

University of Aberdeen

Ionising Radiation Safety Arrangements

APPENDIX 7 Arrangements for Classified Workers

Version 3

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Authorised by Radiation Hazards Sub Committee

APPENDIX 7

Any worker who is likely to receive an effective dose of greater than 6mSv per year or an equivalent dose greater than 3/10ths of any relevant dose limit (see table 5.2 UK dose limits) must be designated as a classified worker by the employer under Regulation 20 of IRR99 .

If the Risk Assessment for an area or procedure shows that a member of staff is likely to receive annual doses greater than the local annual dose constraints as stated in table 5.3 then they should be considered for classification (Table 5.3 - Yearly Occupational Dose Constraints). Classification should not be performed retrospectively as a reaction to doses greater than the local dose constraints, but as a result of a comprehensive prior risk assessment.

The Classification process

If the prior risk assessment shows that classification may be necessary, the Radiation Protection Advisor (RPA) must be consulted. If an RPA agrees classification is justified the worker must undergo a medical examination to ensure they are fit enough to carry out the intended tasks. The following arrangements will apply:-

- This medical will be arranged by the University Health & Safety Department following a request from an RPA.
- The medical must be performed by a doctor approved by the Health and Safety Executive via the University's Occupational Health Department.
- A health record will be created and this will be completed by the doctor performing the medical and retained in the workers medical notes. This record is a legal requirement and must be kept for 50 years from the date of the last entry
- The medical must be repeated annually and the health record completed by the doctor at each medical. The radiation protection service will inform each classified worker and the UOA health and safety department 1 month before the medical is due.
- A classified worker's pass book will be issued to the individual and will contain a cumulative annual dose assessment and medical classification. A dose estimate should also be completed for any period when the worker enters the controlled area of another employer. The pass book will be kept by the Radiation Protection Service and issued to the worker as necessary.

Monitoring Arrangements

Monthly personal monitoring TLD body badges will be issued to every classified worker, along with extremity and eye badges if appropriate. **It is a legal requirement that the worker wears their personal monitoring badges whenever they enter a controlled area and return them at the end of the wear period.**

Dose investigation levels are established by the Radiation Protection Advisor (Table 5.5 - UOA dose investigation levels).

The Radiation Protection Service will identify any doses above this level and instruct the RPS for the area to investigate. The results of this investigation will be reported back to

the RPA who will escalate the findings to the Heads of department and the University Radiation hazards sub-committee as appropriate.

If a worker exceeds the dose limits stipulated in IRR99 (Table 5.2), the HSE will be informed and a formal investigation will then undertaken. The worker will not be permitted to carry on working with ionising radiation until this investigation has been completed. Depending upon the outcome of the investigation, further dose constraints may be imposed upon the worker

Pregnant Workers

Any pregnant workers may have their duties changed to ensure that the dose to the foetus does not exceed 1 mSv for the declared term of the pregnancy. It is the responsibility of the worker to inform their line manager if they are pregnant to allow a risk assessment to be performed.

Termination Record

If the classified worker changes employer or retires, the Radiation Protection Service will request a termination record from the dosimetry service. This record will summarise the dose information for the employee for the period they were a classified worker.