

**MODIFICATION OF CONSTRUCTION PERMIT**

**FOR**

**FM BOOSTER KCAQ-FM5**

**- LOCATION CHANGE -**

**TO**

**SANTA MONICA, CA**

**FACILITY NO. 178198**

**FOR**

**GOLD COAST BROADCASTING, LLC**

**June 2009**

**BY:  
BEEM CO.  
ARCADIA, CA  
(626) 446-3468**

## ENGINEERING STATEMENT OF JOEL T. SAXBERG

This modification of construction permit was prepared for Gold Coast Broadcasting, LLC, permittee of FM Booster facility no. 178198 by Joel T. Saxberg of Arcadia, California. Gold Coast proposes to change the location of this booster to a building near Santa Monica, CA. ERP, and antenna elevations will change accordingly. The new location will be referred to as the Sepulveda Plaza Building in Los Angeles near the city of Santa Monica. The antenna will be mounted at the 18' level on a 20' existing tower extending up above the roof parapet.

The proposed antennas are Kathrein-Scala CL-FMRX Vertical Polarization log-periodic models. One will be oriented one at 0° with 50% power and the other will be oriented at 260° with 50% power. The maximum ERP will be 500 watts.

RADIOFREQUENCY ELECTROMAGNETIC FIELDS - It is proposed to mount the two skewed antennas at 5.5 meters above the building roof. Radiofrequency electromagnetic fields at two meters below the skewed array will be less than the general public maximum permissible exposure limit of 0.2 mW/cm<sup>2</sup> and access to the roof top is limited to authorized personnel only.

<b><u>Dist.</u></b>	<b><u>Slant Dist.</u></b>	<b><u>Rel. Field</u></b>	<b><u>Power Density</u></b>
0	3.5	0.01	0.0001
2	4.0	0.085	0.0074
4	5.3	.448	0.1187
6	6.9	.645	0.1440
8	8.7	.752	0.1239
10	10.6	.835	0.1038
12	12.5	.880	0.0828

14	14.4	.906	0.0658
16	16.4	.928	0.0536
18	18.3	.939	0.0438
20	20.3	.950	0.0366
22	22.3	.956	0.0308
24	24.3	.962	0.0263
26	26.2	.962	0.0225
30	30.2	.968	0.0172
35	35.2	.974	0.0128
40	40.2	.980	0.0100

**Distance in meters, Power Density in mW/cm<sup>2</sup>**

UNATTENDED OPERATION - Applicant certifies that unattended operation is proposed and that it will comply with the requirements of 47 C.F.R. §74.1234.

§74.1204 - The proposed booster site meets the I.F. requirements specified in this rule section. In addition, the proposed operation meets the 6 db contour requirement for first adjacent facilities.

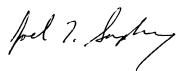
MULTIPLE TRANSLATORS - Applicant certifies that it does not have any interest in an application or an authorization for an FM translator station that serves substantially the same area and rebroadcasts the same signal as the proposed FM translator/booster station.

## ENGINEERING CERTIFICATION

JOEL T. SAXBERG deposes and says:

