

**APPLICATION FOR STATION LICENSE**  
**NEW AUXILIARY ANTENNA SYSTEM**  
**THE UNIVERSITY OF SOUTH CAROLINA**  
**WUSC-FM RADIO STATION**  
**CH 213A - 90.5 MHZ - 0.24 KW**  
**COLUMBIA, SOUTH CAROLINA**  
**June 2010**

**TECHNICAL STATEMENT**

This Technical Statement was prepared on behalf of The University of South Carolina (“USC”), licensee of radio station WUSC-FM, Channel 213A, Columbia, South Carolina. USC holds an outstanding permit for an auxiliary antenna system for WUSC-FM for use with the main WUSC-FM antenna is out of service for maintenance (BXPED-20100312AAK). USC herein submits a license application to cover the outstanding permit. A calculation of the transmitter power output of the WUSC-FM auxiliary antenna transmitter is attached as Exhibit A.

There are four conditions/restrictions on the WUSC-FM auxiliary permit. The first condition states that automatic program test does not apply to this facility and that a formal request for program test authority must be filed. This instant application requests program test authority for the WUSC-FM auxiliary antenna.

The second and third conditions regard radio frequency electromagnetic field strength measurements on the roof and throughout the building to determine if there are any areas that exceed the Commission’s RF guidelines. It is believed that measurements are not necessary as the roof of the building on which the WUSC-FM tower is located cannot be accessed by the

general public. Attached as Exhibit B is a study which shows that in both controlled and uncontrolled environments, the WUSC-FM auxiliary antenna is below the 100% limit defined by the Commission and the antenna is believed to be in compliance with the radio frequency radiation exposure limits as required by the Federal Communications Commission. Therefore, it is requested that the measurement condition be waived as a result of the attached RF study and that program tests be authorized for the auxiliary antenna system.<sup>1</sup>

The last condition states that USC will reduce the power of WUSC-FM, or cease operation in coordination with other users of the tower, to protect persons having access to the site from radio frequency electro-magnetic fields in excess of FCC guidelines. USC will comply with this condition. Based on the foregoing, it is believed that WUSC-FM has been constructed in compliance with the Commission's rules and that all conditions have been met, assuming the RF measurement condition (Condition #2) is waived.

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1) If the staff determines additional details are needed or that measurements are needed to supplement the application, the applicant will supply the requested data, or if needed, take measurements.