



BNFL

**National Good Practice
Guide: Airborne Radioactive
Particulate in the Workplace**

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BNFL Instruments

History to Date



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- Meeting Feb 2003
 - Scope the document
 - Broad Test Categories
 - First WG Draft May 2003
 - Review Meeting Sep 2003
 - Second WG Draft May 2004
 - Review Meeting July 2004
 - Abridged Document issued to ARMUG Nov 2004

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- Abridged document agreed
 - Scope
 - Contains summary tables of test required
 - Removed sections
 - Source construction
 - Appendices: leakage, uncertainties, alarm settings
 - Addenda may be added later
 - Final details of testing to complete

Types of Equipment



- Airborne Particulate Monitors
 - Normally some alpha spectrometry
- Airborne Particulate samplers
 - Dust samplers
- Laboratory Counting Equipment

Periodic Tests - Air Samplers



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- Parameter Check
 - Pump Test
 - Flow rate accuracy
 - Low flow alarm
 - Low differential pressure alarm

 - Flow Rate Leakage - TBFU

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- All air sampler tests
 - Response test
 - Background
 - Activity Alarm
 - Detection Efficiency
 - Nuclides recommended by manufacturer

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- All Periodic Tests
 - Energy Response
 - cover energies encountered in the workplace
 - Cross Response
 - Check beta rejection by alpha channel
 - Gamma compensation
 - Over Range Test
 - Geiger only monitors

Periodic Tests - Lab Equipment



- Parameter check
- Response Test
- Background
- Activity alarm test
- Detection efficiency
- Energy Response - TBFU
- Cross Response - TBFU
- Linearity - TBFU

The Future



- Aim for 3rd WG Draft in early 2005
- Submission to ARMUG 2005
- Additional reference information added in later years