated**

Frequency **605.00 MHz**  
Drawing # **TFU-C170**





Proposal Number **C-00487**  
Date **14-Feb-08**  
Call Letters **KICU-DT**  
Location **San Jose, CA**  
Customer  
Antenna Type **TFU-30DSC/VP-R C170**

Revision: **5**  
Channel **36**

## TABULATION OF AZIMUTH PATTERN

Azimuth Pattern Drawing #: **TFU-C170**

| Angle | Field |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0     | 0.366 | 45    | 0.245 | 90    | 0.366 | 135   | 0.940 | 180   | 0.952 | 225   | 0.899 | 270   | 0.952 | 315   | 0.940 |
| 1     | 0.352 | 46    | 0.244 | 91    | 0.379 | 136   | 0.946 | 181   | 0.946 | 226   | 0.899 | 271   | 0.952 | 316   | 0.933 |
| 2     | 0.338 | 47    | 0.244 | 92    | 0.393 | 137   | 0.952 | 182   | 0.944 | 227   | 0.899 | 272   | 0.954 | 317   | 0.925 |
| 3     | 0.326 | 48    | 0.243 | 93    | 0.407 | 138   | 0.958 | 183   | 0.941 | 228   | 0.899 | 273   | 0.957 | 318   | 0.918 |
| 4     | 0.313 | 49    | 0.242 | 94    | 0.422 | 139   | 0.963 | 184   | 0.939 | 229   | 0.899 | 274   | 0.960 | 319   | 0.910 |
| 5     | 0.302 | 50    | 0.242 | 95    | 0.437 | 140   | 0.971 | 185   | 0.936 | 230   | 0.903 | 275   | 0.963 | 320   | 0.904 |
| 6     | 0.290 | 51    | 0.240 | 96    | 0.451 | 141   | 0.973 | 186   | 0.934 | 231   | 0.900 | 276   | 0.965 | 321   | 0.893 |
| 7     | 0.280 | 52    | 0.238 | 97    | 0.466 | 142   | 0.977 | 187   | 0.932 | 232   | 0.900 | 277   | 0.968 | 322   | 0.883 |
| 8     | 0.269 | 53    | 0.236 | 98    | 0.482 | 143   | 0.981 | 188   | 0.930 | 233   | 0.900 | 278   | 0.971 | 323   | 0.874 |
| 9     | 0.260 | 54    | 0.234 | 99    | 0.497 | 144   | 0.984 | 189   | 0.928 | 234   | 0.900 | 279   | 0.973 | 324   | 0.864 |
| 10    | 0.252 | 55    | 0.232 | 100   | 0.514 | 145   | 0.987 | 190   | 0.929 | 235   | 0.900 | 280   | 0.979 | 325   | 0.854 |
| 11    | 0.243 | 56    | 0.229 | 101   | 0.527 | 146   | 0.990 | 191   | 0.924 | 236   | 0.901 | 281   | 0.978 | 326   | 0.843 |
| 12    | 0.235 | 57    | 0.227 | 102   | 0.543 | 147   | 0.992 | 192   | 0.922 | 237   | 0.901 | 282   | 0.981 | 327   | 0.832 |
| 13    | 0.229 | 58    | 0.224 | 103   | 0.558 | 148   | 0.994 | 193   | 0.920 | 238   | 0.901 | 283   | 0.983 | 328   | 0.821 |
| 14    | 0.223 | 59    | 0.222 | 104   | 0.573 | 149   | 0.996 | 194   | 0.918 | 239   | 0.902 | 284   | 0.986 | 329   | 0.809 |
| 15    | 0.218 | 60    | 0.220 | 105   | 0.588 | 150   | 1.000 | 195   | 0.917 | 240   | 0.905 | 285   | 0.988 | 330   | 0.799 |
| 16    | 0.214 | 61    | 0.216 | 106   | 0.604 | 151   | 0.998 | 196   | 0.915 | 241   | 0.903 | 286   | 0.990 | 331   | 0.785 |
| 17    | 0.210 | 62    | 0.214 | 107   | 0.619 | 152   | 0.999 | 197   | 0.914 | 242   | 0.903 | 287   | 0.992 | 332   | 0.773 |
| 18    | 0.207 | 63    | 0.211 | 108   | 0.634 | 153   | 1.000 | 198   | 0.912 | 243   | 0.904 | 288   | 0.993 | 333   | 0.760 |
| 19    | 0.206 | 64    | 0.209 | 109   | 0.648 | 154   | 1.000 | 199   | 0.911 | 244   | 0.905 | 289   | 0.995 | 334   | 0.747 |
| 20    | 0.205 | 65    | 0.207 | 110   | 0.665 | 155   | 1.000 | 200   | 0.913 | 245   | 0.905 | 290   | 0.999 | 335   | 0.733 |
| 21    | 0.204 | 66    | 0.206 | 111   | 0.677 | 156   | 1.000 | 201   | 0.909 | 246   | 0.906 | 291   | 0.997 | 336   | 0.720 |
