

Radiological Clearance/Decommissioning Proposal

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| Report from  |  |
| Position |  |
| School |  |
| Building and room number |  |
| Description of area |  |
| Date of report |  |
| Purpose of clearance  |  |

1. History of radiation use in laboratory & survey strategy

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| Radioisotopes known (or reasonably suspected) to have been used in this area |
| Tritium [ ]  | Carbon 14 [ ]  | Phosphorus 32 or 33 [ ]  | Sulphur 35 [ ]  | Iodine 125 [ ]  |
| Other [ ]  details …… |
| Insert details of research groups/types of activities performed |
|  |
| Map of laboratory indicating areas of radiation usage attached (Tick if yes) | [ ]   |
| Map of areas to be monitored for contamination attached (see guidance below) (Tick if yes) | [ ]  |
| Confirmation that:* all cupboards/drawers/fridges and freezers have been searched
* all radioactive materials have been identified
* all radioactive materials have been removed
 | [ ] [ ] [ ]  |
| Comment if necessary: |
|  |
| Method of contamination monitoring (surfaces) |
| Tritium/Carbon 14 | *Indirect contamination monitoring* using wipe tests and liquid scintillation counting |
| Wipes taken using |  |
| Details of liquid scintillation counter and programme to be used |  |
| Proposed action level  |  |
| Phosphorus 32 or 33 | Direct contamination monitoring using  |  |
| Proposed action level |  |
| Sulphur 35 | Direct contamination monitoring using  |  |
| Proposed action level |  |
| Iodine 125 | Direct contamination monitoring using |  |
| Proposed action level |  |
| Other  | Direct contamination monitoring using |  |
| Proposed action level |

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| Guidance on monitoring of radiation laboratories |
| Sinks and draining boards used for the disposal of aqueous radioactive waste | Sinks/drains will be flushed with copious amounts of water. The draining board, sink and plug hole will be monitored. |
| Sink traps from radiation sinks  | Following flushing with water the sink traps will be disconnected and monitored internally using a wipe test.  |
| Drainage  | Open ends of connected pipework will be monitored. Depending on the type of isotopes used and the drainage plans further investigations may be required.  |
| Fume hoods used for work with radioactivity | All internal work surfaces and aqueous waste disposal sinks will be monitored as above. Gaseous extract points will be monitored using wipes. |
| Equipment | All equipment in the room will be monitored (all external and internal surfaces) including fridges, freezers and cold rooms. Samples of freezer ice will be counted by liquid scintillation. |
| Benches and cupboards | A matrix of bench space will be monitored, including areas of known usage. Cupboard handles and under bench furniture will be monitored.  |
| Floors  | A matrix of the floor will be monitored. |
| Further points where radioactive contamination is reasonably foreseeable; e.g. handles, switches etc. | Monitored.  |

1. Proposed Remediation Strategy

Attempts will made to remove all identified contamination using moist paper wipes initially and then subsequently using *[insert method e.g. Decon solution]* as appropriate.

Areas where contamination remains fixed in spite of efforts to decontaminate will be highlighted in the decomissioning report to H&S Services. H&S Services, the School RPS and where necessary the RPA will advise on further action to be taken.