11:15 AM 45 min

12 **Workforce - Radiation Protection**

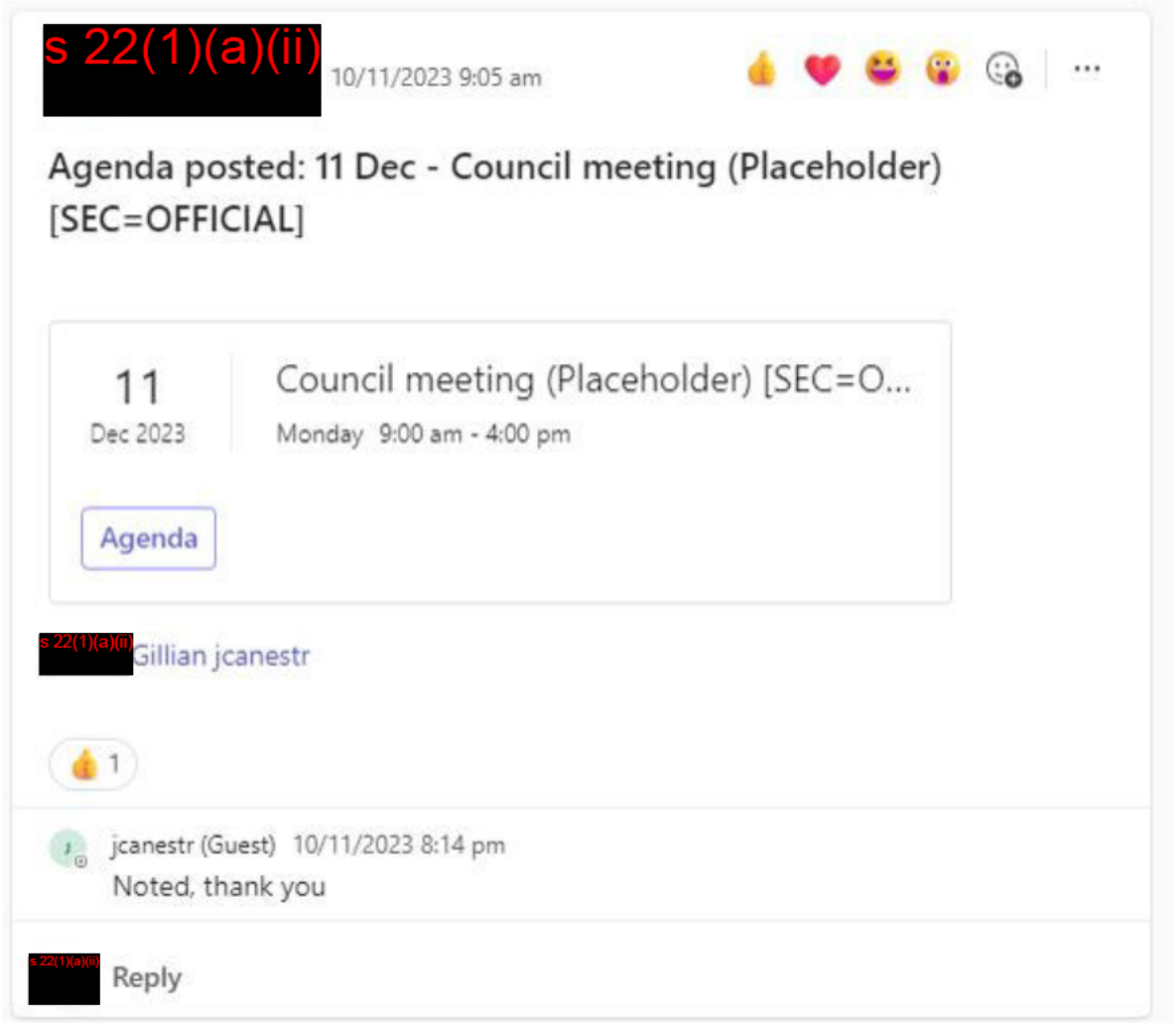
Discussion of challenges for building a future Radiation Protection workforce, including:

- Growing need for an increasing number of radiation protection workers
- Strong competition nationally for radiation protection workers
- Need to ensure sufficient workforce for practitioners and regulators and be mindful of conflicts of interest
- Noting that a National Strategy on radiation protection workforce is needed

