TECHNICAL EXHIBIT
APPLICATION FOR DTV CONSTRUCTION PERMIT
IN SUPPORT OF ITS POST-TRANSITION FACILITY
STATION KTVU(DT)
OAKLAND, CALIFORNIA
CH 44 400 KW (MAX-DA) 512 M

Technical Narrative – "5 Mile Waiver Request"

This Technical Exhibit supports an application for digital television (DTV) station KTVU(DT) for its final DTV operation at Oakland, California. This application requests a construction permit (CP) for a digital television operation on channel 44 at Oakland with a directional effective radiated power of 400 kilowatts. KTVU(DT) intends to use a Dielectric TUM-C5SP-14/60H-2-T-R directional transmitting antenna for digital operation.

KTVU(DT) is requesting processing under the "5 mile waiver" procedure to allow as much recovery of its noise-limited contour up to the licensed NTSC Grade B contour as possible.[1]

[1] There is extension of the herein proposed noise-limited contour beyond five miles of its Appendix B allotment, but it occurs entirely over the Pacific Ocean.

Proposed Facilities

Station KTVU(DT) proposes to operate DTV channel 44 from its analog Sutro tower transmitter site. The antenna height above average terrain for the channel 44 DTV operation will be 512 meters. The proposed KTVU(DT) effective radiated power exceeds the Commission's *Appendix B* allocated maximum effective radiated power in some azimuthal directions.[2] Therefore, an allocation study was completed to ensure no prohibited interference would occur.

The proposed DTV transmitter site will be located at its NTSC transmitter site. Therefore, the proposed site location is:

37° 45′ 19″ North Latitude
122° 27′ 06″ West Longitude

A sketch of antenna and pertinent elevations are included as Figure 2.

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

Figure 3 is a map showing the DTV predicted coverage contour and the associated analog Grade B coverage contour. The extent of the contour has been calculated using the normal FCC prediction method. The Oakland city limits were derived from information contained in the 2000 U.S. Census of Population and Housing.

[2] See Seventh Report And Order And Eighth Further Notice Of Proposed Rule Making in the Matter of Advanced Television Systems and their

Population Served

The herein proposed KTVU(DT) facility is predicted to serve 6,331,000 persons, post-transition based upon the 2000 Census. KTVU(DT)'s associated Appendix B facility is predicted to serve 6,336,000 persons. Therefore, the herein proposed KTVU(DT) facility would serve more then 99.9% of KTVU(DT)'s Appendix B population.

Allocation Considerations

The proposed KTVU(DT) Channel 44 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.[3] 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 KTVU(DT) facility are summarized herein at Figure 4. As indicated therein, the proposed facility will meet the 0.5% criterion outlined in the FCC

Impact Upon the Existing Television Broadcast Service, MB Docket 87-268, Released August 6, 2007; Adopted August 1, 2007.
3 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.[4]

Radiofrequency Electromagnetic Field Exposure

The proposed KTVU(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 KTVU(DT) antenna is located 288.4 meters above ground level. The maximum effective radiated power is 400 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 0.01 mW/cm^2. This is less than 5 percent of the Commission’s recommended limit of 0.435 mW/cm^2 for channel 44 for an “uncontrolled” environment.

Access to the transmitting site is restricted and appropriately marked with warning signs. As this will be 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

4 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 KTVU(DT). This properly reflects the net interference change for determining compliance with the FCC 0.5% *de minimis* standard.

at reduced power or shut down. The proposed KTVU(DT) operation appears to be otherwise categorically excluded from environmental processing.

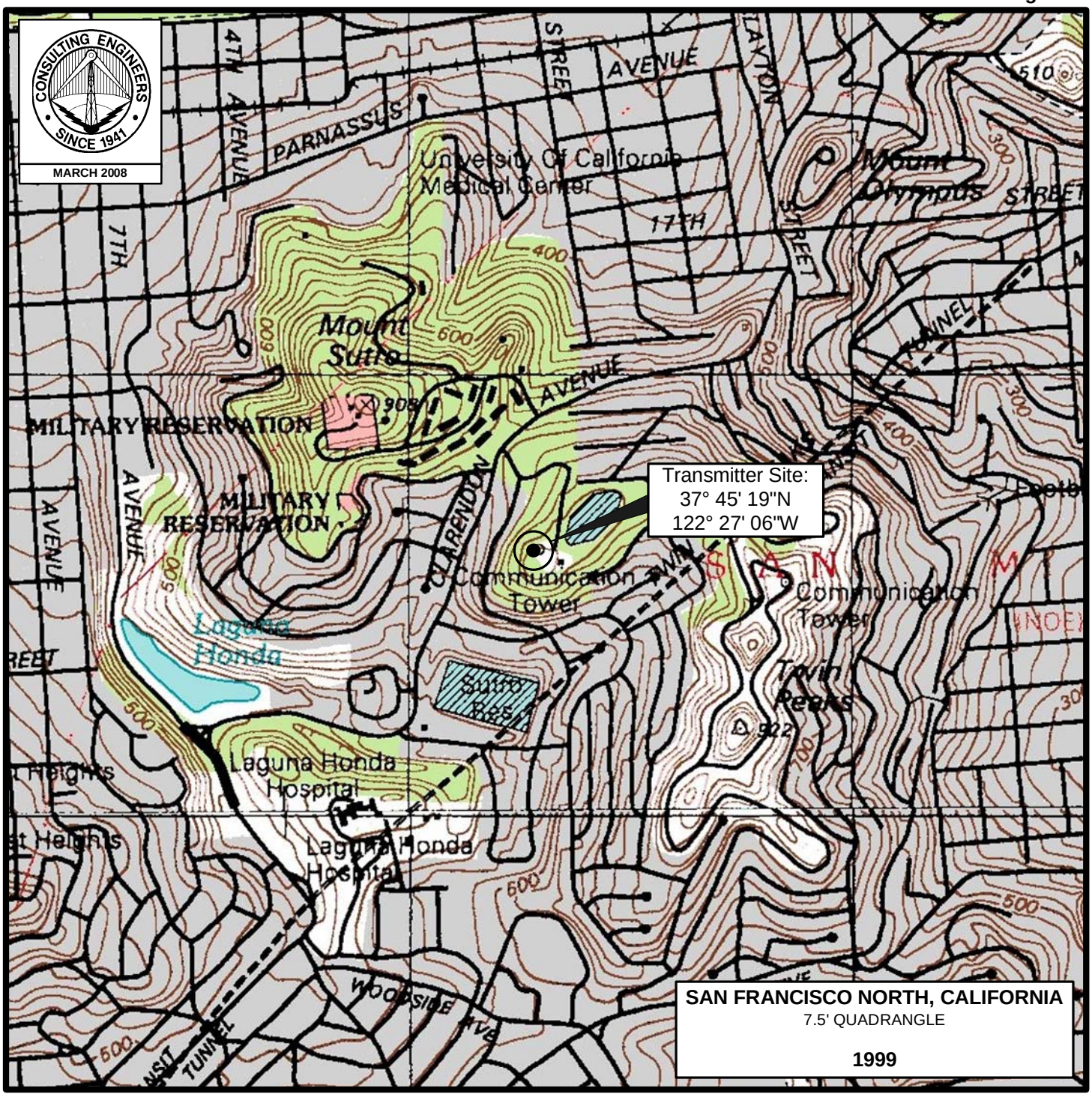
It is noted that this statement only addresses the potential for radiofrequency electromagnetic field exposure. All other aspects of the environmental processing analysis will be or already have been provided to the FCC by the tower owner.

