

MINOR CHANGE APPLICATION
LEGEND COMMUNICATIONS OF WYOMING, LLC
KKLX (FM) RADIO STATION
CH 241C1 - 96.1 MHZ - 80.0 KW
WORLAND, WYOMING
January 2008

EXHIBIT #A

Radio Frequency Assessment

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.¹

The proposed KKLX antenna system will be mounted with its center of radiation 49.1 meters (161.1 feet) above the ground at the tower location and will operate with an effective radiated power of 80.0 kilowatts in the horizontal and vertical planes (circularly polarized). The proposed KKLX antenna is an eight bay (fullwave) Electronics Research, Inc., rototiller style system (FCC/EPA Type 3). At 2.0 meters above the ground at the base of the tower, the height of an average person, the KKLX antenna system will contribute 0.1404 mw/cm^2 .² Based on exposure limitations for a controlled environment, 14.0% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments, 70.2% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.

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- 1) The contributions of the FM stations were calculated with the FMModel program. The EPA single bay dipole antenna was used for calculations unless otherwise noted.
 - 2) This level of contribution occurs at 13.0 meters out from the tower and is considered worst case.

Since this level for uncontrolled environments is below the 100% limit defined by the Commission, the proposed KKLX facility is believed to be in compliance with the radio frequency radiation exposure limits, as required by the Federal Communications Commission. Further, Legend will post 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 proposed 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.