Outcomes:

- Discussion including PM&C representatives (TBC), and Council members to build awareness of workforce concerns

See less



s 22(1)(a)(ii) 29/11/2023 9:57 am

ANNPS Bill 2023

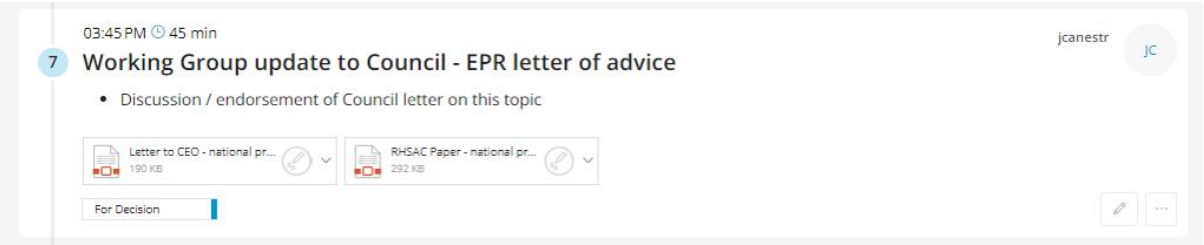
Hi Council members- you may have noticed the other week that an **Australian Naval Nuclear Power Safety Bill 2023** was tabled in Federal Parliament. FYI: The passage of the **Bill can be tracked here**, and you can read the **Deputy Prime Minister's media release**. The Dept of Defence are also releasing a **fact sheet and discussion paper**.

Australian Naval Nuclear Power Safety Bill 2023
Helpful information Text of bill First reading: Text of the bill as introduced into the Parliament Third reading: Prepared ...
www.aph.gov.au

