Kansas Administrative Regulations

Department of Health and Environment

Article 35.—Radiation

28-35-301c. Additional requirements for handheld X-ray systems with open-beam configurations.

In addition to the requirements in K.A.R. 28-35-297 through 28-35-300 and K.A.R. 28-35-301b, the following requirements in this regulation shall apply to handheld X-ray systems with open-beam configurations:

(a) Procedures. Each registrant possessing any handheld X-ray systems with open-beam configurations shall have available for review by the department operating policies and procedures that contain measures to ensure that all of the following conditions are met:

(1) Radiation protection equivalent to that specified in part 4 of these regulations is provided.

(2) Radiation protection equivalent to that specified in K.A.R. 28-35-301b is provided.

(3) The operator will not hold the sample during operation of the handheld X-ray systems with open-beam configurations, and the operator's hands will not approach the primary beam.

(4) The operator will not aim the primary beam at the operator or at any individual during operation of the handheld X-ray systems with open-beam configurations.

(5) Operator radiation exposure is as low as is reasonably achievable.

(b) Training. In addition to the training requirements specified in K.A.R. 28-35-300 and 28-35-301b, each registrant shall provide training for each user and operator on the policies and procedures specified in subsection (a) of this regulation. Each registrant shall maintain records of all user and operator training.

(c) Radiation emission limit. For handheld X-ray systems with open-beam configurations, the limits specified in K.A.R. 28-35-297, excluding the primary beam, shall be met if the radiation emission at any accessible surface of the handheld X-ray

systems with open-beam configurations does not exceed 0.025 millisievert (2.5 millirem) per hour at five centimeters.

(d) Extremity monitoring. For the purposes of K.A.R. 28-35-300, each operator of handheld X-ray systems with open-beam configurations shall be considered as working near the primary beam.

(Authorized by and implementing K.S.A. 48-1607; effective Oct. 23, 2026.)

***** Authenticated Kansas Administrative Regulation *****