# Kansas Administrative Regulations

## Department of Health and Environment

### Article 35.—Radiation

**28-35-135h. Definitions.**

As used in these regulations, each of the following terms shall have the meaning specified in this regulation:

(a) “Half-life” means the time required for the activity of any given radioisotope to decay to one-half of its original activity.

(b) “Half-value layer” and “HVL” mean the thickness of specified material that attenuates the beam of radiation to an extent that the exposure rate is reduced to one-half of its original value.

(c) “Handheld X-ray equipment” means X-ray equipment that is designed to be used when held in the hands of an operator during operation.

(d) “Handheld X-ray system” means an X-ray system using handheld X-ray equipment.

(e) “Hands-on experience,” as applied to industrial radiology, means experience in all areas considered to be directly involved in the radiography process. This term shall include taking radiographs, the calibration of survey instruments, operational and performance testing of survey instruments and devices, film development, the posting of radiation areas, transporting radiography equipment, the posting of records and radiation area surveillance, and other areas as applicable. A disproportionate amount of time spent in only one or two of these areas shall not be counted toward the 2,000 hours of hands-on experience required for a radiation safety officer or a radiographer.

(f) “Hazardous waste” has the meaning specified in K.A.R. 28-31-261.

(g) “Healing arts” means the activities authorized in K.S.A. 65-2801 et seq., and amendments thereto.

(h) “Healing arts screening” means the testing of human beings using X-ray machines for the detection or evaluation of health indications when the test is performed without any prior examination and without any specific and individual order by a

licensed practitioner of the healing arts who is legally authorized to perform examinations and to prescribe X-ray tests for the purpose of diagnosis or treatment.

(i) “Heat unit” means a unit of energy equal to the product of the peak kilovoltage, milliamperes, and seconds (kVp × mA × second).

(j) “High dose-rate remote afterloader” means a brachytherapy device that remotely delivers a dose rate in excess of 12 grays (1,200 rads) per hour at the point or surface where the dose is prescribed.

(k) “High-radiation area” means any area that is accessible to individuals, in which there exists radiation at levels that a major portion of the body could receive, in any one hour and at 30 centimeters from the source of the radiation or any surface that the radiation penetrates, a dose to the whole body in excess of 100 millirems. For purposes of these regulations, rooms or areas in which diagnostic X-ray systems are used for healing arts purposes shall not be considered high-radiation areas.

(l) “Human use” means the intentional internal or external administration of radiation or radioactive material to any individual.

(Authorized by K.S.A. 48-1607; implementing K.S.A. 2023 Supp. 48-1603 and K.S.A. 48-1607; effective Dec. 30, 2005; amended Oct. 23, 2026.)

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