Charles Cooper

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

March 26, 2008

Figure 1



0.1 0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 miles

0.1 0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 kilometers

PROPOSED TRANSMITTER SITE

DTV STATION KTVU(DT)

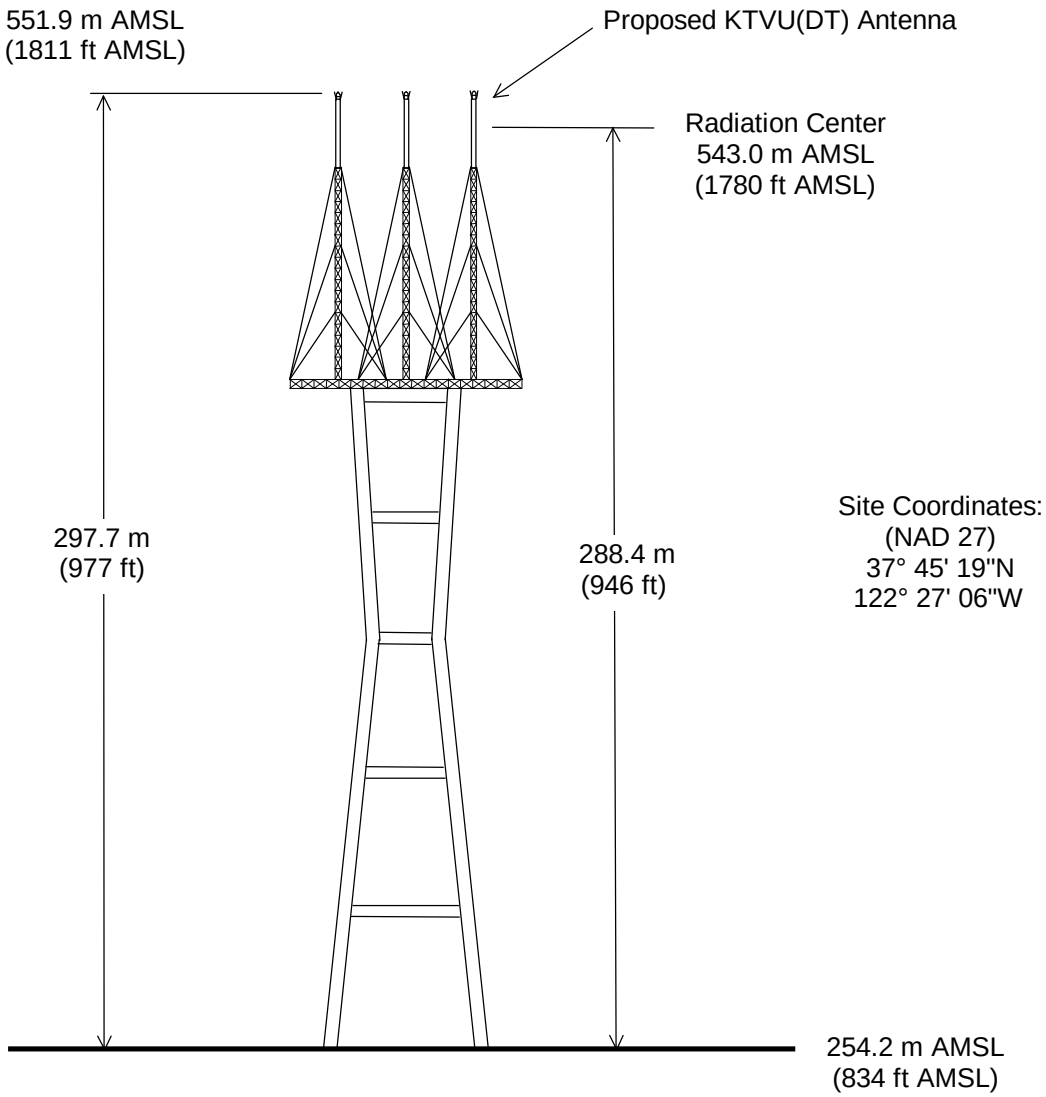
OAKLAND, CALIFORNIA

CH 44 400 KW (MAX-DA) 512 M

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

MARCH 2008

ASRN: 1001289



Not to Scale

PROPOSED ANTENNA AND SUPPORTING STRUCTURE

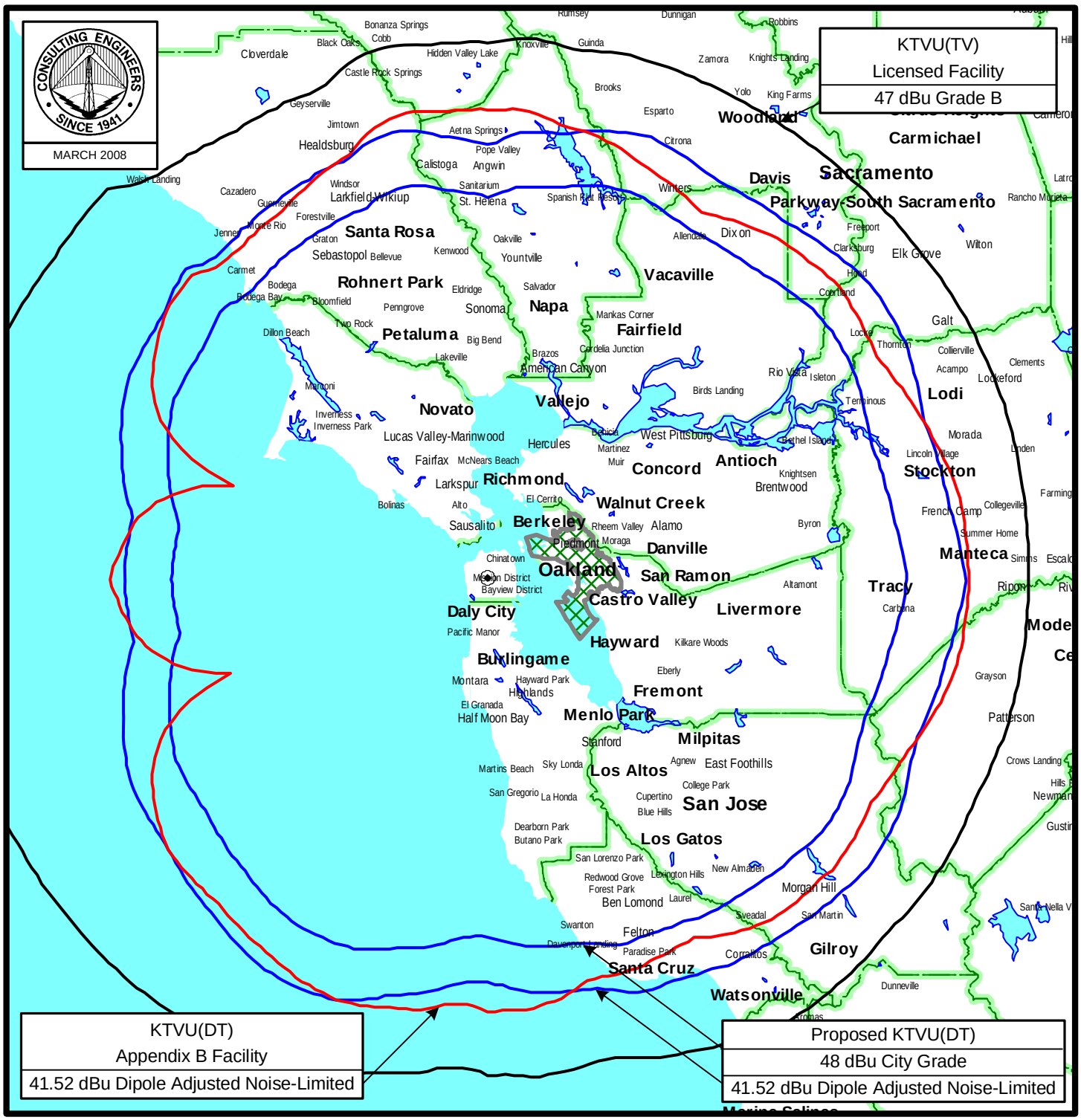
STATION KTVU(DT)

OAKLAND, CALIFORNIA

CH 44 400 KW (MAX-DA) 512 M

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

Figure 3



25 0 25 50 75 100 miles

25 0 25 50 75 100 125 kilometers

PREDICTED COVERAGE CONTOURS

STATION KTVU(DT)

OAKLAND, CALIFORNIA

CH 44 400 KW (MAX-DA) 512 M

du Treil, Lundin & Rackley, Inc Sarasota, Florida

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OET-69 Post-Transition Interference Analysis

Census data selected 2000

Post Transition Data Base Selected
/export/home/cdbs/tvdb.sff_G
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 03-26-2008 Time: 16:55:35

Record Selected for Analysis

KTVU USERRECORD-01 OAKLAND CA US
Channel 44 ERP 400. kW HAAT 517. m RCAMSL 00543 m
Latitude 037-45-19 Longitude 0122-27-06
