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ENGINEERING EXHIBIT  
APPLICATION FOR CONSTRUCTION PERMIT  
HEARST-ARGYLE STATIONS, INC.  
STATION KSBW-DT, SALINAS, CALIFORNIA  
CHANNEL 8 19.2 KW (MAX-DA) 736 METERS

INTRODUCTION

Hearst-Argyle Stations, Inc. (hereafter, Hearst-Argyle) is the licensee of Salinas, California, analog television Station KSBW, Channel 8, and digital television Station KSBW-DT, Channel 10. In Appendix B of the Seventh Report and Order and Eighth Further Notice of Proposed Rule Making in MB Docket No. 87-268, the FCC allotted Channel 8 for KSBW-DT operation with maximum effective radiated power (ERP) of 19.2 kW and antenna radiation center height of 736 meters above average terrain.

Hearst-Argyle, herein, seeks a construction permit to operate Station KSBW-DT on Channel 8 in accordance with the allotted facilities.

The instant Engineering Exhibit demonstrates that the proposed KSBW-DT operation conforms with the criteria established by the FCC for expedited processing consideration. In effect, the proposed operation for KSBW-DT is a checklist type application. As a checklist type application, allocation studies are not required, and are not submitted. In referring to DTV service contours, the F(50,90) statistical nomenclature suffix will be omitted-it being understood that service contour values, unless otherwise specified, are for the F(50,90) statistical parameters.

EXPEDITED ACTION CRITERIA CONFORMANCE

In paragraph 140 of the Report and Order in MB Docket No. 07-91, the FCC set forth three requirements for expedited application processing consideration. Compliance with the three requirements is achieved by the instant proposal

The first requirement is that the proposal does not seek expansion of the DTV Table Appendix B allotment facilities. Figure 1 is a map that shows, by means of a

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dashed red line, the noise-limited, 36 dBu, contour for the KSBW-DT, Appendix B allotment. The map, also, shows by means of a blue dashed line, the noise-limited, 36 dBu, contour for the proposed KSBW-DT, Channel 8, directional, facility. Since the facilities for the proposed operation for KSBW-DT are identical to the Appendix B allotment facilities, the two contours are co-extensive.

Figure 3 is a tabulation of the underlying supporting data for the calculations of the distances to the 36 dBu contours for both the Appendix B and the proposed operations. The proposed operation will not extend coverage for KSBW-DT beyond the coverage contemplated by the Appendix B allotment. Figure 2 is a summary tabulation of populations and areas for the contours shown on Figure 1.

The second requirement is that the facilities sought are no more than 5 % smaller, with respect to population, than the facilities that were allotted in Appendix B. Since the same facilities as set forth in the Appendix B allotment are specified herein, the population to be served is 100 % of the allotment population of 2,561,000 persons. The second condition is satisfied.

The final requirement is that the application be submitted for filing within 45 days after the effective date of the Report and Order. This objective is understood will be satisfied.

#### PROPOSED OPERATION DETAILS

The proposed operation for KSBW-DT would employ the same antenna as is used currently for digital Station KSBW-DT on Channel 10. The antenna is a Dielectric, type THA-SP4-4H/16H-1-R, with no electrical beam tilt. The antenna maximum power gain on Channel 8 is 8.8 relative to a dipole. Figure 4 is the Channel 8 azimuth relative field

radiation pattern for the antenna. Figure 5 is a tabulation of relative field data, in  $1^\circ$  intervals, for the pattern of Figure 4. The  $10^\circ$  increment relative field radiation values in Figure 5 are the same as set forth for the KSBW-DT, Appendix B, Channel 8, allotment antenna with pattern ID 70343.

Figure 6 is the elevation pattern for the antenna, and Figure 7 is the tabulation of relative field data for the pattern of Figure 6.

The antenna supporting tower bears ASRN 1215158. The tower's NAD 1927 geographic coordinates are:  $36^\circ 45' 23''$  North Latitude;  $121^\circ 30' 05''$  West Longitude. The antenna radiation center is 96 meters above ground level, and 1034 meters above mean sea level. The bottom of the antenna is 93 meters above ground level.

Figure 8 is a map that depicts the 43 dBu and 36 dBu service contours for the proposed KSBW-DT operation. The map demonstrates that the proposed operation will produce a 43 dBu contour that encompasses all of Salinas, as required by the Rules.

#### ENVIRONMENTAL IMPACT CONSIDERATIONS

Environmental impact concerns have been considered if the instant proposal is implemented. Since the site that is to be employed, is already used for broadcasting purposes, only the environmental impact concern relating to radiofrequency radiation (rfr) exposure of humans is germane from among the list of environmentally sensitive conditions listed in Section 1.1306 of the FCC Rules.

The KSBW-DT tower currently supports the antennas for analog Station KSBW, Channel 8, and Station KSBW-DT, Channel 10. The Channel 10 antenna is the one that is

now specified for KSBW-DT, Channel 8, operation. Implementation of the instant proposal must await cessation of KSBW analog, Channel 8, operation.

