

## New Dosimetry Technology – Parts 34, 36, 39

(65 FR 63749, October 24, 2000; 66 FR 1573, January 9, 2001) **RATS ID 2000-2** Effective 1/8/01

Change to NRC Section	Title	State Section	Compatibility Category	Summary of Change to CFR	Difference Yes/No	Significant Yes/No	If Difference, Why or Why Not Was a Comment Generated
§34.47	Personnel monitoring		C	<p><b>Amended Paragraphs intro to (a), (a)(2-4), (d), (e), and (f):</b></p> <p>(a) The licensee may not permit any individual to act as a radiographer or a radiographer's assistant unless, at all times during radiographic operations, each individual wears, on the trunk of the body, a direct reading dosimeter, an operating alarm ratemeter, and a personnel dosimeter that is processed and evaluated by an accredited National Voluntary Laboratory Accreditation Program (NVLAP) processor. At permanent radiography installations where other appropriate alarming or warning devices are in routine use, the wearing of an alarming ratemeter is not required.</p> <p>(2) Each personnel dosimeter must be assigned to and worn only by one individual.</p> <p>(3) Film badges must be replaced at periods not to exceed one month and other personnel dosimeters processed and evaluated by an accredited NVLAP processor must be replaced at periods not to exceed three months.</p> <p>(4) After replacement, each personnel dosimeter must be processed as soon as possible</p>			

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				<p>(d) If an individual's pocket chamber is found to be off-scale, or if his or her electronic personal dosimeter reads greater than 2 millisieverts (200 millirems), and the possibility of radiation exposure cannot be ruled out as the cause, the individual's personnel dosimeter must be sent for processing within 24 hours. In addition, the individual may not resume work associated with licensed material use until a determination of the individual's radiation exposure has been made. This determination must be made by the RSO or the RSO's designee. The results of this determination must be included in the records maintained in accordance with Sec. 34.83.</p> <p>(e) If the personnel dosimeter that is required by paragraph (a) of this section is lost or damaged, the worker shall cease work immediately until a replacement personnel dosimeter meeting the requirements in paragraph (a) is provided and the exposure is calculated for the time period from issuance to loss or damage of the personnel dosimeter. The results of the calculated exposure and the time period for which the personnel dosimeter was lost or damaged must be included in the records maintained in accordance with Sec. 34.83.</p> <p>(f) Dosimetry reports received</p>			

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				from the accredited NVLAP personnel dosimeter processor must be retained in accordance with Sec. 34.83.			
§34.83	Records of personnel monitoring procedures		C	<b>Amended Paragraphs (c)&amp;(d):</b> (c) Personnel dosimeter results received from the accredited NVLAP processor until the Commission terminates the license. (d) Records of estimates of exposures as a result of: off-scale personal direct reading dosimeters, or lost or damaged personnel dosimeters until the Commission terminates the license.			
§36.55	Personnel monitoring		H&S	<b>Amended Paragraph (a):</b> (a) Irradiator operators shall wear a personnel dosimeter that is processed and evaluated by an accredited National Voluntary Laboratory Accreditation Program (NVLAP) processor while operating a panoramic irradiator or while in the area around the pool of an underwater irradiator. The personnel dosimeter processor must be accredited for high energy photons in the normal and accident dose ranges (see 10 CFR 20.1501(c)). Each personnel dosimeter must be assigned to and worn by only one individual. Film badges must be processed at least monthly, and other personnel dosimeters must be processed at least quarterly.			
§36.81	Records and retention periods.		D	<b>Amended Paragraph (e):</b> (e) Evaluations of personnel dosimeters required by Sec. 36.55			

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				until the Commission terminates the license.			
§39.65	Personnel monitoring		C	<b>Amended Paragraph (a):</b> (a) The licensee may not permit an individual to act as a logging supervisor or logging assistant unless that person wears, at all times during the handling of licensed radioactive materials, a personnel dosimeter that is processed and evaluated by an accredited National Voluntary Laboratory Accreditation Program (NVLAP) processor. Each personnel dosimeter must be assigned to and worn by only one individual. Film badges must be replaced at least monthly and other personnel dosimeters replaced at least quarterly. After replacement, each personnel dosimeter must be promptly processed.			
§39.65	Personnel monitoring		D	<b>Amended Paragraph (c):</b> (c)The licensee shall retain records of personnel dosimeters required by paragraph (a) of this section and bioassay results for inspection until the Commission authorizes disposition of the records.	N/A		