Kansas Administrative Regulations

Department of Health and Environment

Article 35.—Radiation

28-35-299. Operating requirements.

(a) Procedures. Normal operating procedures shall be written and available to all analytical X-ray equipment workers. No individual shall be permitted to operate analytical X-ray equipment in any manner other than that specified in the normal operating procedures unless the individual has obtained the prior written approval of the radiation safety officer.

(b) Bypassing. No individual shall bypass a safety device unless the individual has obtained the prior written approval of the radiation safety officer. If a safety device is bypassed, a readily discernible sign bearing the words “SAFETY DEVICE NOT WORKING,” or words having a similar meaning, shall be placed on the radiation source housing. Each registrant shall maintain a record of any bypass of a safety device that contains, at a minimum, the following information:

(1) The date the bypass was made;

(2) the type of bypass;

(3) the length of time the X-ray equipment remained in bypassed condition;

(4) the postbypass survey results signed by the radiation safety officer;

(5) the name of each individual who made the bypass; and

(6) the name of each individual who restored the X-ray equipment to its original condition.

(c) Repair or modification of analytical X-ray systems. Except as specified in subsection (b), no operation involving the removal of covers, shielding materials, or tube housing assemblies or any modifications to shutters, collimators, or beam stops shall be conducted without ascertaining that the tube is off and will remain off until safe conditions have been restored. The main switch, rather than interlocks, shall be used for each routine shutdown in preparation for repairs.

(d) Radioactive source replacement, testing, or repair. Radioactive source housings shall be opened for source replacement, leak testing, or other maintenance or repair procedures only by individuals authorized to specifically conduct these procedures under a license issued by the nuclear regulatory commission, an agreement state, or a licensing state.

(e) Testing of safety devices.

(1) Each registrant shall ensure that tests of all safety devices, including interlocks, shutters, warning lights, and required emergency shut-off switches are conducted at intervals not more than six months on all operable radiation-generating devices.

(2) Each registrant shall maintain records of safety device tests, findings, and correction action for inspection by the department. The following records shall be maintained for three years:

(A) Date of each test;

(B) list of the safety devices tested;

(C) model and serial number of each survey instrument;

(D) calibration date of each survey instrument;

(E) results of each test;

(F) name of the individual conducting each test; and

(G) corrective actions taken for safety devices that fail the required tests.

(3) Failure of any safety device during testing shall result in the removal of the analytical X-ray equipment from service until the safety device failure is corrected or temporary administrative controls are established and approved in writing by the radiation safety officer.

(Authorized by and implementing K.S.A. 48-1607; effective May 1, 1976; amended Dec. 30, 2005; amended Oct. 23, 2026.)

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