

MINOR CHANGE APPLICATION
NEW AUXILIARY FM ANTENNA SYSTEM
CUMULUS LICENSING LLC
KMXC (FM) RADIO STATION
CH 247C1 - 97.3 MHZ - 18.0 KW
SIOUX FALLS, SOUTH DAKOTA
September 2010

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

The proposed KMXC auxiliary antenna system will be mounted with its center of radiation 67.1 meters (220.0 feet) above the ground at the tower location and will operate with an effective radiated power of 18.0 kilowatts in the horizontal and vertical planes (circularly polarized). At 2.0 meters above the ground at the base of the tower, the height of an average person, the proposed KMXC auxiliary antenna system will contribute 0.1708 mw/cm².² Based on exposure limitations for a controlled environment, 17.1% of the allowable ANSI limit is reached at 2.0 meters above the ground at the base of the tower. For uncontrolled environments, 85.4% 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 occurs at 18.0 meters out from the base of the tower and is considered worst case.

Since this level is below the 100% limit defined by the Commission, the proposed KMXC auxiliary facility is believed to be in compliance with the radio frequency radiation exposure limits as required by the Federal Communications Commission. Further, Cumulus will insure warning signs are posted in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, Cumulus 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.