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## Enhanced Radiological underpinning of Radiological Instrumentation

1. Production of AWE installed RI condition survey report
2. Collation of current AWE installed RPI monitoring requirements. Production of a technical review report assessing performance of the existing installed RPI in line with IRR99 and current assurance requirements

# INF/05/04 Part 1



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## Production of AWE Installed RPI Condition Survey Report

- RIS Technical Evaluation of Existing In-Service Installed RPI
  - Number in Service
  - Deployment
  - Manufacturers Support
  - Capability to Support In-house
  - Performance Analysis
- Produce Final Report
  - RPI Condition
  - Asset and Type Consolidations
- Report Recommendations Accepted
  - Head of Profession & RPA Technical Meeting
  - Peer review by British Nuclear Group RPA



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## Production of AWE Installed RPI Condition Survey Report

### Findings

- 47 Installed radiological protection instruments identified
- Serviceability;
  - Good - 21, Fair - 15, Poor - 9
- 43 of the 47 installed radiological protection instruments in use at AWE, are fit for purpose
  - Full manufacturers' support - 17, limited support - 19
- Where instruments have been identified as obsolete, there are sufficient spares or similar instrument types to meet the life expectancy of the equipment whilst replacements are sought and procured.



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## Production of AWE installed RI condition survey report

### Recommendations

- The recommendations from the individual Condition Surveys to be actioned in consultation with the users and RPAs.
- Commence procurement action of:
  - Smear counting systems
  - Single hand monitors
  - Dual hand monitors
  - Upgrade to the IS609 CAM
  - Upgrade or replacement of the Tritium monitoring system



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Production of a technical review report assessing AWE future installed RI requirements in line with IRR99 and instrumentation developments

## Conclusions

- The range of instruments available in all facilities and the calibration protocols used are generally suitable and sufficient, when judged against the information supplied.
- An issue has been identified relating to the setting of alarm levels based on statistical calculations.
- The wide range of temperature and humidity in a number of facilities is a factor that needs investigation.
- Gas monitoring facility issues with current system capability.