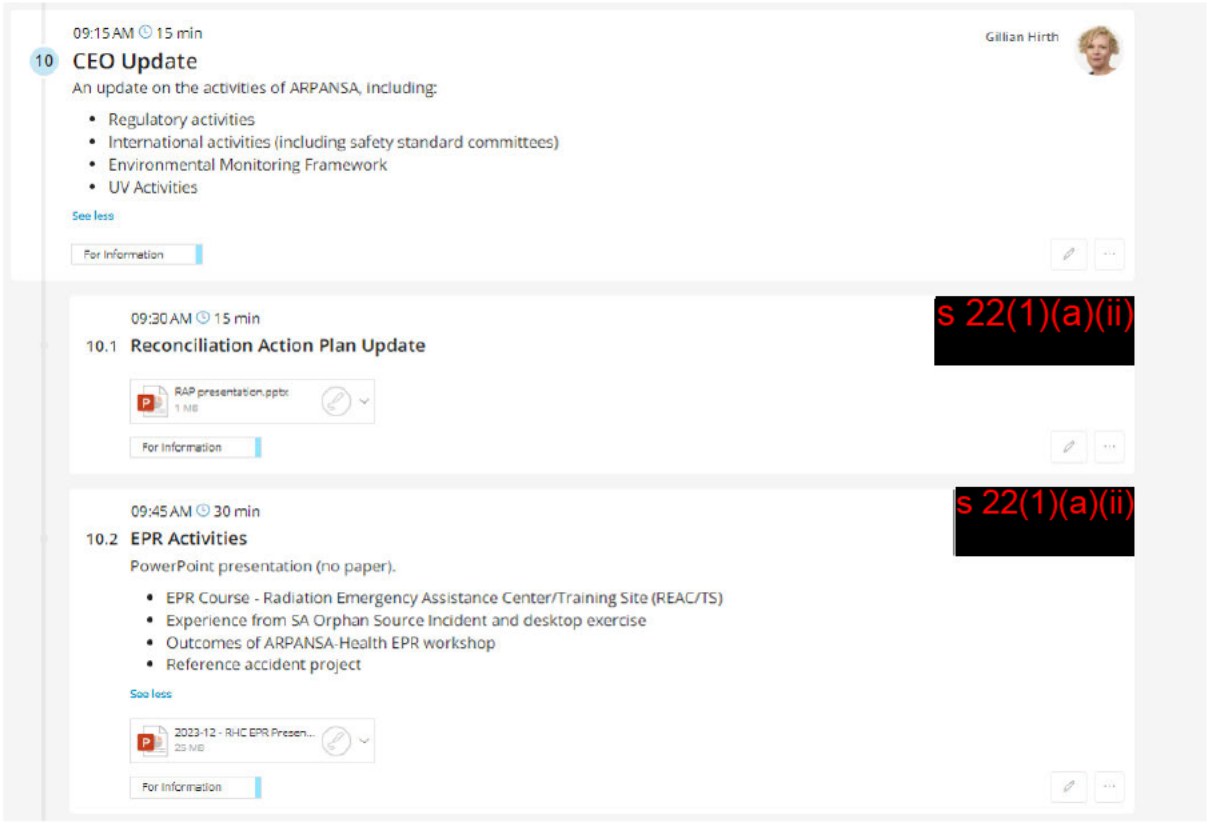
👍 2

jcanestr (Guest) 30/11/2023 4:08 pm
Thank you. The discussion paper provides informative reading

s 22(1)(a)(ii) Reply



Document 6



09:15 AM 15 min

10 **CEO Update**

Gillian Hirth

An update on the activities of ARPANSA, including:

- Regulatory activities
- International activities (including safety standard committees)
- Environmental Monitoring Framework
- UV Activities

See less

For Information

09:30 AM 15 min

10.1 **Reconciliation Action Plan Update**

s 22(1)(a)(ii)

RAP presentation.pptx
1 MB

For Information

09:45 AM 30 min

10.2 **EPR Activities**

s 22(1)(a)(ii)

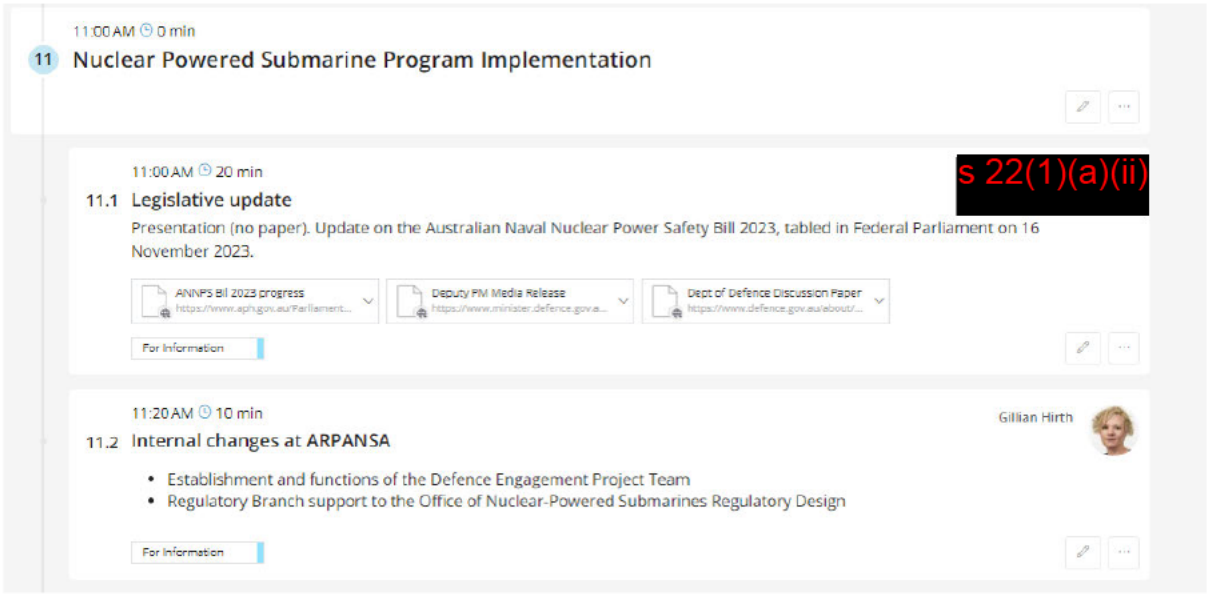
PowerPoint presentation (no paper).

