Kansas Administrative Regulations

Department of Health and Environment

Article 35.—Radiation—Part 4. Standards for Protection Against Radiation.

28-35-213b. Dose to an embryo or fetus.

(a) Each licensee or registrant shall ensure that the dose to an embryo or fetus during the entire pregnancy, due to occupational exposure of a declared pregnant woman, does not exceed 5 mSv (0.5 rem).

(b) Each licensee or registrant shall make efforts to avoid substantial variation above a uniform monthly exposure rate to a declared pregnant woman in order to satisfy the limit in subsection (a).

(c) The dose to an embryo or fetus shall be the sum of the following:

(1) The dose to the embryo or fetus from radionuclides in the embryo or fetus and radionuclides in the declared pregnant woman; and

(2) either of the following doses that is more representative of the dose to the embryo or fetus from external radiation:

(A) If multiple measurements have not been made, assignment of the highest deep dose equivalent for the declared pregnant woman shall be the dose to the embryo or fetus as specified in K.A.R. 28-35-212e; or

(B) if multiple measurements have been made, assignment of the deep dose equivalent for the declared pregnant woman from the individual monitoring device that is most representative of the dose to the embryo or fetus shall be the dose of the embryo or fetus. Assignment of the highest deep dose equivalent for the declared pregnant woman to the embryo or fetus shall not be required unless that dose is also the most representative deep dose equivalent for the region of the embryo or fetus.

(d) If by the time the woman declares pregnancy to the licensee or registrant, the dose to the embryo or fetus has exceeded 4.5 mSv (0.45 rem), the licensee or registrant shall be deemed to be in compliance with subsection (a) if the additional dose

to the embryo or fetus does not exceed 0.50 mSv (0.05 rem) during the remainder of the pregnancy.

(Authorized by and implementing K.S.A. 48-1607; effective Oct. 17, 1994; amended Dec. 30, 2005.)

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