## **EXHIBIT A**

## **ENGINEERING STATEMENT**

The engineering data contained herein have been prepared on behalf of McLAUGHLIN BROADCASTING, INC., licensee of WQHB(TV), Sumter, South Carolina, in support of its Application for Construction Permit for its companion digital television station, which will operate on Channel 39 as WQHB-DT. This action was ordered by the Commission in MM Docket No. 00-182 in which the WQHB-DT channel allotment was changed from Channel 38 to Channel 39.

Exhibit B is a map upon which the allotment site is plotted. Exhibit C is a vertical sketch of the proposed antenna and the WQHB supporting structure. Antenna radiation pattern data appears as Exhibit E, and a tabulation of terrain and contour data comprises Exhibit F. Exhibit G is a map of the digital service contour. An allocation study is included in Exhibit H.

Since no change in the location or overall height of the WQHB structure is proposed herein, the FAA has not been advised of this application. It is important to note that the FCC issued Antenna Structure Registration Number 1211120 to the tower.

We have studied the RF transmissions of this facility with regard to their environmental effect. Employing the methods set forth in *OET Bulletin No. 65* and assuming a vertical relative field value of 20 percent at the steeper elevation angles for the proposed antenna, we calculate maximum power density two meters above ground from the proposed facility to be 0.010 mw/cm², near the tower base. This value is but 2.5 percent of the 0.41 mw/cm² reference at this frequency (620-626 MHz) for uncontrolled areas (*i.e.*, areas with access to the public).

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Further, the station owner will take whatever preventive steps are necessary, such as reducing power or leaving the air temporarily, to ensure that workers operating in the vicinity of the antenna are not exposed to excessive RF energy. On this basis, a grant of this application would clearly constitute a minor environmental action with respect to public and occupational exposure to nonionizing electromagnetic radiation.

I declare under penalty of perjury that the foregoing statements and the attached Engineering Report, which was prepared by me or under my immediate supervision, are true and correct to the best of my knowledge and belief.

**KEVIN T. FISHER** 

May 10, 2001