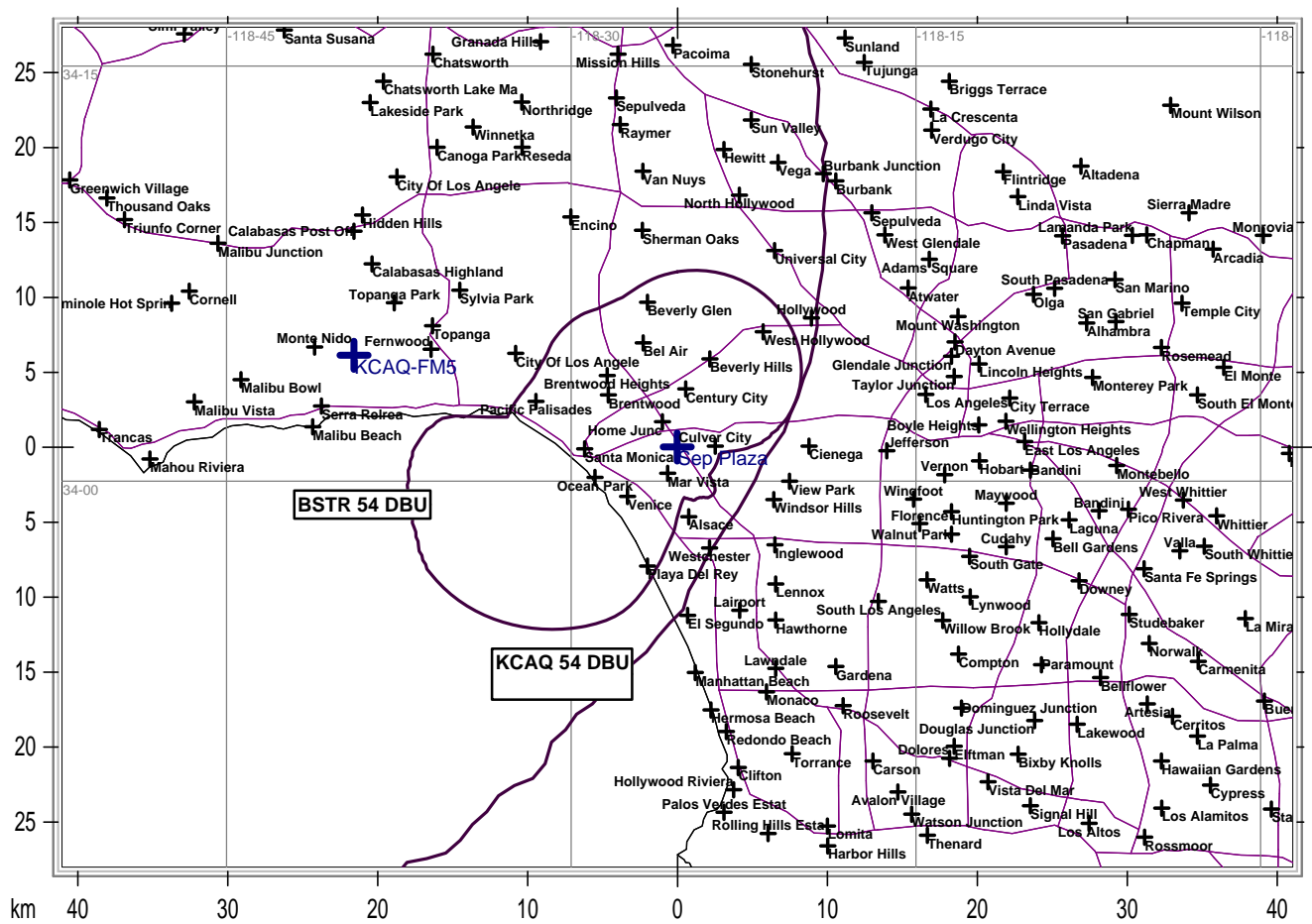
- 1. That he is President of Broadcast Engineering and Equipment Maintenance Company, "BEEM CO.", radio engineering consultants. BEEM CO. maintains offices at: 2322 S. Second Avenue, Arcadia, CA 91006. Telephone (626) 446-3468**
- 2. That he was graduated from California State University at Los Angeles, February 1966, with a Bachelor of Science degree in Electronic Engineering. He received a MS degree in Electronic Engineering Technology in August 1996.**
- 3. That he has submitted many applications to the Federal Communications Commission for broadcast and auxiliary broadcast construction permits and licenses.**
- 4. That his experience in broadcast engineering is a matter of record and he has spent over forty years working in the field of radio engineering.**
- 5. That the attached report was prepared by him or under his direction and supervision. That he believes the facts stated therein to be both true and accurate. Statements that are based on information supplied by others are also believed to be true and accurate.**
- 6. That he has performed field work on AM and FM broadcast transmitting systems throughout this country and continues to provide technical consulting services on a daily basis to broadcasters.**
- 7. That he declares under penalty of perjury the foregoing is true and correct.**

Executed on June 1, 2009



**Joel T. Saxberg**

15°,260° MAIN LOBES 50% PWR IN EACH



KCAQ Primary Station

State Borders
  Highways
  Lat/Lon Grid