

TECHNICAL EXHIBIT
APPLICATION FOR MODIFICATION OF
DTV CONSTRUCTION PERMIT
DTV STATION KMEX-DT
LOS ANGELES, CALIFORNIA

June 11, 2001

CH 35 400 KW (MAX-DA) 956 M

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Technical Narrative

This Technical Exhibit supports an application for modification of DTV construction permit for station KMEX-DT on digital channel 35 at Los Angeles, California. Station KMEX-DT is presently authorized (BPCDT-19991028AES) for operation on channel 35 (596-602 MHz) with a maximum directional effective radiated power (ERP) of 400 kilowatts and an antenna radiation center height above average terrain (HAAT) of 972 meters.

By means of this application, KMEX-DT proposes to reduce its HAAT to 956 meters. No other changes are proposed.

Specifically, KMEX-DT will operate with its authorized Andrew ATW22HS8-ETC2L-34H "elliptically" polarized antenna on a proposed 107 meter (351 foot) tower. The authorized DTV maximum directional ERP will remain at 400 kilowatts (400 kilowatts horizontal polarization and 80 kilowatts vertical polarization). The proposed KMEX-DT facilities (400 kW-DA, 956 m) are less than the currently authorized KMEX-DT facilities (400 kW-DA, 972 m) and also less than allotted facilities of station KCBS-TV, KNBC, KTLA-TV and KABC-TV. Therefore, the proposed facility is permitted under Section 73.622(f)(5) of the Commission's rules.

A map showing the proposed transmitter site location is currently on file with the FCC (BPCDT-19991028AES). Figure 1 is a sketch of proposed antenna and supporting structure. The FCC Tower Registration Number for the proposed tower is 1215107.

The Federal Aviation Administration (FAA) is being notified of the decrease in overall tower height.¹ The FCC registration will be revised to reflect the FAA Determination of No Hazard for the proposed structure once a new determination has been issued.

Figure 2 provides the horizontal and vertical plane radiation patterns for the proposed Andrew type ATW22HS8-ETC2L-34H, elliptically polarized, directional antenna system. The antenna will incorporate 1.5° of electrical and 1.5° of mechanical beam tilt at 200° true. Sheets 1 and 2 of Figure 3 show the "normalized" horizontal relative field pattern which was calculated taking into account the electrical and mechanical tilt toward the radio horizon. Sheet 3 is the horizontal relative field pattern without considering mechanical tilt.

There are no known authorized full service AM stations within 5 kilometers (3 miles) of the authorized transmitter site. The following is a list of known authorized full service FM and TV stations within 16 kilometers (10 miles) of the KMEX-DT site.

I. FM Stations

Minimum Channel 200 (87.9 MHz) Coordinates : 34-13-36 118-03-59
Maximum Channel 300 (107.9 MHz) FM Records Sorted by Distance

Call	City	Channel	ERP(kW)	Latitude	Bearing	Distance
Status	State	FCC File No.	Freq.	HAAT(m)	Longitude	deg-True(km)(mile)

KZLAFM	Los Angeles	230B	18.5	DA	34-13-36	.0	.00	.00
CP	CA	BPH980728IE	93.9	917.0	118-03-59			

KBIGFM	Los Angeles	282B	105.		34-13-36	.0	.00	.00
LIC	CA	BLH960917KC	104.3	882.0	118-03-59			
Grandfathered at 105kw @ 882m HAAT.								
Proposed to Mexico as C 910503-Accepted by Mexico 910917								

KPCC	Pasadena	207B	0.60		34-13-35	140.2	.05	.03
LIC	CA	BLED880708KB	89.3	891.0	118-03-58			

KLOS	Los Angeles	238B	63.		34-13-37	40.7	.05	.03
LIC	CA	BLH840702CP	95.5	954.0	118-03-58			
Grandfathered at 63 kW ERP and 954 meters HAAT								
Proposed to Mexico as C 910503-Accepted by Mexico 910917								

¹ The overall tower height will be reduced from 125 meters (410 feet) to 107 meters (350 feet).

Call Status	City State	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-True	Distance (km)(mile)
KLSX LIC	Los Angeles CA		246B BMLH900206KB 97.1	21. DA 915.0	34-13-37 118-03-58	40.7	.05 .03
Proposed to Mexico as C 910610-Accepted by Mexico 911015							
KKBT LIC	Los Angeles CA		262B BLH850528KC 100.3	5.3 916.0	34-13-37 118-03-58	90.1	.06 .04
KCMG LIC	Los Angeles CA		222B BMLH921021KA 92.3	43. 887.0	34-13-36 118-03-57	90.1	.06 .04
GRANDFATHERED AT 43KW @ 887M HAAT							
KIISFM LIC	Los Angeles CA		274B BLH5361 102.7	8.0 DA 902.0	34-13-36 118-03-57	90.1	.06 .04
Grandfathered at 8.0 kW ERP at 902 meters HAAT Proposed to Mexico as C on 910620-Objected by Mexico 920228							
KRTHFM LIC	Los Angeles CA		266B BLH19890112KG 101.1	58. 893.0	34-13-38 118-04-00	338.3	.08 .05
KPWR LIC	Los Angeles CA		290B BLH930311KA 105.9	25.0 DA 925.0	34-13-38 118-04-00	338.3	.08 .05
GRANDFATHERED AT 72KW @ 235M HAAT.							
KOST LIC	Los Angeles CA		278B BLH930831KD 103.5	12.5 949.0	34-13-32 118-03-52	124.7	.23 .14
Proposed to Mexico as C 910610-Accepted by Mexico 911015							
KLVE LIC	Los Angeles CA		298B BMLH950612KB 107.5	29.5 914.0	34-13-44 118-04-02	342.8	.27 .17
GRANDFATHERED AT 29.5KW @ 914M HAAT Proposed to Mexico as C 910610-Accepted by Mexico 911015							
KPFK LIC	Los Angeles CA		214B BLED830425AF 90.7	110. 863.0	34-13-45 118-04-03	339.9	.31 .19
Grandfathered at 110 kW ERP at 863 meters HAAT Proposed to Mexico as C 910503-Accepted by Mexico 910917							
KMZTFM LIC	Los Angeles CA		286B BLH870225KA 105.1	18.0 880.0	34-13-45 118-04-04	335.3	.32 .20
Grandfathered at 18 kW ERP and 880 meters HAAT Proposed to Mexico as C 910610-Accepted by Mexico 911015							
KTWVFM LIC	Los Angeles CA		234B BMLH960718KC 94.7	58. 863.0	34-13-29 118-03-47	125.2	.39 .24
GRANDFATHERED AT 58KW @ 863M HAAT. Proposed to Mexico as C 910503-Accepted by Mexico 910917							
KSCA LIC	Glendale CA		270B BLH960228KA 101.9	4.8 863.0	34-13-26 118-03-45	130.8	.48 .30
Proposed to Mexico as C 910610-Accepted by Mexico 911015							
KKLAFM LIC	Los Angeles CA		258B BLH940825KB 99.5	10.5 DA 878.0	34-13-26 118-03-44	128.9 SS	.50 .31
Class C with respect to Mexico.							
KCBSFM CP	Los Angeles CA		226B BPH980505KC 93.1	28.5 1066.0	34-13-55 118-04-18	320.4	.77 .48