Since the analog operation for KSBW, Channel 8, will cease before the implementation of the digital operation for KSBW-DT, Channel 8, the impact of the analog operation of KSBW is ignored in the rfr exposure analysis that is presented.

Consideration of prospective exposure levels to the general public at uncontrolled locations is discussed first. This is then followed by a discussion related to worker exposure at controlled locations.

The elevation pattern of Figure 6 for the proposed KSBW-DT antenna shows that the relative field throughout the depression angle range from  $11.5^{\circ}$  to  $90^{\circ}$  below the horizontal plane, does not exceed 0.24. In the interest of using conservative criteria for determining the rfr exposure levels from the post-transition KSBW-DT, Channel 8, antenna, a target for uncontrolled location calculations has been chosen to be a point at the tower base. The height above ground level is 2 meters, corresponding, approximately, to the height of a person's head. The use of a person's head as the touchstone for evaluating if overexposure occurs, rather than by evaluating for average whole body exposure, as set forth in the FCC's adopted standard, simplifies the calculation and adds an additional safety factor, as well. Also, additional safety factors are built-in by assuming that the all the radiation emanates from the bottom of the antenna, and that the maximum relative field radiation within the recited depression angle range prevails throughout the depression angle range.

A ray from the KSBW-DT, Channel 8, antenna at a depression angle of  $11.5^{\circ}$  would impinge at a target 2 meters above the earth's surface at a distance of 447 meters

from the tower base. Within this 447-meter range, the greatest level of equivalent plane wave power density that could occur would be at the 2-meter above ground level target at the tower base.

A test calculation, using OET Bulletin 65, Edition 97-01, procedures, has been performed. The target was from the antenna bottom to a point 2 meters above ground level at the tower base and included a 1.6 ground reflection coefficient. The resultant equivalent plane wave power density was  $0.0045 \text{ mW/cm}^2$ , corresponding to 2.2 % of the maximum permissible exposure (MPE) of  $0.2 \text{ mW/cm}^2$  for Channel 8 (180-186 MHz.). The 2.2 % of the MPE contribution from the proposed KSBW-DT operation is less than the 5 % trigger value for cooperative involvement in remedial actions in the event of an overexposure condition at an uncontrolled location. The calculation that was made assumed that the earth is flat.

Another calculation to a target that is located 2 meters above ground level at a distance of 447 meters from the tower base was performed. This time the maximum radiation of 19.2 kW from the antenna was used. The equivalent plane wave power density turned out to be  $0.0032 \text{ mW/cm}^2$ , corresponding to 1.6 % of the MPE. Thus, the exposure levels from the proposed facility at uncontrolled locations, based on these conservative calculations, will not exceed 2.2 % of the MPE.

As to worker, or controlled location exposure concerns, the KSBW-DT tower is within a fenced enclosure, and the gate entranceway is kept locked at all times. Access within the fence is available only to authorized personnel. A radiation hazard warning sign is posted on the fence... The fenced area qualifies as a controlled location work area.

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Procedures that are now in place regarding power reduction or termination of excitation to an antenna, according to the work effort location that is involved in order to avoid worker overexposure to rfr, will continue to be observed. In this manner, avoidance of overexposure of workers to rfr will continue to be achieved.

