

MULLANEY ENGINEERING, INC.

9049 SHADY GROVE COURT
GAITHERSBURG, MD 20877

ENGINEERING EXHIBIT EE-LIC:

**RADIO STATION KLBT(FM)
THE KING'S MUSICIAN EDUCATIONAL
FOUNDATION, INC.
BEAUMONT, TEXAS**

Ch. 201C2 7 KW-DA-V 145 M HAAT

AUGUST 18, 2006

ENGINEERING STATEMENT IN SUPPORT OF
A LICENSE APPLICATION FOR A
NEW FM STATION
USING A DIRECTIONAL ANTENNA SYSTEM

File No. BMPED-20050902AAP - Facility ID: 86329

QUESTION 7 - EXHIBIT 8 OF FCC FORM 302-FM



ENGINEERING EXHIBIT EE-LIC:

**RADIO STATION KLBT(FM)
THE KING'S MUSICIAN EDUCATIONAL FOUNDATION, INC.
BEAUMONT, TEXAS**

Ch. 201C2 7 KW-DA-V 145 M HAAT

TABLE OF CONTENTS:

1. F.C.C. Form 302-FM.
2. Declaration of Engineer
3. Narrative Statement
4. Table A, Summary of Technical Facilities Installed.
5. Appendix A, Antenna Pattern Certification.
6. Appendix B, Surveyor's Certificate.
7. Appendix C, Statement by Qualified Engineer.

Declaration

I, John J. Mullaney, declare and state that I am a graduate electrical engineer with a B.E.E. and my qualifications are known to the Federal Communications Commission, and that I am an principal engineer in the firm of Mullaney Engineering, Inc., and that I have provided engineering services in the area of telecommunications since 1977. My qualifications as an expert in radio engineering are a matter of record with the Federal Communications Commission.

The firm of Mullaney Engineering, Inc., has been requested by The King's Musician Educational Foundation, Inc., to prepare the instant engineering exhibit in support of a license application for FM Station KLBT(FM) (FCC Facility ID Number: 86329).

All facts contained herein are true of my own knowledge except where stated to be on information or belief, and as to those facts, I believe them to be true. Information concerning the technical equipment installed and compliance with special conditions was obtained directly from the licensee. No on-site inspection of the facility by Mullaney Engineering was made. I declare under penalty of perjury that the foregoing is true and correct.



John J. Mullaney, Consulting Engineer

Executed on the 18th day of June 2006.

ENGINEERING EXHIBIT EE-LIC:

**RADIO STATION KLBT(FM)
THE KING'S MUSICIAN EDUCATIONAL FOUNDATION, INC.
BEAUMONT, TEXAS**

Ch. 201C2 7 KW-DA-V 145 M HAAT

NARRATIVE STATEMENT:

This engineering statement has been prepared on behalf of The King's Musician Educational Foundation, Inc., permittee of Radio Station KLBT(FM) at Beaumont, Texas (Facility ID 86329). The purpose of this statement is to inform the Commission that construction has been completed and that the new facility complies completely with its outstanding construction permit (BMPED-20050902AAP). In accordance with the rules governing directional antenna facilities [Section 73.1620(a)(2)] KLBT(FM) is currently operating at one half (50%) of the authorized ERP and will continue to do so until formal full power program test authority is issued by the Staff.

In accordance with the Special Operating Conditions on the construction permit, KLBT(FM) coordinated the times and locations of construction such that no worker was exposed to excessive R.F. levels and it will continue to do so in the future. The facility is in full compliance with both the "controlled" & "un-controlled" FCC Radiation Guidelines.

Table A is a summary of the technical facilities installed.

The polar plot of the directional antenna pattern contained in **Appendix A** shows the limitations imposed by the C.P. and as can be seen none of the C.P. limits have been exceeded. The RMS of the measured pattern encompasses **95.1%** of the composite pattern authorized in the C.P. This “as built” RMS easily exceeds the 85% minimum specified by the rules [Section 73.1690(C)(2)(ii)].

Required Certifications

Appendix A is a statement by the antenna manufacturer (**Shively**) in which it provides the “as built” measured vertical pattern. That certification provides the vertical power gain and RMS values. The vertical only RMS is stated to be 75.5%. The required orientation of the directional antenna is stated to be N-25-E. That statement also describes the methods used to measure the pattern.

Appendix B is a statement from a local surveyor certifying that the antenna is oriented on a bearing of N-25-E. The statement by the antenna manufacturer indicates that the antenna should be pointed on N-25-E. The actual and required orientations are in exact agreement.

Appendix C is a statement by a qualified local engineer that the antenna has been assembled in accordance with the manufacturer's instructions. It is further stated that RF exposure signs are in place and no workers were exposed during construction.

Environmental Assessment Statement

This facility is in **full compliance** with the FCC's criteria for human exposure to RF Energy. The tower is surrounded by a locked fence to limit inadvertent access. Workers employed to climb the tower or work in a potential overexposure location will not be permitted to enter the work area until cleared by the station manager or other responsible person. Appropriate warning signs are posted to ensure safety. If deemed to be necessary, the station will establish and enforce work rules and safety procedures applicable in a potential over-exposure area. It is recognized that maintenance or installation work on or near the antenna may require the station to completely shutdown or switch temporarily to an auxiliary antenna or an auxiliary transmitter site.

SUMMARY

The King's Musician Educational Foundation, Inc., permittee of Radio Station KLBT(FM) herein files its license application indicating that construction has been completed and the facility complies with its outstanding construction permit. KLBT(FM) is **waiting formal full power authorization** of program test authority.



John J. Mullaney, Consulting Engineer

June 18, 2006.