Call Status	City State	FCC File No.	Channel Freq.	ERP(kW) HAAT(m)	Latitude Longitude	Bearing deg-True	Distance (km)(mile)
KZLAFM LIC	Los Angeles CA	BLH910802KA	230B 93.9	18.5 DA 956.0	34-13-57 118-04-18	323.2	.82 .51
KUSC LIC	Los Angeles CA	BLED000404ABH	218B 91.5	39. DA 891.0	34-12-48 118-03-41	162.8	1.56 .97
KLYY LIC	Arcadia CA	BLH980106KD	296A 107.1	6.0 -13.0	34-10-51 118-01-38	144.7	6.25 3.88
Proposed as Class B1 to Mexico 961115 - Accepted by Mexico 970626							
KLAXFM LIC	East Los Angeles CA	BLH971231KC	250B 97.9	33.0 DA 184.0	34-09-49 118-11-44	239.5 SS	13.82 8.59
From Long Beach, CA per D90-44							
Proposed to Mexico as C 910610-Accepted by Mexico 911015							

II. TV Stations (NTSC and DTV)

Job Title :KMEX-TV TV/DTV Within 16.0 km
Sorted by Distance
Channels 2 to 69 Coordinates : 34-13-36 118-03-59

Call Status	City State	FCC File No.	Channel Zone	ERP(kw) HAAT(m)	Latitude Longitude	Bearing deg-True	Distance (km)(mile)
KWHYTV LIC	LOS ANGELES CA	BLCT-940317KM	22(o) II	2630 DA 889	34-13-36 118-03-59	0.00	0.00 0.00
KWHY-DT CP	LOS ANGELES CA	BMPCDT-990420KE	42 II	165 DA 917	34-13-36 118-03-59	0.00	0.00 0.00
DIGITAL TV, ERP AS SHOWN ON CP.							
KDOCTV CP	ANAHEIM CA	BPCT-990324KE	56(-) II	2510 DA 917	34-13-36 118-03-58	89.93	0.03 0.02
KIDN-TV CP	AVALON CA	BMPCT-000928AIF	54(o) II	2290 DA 959	34-13-37 118-03-58	40.09	0.04 0.02
KABCTV LIC	LOS ANGELES CA	BLCT-840619KF	7(o) II	141 DA 978	34-13-37 118-03-58	40.64	0.04 0.03
KHSCTV LIC	ONTARIO CA	BLCT-840427KR	46(o) II	2450 DA 927	34-13-37 118-03-58	40.64	0.04 0.03
KIDN-DT CP	AVALON CA	BPCDT-991101ADY	54(o) II	1000 961	34-13-37 118-03-58	40.09	0.04 0.02
KDOC-DT CP	ANAHEIM CA	BPCDT-981028KE	32 II	200 DA 960	34-13-37 118-03-58	40.64	0.04 0.03
DIGITAL TV							
KSCI-DT CP	LONG BEACH CA	BPCDT-981123KJ	61 II	148 DA 948	34-13-37 118-03-58	40.64	0.04 0.03
DIGITAL TV, ERP SHOWN ON APP. AS 148.8 KW.							

Call Status	City State	FCC File No.	Channel Zone	ERP(kw) HAAT(m)	Latitude Longitude	Bearing deg-True	Distance (km)(mile)
KABC-DT LIC	LOS ANGELES CA	BLCDT-981112KF	53 II	182 DA 924	34-13-37 118-03-58	40.64	0.04 0.03
KHSC-DT CP	ONTARIO CA	BPCDT-991029AFX	47 II	24 DA 919	34-13-37 118-03-57	59.03	0.06 0.04
KCAL-DT CP	LOS ANGELES CA	BPCDT-981201KE	43 II	300 DA 947	34-13-38 118-04-00	337.92	0.07 0.04
DIGITAL TV, ERP AS SHOWN ON CP..							
KCALTV LIC	LOS ANGELES CA	BLCT-911107KP	9(o) II	141 970	34-13-38 118-04-00	337.92	0.07 0.04
KTLATV LIC	LOS ANGELES CA	BLCT-880908KO	5(o) II	44.7 976	34-13-36 118-03-56	90.05	0.08 0.05
KMEXTV LIC	LOS ANGELES CA	BLCT-790118LF	34(o) II	1950 DA 896	34-13-35 118-03-56	112.26	0.08 0.05
KTLA-DT LIC	LOS ANGELES CA	BLCDT-990421KE	31 II	375 DA 954	34-13-36 118-03-56	90.05	0.08 0.05
KCOP-DT CP	LOS ANGELES CA	BPCDT-980804KE	66 II	371 DA 888	34-13-42 118-04-01	344.35	0.19 0.12
DIGITAL TV, ERP AS SHOWN ON CP.							
KCOPTV LIC	LOS ANGELES CA	BLCT-800819KG	13(o) II	162 899	34-13-42 118-04-01	344.35	0.19 0.12
KNBC-DT CP	LOS ANGELES CA	BPCDT-980427KG	36 II	380 991	34-13-32 118-03-52	124.64	0.22 0.13
DIGITAL TELEVISION							
KNBC LIC	LOS ANGELES CA	BLCT-930901KE	4(o) II	43.7 984	34-13-32 118-03-52	124.64	0.22 0.13
KTTV-DT CP	LOS ANGELES CA	BMPCDT-990527KH	65 II	1000 DA 902	34-13-29 118-03-48	127.53	0.35 0.22
DIGITAL TV							
KTTV-DT LIC	LOS ANGELES CA	BLCDT-990615KH	65 II	680 DA 902	34-13-29 118-03-48	127.53	0.35 0.22
DIGITAL TV, ERP AS SHOWN ON CP.							
KTTV LIC	LOS ANGELES CA	BLCT-2252	11(o) II	166 896	34-13-29 118-03-47	125.19	0.38 0.23
ERP AS SHOWN ON LIC.							
KVEA LIC	CORONA CA	BLCT-960805KF	52(o) II	2570 DA 896	34-13-27 118-03-45	127.83	0.45 0.28
KLCS LIC	LOS ANGELES CA	BLET-347	*58(-) II	2140 DA 875	34-13-26 118-03-45	130.80	0.47 0.29
KTBNV LIC	SANTA ANA CA	BLCT-830418KH	40(o) II	631 881	34-13-27 118-03-44	125.96	0.47 0.29
KCET-DT LIC	LOS ANGELES CA	BPEDT-000626AFV	*59 II	190 DA 913	34-13-26 118-03-44	128.89	0.49 0.31