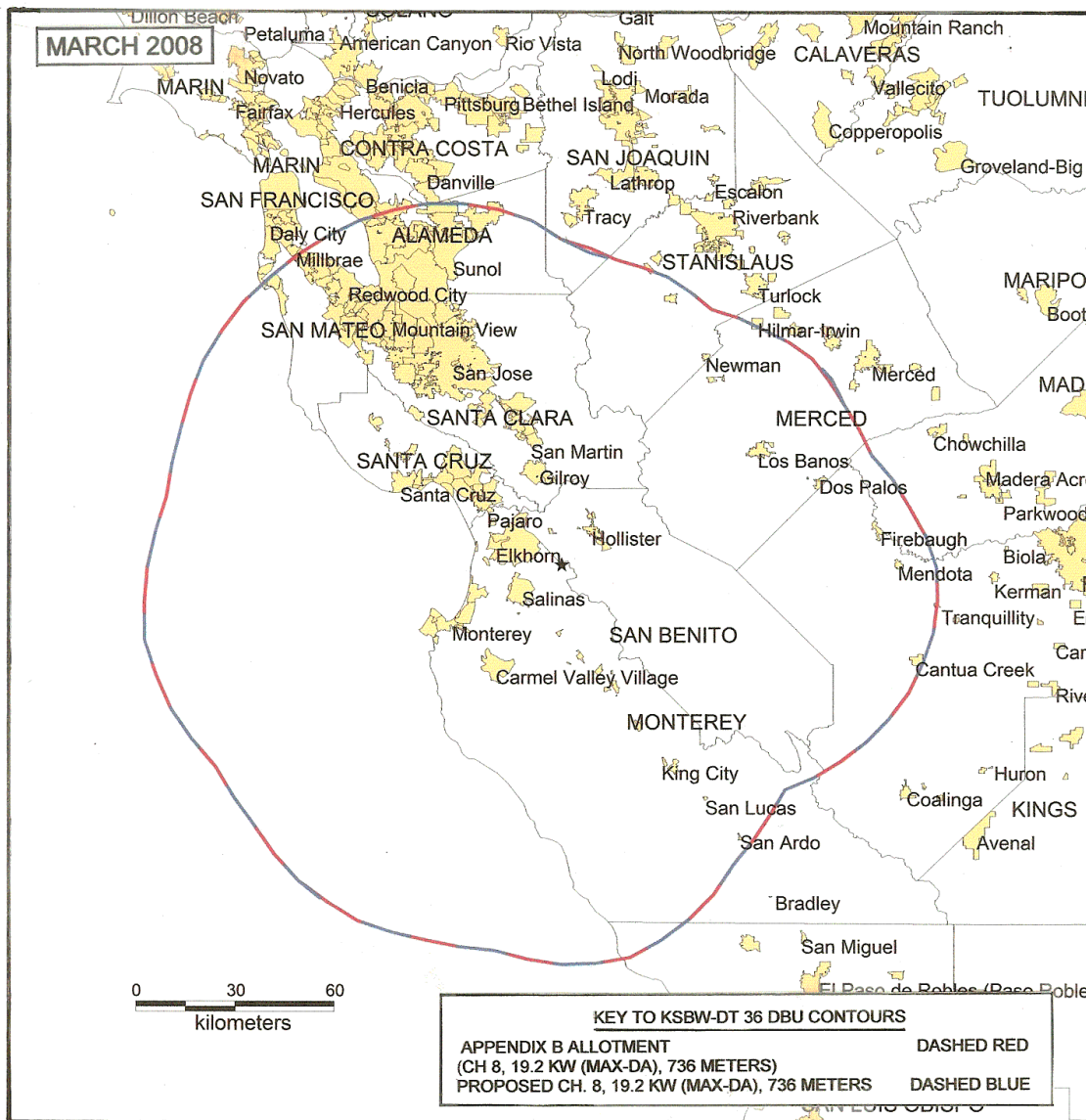
The proposal does not require the preparation of an "Environmental Assessment".

I declare under penalty of perjury that the foregoing is true and correct. Executed on March 11, 2008.

*Bernard R. Segal, P.E.*

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Maryland Registration No. 25811

FIGURE 1



# **ALLOTTED AND PROPOSED 36 DBU CONTOURS**

HEARST-ARGYLE STATIONS, INC.  
STATION KSBW-DT, SALINAS, CALIFORNIA  
CHANNEL 8 19.2 KW (MAX-DA) 736 METERS

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FIGURE 2

POPULATION AND AREA SUMMARIES  
APPENDIX B ALLOTMENT AND PROPOSED CONTOURS  
STATION KSBW-DT, SALINAS, CALIFORNIA

	KSBW-DT APPENDIX B 36 DBU		KSBW-DT PROPOSED 36 DBU	
	Pop.	Area (km <sup>2</sup> )	Pop.	Area (km <sup>2</sup> )
Within noise-limited contour	3,649,746	39,000	3,649,801	39,004
Unaffected by terrain	3,007,140	29,463	3,007,295	29,475
NTSC IX	0	0	0	0
Additional DTV IX	446,080	1,058	446,080	1,058
Net service	2,561,060	28,405	2,561,215	28,417
Rounding Per FCC	2,561,000	28,405	2,561,000	28,417
FCC Result	2,561,000	28,847		

NOTES: Population enumerations are based on the 2000 Census.  
Areas include water.



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FIGURE 3

TABULATION OF TERRAIN ELEVATIONS  
AND DISTANCES TO THE 36 DBU CONTOUR  
HEARST-ARGYLE STATIONS, INC.  
STATION KSBW-DT, SALINAS, CALIFORNIA

AZIMUTH (Deg. True)	KSBW-DT APPENDIX B ALLOTMENT			PROPOSED KSBW-DT		
	ERP (kW)	HAAT (meters)	36 DBU (km)	ERP (kW)	HAAT (meters)	36 DBU (km)
0	0.76	848	96.9	0.76	848	96.9
10	0.44	873	93.0	0.44	873	93.0
20	0.39	858	91.8	0.39	858	91.8
30	0.27	848	88.8	0.27	848	88.8
40	0.46	819	92.3	0.46	819	92.3
50	0.84	786	96.3	0.84	786	96.3
60	0.92	764	96.5	0.92	764	96.5
70	1.16	750	98.1	1.16	750	98.1
80	2.92	714	105.2	2.92	714	105.2
90	7.22	658	111.5	7.22	658	111.5
100	11.8	578	112.6	11.8	578	112.6
110	14.8	523	111.6	14.8	523	111.6
120	15.6	402	103.4	15.6	402	103.4
130	13.9	322	96.5	13.9	322	96.5
140	10.9	307	93.5	10.9	307	93.5
150	9.84	404	99.7	9.84	404	99.7
160	14.3	503	110.2	14.3	503	110.2
170	17.3	625	118.4	17.3	625	118.4
180	13.2	722	119.3	13.2	722	119.3
190	9.44	800	117.7	9.44	800	117.7
200	11.1	858	120.4	11.1	858	120.4
210	14.5	881	123.6	14.5	881	123.6
220	13.8	886	123.1	13.8	886	123.1
230	10.3	907	120.5	10.3	907	120.5
240	9.71	909	120.0	9.71	909	120.0
250	15.6	899	124.6	15.6	899	124.6
260	19.2	893	126.7	19.2	893	126.7
270	14.5	879	123.5	14.5	879	123.5
280	9.95	876	119.6	9.95	876	119.6
290	11.3	857	120.6	11.3	857	120.6
300	14.5	827	122.7	14.5	827	122.7
310	15.1	818	123.0	15.1	818	123.0
320	13.1	775	120.6	13.1	775	120.6
330	10.4	786	118.4	10.4	786	118.4
340	6.57	850	115.1	6.57	850	115.1
350	2.82	862	108.0	2.82	862	108.0

