

EXHIBIT 10, Broadcast Facility

PART A

Daytime Directional Antenna System Design Data

Statement

This application proposes an increase in the daytime power of KRLH, along with changes in the station's daytime directional antenna radiation pattern. Part A of this Exhibit provides data for the design of the proposed daytime directional antenna system.

The proposed daytime antenna array will utilize the existing KRLH antenna towers, and no new antenna tower construction will be required. Although no changes will be made in the physical height of the existing antenna towers, this application corrects the electrical height of each tower to 65.2 degrees, from the 65.1 electrical degrees specified in the KRLH station license and in engineering material filed with the Commission in the past. In this application the corrected height figure was used for all calculations related to the proposed daytime operation; computations related to the station's existing daytime facilities were based on the height figure specified in the station license. The licensee will shortly file an additional application on FCC Form 301 to provide corrected data for the station's nighttime directional antenna system.

Specifications for the proposed KRLH daytime directional antenna system are contained in Item A of Part A of this Exhibit. Table A of Part A is a tabulation of the values of unattenuated field strength at one kilometer for the proposed daytime standard radiation pattern, and Graph A is a polar plot of the radiation pattern. The calculations for the proposed daytime standard radiation pattern were made in accordance with the equations contained in Sections 73.150 and 73.160 of the Commission's Rules.

Fred W. Volken
Engineering Consultant

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Sierra Madre, California

EXHIBIT 10, PART A (continued)

Daytime Directional Antenna System Design Data

ITEM A

Daytime Directional Antenna System Specifications

1. Number of elements: Three, located in a straight line.
2. Type of each element: Self-supporting series-fed vertical radiator.
3. Top loading or sectionalizing: None.
4. Height of vertical lead of each element above base insulator: 92.0 meters (302 feet) without obstruction lighting (65.2° electrical height).
5. Overall height of each element above ground: 93.6 meters (307 feet) without obstruction lighting; 94.5 meters (310 feet) with obstruction lighting.
6. Ground system: 120 equally spaced #10 gauge copper radials, from approximately 64 meters to 127 meters in length, all buried to depth of approximately 1 meter, plus 7.3-meter by 7.3-meter ground screen, for each tower.
7. Orientation of array axis: Tower are located along a straight line bearing 20.0° True.
8. Ratio of fields from elements:

#1 (South)	1.000
#2 (Center)	1.097
#3 (North)	0.470

9. Time phasing of fields from elements:

#1 (South)	0.0°
#2 (Center)	-138.8°
#3 (North)	+72.2°

10. Space phasing of elements, with respect to Tower #1:

	<u>Orientation</u>	<u>Spacing</u>
#2 (Center)	20.0° T.	90.0°
#3 (North)	20.0° T.	180.0°

EXHIBIT 10, PART A (continued)

Daytime Directional Antenna System Design Data

TABLE A

Tabulation of Unattenuated Field Strength at One Kilometer (in mV/m),
Daytime Horizontal Standard Radiation Pattern

True Azimuth (degrees)	Standard Radiation (mV/m)
0	833.2
5	853.2
10	867.3
15	875.6
20	878.4
25	875.6
30	867.3
35	853.2
40	833.2
45	807.1
50	774.7
55	736.0
60	691.0
65	640.1
70	584.0
75	524.0
80	461.5
85	398.7
90	338.0
95	282.8
100	236.6
105	202.7
110	182.9
115	175.2
120	174.5
125	175.3
130	173.6
135	167.5
140	156.8
145	142.5
150	126.7
155	112.7
160	104.2
165	104.0
170	112.1
175	125.4

True Azimuth (degrees)	Standard Radiation (mV/m)
180	140.3
185	154.1
190	165.1
195	172.0
200	174.4
205	172.0
210	165.1
215	154.1
220	140.3
225	125.4
230	112.1
235	104.0
240	104.2
245	112.7
250	126.7
255	142.5
260	156.8
265	167.5
270	173.6
275	175.3
280	174.5
285	175.2
290	182.9
295	202.7
300	236.6
305	282.8
310	338.0
315	398.7
320	461.5
325	524.0
330	584.0
335	640.1
340	691.0
345	736.0
350	774.7
355	807.1

Frequency: 590 kHz
 Daytime power: 2.0 kW
 Geographical coordinates:
 N 34° 04' 20"
 W 117° 17' 52"

Theoretical RMS - 440.42 mV/m
 Standard RMS - 462.75 mV/m
 RSS - 642.11 mV/m
 Q term - 16.10 mV/m