Call Status	City State	FCC File No.	Channel Zone	ERP(kw) HAAT(m)	Latitude Longitude	Bearing deg-True	Distance (km)(mile)
KCET LIC	LOS ANGELES CA	BLET-820607LE	*28(o) II	2450 DA 927	34-13-26 118-03-44	128.89	0.49 0.31
KCBS-DT LIC	LOS ANGELES CA	BLCDT-981109KE	60 II	469 DA 1087	34-13-55 118-04-18	320.43	0.76 0.47
DIGITAL TELEVISION, ERP AS SHOWN ON LIC.							
KCBSTV LIC	LOS ANGELES CA	BLCT-980420KF	2(o) II	36.3 1097	34-13-55 118-04-18	320.43	0.76 0.47
KRCA-DT CPMOD	RIVERSIDE CA	BMPCDT-000501AFR	68 II	1000 DA 907	34-12-50 118-03-40	162.79	1.55 0.96
DIGITAL TV							
KRCA CP	RIVERSIDE CA	BMPCT-000419ABV	62(o) II	2630 DA 895	34-12-50 118-03-40	162.79	1.55 0.96

Although no adverse electromagnetic impact is expected, the applicant recognizes its responsibility to correct problems, which are a result of the KMEX-DT operation.

The transmitter site is located approximately 208 kilometers from the closest point of the US/Mexican border area. Therefore, if necessary, coordination with Mexico is respectfully requested.

The proposed site is also more than 1620 kilometers from the closest point of the Canadian border. The closest FCC monitoring station is at Livermore, California, approximately 511 kilometers to the northwest. The closest point of the National Radio Quiet Zone (VA/WV) is more than 3368 kilometers to the northeast. The closest point of the Table Mountain Radio Quiet Zone (CO) is more than 1308 kilometers to the northeast. The closest radio astronomy site operating on TV channel 37 is at Owens Valley, California, located approximately 335 kilometers to the north. These separations are sufficient to not be a concern for coordination purposes.

The distances to the predicted 41 and 48 dBu, F(50,90) coverage contours were determined in accordance with

the provisions of Section 73.625. The average elevations from 3.2 to 16.1 kilometers from the transmitter site, were obtained from the NGDC 30-second terrain database and were used for determining the distances to coverage contours.

Figure 3 is a map showing the predicted 41 and 48 dBu, F(50,90), coverage contours. The Los Angeles city limits were derived from information contained in the 1990 U.S. Census for California.

Figure 4 is the separation study for DTV channel 35 from the proposed KMEX-DT site. The study has been used to determine the assignments requiring interference studies using the procedures outlined in the FCC's OET-69 bulletin. Interference calculations for the proposed KMEX-DT DTV operation are summarized below.

An interference analysis has been conducted using the procedures outlined in the FCC's OET-69 bulletin which demonstrates that the proposal complies with the interference protection provisions of Section 73.623(c)(2).² The interference analysis was based on the presumption that other DTV facilities are operating at the DTV power level specified for their allotment and at their allotment site and HAAT. Interference calculations for the proposed KMEX-DT DTV operation are summarized below. It is noted that the summary only includes stations with which interference is calculated.

² The du Treil, 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. An Alpha based processor computer system was employed. The results have been found to be in very close agreement with the results of the FCC implementation of OET Bulletin No. 69.

Protected NTSC/DTV Station	FCC Service Population	Proposed Interference Population
KNBC-DT DTV Ch. 36 Los Angeles, CA (Licensed Facility)	14,262,000	18,532 (0.1%)
DKNBC DTV Ch. 36 Los Angeles, CA (Allotment Facility)	14,262,000	15,901 (0.1%)
KMEX-TV NTSC Ch. 35 Los Angeles, CA (Licensed Facility)	13,747,950	36,419 (0.3%)

From the above, it is apparent that the proposed KMEX-DT DTV operation on channel 35 complies with the FCC's 2%/10% interference standard toward all authorized analog and DTV assignments.

The proposed facilities were evaluated in terms of potential radio frequency (RF) energy exposure at ground level to workers and the general public. The radiation center for the proposed DTV antenna is located 98 meters above ground level. The maximum DTV ERP is 480 kW, which is the sum of the 400 kW (horizontal polarization) plus 80 kW (vertical polarization). A "worst-case" vertical plane relative field value of 0.05 (for angles below 60 degrees downward) is assumed for the antenna's downward radiation (see Sheet 6 of Figure 2). The calculated power density at a point 2 meters above ground level is 0.0044 mW/cm². This is 1.1% of the FCC's recommended limit of 0.40 mW/cm² for DTV channel 35 for an "uncontrolled" environment. Therefore, based on the new responsibility threshold of 5%, the proposal will comply with the new RF emission rules.

Access to the transmitting site will be restricted and appropriately marked with warning signs. Furthermore, as this is a multi-user site, an agreement will be in effect with the other stations in the event that workers or other

authorized personnel enter the restricted area or climb the tower to ensure that 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 or scheduling work when the stations are at reduced power or shut down.