Note: Terrain elevation data from the FCC's terrain database.

# Dielectric

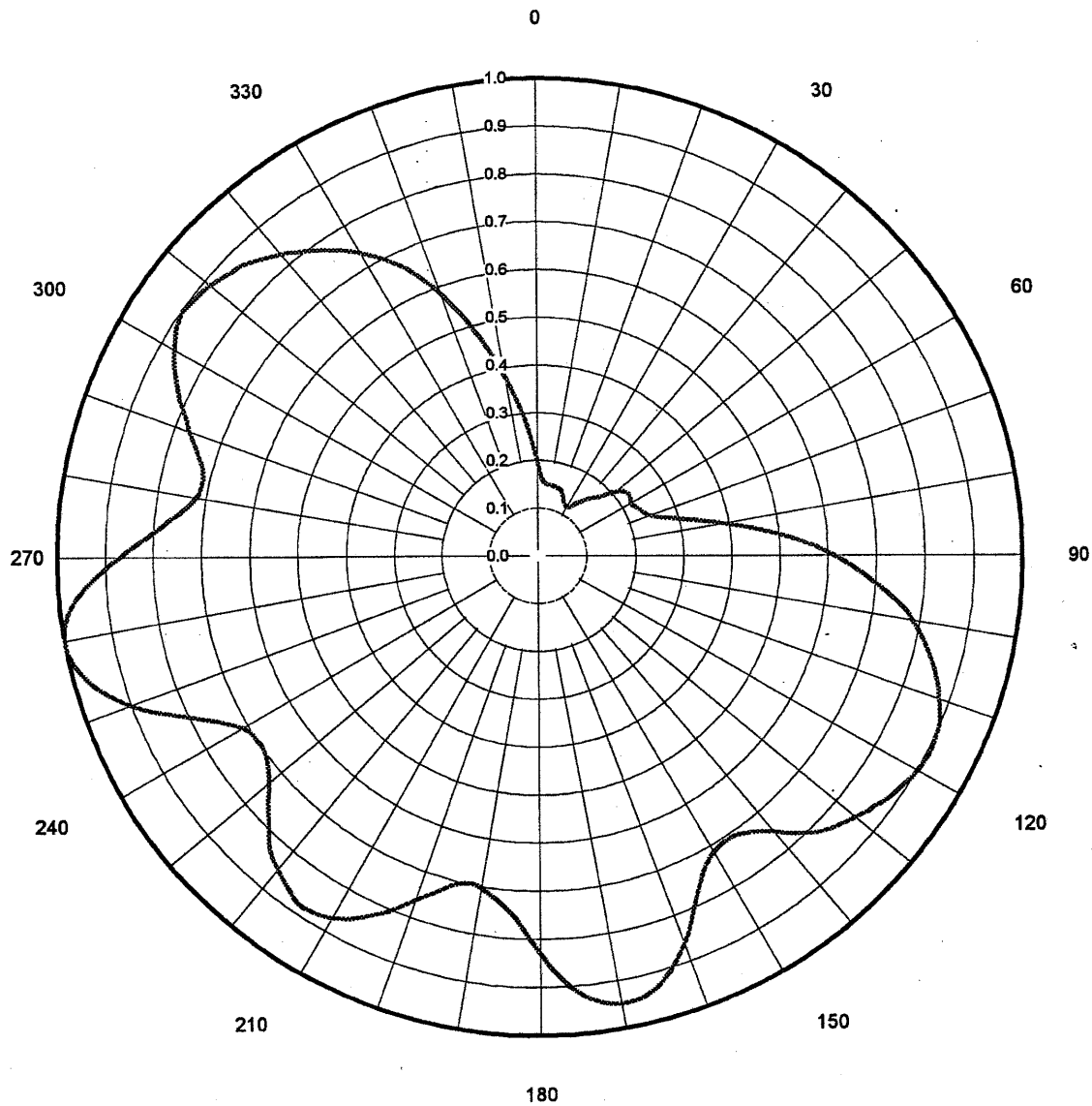
Proposal Number	<b>DCA-9479</b>	Revision:	<b>2</b>
Date	<b>29-Jul-02</b>		
Call Letters	<b>KSBW</b>	Channel	<b>8</b>
Location	<b>Salinas, CA</b>		
Customer	<b>KSBW-TV</b>		
Antenna Type	<b>THA-SP4-4H/16H-1-R</b>		