Status APP Zone 2 Border
Dir Antenna Make usr Model KTVUDT 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 meets maximum height/power limits

Azimuth (Deg)	ERP (kW)	HAAT (m)	41.0 dBu F(50,90) (km)
0.0	137.358	517.6	97.5
45.0	329.060	528.0	106.1
90.0	370.948	531.9	107.4
135.0	329.060	524.7	105.8
180.0	137.358	425.8	91.0
225.0	105.678	534.5	96.5
270.0	16.484	537.0	81.9
315.0	105.678	536.6	96.7

Evaluation toward Class A Stations

No Spacing violations or contour overlap to Class A stations

Class A Evaluation Complete

Proposed facility OK to FCC Monitoring Stations

Proposed facility OK toward West Virginia quite zone

Proposed facility OK toward Table Mountian

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

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                        Start of Interference Analysis


              Proposed Station
Channel     Call         City/State               ARN
   44      KTVU       OAKLAND CA                  USERRECORD01

     Stations Potentially Affected by  Proposed Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 43   KCSM-TV  SAN MATEO CA               0.0  LIC    BLEDT     -20030822AFZ
 44   KRXI-TV  RENO NV                  299.3  CP MOD BMPCDT    -20020724AAU
 45   KBCW     SAN FRANCISCO CA           0.0  LIC    BLCDT     -20020709AAQ