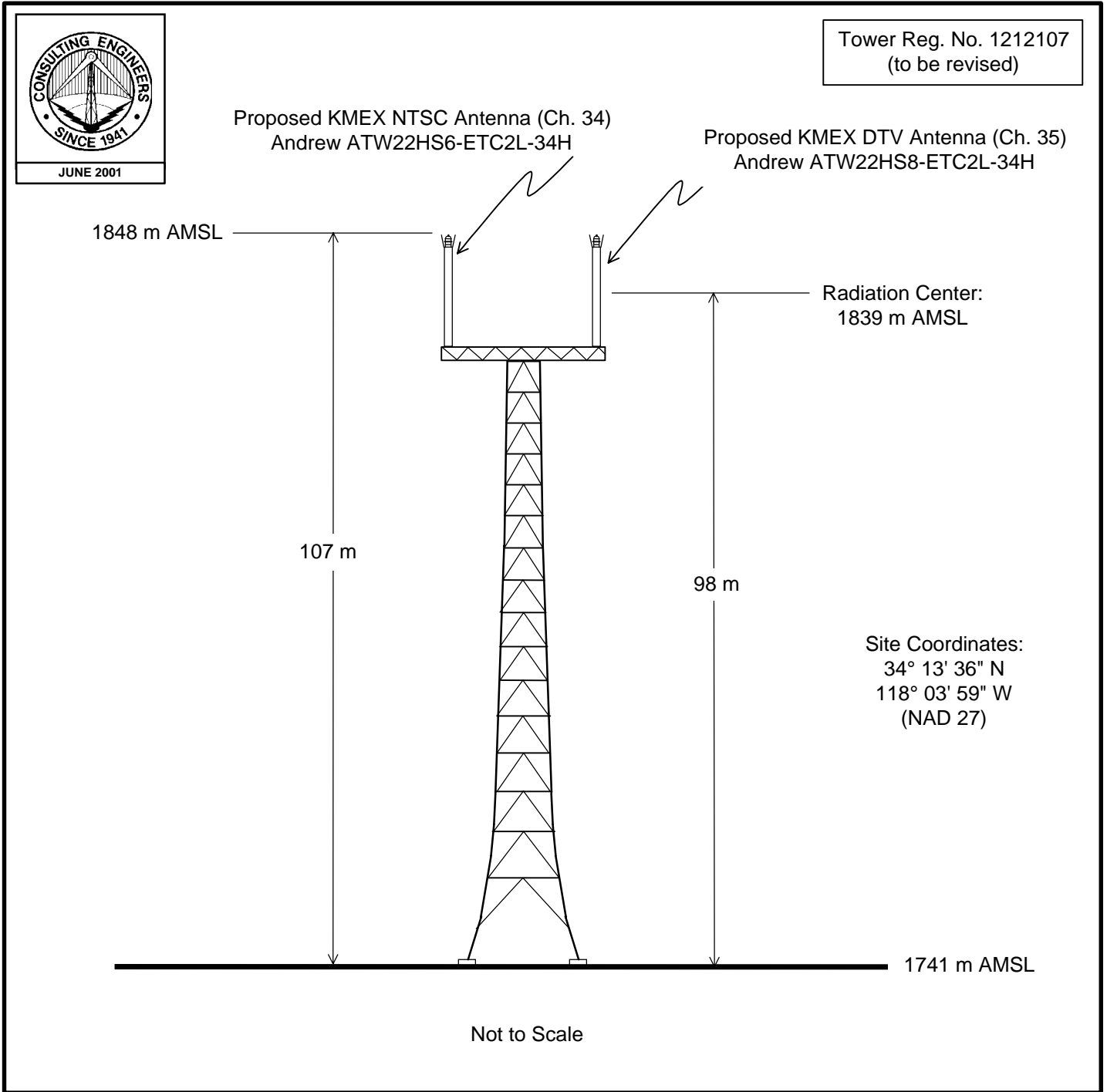
If there are questions concerning the technical portion of this application, please contact the office of the undersigned.

Jerome J. Manarchuck

du Treil, Lundin & Rackley, Inc.
201 Fletcher Avenue
Sarasota, Florida 34237-6019
(941) 329-6000

June 11, 2001

Figure 1



PROPOSED ANTENNA AND SUPPORTING STRUCTURE

STATION KMXB-DT

LOS ANGELES, CALIFORNIA

CH 35 400 KW (MAX-DA) 956 M

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



NORMALIZED HORIZONTAL PLANE RELATIVE FIELD PATTERN

STATION KMEX-DT
LOS ANGELES, CALIFORNIA
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du Treil, Lundin & Rackley, Inc. Sarasota, Florida

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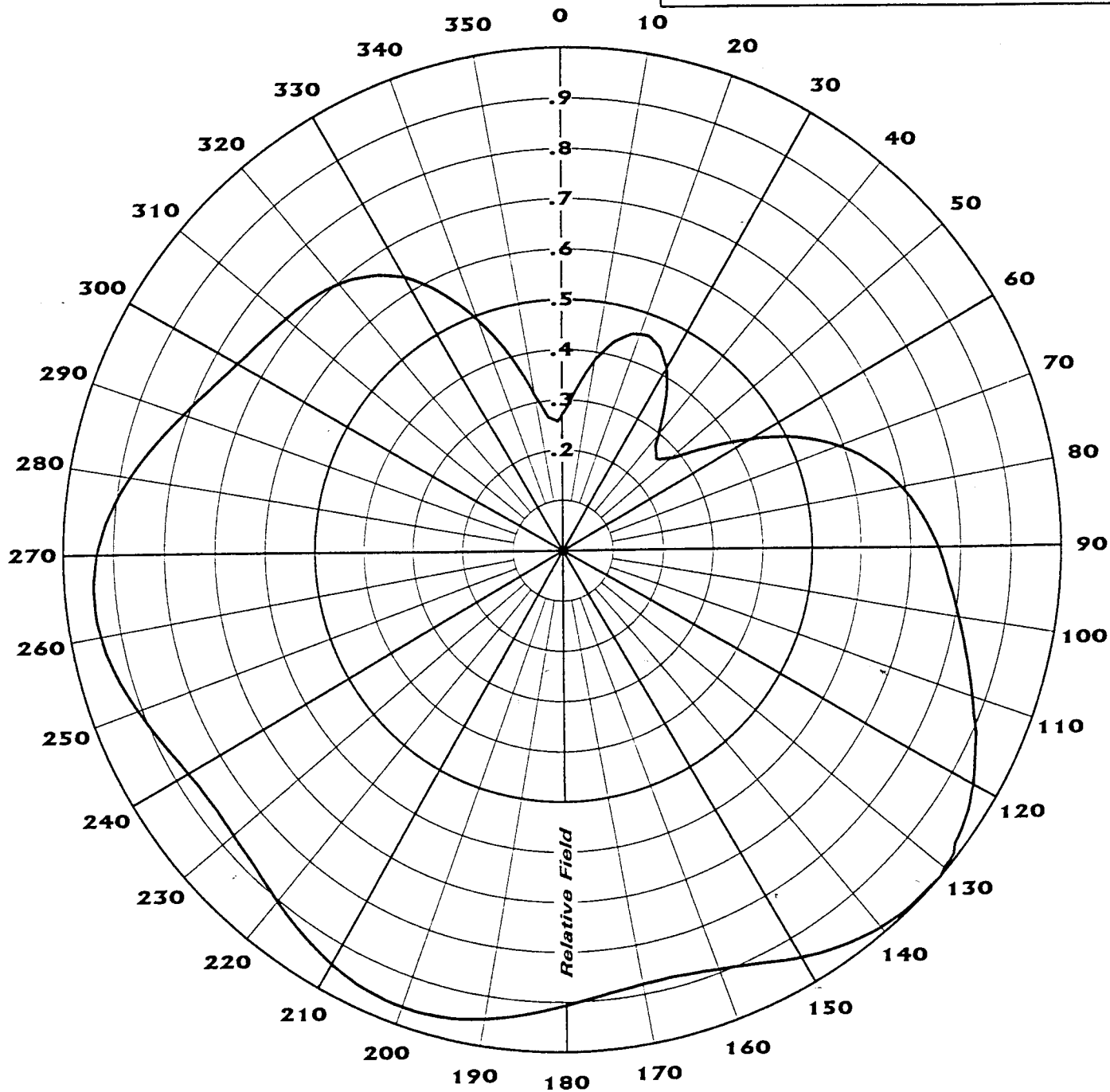
Normalized Horizontal Plane Relative Field Values

