

**MINOR CHANGE APPLICATION**  
**GLORY COMMUNICATIONS, INC.**  
**WEAF AM RADIO STATION**  
**has: 1130 kHz - 0.007/1.0 kW ND**  
**CAMDEN, SOUTH CAROLINA**  
**req: 1130 kHz - 0.009/1.0 kW ND**  
**SPRINGDALE, SOUTH CAROLINA**  
**January 2007**

**EXHIBIT #5**

**Radio Frequency Radiation Assessment**

This radio frequency radiation study is being conducted to determine whether this proposal is in compliance with OET Bulletin Number 65 and Number 65A, both dated August 1997, regarding human exposure to radio frequency radiation in the vicinity of broadcast towers. This study considers all nearby contributing stations and utilizes the appropriate formulas contained in the OET Bulletin. It is proposed to di-plex WGCV and WEAF on the transmit tower.

At the WEAF frequency of 1130 kHz, the tower is  $134.0^\circ$  ( $0.372 \lambda$ ) in electrical height. The tower is fenced at a minimum distance of 2.0 meters (6.6 feet) from the radiating structure. Based on the guidelines of the OET bulletin, at the proposed 1.0 kilowatt power level calculations yield that WEAF will deliver 104.0 V/m and 0.250 A/m at the fence perimeter. This is 16.9% of the electric field limit of 614 V/m and 15.3% of the magnetic field of 1.63 A/m limit for uncontrolled protection, as specified by the FCC. In this case the electric field contribution of 16.9% is considered as the worst case scenario.

At the WGCV frequency of 620 kHz, the tower is  $73.5^\circ$  ( $0.204 \lambda$ ) in electrical height. The tower is fenced at a minimum distance of 2.0 meters (6.6 feet) from the radiating structure. Based

on the guidelines of the OET bulletin, at the WGCV licensed power of 2.5 kilowatts, calculations yield that 450.2 V/m and 0.995 A/m will be present at the fence perimeter. This represents 73.3% of the Electric field limit of 614 V/m and 61.0 % of the magnetic field limit of 1.63 A/m. In this case the electric field contribution of 73.3% is considered as the worst case scenario.

Combining the two worst case percentage contributions, (WGCV - 73.3% + WEAF - 16.9%) a level less than 100% (90.2%) is reached at the fence perimeter. This proposal is believed to be in compliance with the radio frequency radiation exposure limits as required by the Federal Communications Commission. Further, GCI will verify that warning signs have been posted at the fence perimeters warning of potential radio frequency radiation hazards at the site. In addition, GCI will reduce the power of the proposed facilities or cease operation in cooperation and coordination with other tower users, as necessary, to protect persons having access to the sites, towers or antennas from radio frequency radiation in excess of FCC guidelines. Based on the above factors, this proposal is categorically excluded from radio frequency environmental processing pursuant to §1.1306 of the Commission's rules.