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     Analysis of Interference to Affected Station   1


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   43      KCSM-TV    SAN MATEO CA              BLEDT     -20030822AFZ

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 43   KHSL-TV  CHICO CA                253.1  CP     BDTV      -00000268
 43   KGMC     CLOVIS CA               302.0  LIC    BLCDT     -20020507AAJ
 44   KTVU     OAKLAND CA                0.0  APP    USERRECORD-01

 Total scenarios =   1


Result key:        1
Scenario        1  Affected station        1
Before Analysis

Results for: 43A CA SAN MATEO            BLEDT     20030822AFZ  LIC
   HAAT  428.0 m, ATV ERP  536.0 kW
                                 POPULATION   AREA (sq km)
   within Noise Limited Contour     6850570      27098.1
   not affected by terrain losses   6240615      21829.4
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      151291       1007.9
   lost to ATV IX only               151291       1007.9
   lost to all IX                    151291       1007.9

 Potential Interfering Stations Included in above Scenario     1

43A CA CHICO                BDTV      00000268     CP
43A CA CLOVIS               BLCDT     20020507AAJ  LIC

After Analysis

Results for: 43A CA SAN MATEO            BLEDT     20030822AFZ  LIC
   HAAT  428.0 m, ATV ERP  536.0 kW
                                 POPULATION   AREA (sq km)
   within Noise Limited Contour     6850570      27098.1
   not affected by terrain losses   6240615      21829.4
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      172814       1092.3
   lost to ATV IX only               172814       1092.3
   lost to all IX                    172814       1092.3

 Potential Interfering Stations Included in above Scenario     1

43A CA CHICO                BDTV      00000268     CP
43A CA CLOVIS               BLCDT     20020507AAJ  LIC
44A CA OAKLAND              USERRECORD01           APP

Percent new IX =    0.3535%

Worst case new IX    0.3535% Scenario      1

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     Analysis of Interference to Affected Station   2


Analysis of current record
Channel     Call           City/State        Application Ref. No.
   44      KRXI-TV    RENO NV                   BMPCDT    -20020724AAU

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 43   KHSL-TV  CHICO CA                158.0  CP     BDTV      -00000268
 44   KTVU     OAKLAND CA              299.3  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.
   45      KBCW       SAN FRANCISCO CA          BLCDT     -20020709AAQ

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 45   KUVI-TV  BAKERSFIELD CA           419.5  LIC    BLCDT     -20020906ABI
 46   KQCA     STOCKTON CA              101.5  CP MOD BMPCDT    -20020626AAA
 44   KTVU     OAKLAND CA                 0.0  APP    USERRECORD-01

 Total scenarios =   1


Result key:        2
Scenario        1  Affected station        3
Before Analysis

Results for: 45A CA SAN FRANCISCO        BLCDT     20020709AAQ  LIC
   HAAT  446.0 m, ATV ERP  400.0 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour     6775478      26263.4
   not affected by terrain losses   6182743      21054.9
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      176924       1301.1
   lost to ATV IX only               176924       1301.1
   lost to all IX                    176924       1301.1

 Potential Interfering Stations Included in above Scenario     1

46A CA STOCKTON             BMPCDT    20020626AAA  CP

After Analysis

Results for: 45A CA SAN FRANCISCO        BLCDT     20020709AAQ  LIC
   HAAT  446.0 m, ATV ERP  400.0 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour     6775478      26263.4
   not affected by terrain losses   6182743      21054.9
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV      190817       1365.4
   lost to ATV IX only               190817       1365.4
   lost to all IX                    190817       1365.4

 Potential Interfering Stations Included in above Scenario     1

46A CA STOCKTON             BMPCDT    20020626AAA  CP
44A CA OAKLAND              USERRECORD01           APP

Percent new IX =    0.2313%

Worst case new IX    0.2313% Scenario      1

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     Analysis of Interference to Affected Station   4
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Figure 4

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Analysis of current record
Channel     Call           City/State        Application Ref. No.
   44      KTVU       OAKLAND CA               USERRECORD-01

     Stations Potentially Affecting This Station

Chan   Call      City/State           Dist(km) Status  Application Ref. No.
 43   KCSM-TV  SAN MATEO CA               0.0  LIC    BLEDT     -20030822AFZ
 44   KRXI-TV  RENO NV                 299.3  CP MOD BMPCDT    -20020724AAU
 45   KBCW     SAN FRANCISCO CA          0.0  LIC    BLCDT     -20020709AAQ

 Total scenarios =   1


Result key:        3
Scenario        1  Affected station        4
Before Analysis

Results for: 44A CA OAKLAND              USERRECORD01           APP
   HAAT  517.0 m, ATV ERP  400.0 kW
                                  POPULATION   AREA (sq km)
   within Noise Limited Contour     7092463      30106.7
   not affected by terrain losses   6331012      24460.4
   lost to NTSC IX                        0          0.0
   lost to additional IX by ATV           0          0.0
   lost to ATV IX only                    0          0.0
   lost to all IX                         0          0.0

