

MULLANEY ENGINEERING, INC.

9049 SHADY GROVE COURT
GAITHERSBURG, MD 20877

ENGINEERING EXHIBIT EE-LIC-AUX:

**RADIO STATION WBAM-FM(Aux)
DEEP SOUTH BROADCASTING COMPANY
MONTGOMERY, ALABAMA**

Ch. 255C1 0.29 KW 334 M HAAT

SEPTEMBER 30, 2002

**ENGINEERING STATEMENT IN SUPPORT OF AN
AUXILIARY LICENSE APPLICATION
FOR A
FORMER MAIN FM STATION**

File No. BLH-19960604KA - Facility ID: 16379

QUESTION 7 - EXHIBIT 8 OF FCC FORM 302-FM

ENGINEERING EXHIBIT EE-LIC-AUX:

**RADIO STATION WBAM-FM(Aux)
DEEP SOUTH BROADCASTING COMPANY
MONTGOMERY, ALABAMA**

Ch. 255C1 0.29 KW 334 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. Figure 1, Proposed Auxiliary Coverage.

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 Deep South Broadcasting Company, to prepare the instant engineering exhibit in support of an auxiliary license application for FM Station WBAM-FM(Aux) (FCC Facility ID Number: 16379).

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. I declare under penalty of perjury that the foregoing is true and correct.

/s/ John J. Mullaney

John J. Mullaney, Consulting Engineer

Executed on the 30th day of September 2002.

ENGINEERING EXHIBIT EE-LIC-AUX:

**RADIO STATION WBAM-FM(Aux)
DEEP SOUTH BROADCASTING COMPANY
MONTGOMERY, ALABAMA**

Ch. 255C1 0.29 KW 334 M HAAT

NARRATIVE STATEMENT:

This engineering statement has been prepared on behalf of Deep South Broadcasting Company, licensee of Radio Station WBAM-FM(Aux) at Montgomery, Alabama (Facility ID 16379). The purpose of this statement is to request an auxiliary FM license for a former main FM facility (BLH-19960604KA). WBAM-FM recently re-located its main FM facility to a site which is 47.5 km south of its former site. In accordance with Section 73.1675 the ERP of the auxiliary was reduced to 0.29 kW to comply with the requirement that the 60 dBu of the auxiliary is totally within the 60 dBu of the main facility (see Figure 1).

Construction did not require any work on the tower or near the FM antenna. WBAM-FM coordinated the times and locations of construction such that no worker was exposed to excessive R.F. levels. The facility is in full compliance with both the “controlled” & “un-controlled” FCC Radiation Guidelines and is categorically excluded since it contributes less than 5% at ground level.

Table A is a summary of the technical facilities installed.

“As Built” - Differences

Except for TPO, the auxiliary facility does not significantly differ from those originally authorized as a main facility.

SUMMARY

Deep South Broadcasting Company, licensee of Radio Station WBAM-FM(Aux) herein files its auxiliary license application indicating that construction has been completed and that the facility complies with the FCC rules.

/s/ John J. Mullaney

John J. Mullaney, Consulting Engineer

September 30, 2002.

Table A

Summary of Technical Facilities Installed

| | | | |
|-------------------------|-----------------------------------|--------------|----------------------------|
| Call: | WBAM-FM(Aux) | | |
| City/State: | Montgomery, Alabama | | |
| Facility ID: | 16379 | | |
| Channel: | 255C1 | 98.9 MHz | |
| File Number: | BLH-19960604KA (old main license) | | |
| Coordinates: | 32-24-11 / 86-11-48 NAD-27 | | |
| Tower ASR: | 1042484 | | |
| Tip Height: | 356.3 M AGL | | |
| Antenna C.R.: | 342.3 M AGL | 397.2 M AMSL | 334 M HAAT |
| ERP: | 0.29 kW H | 0.29 kW V | |
| Antenna Make: | Shively | 6814-8/3 | 1.0 lambda spacing (panel) |
| OMNI: | Yes | | |
| Ant. Gain: | 4.1557 times power | | |
| Coax Efficiency: | 76.17 % | | |
| | Shively 1416 Rigid | 411.5 meters | 0.891 dB |
| | Shively diplexer | | 0.290 dB |
| TPO: | 0.092 kW | | |