- EPR Course - Radiation Emergency Assistance Center/Training Site (REAC/TS)
- Experience from SA Orphan Source Incident and desktop exercise
- Outcomes of ARPANSA-Health EPR workshop
- Reference accident project

See less

2023-12 - RHC EPR Presen...
25 MB

For Information



Australian Government
Australian Radiation Protection and Nuclear Safety Agency

arpansa

EPR Presentation

RHSAC & RHC Joint Session Dec 2023

Scope

1. Radiation Emergency Assistance Center/Training Site (REAC/TS) Course
2. Support to SA Missing Source Incident
3. ARPANSA-Health EPR workshop
4. Reference Incident Project

REAC/TS Course Overview

- 4-day course on the medical management of radiation injuries
  - Joint initiative between ARPANSA and REAC/TS
  - held 16-19 Oct 2023 in Melbourne
  - 28 participants involving doctors, nurses and paramedics, representative from every Jurisdiction
- Engaging Content
  - Lectures on radiation health effects
  - Case Studies
  - Practical exercises
- Participants gained an improved understanding on managing a patient affected by radiation

The Radiation Emergency Assistance Center/Training Site (REAC/TS) is a world-renowned, U.S. Department of Energy asset and a leader in emergency medical response to radiological/nuclear incidents. REAC/TS provides emergency response and subject matter expertise on the medical management of radiation incidents for the National Nuclear Security Administration's (NNSA) Office of Counterterrorism and Counterproliferation. REAC/TS is located at the Oak Ridge Institute for Science and Education in Tennessee and is operated for DOE by ORAU

REAC/TS Course – Next Steps

Lessons Identified:

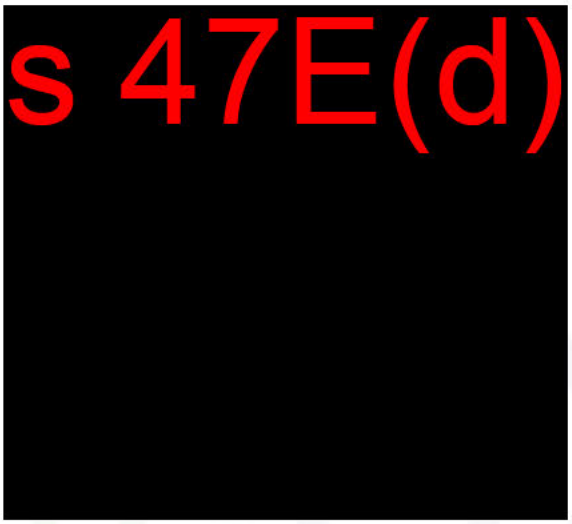
- Need to investigate domestic capability and capacity to carry out Dicentric Scoring.
- Low awareness about radiation in the broader medical professions in Australia.
- Screening mass casualty exposures to radiation in Australia needs improvement to procedures and exercising.

What Next:

- Further training in Australia using REAC/TS material
  - Train-the-trainer and Australian lead courses
- Medical stockpile assets and access mechanisms
- Radiation dosimetry and uniformity in dose exposure settings

Support to SA Missing Source

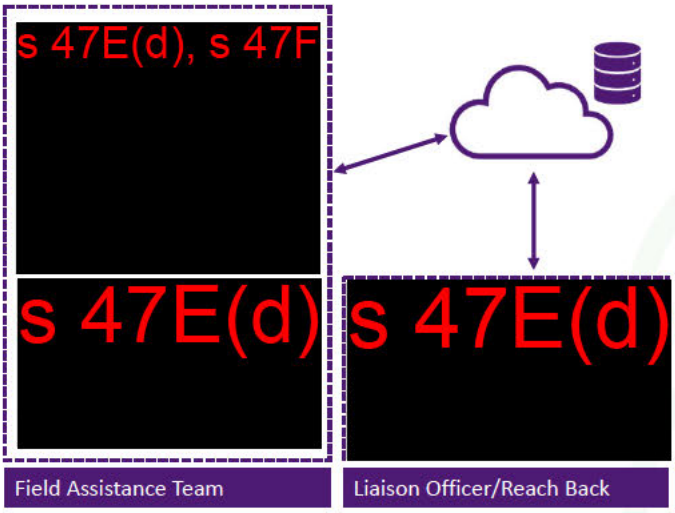
- ARPANSA responded to a lost source incident in SA
- 30 MBq Co-60 source was lost 300 km north of Adelaide in Whyalla at a steelworks
- 3-person team deployed:
  - 2 person Field Assistance Team searched the steelworks with a gamma detectors
  - LO embedded with SA EPA in Adelaide
- The source was not located, high likelihood it is still onsite