 Potential Interfering Stations Included in above Scenario     1


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FINISHED FINISHED FINISHED FINISHED FINISHED FINISHED
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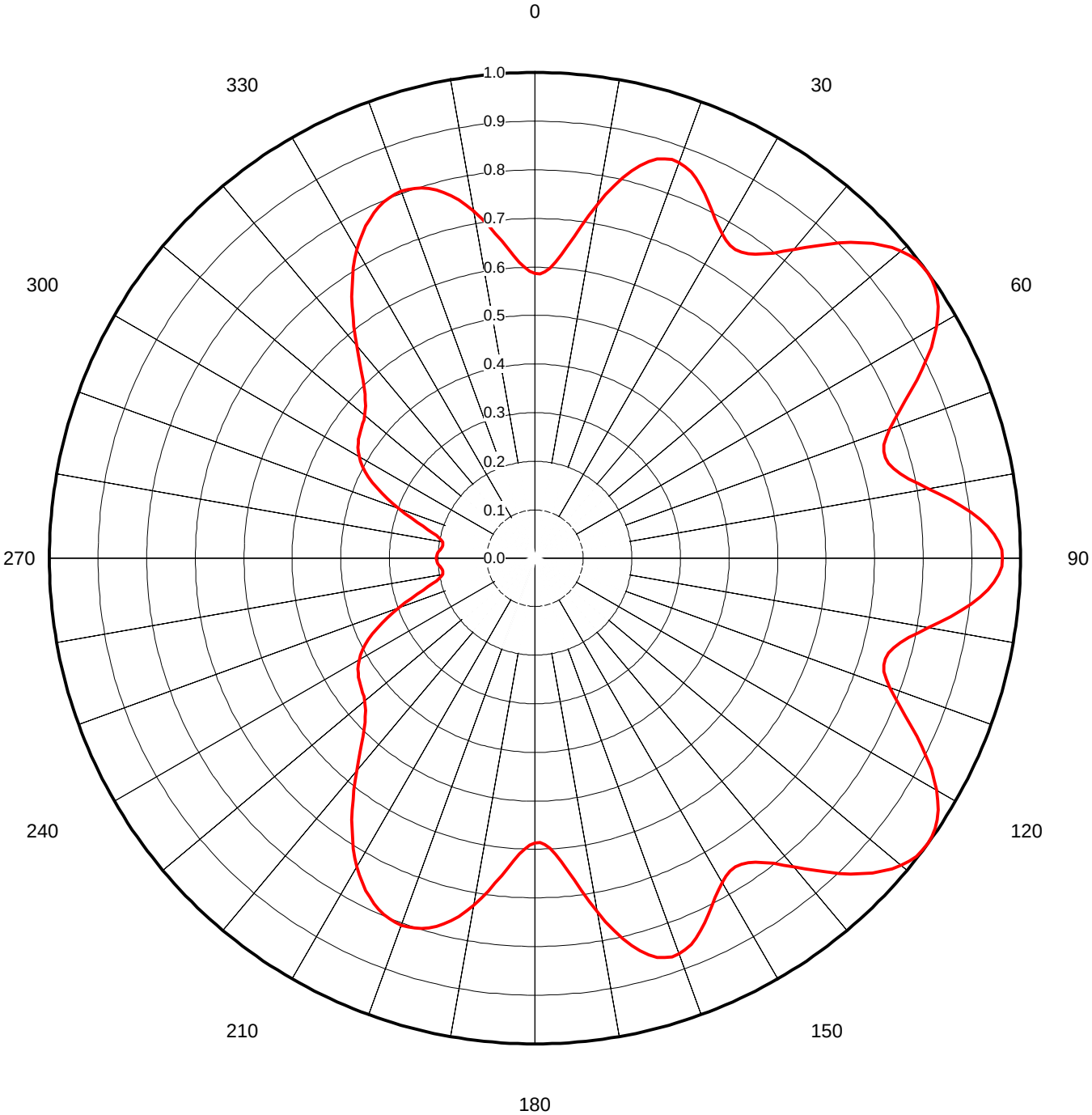
APPENDIX

TRANSMITTING ANTENNA VERTICAL AND HORIZONTAL PLANE PATTERN

Proposal Number	**EM-070924-1**		
Date	**24-Sep-07**		
Call Letters	**KTVU-DT**	Channel	**44**
Location	**San Francisco, CA**		
Customer			
Antenna Type	**TUM-C5SP-14/60H-2-T-R**		

AZIMUTH PATTERN

Gain	**2.00**	**(3.01 dB)**	
Calculated / Measured	**Calculated**		
Frequency	**653.00 MHz**		
Drawing #	**TUM-C5SP-6530**		



Dielectric

Proposal Number	**EM-070924-1**
Date	**24-Sep-07**
Call Letters	**KTVU-DT** Channel **44**
Location	**San Francisco, CA**
Customer	
Antenna Type	**TUM-C5SP-14/60H-2-T-R**

