

**APPLICATION FOR STATION LICENSE**  
**TELESOUTH COMMUNICATIONS, INC.**  
**WKBB RADIO STATION**  
**CH 265C2 - 100.9 MHZ - 47.0 KW (DA)**  
**MANTEE, MISSISSIPPI**  
**July 2011**

**TECHNICAL STATEMENT**

This Technical Statement was prepared on behalf of Telesouth Communications, Inc. ("Telesouth"), licensee of radio station WKBB, Channel 265C3, West Point, Mississippi. Telesouth has an outstanding permit to make minor changes to WKBB (BPH-20090612AJR) by upgrading to Channel 265C2 and changing city of license to Mantee, Mississippi. Telesouth herein submits a license application to cover the outstanding permit. As the permitted WKBB facility utilizes a directional antenna system, it is requested that the Commission review this submission and authorize full power operation for WKBB. Upon submission of this instant application, operation under limited program tests will commence at 50% of authorized power. A calculation of the transmitter power output of the WKBB transmitter is attached as Exhibit A.

There are seven operating conditions/restrictions on the WKBB permit. The first four conditions relate to the use of a directional antenna system for WKBB. Attached as Exhibit B is an antenna proof of performance from Electronics Research, Inc. ("ERI"), the manufacturer of the WKBB antenna system, demonstrating compliance of the antenna system with the requirements and limits contained in the permit. The measured pattern is within 85% of the envelope pattern submitted with the construction permit application. Exhibit C is a statement from an engineer that the WKBB antenna was assembled and installed in accordance with ERI's

specifications. Finally, attached as Exhibit D is a verification from a Land Surveyor that the antenna is oriented as specified by ERI.<sup>1</sup>

Further, as detailed in Exhibit B and noted in the permit, the power of WKBB at various azimuths is below the required limit. The relative field at 70° is 0.395 (horizontal), a power level of 7.315 kilowatts and 0.503 (vertical), a power level of 11.89 kilowatts, both of which are below the required 13.5 kilowatts. The relative field at 80° is 0.470 (horizontal), a power level of 10.367 kilowatts and 0.476 (vertical), a power level of 10.637 kilowatts, both of which are below the limit of 13.5 kilowatts. Therefore, the antenna system complies with the conditions relative to the use of the directional antenna system.

Condition #5 states that the WKBB permit was granted pursuant to §73.215 of the rules. Telesouth acknowledges this condition and recognizes that the herein requested license will likewise note that it was granted pursuant to §73.215 of the rules. Condition #6 states that as a result of the grant of the WKBB permit that Channel 265C2 is added to Mantee, Mississippi and that Channel 265C3 is deleted from West Point, Mississippi.<sup>2</sup> Telesouth acknowledges this condition.

The final condition states that Telesouth will reduce the power of WKBB, or cease operation in coordination with other users of the tower, to protect persons having access to the site from radio frequency electromagnetic fields in excess of FCC guidelines. Telesouth will comply with this condition.

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1) 240° true orientation, as indicated on the installation drawing included in the ERI proof.

2) The condition also indicates that BLH-20040513AAR is modified to specify operation on Channel 265C2 at Mantee, Mississippi.

Based on the foregoing, it is believed that WKBB is in compliance with the Commission's rules and that all conditions have been met. Therefore, Telesouth requests program tests be allowed with full authorized power for WKBB.