

MULLANEY ENGINEERING, INC.

9049 SHADY GROVE COURT
GAITHERSBURG, MD 20877

ENGINEERING EXHIBIT EE-LIC:

**RADIO STATION KHCJ (FM)
HOUSTON CHRISTIAN BROADCASTERS, INC.
JEFFERSON, TEXAS**

Ch. 220A 3.2 KW 140 M HAAT

FEBRUARY 21, 2006

**ENGINEERING STATEMENT IN SUPPORT OF
AN AMENDMENT TO
A PENDING LICENSE APPLICATION FOR A
NEW NON-COMMERCIAL FM STATION
“AS BUILT”**

Facility ID: 83429

QUESTION 7 - EXHIBIT 8 OF FCC FORM 302-FM



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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 Houston Christian Broadcasters, Inc., to prepare the instant engineering exhibit in support of an amended license application for FM Station KHCH (FM) (FCC Facility ID Number: 83429).

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 21st day of February 2006.

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NARRATIVE STATEMENT:

This engineering statement has been prepared on behalf of Houston Christian Broadcasters, Inc., permittee of Radio Station KHCJ (FM) at Jefferson, Texas (Facility ID 83429). This engineering is a complete replacement for the engineering currently on file. This engineering reflects the “as built” facilities as documented in the recent filing of an FCC form 340.

In accordance with the Special Operating Conditions on the construction permit, KHCJ (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. Since the facility contributes less than 1% of the “controlled” standard at ground level it is **categorically excluded** from further consideration even in “un-controlled” areas.

Table A is a summary of the technical facilities installed.

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

Houston Christian Broadcasters, Inc., permittee of Radio Station KHCH (FM) herein files its amended license application indicating that construction has been completed and that the facility now complies with its recently amended construction permit.



John J. Mullaney, Consulting Engineer

February 21, 2006.

Table A
Summary of Technical Facilities Installed
(CP Amended February 2006)

Call:	KHCJ (FM)	-	“As Built”	November 2003
City/State:	Jefferson, Texas			
Facility ID:	83429			
Channel:	220A		91.9 MHz	
Coordinates:	32-50-07 / 94-28-53 NAD-27			
Tower ASR:	1240328			
Antenna C.R.:	121.9 M AGL	228.6 M AMSL	140 M HAAT	
ERP:	3.2 kW H		3.2 kW V	
Antenna Make:	ERI	LPX-4C	1.0 lambda spacing	
OMNI:	Yes			
Ant. Gain:	2.13			
Coax Efficiency:	77.5 %	Andrew LDF6-50 1-1/4"	128.0 meters	
TPO:	1.94 kW			