

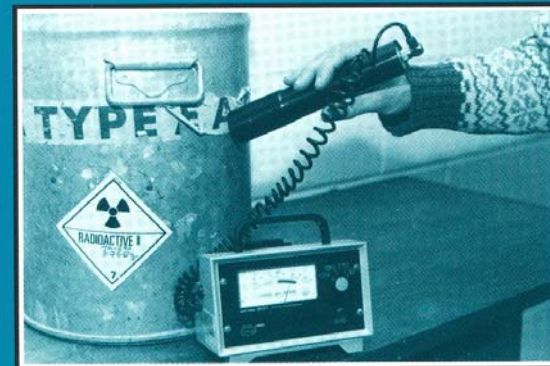
GPG14 Revision

Pete Burgess

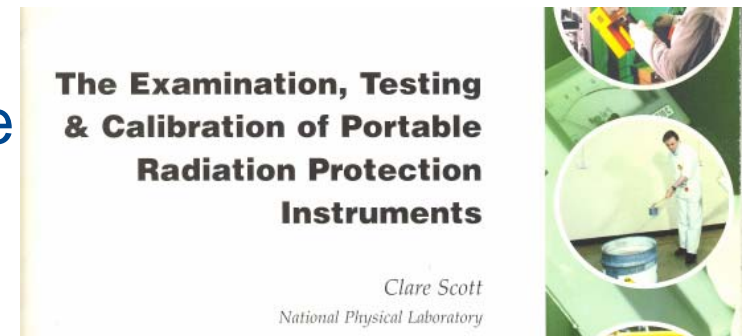
- IRR 1985 – instruments shall be appropriately tested
- How – nothing said
- First attempt – a document for BNFL Sellafield addressing their portable kit and circumstances

- HSE commissioned guidance – HS(G)49
- Based on a very expanded version of the Sellafield document.

The examination and testing of portable radiation instruments for external radiations

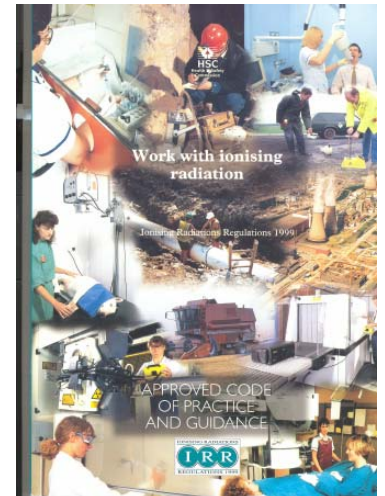


- HSE withdrew prescriptive guidance.
- Asked the IRMF to take on provision
- GPG14 – a fairly broad revision of HS(G)49
- Very successful, used round the
- Lead on to GPG29, 30 etc



Now time for revision

- Comments received –
 - advice on interpolation for photon contam monitor responses
 - development of the contiguous portions method.
 - updating for the IRR 1999 regs
 - QP was a legal appointment, now it isn't



- Smart probes and interchangeability
- Light leakage for dose rate scints
- The problem of tying type test data to observed responses
- Dose rate instruments with energy responses which can show variation in the 100 – 250 keV range



- More encouragement in the use of point sources for linearity testing
- Auto-ranging instruments – do we need to test each decade? Are there relays which we don't know about?
- Energy response confirmation for high dose rate detectors
- More guidance on testing after repair such as refoiling

- Bring references up to date, especially IEC
- **Much** more guidance on dealing with non-uniform contam sources
- Dealing with dose rate monitors with really low responses at 90° but which are generally OK at slightly smaller angles – enrgy comp end window GMs

- QP training and competence – the statement in IRR99
- “Qps have to be fully conversant with, and have knowledge and understanding of, currently accepted testing standards and relevant technical guidance.”
- How do we ensure this?

- Lots to do
- NPL will:
 - Review all the suggestions
 - Incorporate those which are well supported and clearly a good idea
 - Circulate those where there is a need for discussion
 - Produce a draft for comment

When?

- Draft before the next meeting.