FIGURE 4

## AZIMUTH PATTERN

Gain	<b>2.04</b>	<b>( 3.09 dB)</b>
Calculated / Measured		<b>Calculated</b>

Frequency	<b>183.00 MHz</b>
Drawing #	<b>THA-SP4-183</b>





Proposal Number **DCA-9479** Revision: **2**  
 Date **29-Jul-02**  
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 Antenna Type **THA-SP4-4H/16H-1-R**

**FIGURE 5**

**TABULATION OF AZIMUTH PATTERN**

Azimuth Pattern Drawing #: **THA-SP4-183**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
0	0.199	45	0.175	90	0.613	135	0.816	180	0.829	225	0.798	270	0.870	315	0.864
1	0.185	46	0.181	91	0.633	136	0.805	181	0.809	226	0.784	271	0.850	316	0.857
2	0.171	47	0.188	92	0.652	137	0.792	182	0.789	227	0.771	272	0.830	317	0.850
3	0.165	48	0.196	93	0.670	138	0.780	183	0.772	228	0.759	273	0.812	318	0.842
4	0.159	49	0.203	94	0.688	139	0.766	184	0.756	229	0.746	274	0.794	319	0.835
5	0.155	50	0.209	95	0.706	140	0.752	185	0.742	230	0.734	275	0.779	320	0.827
6	0.152	51	0.215	96	0.724	141	0.740	186	0.731	231	0.723	276	0.764	321	0.819
7	0.151	52	0.220	97	0.742	142	0.730	187	0.723	232	0.715	277	0.750	322	0.811
8	0.151	53	0.223	98	0.760	143	0.722	188	0.716	233	0.708	278	0.737	323	0.802
9	0.151	54	0.225	99	0.773	144	0.716	189	0.708	234	0.703	279	0.727	324	0.793
10	0.151	55	0.226	100	0.785	145	0.711	190	0.701	235	0.700	280	0.720	325	0.784
11	0.151	56	0.227	101	0.797	146	0.708	191	0.698	236	0.699	281	0.715	326	0.775
12	0.151	57	0.226	102	0.808	147	0.707	192	0.697	237	0.699	282	0.713	327	0.765
13	0.150	58	0.225	103	0.819	148	0.708	193	0.698	238	0.700	283	0.714	328	0.756
14	0.149	59	0.222	104	0.829	149	0.711	194	0.703	239	0.704	284	0.716	329	0.746
15	0.149	60	0.219	105	0.839	150	0.716	195	0.710	240	0.711	285	0.721	330	0.735
16	0.149	61	0.220	106	0.850	151	0.722	196	0.719	241	0.722	286	0.728	331	0.723
17	0.148	62	0.223	107	0.858	152	0.730	197	0.730	242	0.736	287	0.737	332	0.711
18	0.147	63	0.226	108	0.866	153	0.740	198	0.740	243	0.752	288	0.747	333	0.699
19	0.145	64	0.228	109	0.873	154	0.754	199	0.750	244	0.770	289	0.757	334	0.686
20	0.143	65	0.230	110	0.879	155	0.769	200	0.761	245	0.790	290	0.768	335	0.673
21	0.140	66	0.232	111	0.886	156	0.787	201	0.774	246	0.812	291	0.778	336	0.659
22	0.137	67	0.234	112	0.892	157	0.805	202	0.787	247	0.835	292	0.788	337	0.641
23	0.134	68	0.236	113	0.898	158	0.825	203	0.800	248	0.858	293	0.799	338	0.623
24	0.131	69	0.240	114	0.901	159	0.845	204	0.812	249	0.881	294	0.811	339	0.604
25	0.127	70	0.246	115	0.903	160	0.862	205	0.822	250	0.901	295	0.821	340	0.585
26	0.124	71	0.254	116	0.904	161	0.878	206	0.833	251	0.919	296	0.832	341	0.566
27	0.122	72	0.262	117	0.906	162	0.893	207	0.844	252	0.936	297	0.843	342	0.546
28	0.120	73	0.273	118	0.905	163	0.906	208	0.853	253	0.951	298	0.853	343	0.527
29	0.119	74	0.285	119	0.903	164	0.919	209	0.861	254	0.964	299	0.861	344	0.507
30	0.118	75	0.299	120	0.902	165	0.929	210	0.868	255	0.975	300	0.869	345	0.486
31	0.118	76	0.315	121	0.899	166	0.937	211	0.874	256	0.984	301	0.876	346	0.466
32	0.120	77	0.331	122	0.895	167	0.943	212	0.877	257	0.992	302	0.884	347	0.445
33	0.124	78	0.349	123	0.890	168	0.947	213	0.880	258	0.997	303	0.891	348	0.424
34	0.127	79	0.369	124	0.886	169	0.948	214	0.881	259	1.000	304	0.893	349	0.404
35	0.132	80	0.390	125	0.882	170	0.948	215	0.880	260	1.000	305	0.897	350	0.383
36	0.136	81	0.412	126	0.877	171	0.946	216	0.875	261	0.998	306	0.895	351	0.363
37	0.140	82	0.435	127	0.869	172	0.942	217	0.867	262	0.993	307	0.893	352	0.343
38	0.145	83	0.458	128	0.865	173	0.935	218	0.862	263	0.985	308	0.891	353	0.324
39	0.150	84	0.481	129	0.858	174	0.926	219	0.855	264	0.976	309	0.889	354	0.304
40	0.155	85	0.505	130	0.851	175	0.915	220	0.848	265	0.963	310	0.886	355	0.284
41	0.159	86	0.528	131	0.845	176	0.902	221	0.842	266	0.948	311	0.881	356	0.266
42	0.163	87	0.552	132	0.839	177	0.887	222	0.835	267	0.930	312	0.877	357	0.248
43	0.167	88	0.574	133	0.832	178	0.869	223	0.825	268	0.910	313	0.872	358	0.231
44	0.171	89	0.594	134	0.824	179	0.849	224	0.811	269	0.891	314	0.868	359	0.214



