



The DCS4 Dose Control System in use by Cavendish Nuclear

Dosimetry Services

Cavendish Nuclear is a leading provider of approved dosimetry services (ADS) to the UK nuclear industry, covering an extensive range of personal dosimetry requirements for over 130,000 people in the UK.

UK legislation (The Ionising Radiations Regulations 1999) requires that dosimetry services for classified radiation workers are formally approved by the Health and Safety Executive.

Dosimetry Services can only call themselves an ADS if formally approved. The Radiation (Emergency Preparedness and Public Information) Regulations 2001 (REPIR) require that any ADS providing services to be used for emergency exposures, eg for nuclear installations' emergency plans, must have additional approval from the Health and Safety Executive.

The Berkeley Approved Dosimetry Service (ADS) includes an assessment service PDS (Personal Dosimetry Service) and a co-ordination and Central Dose Records Service (CDRS). The ADS has been a leading provider to the UK

nuclear industry for the past 50 years.

The ADS is approved for both IRR99 and REPIR and has been a working member of the European Radiation Dosimetry Group (known as EURADOS) since 1986. The ADS organised the EURADOS 2010 intercomparison for whole body dosimeters under contract to EURADOS. The ADS is the world leader in the use of electronic dosimeters (EPDs) for legal Dosimetry. It is still the only significant service in the world to have government approval to use EPDs for legal dosimetry with the first site, Oldbury Power Station in Gloucestershire, gaining approval eleven years ago in June 2000.

The EPD Service now has 19 nuclear site licence holders as clients. Data is processed and assessed for approximately 100,000 entries into controlled areas per month.



Preparation of extremity dosimeters

The ADS also operates an on-line integrated network for personal dosimetry and dose records providing services for all EDF and Magnox Power Stations, Devonport Royal Dockyard Limited and a substantial number of nuclear contractors.

The ADS can supply passive dosimetry for whole body, extremity, neutron and environmental requirements and a full range of internal dosimetry services can also be provided.

CDRS is one of the largest dose record keeping services in Europe with data currently held for over 130,000 persons. CDRS provides essential client support including Site Licence 18 compliance monitoring (for doses to specified groups of workers), monthly and annual dose statistics for the EDF and Magnox Annual Company Reports, investigations and information for the Compensation Scheme for Radiation Linked Diseases and annual returns to the Health Protection Agency for the National Registry for Radiation Workers (NRRW).

CDRS also maintains the epidemiology database EUCLID (Epidemiology Unit Compilation of Life Information and Dose) which contains historical dose record information for all former CEGB licensed sites from site commissioning up to 1985.

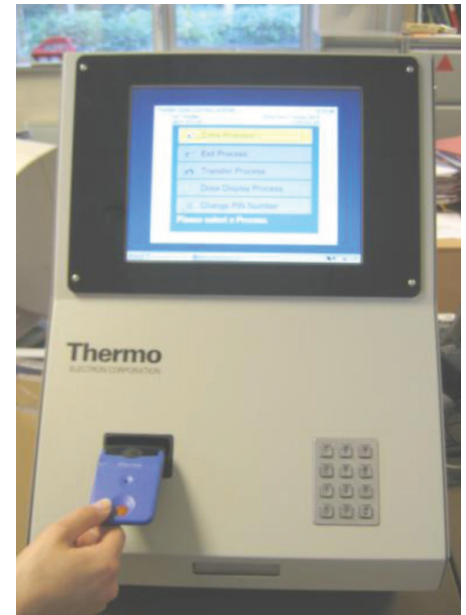
Scope of Capability

Personnel Dosimetry Services

- Co-ordination and dose record keeping
- Electronic Dosimetry
- Passive Dosimetry
- Internal Dosimetry Services
- Bioassay Services
- Dose Assessment Services
- Priority dosimeter assessment
- Exposures received in any special accident, incident or occurrence
- Exposures received in intervention (REPPIR)

Record Keeping

- Record Maintenance
- Provision of Corporate Dose Statistics
- Reporting and on-line Information
- National Registry for Radiation Workers returns
- Compensation Scheme for Radiation Linked Diseases
- Radiation Pass Book Supply
- EPD system audits



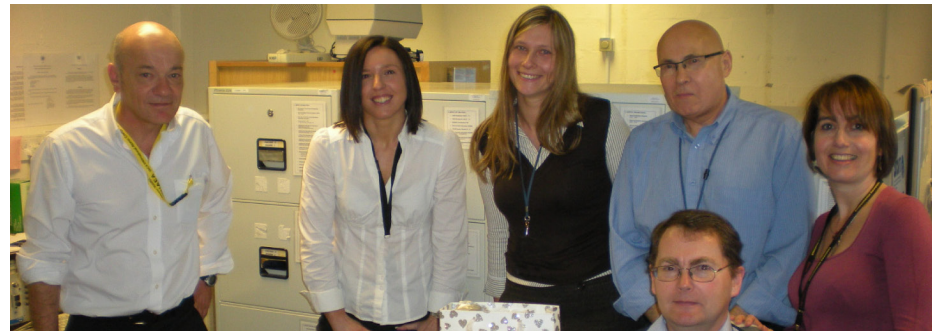
Thermo Fisher ACT System

Emergency Dosimetry Services

Environmental Dosimetry Services

Consultancy Services

Accreditations & Approvals



Cavendish Nuclear's ADS Team

Project highlights

- HSE Approved Dosimetry Service
- Personal Dosimetry Service
- Central Dose Record Service
- Dose record keeping for over 130,000 persons
- Emergency Dosimetry Services
- Environmental Dosimetry Services
- Consultancy and Advice
- Accreditations and Approvals

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