TABULATION OF AZIMUTH PATTERN

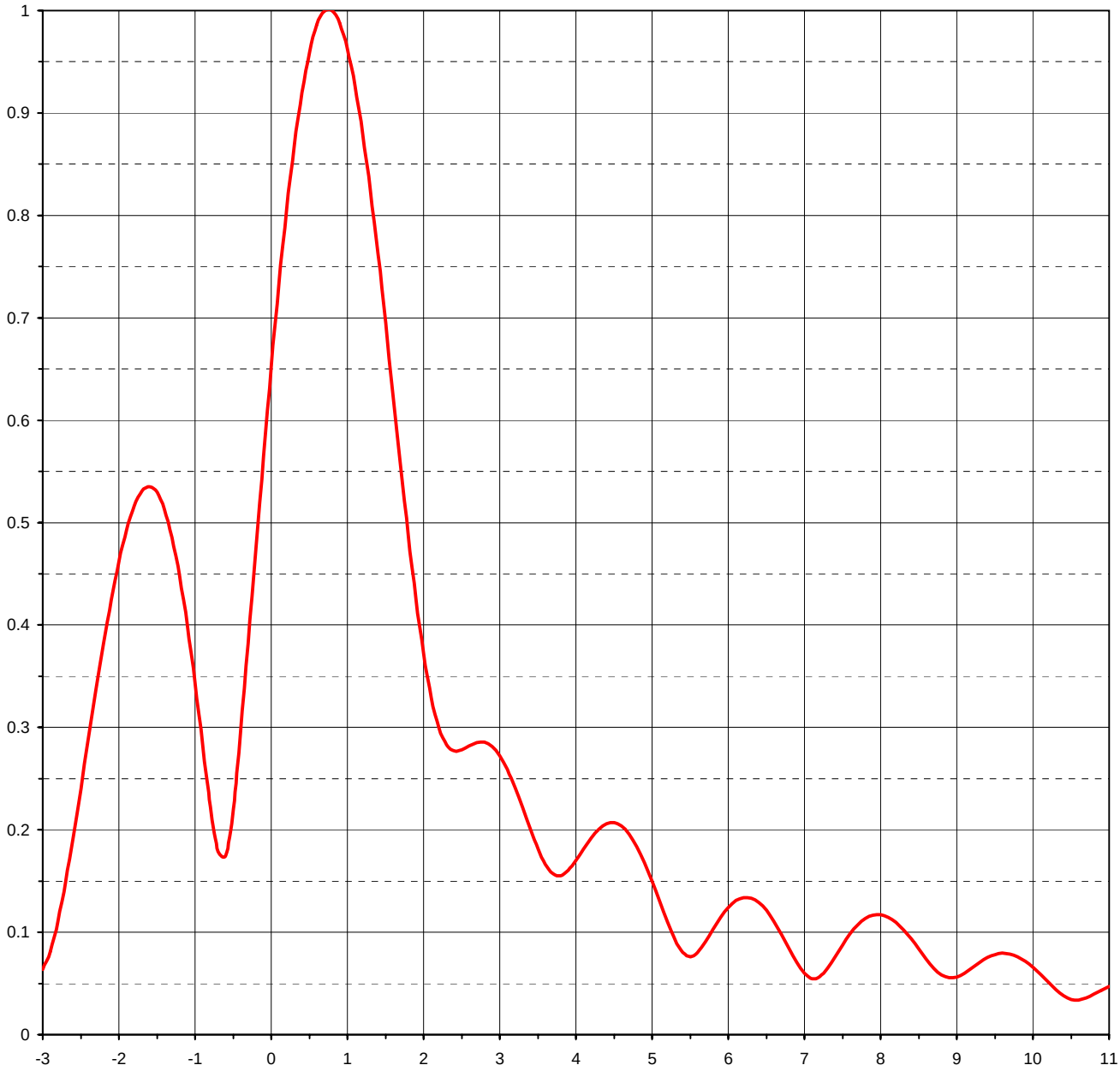
Azimuth Pattern Drawing #: **TUM-C5SP-6530**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.586	45	0.919	90	0.963	135	0.919	180	0.586	225	0.497	270	0.203	315	0.497
1	0.586	46	0.935	91	0.961	136	0.902	181	0.591	226	0.487	271	0.203	316	0.510
2	0.590	47	0.950	92	0.956	137	0.884	182	0.599	227	0.477	272	0.202	317	0.523
3	0.598	48	0.963	93	0.947	138	0.866	183	0.610	228	0.469	273	0.200	318	0.538
4	0.611	49	0.974	94	0.935	139	0.848	184	0.624	229	0.463	274	0.198	319	0.554
5	0.627	50	0.984	95	0.920	140	0.830	185	0.640	230	0.457	275	0.196	320	0.571
6	0.646	51	0.991	96	0.903	141	0.813	186	0.657	231	0.453	276	0.194	321	0.588
7	0.668	52	0.996	97	0.884	142	0.798	187	0.674	232	0.450	277	0.192	322	0.605
8	0.691	53	0.999	98	0.864	143	0.784	188	0.692	233	0.447	278	0.191	323	0.623
9	0.715	54	1.000	99	0.844	144	0.773	189	0.709	234	0.444	279	0.192	324	0.640
10	0.739	55	0.998	100	0.823	145	0.765	190	0.725	235	0.441	280	0.193	325	0.658
11	0.762	56	0.994	101	0.804	146	0.760	191	0.740	236	0.438	281	0.196	326	0.674
12	0.784	57	0.988	102	0.787	147	0.758	192	0.753	237	0.434	282	0.201	327	0.690
13	0.804	58	0.979	103	0.773	148	0.759	193	0.765	238	0.430	283	0.208	328	0.706
14	0.822	59	0.968	104	0.761	149	0.764	194	0.776	239	0.425	284	0.217	329	0.720
15	0.837	60	0.955	105	0.754	150	0.771	195	0.785	240	0.418	285	0.228	330	0.733
16	0.850	61	0.941	106	0.750	151	0.780	196	0.792	241	0.411	286	0.240	331	0.746
17	0.859	62	0.924	107	0.751	152	0.791	197	0.797	242	0.402	287	0.253	332	0.757
18	0.865	63	0.906	108	0.756	153	0.803	198	0.801	243	0.392	288	0.267	333	0.768
19	0.868	64	0.887	109	0.765	154	0.816	199	0.803	244	0.381	289	0.282	334	0.777
20	0.867	65	0.868	110	0.777	155	0.828	200	0.804	245	0.369	290	0.297	335	0.784
21	0.864	66	0.848	111	0.792	156	0.839	201	0.803	246	0.356	291	0.313	336	0.791
22	0.858	67	0.828	112	0.809	157	0.850	202	0.800	247	0.342	292	0.328	337	0.796
23	0.850	68	0.809	113	0.828	158	0.858	203	0.796	248	0.328	293	0.342	338	0.800
24	0.839	69	0.792	114	0.848	159	0.864	204	0.791	249	0.313	294	0.356	339	0.803
25	0.828	70	0.777	115	0.868	160	0.867	205	0.784	250	0.297	295	0.369	340	0.804
26	0.816	71	0.765	116	0.887	161	0.868	206	0.777	251	0.282	296	0.381	341	0.803
27	0.803	72	0.756	117	0.906	162	0.865	207	0.768	252	0.267	297	0.392	342	0.801
28	0.791	73	0.751	118	0.924	163	0.859	208	0.757	253	0.253	298	0.402	343	0.797
29	0.780	74	0.750	119	0.941	164	0.850	209	0.746	254	0.240	299	0.411	344	0.792
30	0.771	75	0.754	120	0.955	165	0.837	210	0.733	255	0.228	300	0.418	345	0.785
31	0.764	76	0.761	121	0.968	166	0.822	211	0.720	256	0.217	301	0.425	346	0.776
32	0.759	77	0.773	122	0.979	167	0.804	212	0.706	257	0.208	302	0.430	347	0.765
33	0.758	78	0.787	123	0.988	168	0.784	213	0.690	258	0.201	303	0.434	348	0.753
34	0.760	79	0.804	124	0.994	169	0.762	214	0.674	259	0.196	304	0.438	349	0.740
35	0.765	80	0.823	125	0.998	170	0.739	215	0.658	260	0.193	305	0.441	350	0.725
36	0.773	81	0.844	126	1.000	171	0.715	216	0.640	261	0.192	306	0.444	351	0.709
37	0.784	82	0.864	127	0.999	172	0.691	217	0.623	262	0.191	307	0.447	352	0.692
38	0.798	83	0.884	128	0.996	173	0.668	218	0.605	263	0.192	308	0.450	353	0.674
39	0.813	84	0.903	129	0.991	174	0.646	219	0.588	264	0.194	309	0.453	354	0.657
40	0.830	85	0.920	130	0.984	175	0.627	220	0.571	265	0.196	310	0.457	355	0.640
41	0.848	86	0.935	131	0.974	176	0.611	221	0.554	266	0.198	311	0.463	356	0.624
42	0.866	87	0.947	132	0.963	177	0.598	222	0.538	267	0.200	312	0.469	357	0.610
43	0.884	88	0.956	133	0.950	178	0.590	223	0.523	268	0.202	313	0.477	358	0.599
44	0.902	89	0.961	134	0.935	179	0.586	224	0.510	269	0.203	314	0.487	359	0.591

