

**Engineering Exhibit**  
**RF Radiation Compliance**  
**WRFQ-FM – 104.5 MHz**  
**Mount Pleasant, SC**  
**FacID: 38901**  
**WXY-FM – 102.5 MHz**  
**North Charleston, SC**  
**FacID:34163**  
**WEZL-FM- 103.5**  
**Charleston, SC**  
**FacID:2441**  
**Tuesday, May 23, 2006**

**Reference:**  
**Construction Permits BXPB-20040819ABO**  
**BXPB-20040819ABQ**  
**BXPB-20040824AGS**

## **RF Radiation Compliance**

This report is to demonstrate that both the licensed and proposed transmission facilities of

**WRFQ-FM – 104.5 MHz Mount Pleasant, SC FacID: 38901; WXLV-FM – 102.5 MHz North Charleston, SC FacID:34163; WEZL-FM- 103.5 Charleston, SC FacID:2441** comply with the FCC established guidelines regarding exposure to RF electromagnetic fields as described in OET Bulletin 65 Edition 97-01.

### **Facilities:**

The facilities utilize a 5-bay Dielectric DCRM-5 antenna mounted on a 213 meter, guyed tower with a Center of Radiation of 157 meters above ground level. WXLV, WEZL and WRFQ are licensed for an ERP (H & V) of 100KW at 198 meters AGL and were granted Construction Permits **BXPH-20040819ABO, BXPH-20040819ABQ BXPH-20040824AGS** to install auxiliary transmitting facilities on the tower with an ERP (H & V) of 25 kW utilizing an antenna with a Center of Radiation of 157 meters above ground level. The antenna installed for WXLV, WEZL and WRFQ is a 5-bay Dielectric DCRM-5. There are three other FM stations WFCH 88.5 Mhz, WXST 99.7 Mhz, WIHB 92.5 Mhz and WAVF 96.1 Mhz and many wireless carriers within 315 meters of the licensed site and therefore will be studied.

### **General Population/Uncontrolled Exposure:**

To determine the level of RF exposure, measurements were made on Thursday, May 25, 2006 by Benjamin Brinitzer CPBE, in all areas accessible by the public at the transmitter site and surrounding areas, with WXLV, WRFQ and WEZL operating at 25KW ERP utilizing the proposed Aux antenna listed above, All other facilities were operating at licensed power and heights into their respective licensed facilities. A NARDA survey meter model FSCM99899 and a Narda probe A8742D was utilized. The probe is calibrated in percent of standard for Controlled Exposure for frequencies ranging in the broadcast band. The "Max Hold" setting was used to record the highest level measured. Measurements were made at 2 meters above the ground while walking the entire area at the site and in the adjacent areas out to a distance of 100 meters from the tower base.

The maximum RF exposure level measured is 6.2% of controlled access standard, ( $100\% = 1 \text{ mW/cm}^2$ ) and is below the limit of the General Population / Uncontrolled Exposure at a distance of 20 meters from the tower base, and drops off as the distance is increased. This is well below the  $0.2 \text{ MW/cm}^2$  limit for General Population / Uncontrolled Exposure. Therefore, the facilities comply with OET Bulletin 65 with regard to General Population / Uncontrolled Exposure.

### **Occupational/Controlled Exposure:**

Using the measurement methods described above, measurements were also taken within the transmitter building and near the tower base. The maximum RF exposure measured is 16% of controlled standard (100% = 1 mw/cm<sup>2</sup>) of the Occupational / Controlled Exposure directly in front of each Continental transmitter and does not exceed 1 mw/cm<sup>2</sup> in all other areas. Therefore, WRFQ-FM, WXLY-FM and WEZL-FM comply with OET Bulletin 65 with regard to Occupational / Controlled Exposure.

A 3-meter high security fence surrounds the common tower, the gate to which is securely locked and signs warning of the potential RF hazard are conspicuously posted on the gate and at appropriate intervals along the tower fence. WRFQ-FM, WXLY-FM and WEZL-FM in coordination with other users of the site, reduce power or cease operations as necessary to protect persons having access to the site, tower or antenna from RF Exposure in excess of FCC guidelines. Based upon the predictions contained herein, both the licensed and proposed Aux facilities of WRFQ-FM, WXLY-FM and WEZL-FM comply with OET Bulletin 65 Edition 97-01 with regard to both General Population/Uncontrolled and Occupational/Controlled Exposure to RF Radiation.