

KLEIN BROADCAST ENGINEERING, L.L.C.

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**FCC Form 301 Application
for
FM Broadcast Station Construction Permit
(a minor change application)
FCC File Number: BLH-19890127KA
FCC Facility ID# 7049
AGM-SANTA MARIA, L.P.
K B O X (FM)
FM CHANNEL 281 B1 / 104.1 mHz.
LOMPOC, CALIFORNIA**

APRIL 2005

INTRODUCTION and ENGINEERING STATEMENT

The firm of Klein Broadcast Engineering, L.L.C., has been retained by the applicant, AGM-Santa Maria, L.P., who is also the licensee of FM Broadcast Station KBOX at Lompoc, California. The instant application requests a new FCC FM Broadcast Station Construction Permit for a new main facility. The applicant requests 3.30 kilowatts effective radiated power for KBOX in both the Horizontal and Vertical Planes. This is a maximum class B1 facility at 274 meters HAAT as proposed.

FACILITY SPECIFIED and REQUESTED:

Geographic Coordinate Site Location: NL: 34 – 44 – 30 / WL: 120 – 26 – 45 (NAD-27)

Effective Radiated Power: 3.30kW H & V

**Elevation of Ground Level Above Mean Sea Level: 378 meters AMSL
Height of Radiation Center Above Ground Level: 47 meters AGL H & V
Height of Radiation Center Above Average Terrain: 274 meters HAAT H & V
Height of Radiation Center Above Mean Sea Level: 425 meters AMSL H & V
Overall Height of Antenna Structure Above Ground: 52 meters AGL**

The proposed location is that of commonly owned Station KRQK(FM). Presently the tower is 40 meters overall height above ground level. The tower will be modified to 52 meters overall height above ground level. No changes will be made to the licensed facility of Station KRQK. The applicant has filed FAA Form 7460-1, a Notice of Proposed Construction with the Western Pacific Regional Office of the FAA. The application has been assigned FAA Air Study Number: 2005-AWP-2061-OE

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Engineering Exhibit E-1 is a complete FCC FM Channel Spacing Study that shows compliance with Section 73.207 of the Commission's Rules. Station KBOX proposes to continue to operate as a 47 C.F.R. Section 73.207 fully spaced FM Broadcast Station.

Engineering Exhibit E-2 is a map with the proposed computed contours plotted thereon. The contours shown in this exhibit were calculated using the Commission's Standard Prediction Method f(50,50) with three hundred sixty (360) radials calculated and plotted. The terrain data used is from the DMA 3 Arc Second Terrain Datafile. When a negative elevation for a radial was calculated or was determined to be less than 30 meters, the 30 meters figure was used to predict distance to contour as described and defined in 47 C.F.R. Section 73.313(e). The Principal Community, Lompoc, California, City Limit Boundaries are also shown. The city limits boundaries data was taken from the 2000 U.S. Census.

Engineering Exhibit E-10RHS is a complete and comprehensive RF Radiation Hazard Study/Evaluation of the facility proposed in the instant application. Based on the calculations and findings contained therein, the proposed new main transmission facility complies with all of the requirements of the FCC O.S.T. Bulletin, Guidelines for Human Exposure to Non-Ionizing Radio Frequency Radiation, as amended to date.

The applicant proposes to diplex Station KBOX with commonly owned Station KPAT into the antenna system proposed herein. Both stations are class B1 facilities and will operate at 3.30kW E.R.P. each at 247 meters HAAT.

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An analysis of the engineering data presented herein demonstrates compliance of the proposed facility with all of the applicable Rules and Regulations of the Federal Communications Commission as amended to date. Therefore, the applicant and licensee of FM Broadcast Station KBOX at Lompoc, California, requests the Commission consider and GRANT the facility requested herein.

Respectfully submitted,

Elliott Kurt Klein, Consulting Broadcast Engineer

For the firm:

KLEIN BROADCAST ENGINEERING, L.L.C.

14 April 2005