| 22    | 0.204 | 67    | 0.205 | 112   | 0.692 | 157   | 0.999 | 202   | 0.908 | 247   | 0.907 | 292   | 0.998 | 337   | 0.706 |
| 23    | 0.205 | 68    | 0.204 | 113   | 0.706 | 158   | 0.998 | 203   | 0.907 | 248   | 0.908 | 293   | 0.999 | 338   | 0.692 |
| 24    | 0.206 | 69    | 0.204 | 114   | 0.720 | 159   | 0.997 | 204   | 0.906 | 249   | 0.909 | 294   | 1.000 | 339   | 0.677 |
| 25    | 0.207 | 70    | 0.205 | 115   | 0.733 | 160   | 0.999 | 205   | 0.905 | 250   | 0.913 | 295   | 1.000 | 340   | 0.665 |
| 26    | 0.209 | 71    | 0.206 | 116   | 0.747 | 161   | 0.995 | 206   | 0.905 | 251   | 0.911 | 296   | 1.000 | 341   | 0.648 |
| 27    | 0.211 | 72    | 0.207 | 117   | 0.760 | 162   | 0.993 | 207   | 0.904 | 252   | 0.912 | 297   | 1.000 | 342   | 0.634 |
| 28    | 0.214 | 73    | 0.210 | 118   | 0.773 | 163   | 0.992 | 208   | 0.903 | 253   | 0.914 | 298   | 0.999 | 343   | 0.619 |
| 29    | 0.216 | 74    | 0.214 | 119   | 0.785 | 164   | 0.990 | 209   | 0.903 | 254   | 0.915 | 299   | 0.998 | 344   | 0.604 |
| 30    | 0.220 | 75    | 0.218 | 120   | 0.799 | 165   | 0.988 | 210   | 0.905 | 255   | 0.917 | 300   | 1.000 | 345   | 0.588 |
| 31    | 0.222 | 76    | 0.223 | 121   | 0.809 | 166   | 0.986 | 211   | 0.902 | 256   | 0.918 | 301   | 0.996 | 346   | 0.573 |
| 32    | 0.224 | 77    | 0.229 | 122   | 0.821 | 167   | 0.983 | 212   | 0.901 | 257   | 0.920 | 302   | 0.994 | 347   | 0.558 |
| 33    | 0.227 | 78    | 0.235 | 123   | 0.832 | 168   | 0.981 | 213   | 0.901 | 258   | 0.922 | 303   | 0.992 | 348   | 0.543 |
| 34    | 0.229 | 79    | 0.243 | 124   | 0.843 | 169   | 0.978 | 214   | 0.901 | 259   | 0.924 | 304   | 0.990 | 349   | 0.527 |
| 35    | 0.232 | 80    | 0.252 | 125   | 0.854 | 170   | 0.979 | 215   | 0.900 | 260   | 0.929 | 305   | 0.987 | 350   | 0.514 |
| 36    | 0.234 | 81    | 0.260 | 126   | 0.864 | 171   | 0.973 | 216   | 0.900 | 261   | 0.928 | 306   | 0.984 | 351   | 0.497 |
| 37    | 0.236 | 82    | 0.269 | 127   | 0.874 | 172   | 0.971 | 217   | 0.900 | 262   | 0.930 | 307   | 0.981 | 352   | 0.482 |
| 38    | 0.238 | 83    | 0.280 | 128   | 0.883 | 173   | 0.968 | 218   | 0.900 | 263   | 0.932 | 308   | 0.977 | 353   | 0.466 |
| 39    | 0.240 | 84    | 0.290 | 129   | 0.893 | 174   | 0.965 | 219   | 0.900 | 264   | 0.934 | 309   | 0.973 | 354   | 0.451 |
| 40    | 0.242 | 85    | 0.302 | 130   | 0.904 | 175   | 0.963 | 220   | 0.902 | 265   | 0.936 | 310   | 0.971 | 355   | 0.437 |
| 41    | 0.242 | 86    | 0.313 | 131   | 0.910 | 176   | 0.960 | 221   | 0.899 | 266   | 0.939 | 311   | 0.963 | 356   | 0.422 |
| 42    | 0.243 | 87    | 0.326 | 132   | 0.918 | 177   | 0.957 | 222   | 0.899 | 267   | 0.941 | 312   | 0.958 | 357   | 0.407 |
| 43    | 0.244 | 88    | 0.338 | 133   | 0.925 | 178   | 0.954 | 223   | 0.899 | 268   | 0.944 | 313   | 0.952 | 358   | 0.393 |
| 44    | 0.244 | 89    | 0.352 | 134   | 0.933 | 179   | 0.952 | 224   | 0.899 | 269   | 0.946 | 314   | 0.946 | 359   | 0.379 |

Proposal Number **C-00487** Revision: **5**  
Date **14-Feb-08**  
Call Letters **KICU-DT** Channel **36**  
Location **San Jose, CA**  
Customer  
Antenna Type **TFU-30DSC/VP-R C170**

**AZIMUTH PATTERN/VERTICAL POLARIZATION**

Gain **2.50** (**3.98 dB**)  
Calculated / Measured **Calculated**

Frequency **605.00 MHz**  
Drawing # **TFU-C250-VP**

