

Australian Government

Australian Radiation Protection and Nuclear Safety Agency



Australian National Radiation Dose Register

Ben Paritsky

What is the ANRDR?

- Ensures longevity of dose records
- Originally established in 2010 for the uranium industry
- Opened to all industries limited uptake
- Mandatory for all ARPANSA licence holders





Snapshot



More than **48000** individual dose records in the ANRDR going back 30 years Estimated to be more than **80000** radiation workers in Australia today – only a small portion

are being captured

in the ANRDR



The average dose of workers last year was **0.77** mSv



of workers had a dose of **<1mSv** last year

Highest dose recorded in 2018 was **6.91 _{mSv}**

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59

dose history requests received by ARPANSA last year

ANRDR vision

To achieve complete coverage of all occupationally exposed workers in Australia

Advisory Board

- Established in 2019 to advise ARPANSA on ANRDR matters
- Fully independent
- Consists of state/territory regulatory representatives
- Driven by ARPANSA
- Ownership of ANRDR strategic direction



New model – DSP submissions

On direction from the Advisory Board, the ANRDR is changing its model from employer submissions to dosimetry service provider (DSP) submissions

- Only way to achieve full coverage how we measure success
- Reduces the burden on employers (1000s of employers vs 5 DSPs)
- International best practice Successful models in Canada and Europe
- Part of future DSP Accreditation Scheme

Accreditation scheme for DSPs

- Led by the Victorian Department of Health
- A single point of accreditation recognised by all jurisdictions
- Identified as an area for improvement by the IAEA Integrated Regulatory Review Service mission to Australia in 2017
- Awaiting endorsement in Vic before returning to the RHC for development of the national accreditation standard
- Requirement on DSPs for data submission to the ANRDR



Challenges



- Privacy as a perceived risk
 - Basic personal information for identification purposes
 - Dose records <u>not</u> classified as health or sensitive information
 - Compliant with the Australian Privacy Principles
 - Privacy Statement and Privacy Impact Assessment
 - Benefits greatly outweigh the risks
- Electronic personal dosimeters
- New technologies

Next steps

PilotWork with DSPs to develop the systemsprogramnecessary to achieve provision of doserecords to the ANRDR



All stakeholders were consulted on the development of the data transfer specifications

All providers to participate

How will this affect you?

Provide lifetime* dose histories

- Consolidation of records in one location
- Work planning, new employment

Enhance regulatory control

• Notification of overexposures (multiple jurisdictions), flagging anomalies

Analysis to characterise the occupational exposure situation at the national level

• Maximums/averages across industries, workgroups and jurisdictions

Improve radiation protection in the workplace

Awareness and dose optimisation

Contribute to health research and scientific knowledge

• Epidemiology, IAEA, UNSCEAR, etc.





Connecting People, Developing Solutions for a Changing Environment Christchurch, New Zealand

28 November to 30 November

The program will cover all aspects of environmental radioactivity

For more information please visit

www.spera2022.nz

Thank you

anrdr@arpansa.gov.au