TOWER PARAMETERS

#	Field Ratio	Phase (degs.)	Spacing (degs.)	Bearing (degs.)	Tower Ref. Switch	Elec. Height (degs.)	Length Twr. A (degs.)	Length Twr. B (degs.)	Length Twr. C (degs.)	Length Twr. D (degs.)
1	1.000	0.0	0.0	0.0	0	65.2	0.0	0.0	0.0	0.0
2	1.097	-138.8	90.0	20.0	0	65.2	0.0	0.0	0.0	0.0
3	0.470	72.2	180.0	20.0	0	65.2	0.0	0.0	0.0	0.0

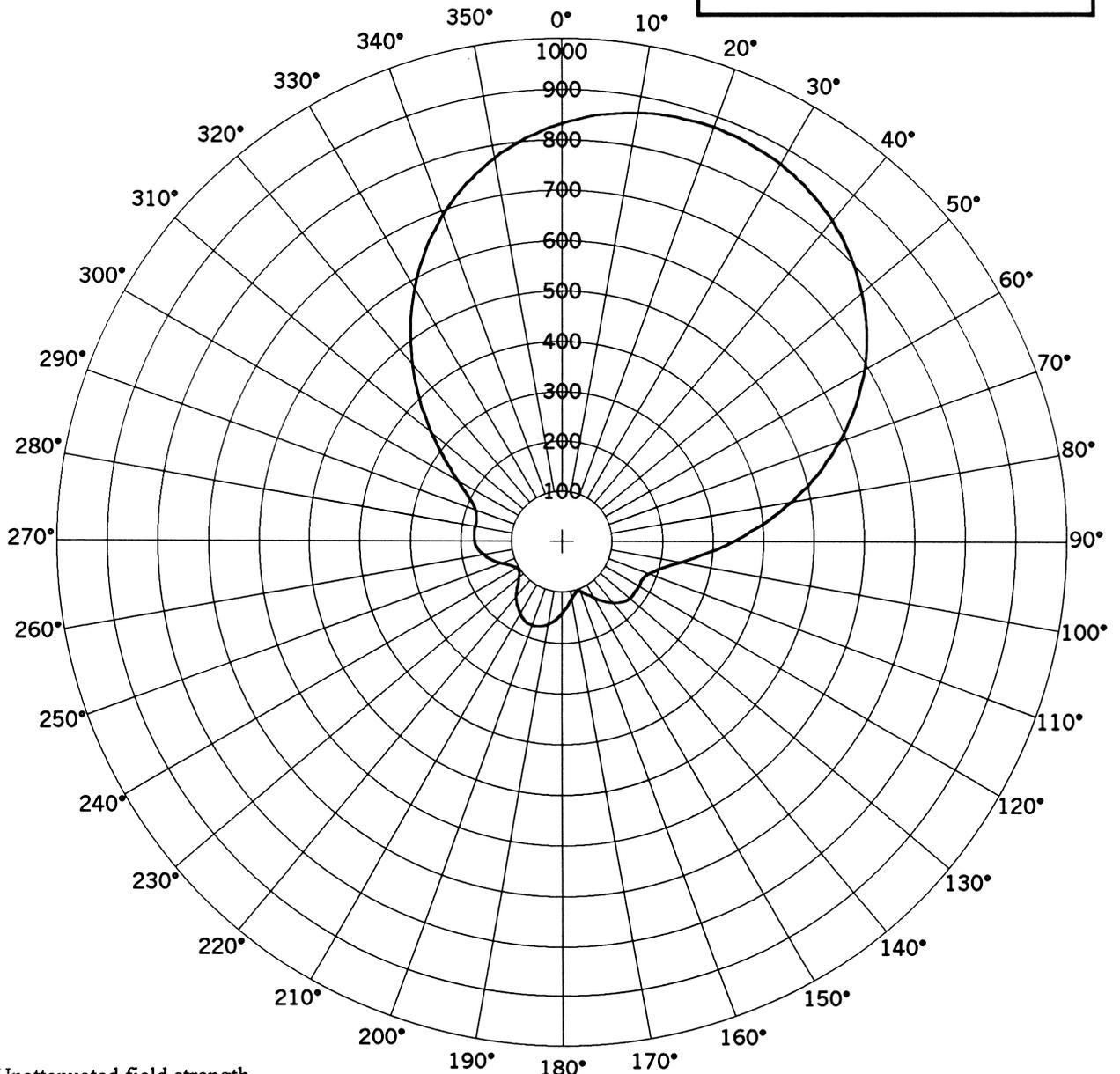
EXHIBIT 10, PART A
 (continued)

Daytime Directional Antenna
 System Design Data

GRAPH A

Daytime Horizontal Standard
 Radiation Pattern
 (Unattenuated Field Strength
 at One Kilometer)

HORIZONTAL PLANE PATTERN



Unattenuated field strength
 at 1 kilometer, in mV/m