

Audit 22

Staff Dosimetry Audit

Definitions (Council Directive 2013/59/Euratom, December 2013)

- ★ "occupational exposure" means exposure of workers, apprentices and students, incurred in the course of their work;
- ★ "dose constraint" means a constraint set as a prospective upper bound of individual doses, used to define the range of options considered in the process of optimisation for a given radiation source in a planned exposure situation;
- ★ "dose limit" means the value of the effective dose (where applicable, committed effective dose) or the equivalent dose in a specified period which shall not be exceeded for an individual;
- ★ category A: those exposed workers who are liable to receive an effective dose greater than 6 mSv per year or an equivalent dose greater than 15 mSv per year for the lens of the eye or greater than 150 mSv per year for skin and extremities;
- ★ category B: those exposed workers who are not classified as category A workers.

	STAFF	STUDENTS AND APPRENTICES
Effective dose (mSv)	20 ^(*) (1)	6
Eye lens dose (mSv)	20 ⁽²⁾	15
Skin/Extremities (mSv)	500	150

(*) *in the case of pregnant workers, the maximum dose to the unborn child is set at 1mSv.*

(1) *a higher effective dose of up to 50 mSv may be authorised by the competent authority in a single year, provided that the average annual dose over any five consecutive years, including the years for which the limit has been exceeded, does not exceed 20 mSv.*

(2) *or 100 mSv in any five consecutive years subject to a maximum dose of 50 mSv in a single year.*

Member States shall require the undertaking or, in the case of outside workers, the employer, to decide on the categorisation of individual workers prior to their taking up work that may give rise to exposure, and to regularly review this categorisation on the basis of working conditions and medical surveillance. The distinction shall also take into account potential exposures.

Targets are to be locally derived and agreed as directed by the Council Directive.

Audit template questionnaire for staff dosimetry

		Comments
Are occupationally exposed staff monitored	Yes No Partially	
Are occupationally exposed staff classified in a specific category (A or B)	Yes No Partially	
Are outside workers also monitored as exposed workers employed on a permanent basis by the undertaking	Yes No Partially	
Are staff aware of how to correctly wear the different dosimeters	Yes No Partially	
Are dose constraint values (as optimisation tool) established for the occupationally exposed	Yes No Partially	
Are occupationally exposed staff aware of the dose limits	Yes No Partially	
Are occupationally exposed staff aware of the dose constraint values	Yes No Partially	
Are the results of individual monitoring communicated to the individuals	Yes No Partially	
Are the results of the dosimetry recorded in the medical records	Yes No Partially	
What are the actions undertaken when exceeding a dose constraint	Yes No Partially	
In the case of accidental exposure, is there a procedure for the readout of the dosimeter and dose results communication	Yes No Partially	
Number of high dose alerts per year		
Number of times dose limit exceeded per year		
Medical follow up of exposed workers	Yes No Partially	

PLEASE SPECIFY THE CATEGORY OF THE WORKER (A OR B) WHEN FILLING OUT THE FOLLOWING TABLE:

	Whole body dosemeter under apron	Whole body dosemeter over apron	Extremities dosemeter	Eye lens dosemeter	APD (electronic personal dosemeter)
Position					
Type / model (TLD, OSL,...)					
exchange					