Azimuth* (°True)	Relative Field	Azimuth* (°True)	Relative Field
0	0.313	180	0.475
10	0.429	190	0.464
20	0.520	200	0.457
30	0.479	210	0.459
40	0.344	220	0.468
50	0.332	230	0.496
60	0.510	240	0.557
70	0.706	250	0.663
80	0.837	260	0.770
90	0.911	270	0.857
100	0.944	280	0.868
110	0.974	290	0.884
120	1.000	300	0.878
130	0.976	310	0.868
140	0.867	320	0.849
150	0.730	330	0.764
160	0.601	340	0.577
170	0.515	350	0.364

ANDREW

AZIMUTH PATTERN

Type:	CH34AZ-H-MODEL-C2	
	Numeric	dBd
Directivity:	1.69	(2.28)
Peak(s) At:		
Polarization:	Horizontal	
Channel:	NTSC 34 & DTV 35	
Location:	Los Angeles, CA	

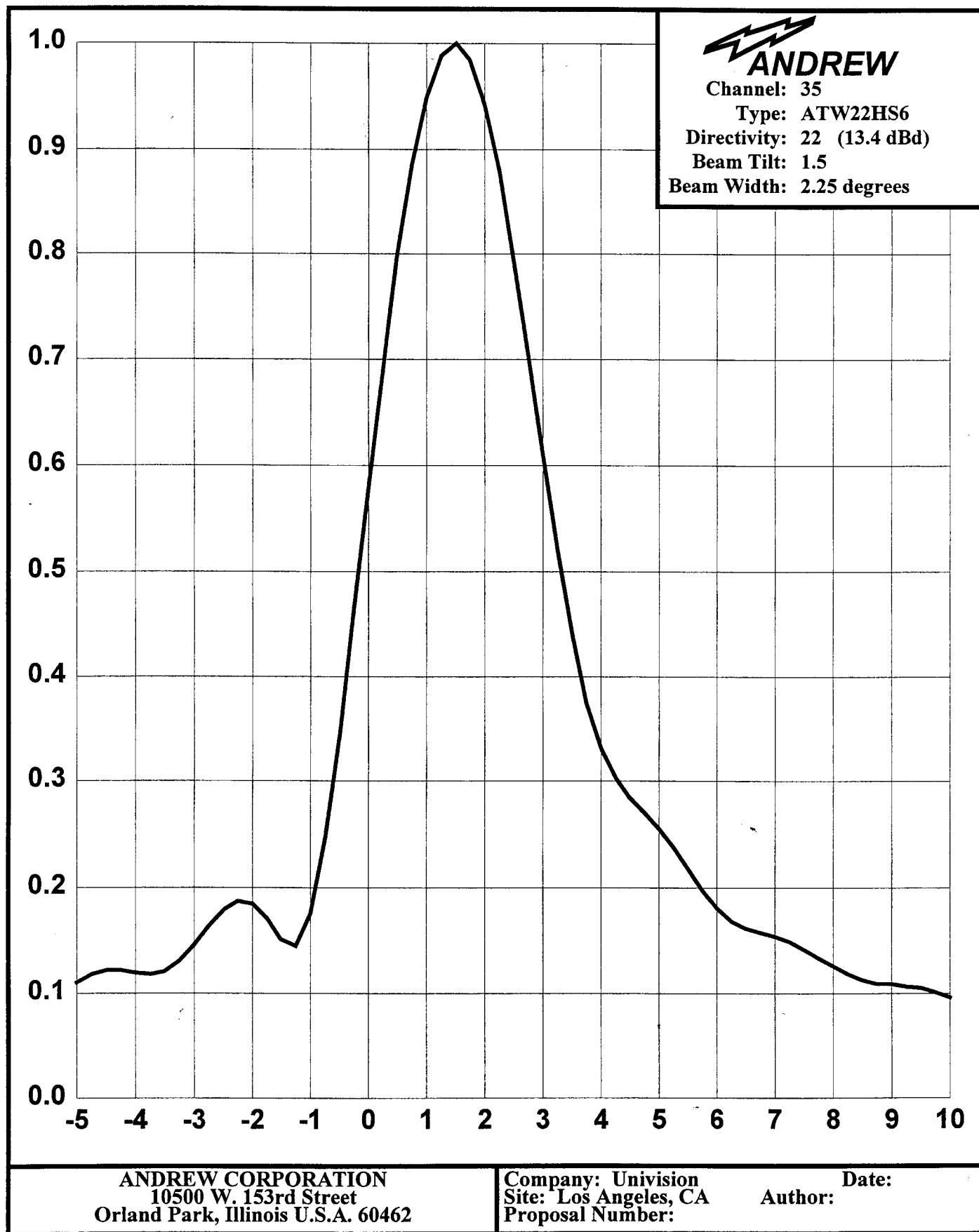


CH34AZ-H-MODEL-C2

ANGLE FIELD

0	0.271	64	0.504	128	0.991	192	0.951	256	0.930	320	0.697
1	0.278	65	0.519	129	0.993	193	0.954	257	0.933	321	0.693
2	0.285	66	0.534	130	0.993	194	0.957	258	0.936	322	0.688
3	0.297	67	0.549	131	0.999	195	0.958	259	0.938	323	0.683
4	0.309	68	0.564	132	0.998	196	0.960	260	0.939	324	0.676
5	0.321	69	0.578	133	0.996	197	0.961	261	0.941	325	0.670
6	0.333	70	0.590	134	0.996	198	0.962	262	0.942	326	0.664
7	0.346	71	0.602	135	0.996	199	0.962	263	0.942	327	0.656
8	0.359	72	0.615	136	0.995	200	0.963	264	0.942	328	0.648
9	0.371	73	0.627	137	0.994	201	0.963	265	0.942	329	0.639
10	0.384	74	0.637	138	0.992	202	0.962	266	0.941	330	0.631
11	0.395	75	0.647	139	0.990	203	0.961	267	0.939	331	0.620
12	0.405	76	0.657	140	0.988	204	0.959	268	0.937	332	0.607
13	0.415	77	0.667	141	0.984	205	0.958	269	0.935	333	0.595
14	0.426	78	0.676	142	0.980	206	0.956	270	0.933	334	0.582
15	0.432	79	0.684	143	0.976	207	0.953	271	0.929	335	0.567
16	0.439	80	0.691	144	0.972	208	0.950	272	0.925	336	0.552
17	0.445	81	0.699	145	0.967	209	0.948	273	0.921	337	0.538
18	0.451	82	0.706	146	0.963	210	0.945	274	0.916	338	0.523
19	0.453	83	0.713	147	0.958	211	0.941	275	0.911	339	0.506
20	0.455	84	0.719	148	0.954	212	0.937	276	0.905	340	0.489
21	0.457	85	0.725	149	0.948	213	0.933	277	0.899	341	0.473
22	0.458	86	0.731	150	0.942	214	0.929	278	0.893	342	0.456
23	0.455	87	0.737	151	0.937	215	0.924	279	0.886	343	0.438
24	0.452	88	0.743	152	0.931	216	0.920	280	0.880	344	0.420
25	0.449	89	0.749	153	0.925	217	0.916	281	0.873	345	0.402
26	0.446	90	0.754	154	0.919	218	0.912	282	0.866	346	0.384
27	0.438	91	0.759	155	0.913	219	0.907	283	0.859	347	0.366
28	0.430	92	0.764	156	0.908	220	0.903	284	0.852	348	0.349
29	0.423	93	0.769	157	0.904	221	0.898	285	0.844	349	0.331
30	0.415	94	0.774	158	0.899	222	0.894	286	0.837	350	0.314
31	0.404	95	0.778	159	0.895	223	0.890	287	0.830	351	0.302
32	0.393	96	0.784	160	0.892	224	0.886	288	0.823	352	0.291
33	0.382	97	0.789	161	0.888	225	0.882	289	0.816	353	0.279
34	0.371	98	0.795	162	0.885	226	0.879	290	0.809	354	0.268
35	0.358	99	0.801	163	0.883	227	0.877	291	0.803	355	0.264
36	0.345	100	0.807	164	0.881	228	0.875	292	0.796	356	0.262
37	0.333	101	0.813	165	0.879	229	0.873	293	0.790	357	0.260
38	0.320	102	0.819	166	0.878	230	0.871	294	0.783	358	0.257
39	0.309	103	0.825	167	0.878	231	0.869	295	0.778	359	0.264
40	0.298	104	0.831	168	0.878	232	0.868	296	0.773	360	0.271
41	0.288	105	0.838	169	0.878	233	0.867	297	0.768		
42	0.277	106	0.845	170	0.878	234	0.866	298	0.763		
43	0.272	107	0.852	171	0.880	235	0.866	299	0.758		
44	0.268	108	0.859	172	0.882	236	0.867	300	0.754		
45	0.264	109	0.866	173	0.883	237	0.867	301	0.750		
46	0.260	110	0.873	174	0.885	238	0.868	302	0.746		
47	0.262	111	0.880	175	0.888	239	0.870	303	0.743		
48	0.269	112	0.888	176	0.891	240	0.873	304	0.740		
49	0.275	113	0.896	177	0.894	241	0.875	305	0.737		
50	0.282	114	0.905	178	0.898	242	0.877	306	0.734		
51	0.290	115	0.912	179	0.902	243	0.881	307	0.732		
52	0.305	116	0.919	180	0.905	244	0.885	308	0.729		
53	0.319	117	0.925	181	0.909	245	0.888	309	0.727		
54	0.333	118	0.933	182	0.913	246	0.892	310	0.725		
55	0.348	119	0.941	183	0.917	247	0.896	311	0.722		
56	0.364	120	0.948	184	0.922	248	0.900	312	0.720		
57	0.382	121	0.953	185	0.926	249	0.904	313	0.718		
58	0.399	122	0.960	186	0.930	250	0.908	314	0.716		
59	0.416	123	0.966	187	0.934	251	0.912	315	0.714		
60	0.434	124	0.969	188	0.937	252	0.916	316	0.711		
61	0.451	125	0.974	189	0.941	253	0.920	317	0.708		
62	0.469	126	0.978	190	0.945	254	0.924	318	0.705		
63	0.486	127	0.981	191	0.948	255	0.927	319	0.701		