Proposal Number	**EM-070924-1**		
Date	**24-Sep-07**		
Call Letters	**KTVU-DT**	Channel	**44**
Location	**San Francisco, CA**		
Customer			
Antenna Type	**TUM-C5SP-14/60H-2-T-R**		

ELEVATION PATTERN

RMS Gain at Main Lobe	**26.00 (14.15 dB)**	Beam Tilt	**0.75 deg**
RMS Gain at Horizontal	**11.10 (10.45 dB)**	Frequency	**653.00 MHz**
Calculated / Measured	**Calculated**	Drawing #	**14U270075**



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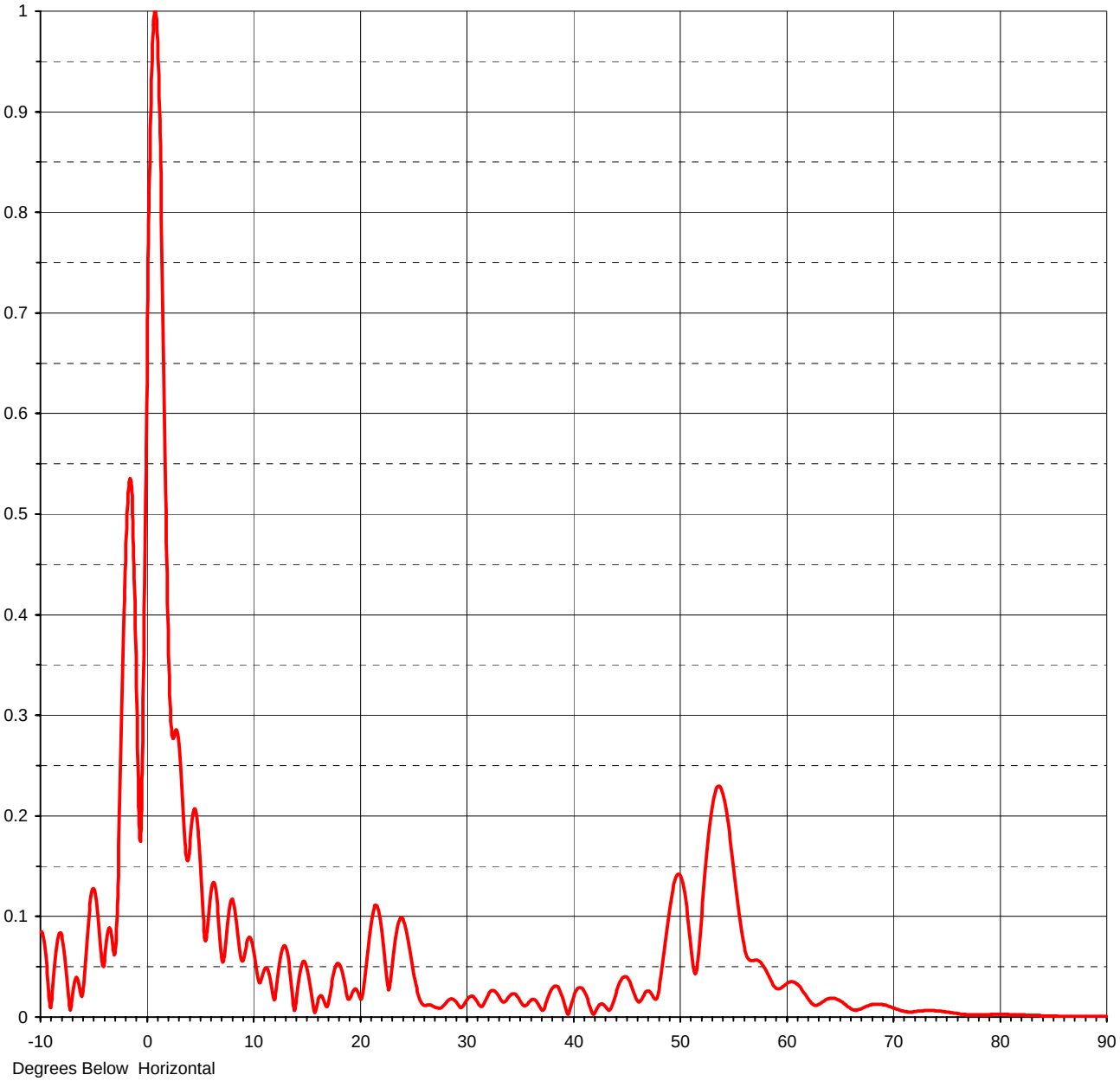
Location	**San Francisco, CA**		
Customer			
Antenna Type	**TUM-C5SP-14/60H-2-T-R**		