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Location	Salinas, CA		
Customer	KSBW-TV		
Antenna Type	THA-SP4-4H/16H-1-R		

FIGURE 6

### ELEVATION PATTERN

RMS Gain at Main Lobe	4.30	( 6.33 dB )	Beam Tilt	0.00 deg
RMS Gain at Horizontal	4.30	( 6.33 dB )	Frequency	183.00 MHz
Calculated / Measured	Calculated		Drawing #	04H043000-90

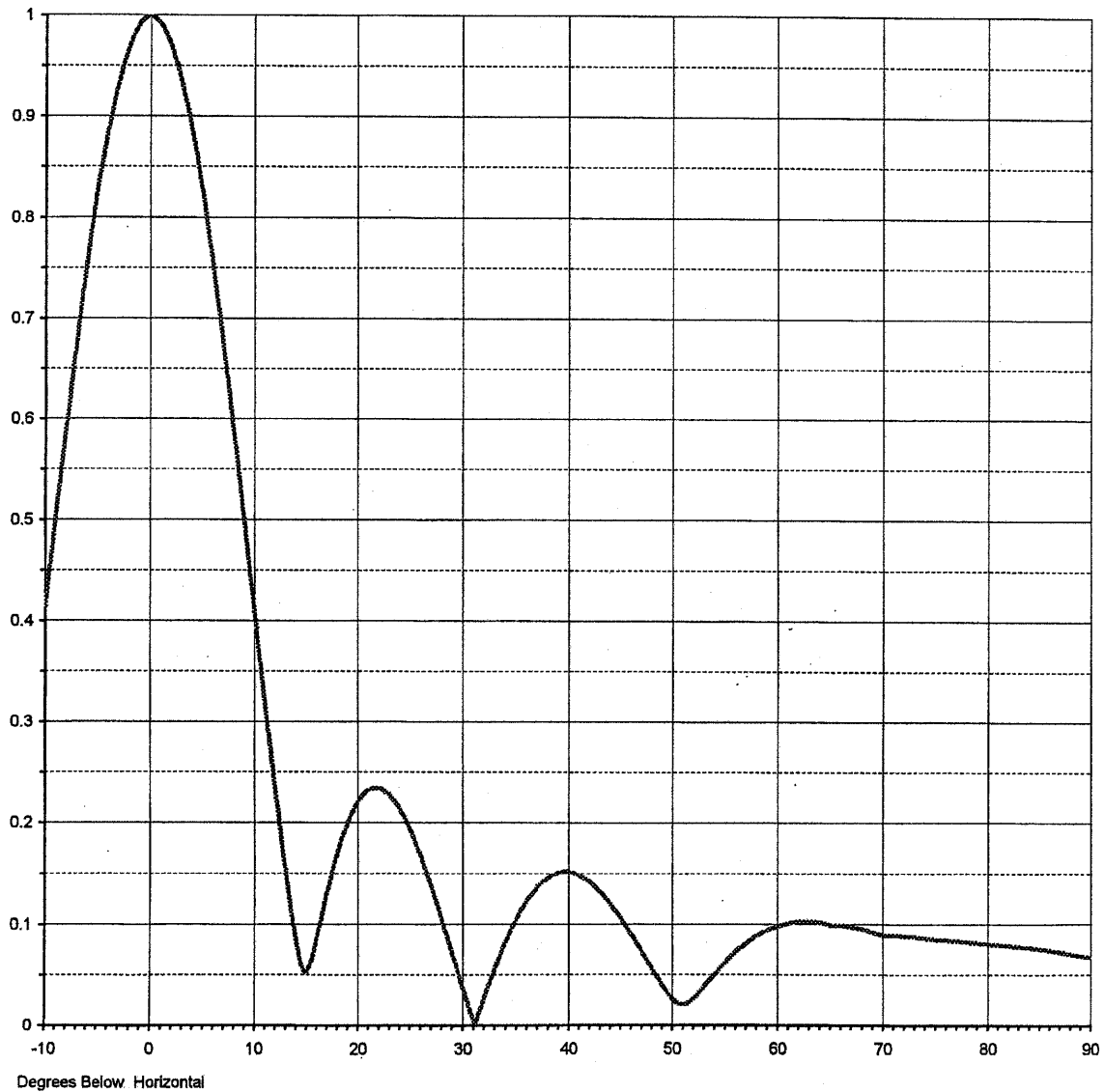




FIGURE 7

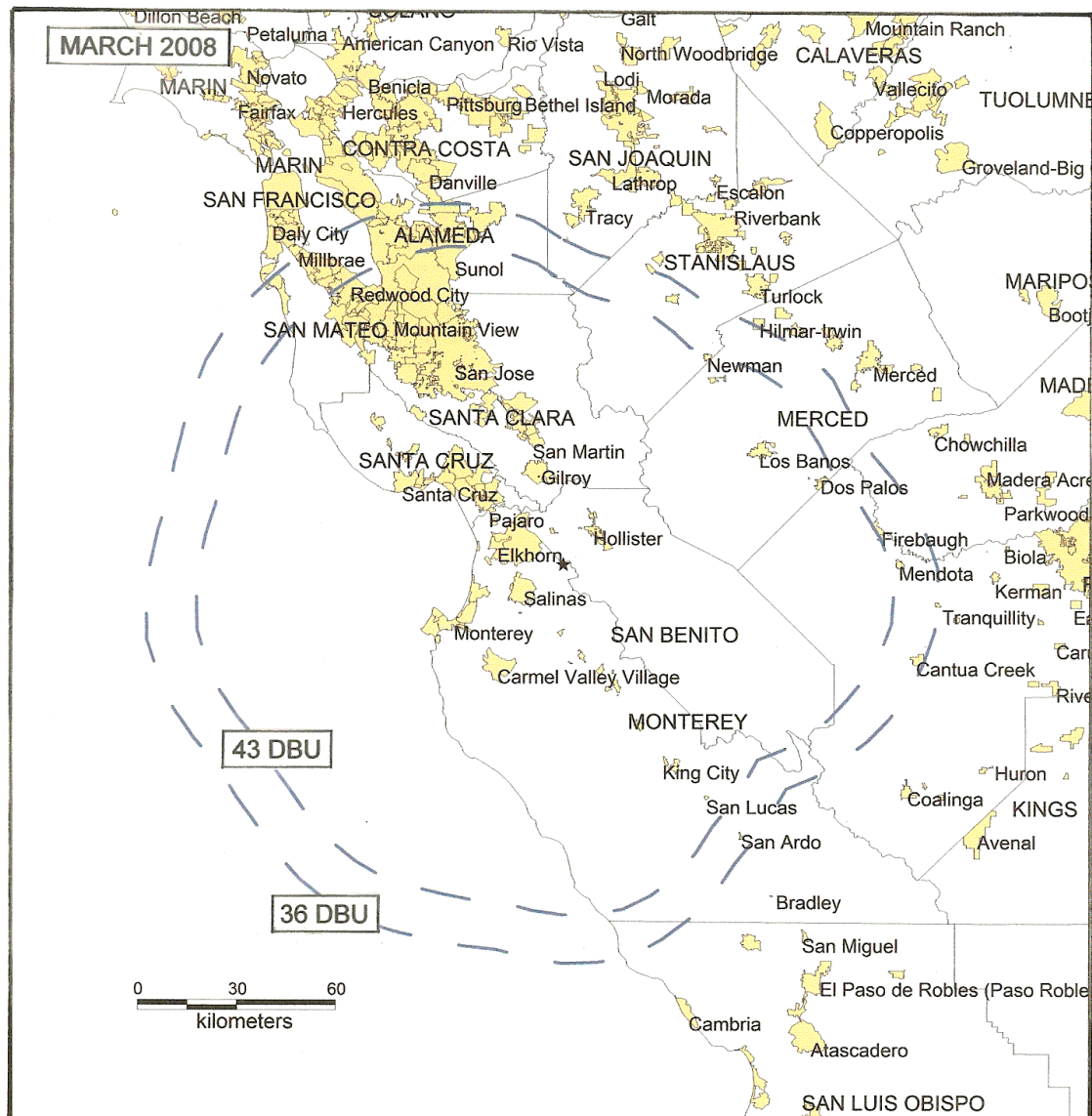
Proposal Number **DCA-9479**      Revision: **2**  
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 Call Letters **KSBW**      Channel **8**  
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 Customer **KSBW-TV**  
 Antenna Type **THA-SP4-4H/16H-1-R**

### TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **04H043000-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.413	2.4	0.956	10.6	0.367	30.5	0.024	51.0	0.021	71.5	0.089
-9.5	0.458	2.6	0.949	10.8	0.349	31.0	0.007	51.5	0.022	72.0	0.088
-9.0	0.502	2.8	0.941	11.0	0.331	31.5	0.009	52.0	0.026	72.5	0.088
-8.5	0.547	3.0	0.933	11.5	0.287	32.0	0.025	52.5	0.031	73.0	0.088
-8.0	0.591	3.2	0.924	12.0	0.244	32.5	0.040	53.0	0.037	73.5	0.087
-7.5	0.634	3.4	0.915	12.5	0.202	33.0	0.054	53.5	0.044	74.0	0.087
-7.0	0.675	3.6	0.906	13.0	0.163	33.5	0.068	54.0	0.050	74.5	0.086
-6.5	0.716	3.8	0.896	13.5	0.125	34.0	0.081	54.5	0.056	75.0	0.085
-6.0	0.754	4.0	0.885	14.0	0.092	34.5	0.092	55.0	0.061	75.5	0.085
-5.5	0.791	4.2	0.874	14.5	0.065	35.0	0.103	55.5	0.067	76.0	0.085
-5.0	0.826	4.4	0.863	15.0	0.053	35.5	0.113	56.0	0.072	76.5	0.084
-4.5	0.857	4.6	0.851	15.5	0.061	36.0	0.121	56.5	0.077	77.0	0.084
-4.0	0.885	4.8	0.838	16.0	0.080	36.5	0.129	57.0	0.081	77.5	0.083
-3.5	0.910	5.0	0.826	16.5	0.103	37.0	0.135	57.5	0.085	78.0	0.083
-3.0	0.933	5.2	0.812	17.0	0.125	37.5	0.141	58.0	0.088	78.5	0.082
-2.8	0.941	5.4	0.798	17.5	0.146	38.0	0.145	58.5	0.091	79.0	0.082
-2.6	0.949	5.6	0.784	18.0	0.166	38.5	0.148	59.0	0.094	79.5	0.081
-2.4	0.956	5.8	0.769	18.5	0.183	39.0	0.150	59.5	0.096	80.0	0.080
-2.2	0.963	6.0	0.754	19.0	0.197	39.5	0.151	60.0	0.098	80.5	0.080
-2.0	0.969	6.2	0.739	19.5	0.210	40.0	0.152	60.5	0.099	81.0	0.080
-1.8	0.974	6.4	0.723	20.0	0.219	40.5	0.151	61.0	0.101	81.5	0.079
-1.6	0.979	6.6	0.708	20.5	0.227	41.0	0.149	61.5	0.102	82.0	0.079
-1.4	0.984	6.8	0.692	21.0	0.231	41.5	0.146	62.0	0.103	82.5	0.078
-1.2	0.988	7.0	0.675	21.5	0.234	42.0	0.143	62.5	0.103	83.0	0.078
-1.0	0.991	7.2	0.659	22.0	0.234	42.5	0.138	63.0	0.103	83.5	0.077
-0.8	0.994	7.4	0.642	22.5	0.233	43.0	0.133	63.5	0.103	84.0	0.077
-0.6	0.996	7.6	0.625	23.0	0.229	43.5	0.127	64.0	0.102	84.5	0.076
-0.4	0.998	7.8	0.608	23.5	0.223	44.0	0.121	64.5	0.101	85.0	0.076
-0.2	0.999	8.0	0.591	24.0	0.216	44.5	0.114	65.0	0.099	85.5	0.075
0.0	1.000	8.2	0.573	24.5	0.206	45.0	0.107	65.5	0.099	86.0	0.074
0.2	0.999	8.4	0.556	25.0	0.196	45.5	0.099	66.0	0.099	86.5	0.073
0.4	0.998	8.6	0.538	25.5	0.184	46.0	0.091	66.5	0.098	87.0	0.072
0.6	0.996	8.8	0.520	26.0	0.170	46.5	0.083	67.0	0.098	87.5	0.071
0.8	0.994	9.0	0.502	26.5	0.156	47.0	0.075	67.5	0.097	88.0	0.071
1.0	0.991	9.2	0.484	27.0	0.141	47.5	0.066	68.0	0.095	88.5	0.070
1.2	0.988	9.4	0.467	27.5	0.125	48.0	0.058	68.5	0.094	89.0	0.069
1.4	0.984	9.6	0.449	28.0	0.109	48.5	0.049	69.0	0.092	89.5	0.068
1.6	0.979	9.8	0.440	28.5	0.092	49.0	0.041	69.5	0.091	90.0	0.067
1.8	0.974	10.0	0.422	29.0	0.075	49.5	0.034	70.0	0.089		
2.0	0.969	10.2	0.403	29.5	0.058	50.0	0.027	70.5	0.089		
2.2	0.963	10.4	0.385	30.0	0.041	50.5	0.023	71.0	0.089		

FIGURE 8



### CALCULATED CONTOURS

HEARST-ARGYLE STATIONS, INC.  
STATION KSBW-DT, SALINAS, CALIFORNIA  
CHANNEL 8 19.2 KW (MAX-DA) 736 METERS

Bernard R. Segal, P. E. Consulting Engineer