Figure 2
Sheet 5 of 6





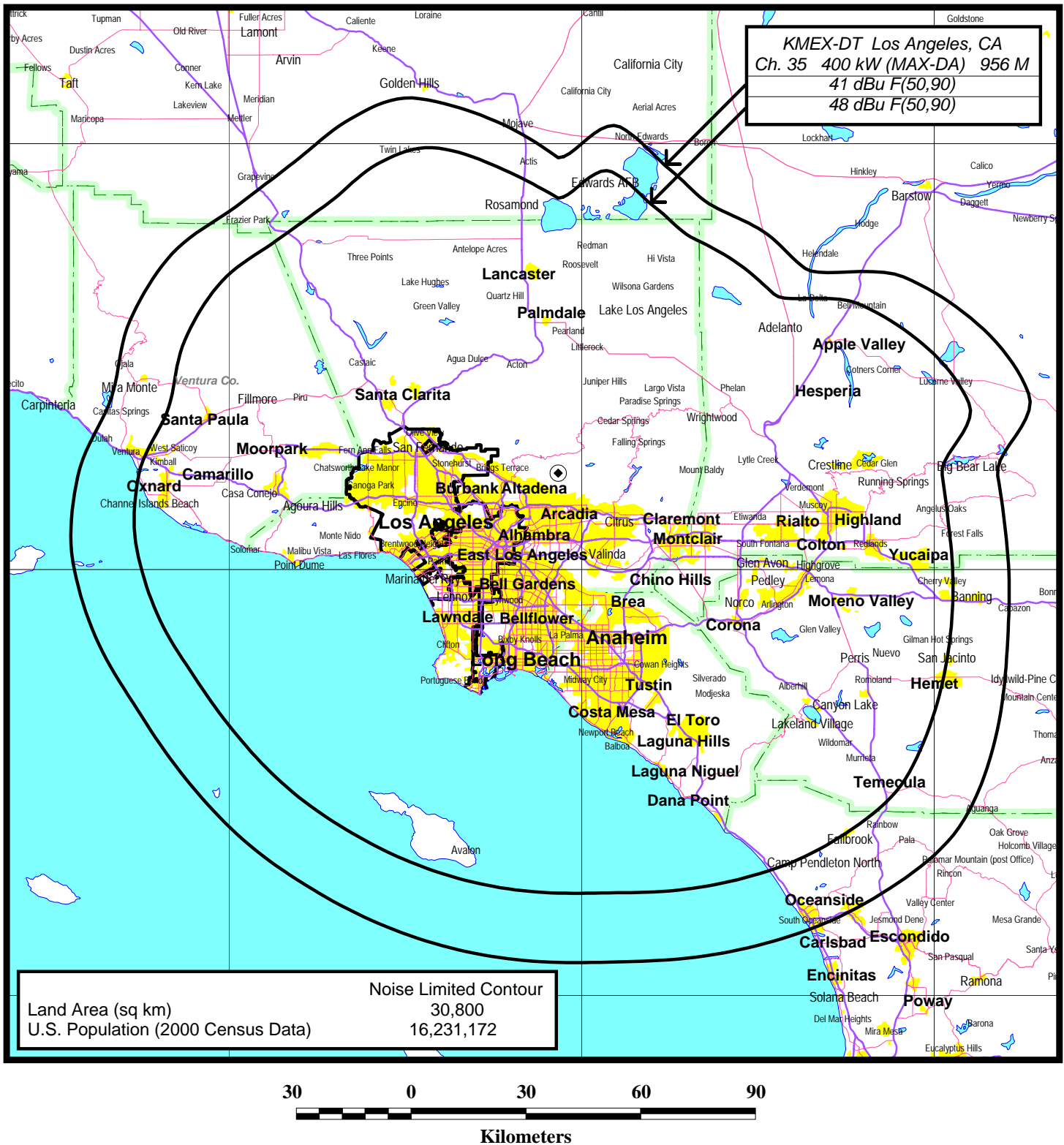
Angle	Amp	dB	Angle	Amp	dB	Angle	Amp	dB	Angle	Amp	dB
-5.00	0.110	-19.17	9.00	0.108	-19.33	36.00	0.031	-30.17	63.50	0.033	-29.59
-4.75	0.117	-18.64	9.25	0.106	-19.49	36.50	0.030	-30.36	64.00	0.032	-29.85
-4.50	0.121	-18.34	9.50	0.104	-19.66	37.00	0.030	-30.46	64.50	0.031	-30.13
-4.25	0.121	-18.34	9.75	0.100	-20.00	37.50	0.030	-30.46	65.00	0.031	-30.17
-4.00	0.119	-18.49	10.00	0.096	-20.35	38.00	0.030	-30.46	65.50	0.031	-30.17
-3.75	0.118	-18.56	10.50	0.087	-21.21	38.50	0.030	-30.46	66.00	0.033	-29.71
-3.50	0.120	-18.42	11.00	0.083	-21.62	39.00	0.029	-30.66	66.50	0.034	-29.41
-3.25	0.130	-17.72	11.50	0.079	-22.00	39.50	0.029	-30.75	67.00	0.035	-29.15
-3.00	0.146	-16.71	12.00	0.074	-22.62	40.00	0.029	-30.75	67.50	0.036	-28.91
-2.75	0.164	-15.70	12.50	0.070	-23.10	40.50	0.030	-30.55	68.00	0.036	-28.87
-2.50	0.179	-14.94	13.00	0.068	-23.29	41.00	0.030	-30.46	68.50	0.035	-29.09
-2.25	0.187	-14.56	13.50	0.067	-23.48	41.50	0.029	-30.66	69.00	0.034	-29.34
-2.00	0.184	-14.70	14.00	0.063	-23.96	42.00	0.029	-30.75	69.50	0.032	-29.83
-1.75	0.170	-15.39	14.50	0.059	-24.52	42.50	0.029	-30.75	70.00	0.031	-30.14
-1.50	0.151	-16.42	15.00	0.058	-24.73	43.00	0.029	-30.75	70.50	0.030	-30.42
-1.25	0.144	-16.83	15.50	0.058	-24.73	43.50	0.030	-30.54	71.00	0.030	-30.46
-1.00	0.175	-15.14	16.00	0.056	-24.97	44.00	0.030	-30.46	71.50	0.031	-30.21
-0.75	0.248	-12.11	16.50	0.053	-25.45	44.50	0.030	-30.46	72.00	0.032	-29.93
-0.50	0.347	-9.19	17.00	0.051	-25.86	45.00	0.029	-30.67	72.50	0.034	-29.43
-0.25	0.461	-6.73	17.50	0.050	-26.02	45.50	0.029	-30.75	73.00	0.036	-28.93
0.00	0.579	-4.75	18.00	0.050	-26.02	46.00	0.029	-30.75	73.50	0.038	-28.45
0.25	0.693	-3.19	18.50	0.049	-26.21	46.50	0.030	-30.54	74.00	0.039	-28.20
0.50	0.797	-1.97	19.00	0.046	-26.68	47.00	0.030	-30.46	74.50	0.039	-28.18
0.75	0.884	-1.07	19.50	0.045	-26.94	47.50	0.030	-30.46	75.00	0.039	-28.18
1.00	0.949	-0.45	20.00	0.045	-26.94	48.00	0.029	-30.67	75.50	0.037	-28.59
1.25	0.988	-0.10	20.50	0.044	-27.04	48.50	0.028	-30.98	76.00	0.036	-28.85
1.50	1.000	0.00	21.00	0.043	-27.36	49.00	0.028	-31.06	76.50	0.033	-29.56
