

MINOR CHANGE APPLICATION
NEW AUXILIARY FM ANTENNA
KJUL LICENSE, LLC
KCYE RADIO STATION
CH 282C - 104.3 MHZ - 5.1 KW
NORTH LAS VEGAS, NEVADA
February 2008

EXHIBIT B

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 It is noted that the proposed KCYE auxiliary is to be co-located with the main KCYE antenna system. The auxiliary is also located at a site with numerous other facilities in a de facto tower farm located at Mount Potosi, Nevada. The location is far removed from any populated areas, and the terrain around the site prevents casual trespass into the site. Further, the site is virtually inaccessible during several months due to snowfall at and around the site. Access to the site is via a single access road which is gated and locked to prevent the general public from access to the site or the immediate area around the towers. The gated access point is located some 100.0 meters (328 feet) from the KCYE tower.²

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- 1) The FMModel Program was used for all calculations for the FM station contributions. The EPA single bay dipole antenna was used unless otherwise noted.
 - 2) Because of the many users at the site, measurements were taken around the site as part of the license renewals for the stations located at this multi-user location. Aside from one hot spot, which was marked off and restricted by the proper warning signs, none of the remaining controlled area or uncontrolled areas were noted as being out of compliance.

Since the auxiliary will operate at 5.1 kilowatts when the main antenna system is not operating, the environment around the site is not expected to change significantly.³

The proposed KCYE auxiliary antenna system will be mounted with its center of radiation 38.0 meters (125.0 feet) above the ground at the existing tower location and will operate with an effective radiated power of 5.1 kilowatts in the horizontal and vertical planes (circularly polarized). The KCYE auxiliary antenna will be a two bay, full wavelength spaced Shively 6800 system (FCC/EPA Type #6). At 2.0 meters above the ground at the base of the tower, the height of an average person, the KCYE auxiliary antenna system will contribute 0.0345 mw/cm².⁴ Based on exposure limitations for a controlled environment, 3.5% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments, 17.3% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower.⁵

Since this level for uncontrolled environments is well below the 100% limit defined by the Commission, the proposed KCYE auxiliary antenna is believed to be in compliance with the

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- 3) If updated measurements are needed, they can be taken and submitted with the application for station license for the proposed auxiliary system.
 - 4) This level of field occurs at 24.0 meters out from the base of the tower and is considered worst case.
 - 5) Using the proposed auxiliary antenna system for digital operation, the system would have a maximum effective radiated power of 0.245 kilowatt (245 watts) horizontal and vertical. With the same Shively antenna system, the contribution of the KCYE digital facility would be 0.0017 mw/cm². This level of field would occur at 24.0 meters out from the base of the tower. Based on exposure limitations for a controlled environment, 0.2% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments, 0.9% of the ANSI limit is reached at 2.0 meters above the ground at the base of the tower. Based on the location of the system in a de facto tower farm and, since this level for controlled and uncontrolled environments is less than the 5% limit defined by the Commission {§1.1307(3)(i)}, the digital facility is believed to be in compliance with the radio frequency radiation exposure limits, as required by the Federal Communications Commission.

radio frequency radiation exposure limits as required by the Federal Communications Commission. Further, KLL will insure that there are warning signs in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, KLL 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.