

**MODIFY BMPH-20070306AAX**  
**LEGEND COMMUNICATIONS OF WYOMING, LLC**  
**KGCL (FM) RADIO STATION**  
**CH 271C1 - 102.1 MHZ - 30.0 KW**  
**TEN SLEEP, WYOMING**  
**July 2007**

**EXHIBIT A**

**Radio Frequency Assessment**

As the proposed KGCL antenna is to be located on a relatively short tower, a study has been made to determine whether this proposal is in compliance with 47 C.F.R. §1.1307 of the Commission's rules and with OET Bulletin #65, dated August 1997 ("Bulletin"), 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.<sup>1</sup>

The KGCL antenna system is to be mounted with its center of radiation 30.5 meters (100.0 feet) above the ground at the tower location and will operate with an effective radiated power of 30.0 kilowatts in the horizontal and vertical planes (circularly polarized). The KGCL antenna will be a six bay full wavelength spaced Electronics Research, Inc., rototiller style system (FCC/EPA Type #3). At 2.0 meters, the height of an average person, above the ground at the base of the tower, the KGCL antenna system will contribute  $0.1684 \text{ mw/cm}^2$ .<sup>2</sup> Based on exposure limitations for a controlled environment, 16.8% of the allowable limit is reached at 2.0

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- 1) The contributions of the FM facilities were calculated using the FM Model program. A single bay EPA dipole antenna was used for calculation purposes, unless otherwise specified.
  - 2) This level of field occurs at 9.0 meters out from the base of the tower and is considered worst case.

meters above the ground at the base of the tower. For uncontrolled environments, 84.2% of the ANSI limit is reached at the 2.0 meters above the ground at the base of the tower.

Since this level for uncontrolled environments are below the 100% limit defined by the Commission, the proposed KGCL facility is believed to be in compliance with the radio frequency radiation exposure limits as required by the Federal Communications Commission. Further, Legend will posted warning signs in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, Legend will reduce the power of the facility or cease operation, in cooperation and coordination with other tower users, as necessary, to protect persons having access to the site, tower or antenna from radio frequency radiation in excess of FCC guidelines.