1.75	0.984	-0.14	21.50	0.041	-27.65	49.50	0.029	-30.83	77.00	0.031	-30.13
2.00	0.942	-0.52	22.00	0.041	-27.74	50.00	0.030	-30.53	77.50	0.027	-31.27
2.25	0.879	-1.12	22.50	0.041	-27.74	50.50	0.030	-30.46	78.00	0.024	-32.31
2.50	0.798	-1.96	23.00	0.040	-27.87	51.00	0.030	-30.46	78.50	0.021	-33.47
2.75	0.706	-3.02	23.50	0.039	-28.09	51.50	0.030	-30.46	79.00	0.018	-34.79
3.00	0.610	-4.29	24.00	0.038	-28.31	52.00	0.029	-30.68	79.50	0.016	-35.85
3.25	0.519	-5.70	24.50	0.038	-28.40	52.50	0.029	-30.75	80.00	0.015	-36.44
3.50	0.439	-7.15	25.00	0.037	-28.54	53.00	0.030	-30.53	80.50	0.014	-37.04
3.75	0.375	-8.52	25.50	0.037	-28.64	53.50	0.031	-30.24	81.00	0.015	-36.51
4.00	0.331	-9.60	26.00	0.036	-28.92	54.00	0.031	-30.17	81.50	0.016	-35.95
4.25	0.303	-10.37	26.50	0.035	-29.12	54.50	0.031	-30.17	82.00	0.017	-35.42
4.50	0.285	-10.90	27.00	0.036	-28.97	55.00	0.030	-30.39	82.50	0.018	-34.92
4.75	0.271	-11.34	27.50	0.036	-28.87	55.50	0.030	-30.46	83.00	0.019	-34.45
5.00	0.256	-11.84	28.00	0.035	-29.02	56.00	0.029	-30.69	83.50	0.019	-34.42
5.25	0.237	-12.51	28.50	0.034	-29.27	56.50	0.030	-30.52	84.00	0.020	-34.00
5.50	0.217	-13.27	29.00	0.034	-29.37	57.00	0.031	-30.23	84.50	0.020	-33.98
5.75	0.197	-14.11	29.50	0.034	-29.37	57.50	0.032	-29.95	85.00	0.019	-34.41
6.00	0.180	-14.89	30.00	0.034	-29.37	58.00	0.033	-29.68	85.50	0.018	-34.88
6.25	0.168	-15.49	30.50	0.034	-29.37	58.50	0.033	-29.63	86.00	0.017	-35.38
6.50	0.161	-15.86	31.00	0.033	-29.70	59.00	0.032	-29.84	86.50	0.016	-35.91
6.75	0.157	-16.08	31.50	0.032	-29.90	59.50	0.031	-30.12	87.00	0.014	-37.05
7.00	0.153	-16.31	32.00	0.032	-29.90	60.00	0.030	-30.40	87.50	0.012	-38.39
7.25	0.148	-16.59	32.50	0.033	-29.73	60.50	0.031	-30.23	88.00	0.010	-39.98
7.50	0.141	-17.02	33.00	0.032	-29.80	61.00	0.031	-30.17	88.50	0.008	-41.92
7.75	0.133	-17.52	33.50	0.031	-30.07	61.50	0.033	-29.72	89.00	0.005	-45.99
8.00	0.125	-18.06	34.00	0.031	-30.17	62.00	0.034	-29.42	89.50	0.003	-50.44
8.25	0.117	-18.64	34.50	0.031	-30.17	62.50	0.034	-29.37	90.00	0.000	-216.84
8.50	0.112	-19.02	35.00	0.031	-30.17	63.00	0.034	-29.37			
8.75	0.109	-19.25	35.50	0.031	-30.17	63.50	0.033	-29.59			