- ARPANSA responded to an MOU request by the SA EPA to assist in finding a lost radioactive source in Whyalla SA
- A team of 3 staff members consisting of a 2 person Field Assistance Team equipped with radiation detection equipment as well as a liaison officer to be based in Adelaide were sent to help with the search

Deployed iAVID to Whyalla, SA
Much smaller source ≈ 30 MBq
More complex environment
Smooth integration

Support to SA Missing Source



What Next:

- Improve understanding of capabilities between agencies
- Ability to deploy resources from one jurisdiction to another
- Sharing of expertise, experience, data
- Joint exercising

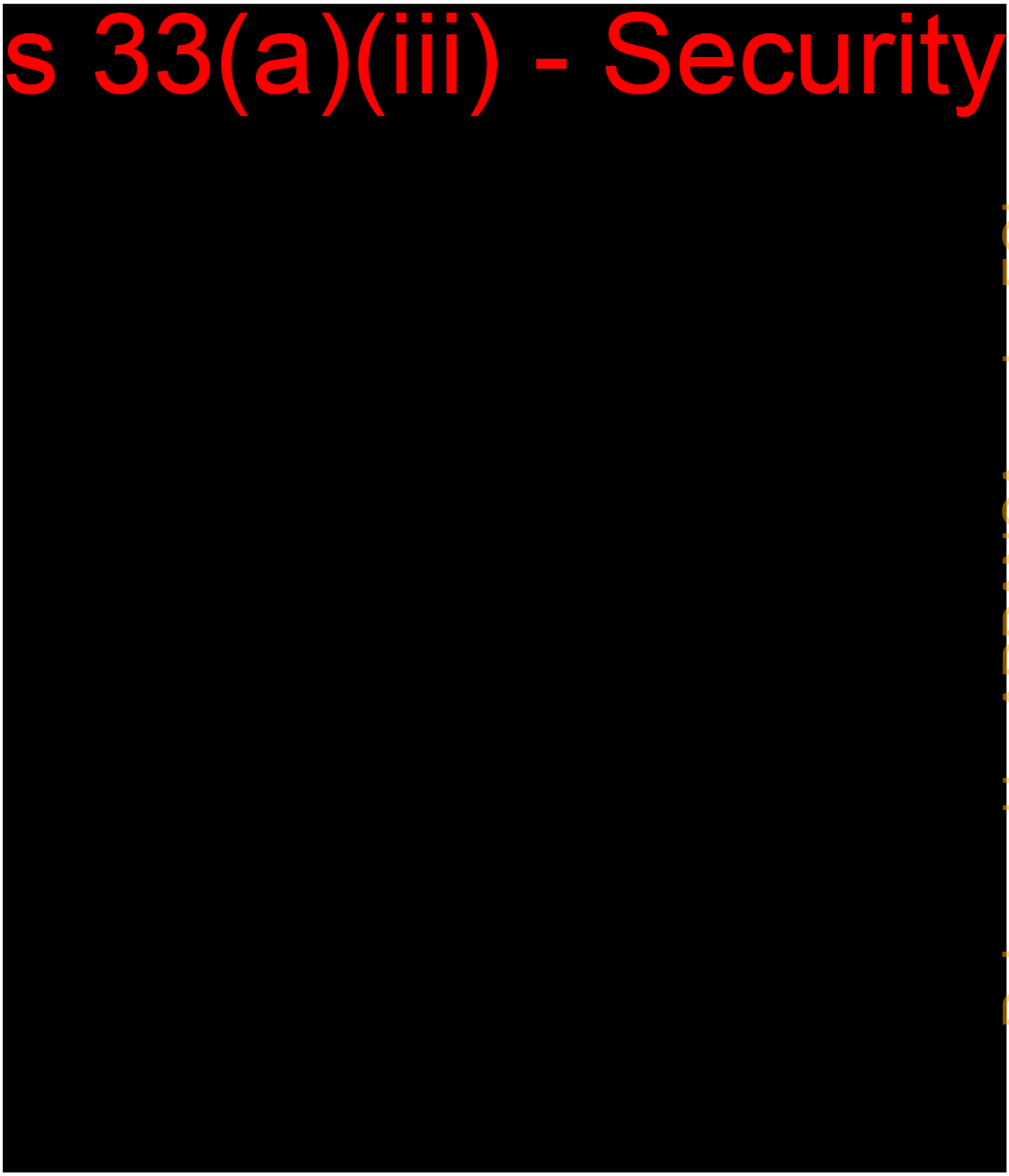
ARPANSA-Health EPR workshop

- Roundtable between ARPANSA and Department of Health and Aged Care Emergency Management Division
  - Helen Grinbergs (FAS of Emergency Management Division), David Ness (Health Emergency Management), Olivia Mahn (National Medical Stockpile)
- Topical Sessions on EPR Arrangements & EPR Co-operation
  - EPR Capability and Capacities
  - Australian Centre of Disease Control (ACDC)
  - Exercise Arctic Rhein in Norway
  - National Medical Stockpile

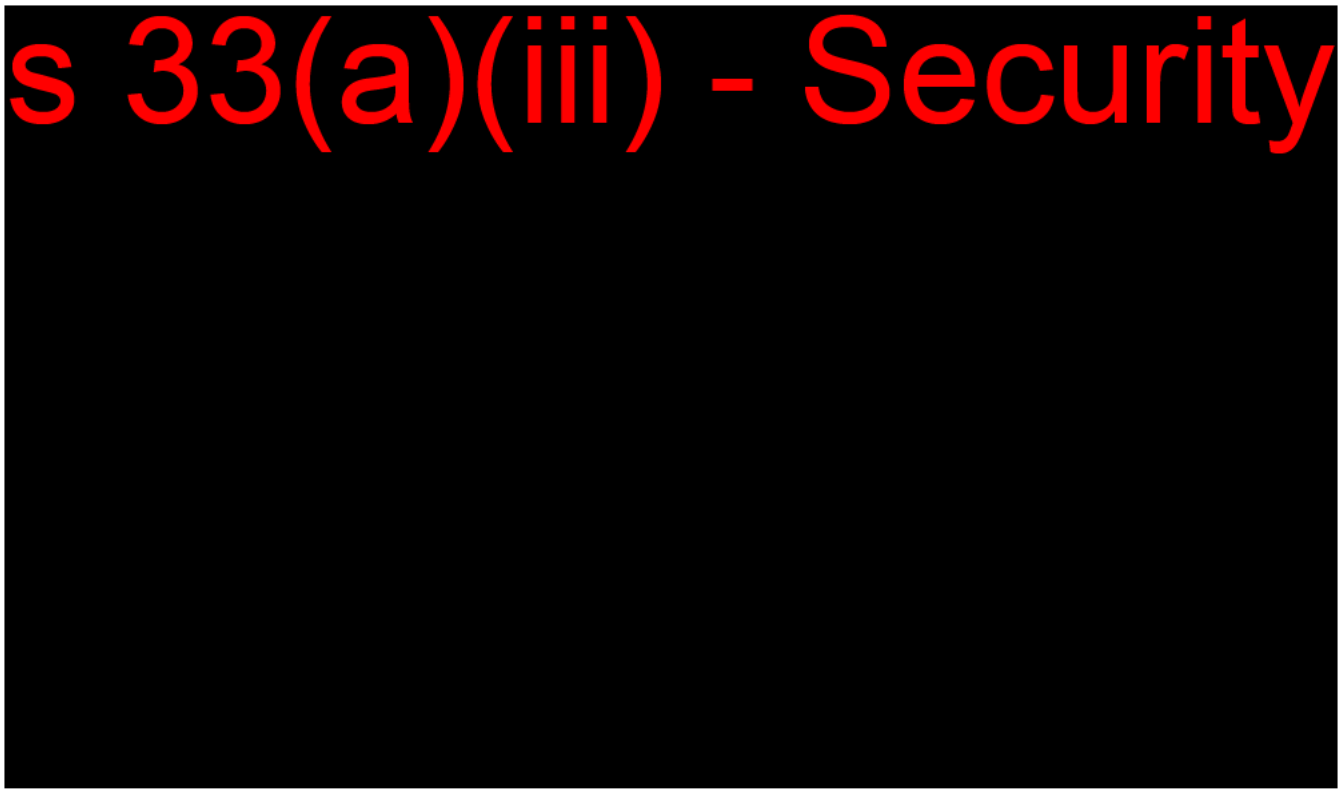
ARPANSA-Health EPR workshop

Key Outcomes:

- Explore the establishment of an MoU between DoH and ARPANSA on EPR.
- ARPANSA and DoH to support a national radiological plan recommended as part of the PM&C review of the Australian Government Crisis Management Framework (AGCMF)
- Explore a mechanism for ARPANSA to access DoH call centre function with Services Australia.
- Investigate review of Australian Clinical Guidelines for Radiological Emergencies to better support National Medical Stockpile.
- Explore options for hosting 'Silent Thunder' style exercise domestically.



s 33(a)(iii) - Security [redacted]



Thank you

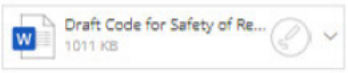
ARPANSAGovernment ARPANSA ARPANSANews ARPANSA

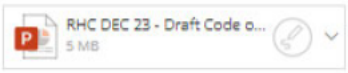
09:00 AM 30 min

11.1 **Implications for Australian Codes and Standards framework**

s 22(1)(a)(ii)

(No covering paper - verbal presentation). Update on work underway to accommodate nuclear safety into the codes and standards framework for Australia.





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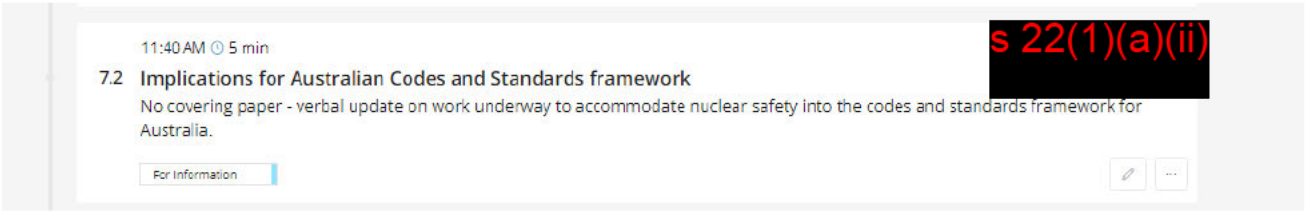
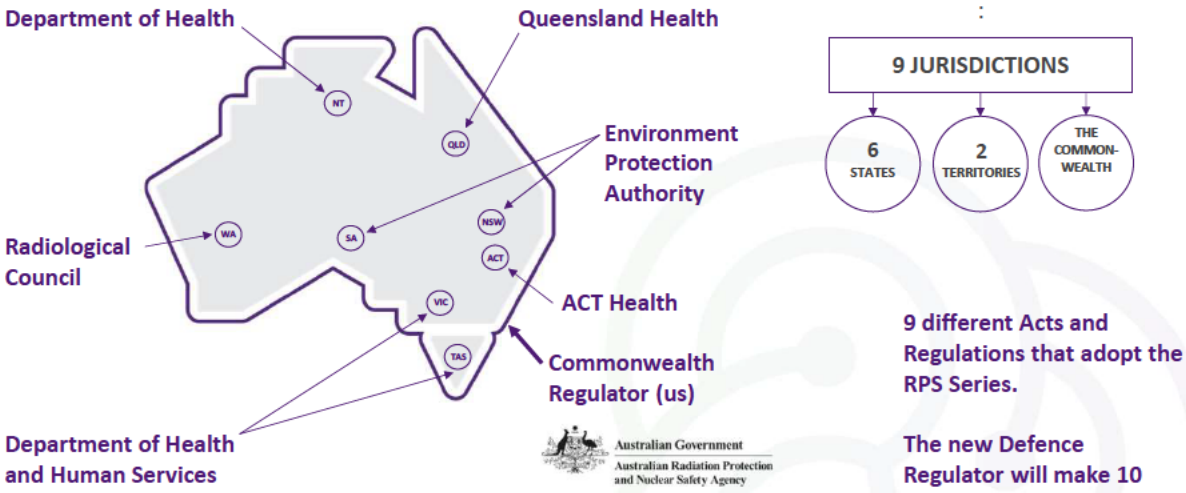