ELEVATION PATTERN

RMS Gain at Main Lobe	**26.00**	**(14.15 dB)**	Beam Tilt **0.75 deg**
RMS Gain at Horizontal	**11.10**	**(10.45 dB)**	Frequency **653.00 MHz**
Calculated / Measured	**Calculated**		Drawing # **14U270075-90**



Dielectric

Proposal Number	**EM-070924-1**
Date	**24-Sep-07**
Call Letters	**KTVU-DT** Channel **44**
Location	**San Francisco, CA**
Customer	
Antenna Type	**TUM-C5SP-14/60H-2-T-R**

TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **14U270075-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.085	2.4	0.277	10.6	0.034	30.5	0.021	51.0	0.082	71.5	0.005
-9.5	0.061	2.6	0.282	10.8	0.036	31.0	0.017	51.5	0.043	72.0	0.005
-9.0	0.009	2.8	0.285	11.0	0.044	31.5	0.011	52.0	0.087	72.5	0.006
-8.5	0.069	3.0	0.273	11.5	0.045	32.0	0.021	52.5	0.152	73.0	0.006
-8.0	0.081	3.2	0.241	12.0	0.017	32.5	0.027	53.0	0.202	73.5	0.007
-7.5	0.037	3.4	0.201	12.5	0.051	33.0	0.022	53.5	0.228	74.0	0.006
-7.0	0.023	3.6	0.166	13.0	0.071	33.5	0.015	54.0	0.225	74.5	0.006
-6.5	0.038	3.8	0.155	13.5	0.046	34.0	0.020	54.5	0.200	75.0	0.005
-6.0	0.026	4.0	0.170	14.0	0.008	34.5	0.023	55.0	0.158	75.5	0.004
-5.5	0.094	4.2	0.192	14.5	0.048	35.0	0.018	55.5	0.113	76.0	0.003
-5.0	0.128	4.4	0.206	15.0	0.052	35.5	0.011	56.0	0.075	76.5	0.003
-4.5	0.086	4.6	0.204	15.5	0.024	36.0	0.016	56.5	0.058	77.0	0.002
-4.0	0.056	4.8	0.184	16.0	0.011	36.5	0.017	57.0	0.056	77.5	0.002
-3.5	0.089	5.0	0.150	16.5	0.021	37.0	0.009	57.5	0.056	78.0	0.002
-3.0	0.064	5.2	0.110	17.0	0.010	37.5	0.013	58.0	0.049	78.5	0.002
-2.8	0.111	5.4	0.080	17.5	0.038	38.0	0.027	58.5	0.038	79.0	0.002
-2.6	0.194	5.6	0.080	18.0	0.053	38.5	0.031	59.0	0.030	79.5	0.002
-2.4	0.289	5.8	0.103	18.5	0.040	39.0	0.022	59.5	0.029	80.0	0.003
-2.2	0.382	6.0	0.124	19.0	0.018	39.5	0.004	60.0	0.033	80.5	0.002
-2.0	0.462	6.2	0.134	19.5	0.027	40.0	0.017	60.5	0.035	81.0	0.002
-1.8	0.516	6.4	0.129	20.0	0.021	40.5	0.028	61.0	0.033	81.5	0.002
-1.6	0.535	6.6	0.111	20.5	0.036	41.0	0.027	61.5	0.028	82.0	0.002
-1.4	0.513	6.8	0.084	21.0	0.084	41.5	0.015	62.0	0.020	82.5	0.002
-1.2	0.447	7.0	0.060	21.5	0.111	42.0	0.003	62.5	0.013	83.0	0.002
-1.0	0.344	7.2	0.057	22.0	0.095	42.5	0.012	63.0	0.012	83.5	0.002
-0.8	0.223	7.4	0.076	22.5	0.045	43.0	0.012	63.5	0.015	84.0	0.001
-0.6	0.175	7.6	0.099	23.0	0.041	43.5	0.007	64.0	0.018	84.5	0.001
-0.4	0.295	7.8	0.113	23.5	0.085	44.0	0.021	64.5	0.019	85.0	0.001
-0.2	0.474	8.0	0.117	24.0	0.099	44.5	0.036	65.0	0.016	85.5	0.001
0.0	0.652	8.2	0.110	24.5	0.082	45.0	0.040	65.5	0.012	86.0	0.001
0.2	0.805	8.4	0.094	25.0	0.049	45.5	0.032	66.0	0.009	86.5	0.001
0.4	0.920	8.6	0.074	25.5	0.024	46.0	0.018	66.5	0.007	87.0	0.001
0.6	0.986	8.8	0.058	26.0	0.012	46.5	0.018	67.0	0.008	87.5	0.001
0.8	1.000	9.0	0.056	26.5	0.012	47.0	0.026	67.5	0.011	88.0	0.001
1.0	0.963	9.2	0.065	27.0	0.011	47.5	0.021	68.0	0.012	88.5	0.001
1.2	0.879	9.4	0.075	27.5	0.009	48.0	0.022	68.5	0.013	89.0	0.001
1.4	0.762	9.6	0.079	28.0	0.012	48.5	0.057	69.0	0.012	89.5	0.001
1.6	0.625	9.8	0.079	28.5	0.018	49.0	0.099	69.5	0.011	90.0	0.001
1.8	0.488	10.0	0.072	29.0	0.016	49.5	0.132	70.0	0.009		
2.0	0.372	10.2	0.059	29.5	0.009	50.0	0.142	70.5	0.007		
2.2	0.299	10.4	0.044	30.0	0.015	50.5	0.124	71.0	0.006		