ANDREW CORPORATION
10500 W. 153rd Street
Orland Park, Illinois U.S.A. 60462

Company: Univision
Site: Los Angeles, CA
Proposal Number:

Date:
Author:

Figure 3



PREDICTED COVERAGE CONTOURS

STATION KMX-DT
 LOS ANGELES, CALIFORNIA
 CH 35 400 kW (MAX-DA) 956 M

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

DTV - TV Separation Study

Job Title :KMEX-DT
Zone : 2
Channel 35 (596-602 MHz)

Separation Buffer 161 km
FCC TV DB Date : 05/21/01
Coordinates : 34-13-36 118-03-59

Call Status	City St	FCC File No.	Channel Zone	ERP(kW) HAAT(m)	Latitude Longitude	Bear. True	Dist. (km)	Req. (km)
LMRS	LOS ANGELES CA	-	20(o)	.000 0	34-03-15 118-14-28	220.0	25.03 0.00	0.0 LMRS
ALLOC.	SANTA BARBARA CA	-	20(o) II	.000 0	34-24-18 119-41-55	278.0	151.54 54.94	24.1/96.6 CLEAR
KKAK-L LIC	PORTERVILLE CA	BLTTL -19980708	20	20.8 DA 0	36-06-25 119-01-45	337.6	226.30 129.70	24.1/96.6 CLEAR
K21DO LIC	PALM SPRINGS/INDIO CA	BLTTL -19941013	21(-)	9.2 DA 0	33-52-12 116-25-44	104.3	156.30 59.70	24.1/96.6 CLEAR
ALLOC.	TIJUANA BN	-	21(-) II	.000 0	32-31-50 117-01-46	152.7	211.43 116.43	24.0/95.0 CLEAR
K27FQ CP MOD	TULARE CA	BMP TTL-19980601	27(+)	1.7 DA 0	36-17-12 118-50-20	343.2	239.12 142.52	24.1/96.6 CLEAR
KCET LIC	LOS ANGELES CA	BLET -19820607	*28(o) II	2450 927	34-13-26 118-03-44	128.9	0.50 23.60	24.1/96.6 CLEAR
	TIJUANA BN	-	28 II	.000 0	32-30-08 117-02-21	153.3	213.83 118.83	24.0/95.0 CLEAR
KVMD CP MOD	TWENTYNINE PALMS CA	BMPCT -19950922	31(o) II	12 90	34-09-15 116-11-50	92.2	172.50 75.90	24.1/96.6 CLEAR
DEL	TWENTYNINE PALMS CA	-	31(o) II	.000 0	34-09-15 116-11-50	92.2	172.50 75.90	24.1/96.6 CLEAR
LMRS	LOS ANGELES CA	-	32(o)	.000 0	34-03-15 118-14-28	220.0	25.03 0.00	0.0 LMRS
ALLOC.	SANTA BARBARA CA	-	32(o) II	.000 0	34-25-18 119-41-55	278.7	151.78 55.18	24.1/96.6 CLEAR
DEL	SANTA BARBARA CA	-	32(o) II	.000 0	34-25-18 119-41-55	278.7	151.78 55.18	24.1/96.6 CLEAR
KMEX-T CP	LOS ANGELES CA	BPCT -19991213	34(o) II	2239 972	34-13-36 118-03-59	0.0	0.00 12.00	12.0/106.0 CLOSE

DTV - TV Separation Study

Job Title :KMEX-DT
Zone : 2
Channel 35 (596-602 MHz)

Separation Buffer 161 km
FCC TV DB Date : 05/21/01
Coordinates : 34-13-36 118-03-59

Call Status	City St	FCC File No.	Channel Zone	ERP(kW) HAAT(m)	Latitude Longitude	Bear. True	Dist. (km)	Req. (km)
ALLOC.	SANTA MARIA CA	-	42(+) II	.000 0	34-57-00 120-26-00	291.0	231.52 134.92	24.1/96.6 CLEAR
ADD	TECATE BN	-	49(o) II	.000 0	32-34-30 116-37-30	143.5	227.03 132.03	24.0/95.0 CLEAR
KNXT LIC	VISALIA CA BLET	-19861211	*49(o) II	2140 835	36-17-14 118-50-17	343.2	239.16 142.56	24.1/96.6 CLEAR
ALLOC.	MEXICALI BN	-	49(o) II	.000 0	32-31-00 116-28-00	141.6	241.11 146.11	24.0/95.0 CLEAR
KOCE-T LIC	HUNTINGTON BEACH CA BLET	-19910927	*50(-) II	5000 330	33-58-19 117-56-57	159.1	30.26 -6.16	24.1/96.6 SHORT

DTV - DTV Separation Study

Job Title :KMEX-DT

Separation Buffer 161 km

Zone : 2

Channel 35 (596-602 MHz)

Coordinates : 34-13-36 118-03-59

Call Status	City St	FCC File No.	Channel Zone	ERP(kW) HAAT(m)	Latitude Longitude	Bear. True	Dist. (km)	Req. (km)
KMEX-D CP	LOS ANGELES CA	BPCDT -19991028	35 II	400 972	DA 34-13-36 118-03-59	0.0	0.00	
DKMEXTV DTVALT	LOS ANGELES CA		35 II	73.5 896	34-13-35 118-03-56	112.1	0.08	
KNBC-D LIC	LOS ANGELES CA	BLCDDT -19981123	36 II	380 991	34-13-32 118-03-52	124.7	0.22 23.78	24.0/110.0 CLEAR
DKNBC DTVALT	LOS ANGELES CA		36 II	711.4 984	34-13-32 118-03-52	124.7	0.22 23.78	24.0/110.0 CLEAR

** End of DTV Separation Study for Channel 35 **