Details for the *Code on the Safety of Reactor Facilities*

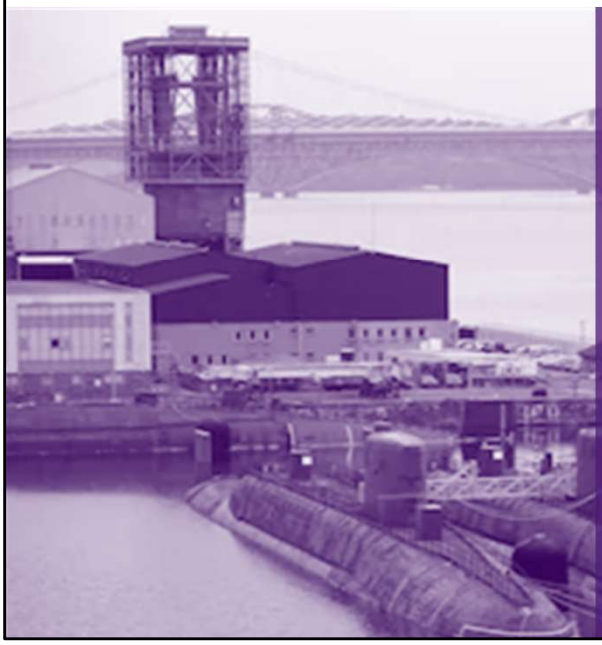
Code was developed to fill a gap in the Radiation Protection Series as there's currently no document that covers the safety of nuclear reactors. It has been based on the IAEA Specific Safety Requirements for a Research Reactor and the Specific Requirements for a Nuclear Power Reactor and has been tailored so it fits in with the Australian regulatory environment and can be applied to both research reactors and Nuclear Submarines

Justification for the New Code



As I mentioned before there's no documents in the RPS that covers Nuclear Safety. There's 9 different jurisdictions and regulators across Australia which adopt the RPS and soon there will be 10 when the Australian Naval Nuclear Powered Safety Regulator for Defence is stood up.

The Case for a new Code Continued



- The Australia Navy **Nuclear Powered** Submarine Regulator is aiming to be established in July 2024.
- **Risk** of two separate regulatory frameworks being set up which will create ***inconsistency and confusion***
- Risk of complex regulatory interfaces between defence and civilian frameworks creates ***regulatory burden*** for shared licence holders.
- ***Inconsistent*** application of IBP across Australia, between 10 regulators.
- Social licence may be degraded if civilian and military standards are inconsistent.

This new regulator or ANNPSR is aiming to be established in July 2024. If the RPS current documents do not meet their requirements there's a risk they may set up their own regulatory framework in terms of codes and standards that they expect their licence holders to follow. This creates a risk of complex interfaces between defence and civilian licensed entities which could lead to confusion as well as regulatory burden. There would also be a risk if inconsistent application of International Best Practice since the new regulator would be developing documentation that is not subject to the scrutiny of yourselves, the RHSAC and the Nuclear Safety Committee. It also means that social licence could be degraded if there are inconsistent requirements being applied across civilian and defence licence holders

The first step to trying to solve this issue is the production of this new code. There are plans for more standards and codes to follow to cover other areas important to nuclear safety in 2024. The code was developed with our contract Mr David Senior. He was formerly head of regulatory activities with the IAEA where some of his key roles were managing the Convention on Nuclear Safety and overseeing the Nuclear Safety Standards Committee. He was also Executive director with the UK ONR responsible for leading the regulation of UK nuclear submarine licensed sites.

Other points to Note

	Should not create new regulatory burden to ANSTO OPAL
	ANNPSR are aware and will also provide feedback.
	Will be first of a number of new documents created to meet the changing Australian Nuclear Environment

OFFICIAL

It should not create a regulatory burden to the one current licence holder it will apply to (ANSTO) – they already follow the IAEA requirements that thi code is based on. The defence regulator (or the ones setting up the defence regulator) are aware of the code and will be asked for feedback.

Request to the Committee

- Request review of the draft code out of committee (will be circulated after this meeting if agreed) and provide feedback

- If no significant changes are made from the consultation phase – possible request to approve final version out of committee if agreeable.