

**CORRECTION OF COORDINATES/  
MINOR CHANGE APPLICATION  
LEIGHTON ENTERPRISES, INC.  
KYCK (FM) RADIO STATION  
CH 246C1 - 97.1 MHZ - 100.0 KW  
CROOKSTON, MINNESOTA  
November 2005**

**EXHIBIT A**

**Radio Frequency Assessment**

Since the present/corrected KYCK tower is a relatively short tower, the use of the worksheets to demonstrate compliance with the radio frequency radiation rules is not possible. Therefore, this 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 stations and utilizes the appropriate formulas contained in the Bulletin.<sup>2</sup>

The KYCK antenna system is mounted with its center of radiation 111.3 meters (365.0 feet) above the ground at the existing tower location and operates with an effective radiated power of 100.0 kilowatts in the horizontal and vertical planes (circularly polarized). The KYCK antenna is an Electronics Research, Inc., rototiller style system (FCC/EPA Type #3). At two meters, the height of an average person, above the ground at the base of the tower, the KYCK antenna system contributes 0.1244 mw.<sup>3</sup> Based on exposure limitations for a controlled

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- 2) The FM Model program was used to calculate the FM stations' contributions. The EPA single bay dipole was used unless otherwise stated.
  - 3) This level of field occurs at 109 meters out from the base of the tower and is considered worst case.

environment, 12.4% of the allowable ANSI limit is reached at two meters above the ground at the base of the proposed tower. For uncontrolled environments, 62.2% of the ANSI limit is reached at two meters above the ground at the base of the tower.

Since this level for uncontrolled environments is well below the 100% limit defined by the Commission, the corrected KYCK facility is believed to be in compliance with the radio frequency radiation exposure limits as is required by the Federal Communications Commission. Further, LE has posted warning signs in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, LE 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.