



Production and supply chain disruptions during the COVID-19 pandemic

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Science. Ingenuity. Sustainability.

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ANSTO | Sydney

Executive leader in nuclear, technology, mining, geoscience, operational and corporate roles in Africa and Australia

Manages nuclear medicine production, OPAL research reactor operations and nuclear waste operations

Executive Director of Australian Nuclear Medicine (ANM), and executive committee member of Women In Nuclear-Australia

Passionate about people development and diversity in STEM



Acknowledgement of Country



ANSTO – Introduction

A leader in nuclear science and technology

Operating safely for over 70 years

Managing over \$1.5 billion in scientific infrastructure

Approximately 1,350 skilled employees



TWO LOCATIONS

Lucas Heights campus

Australian Synchrotron

ANSTO's Lucas Heights campus.

OUR VISION



Nuclear science and technology for the benefit of all Australians

OUR MISSION



To deliver knowledge, value and trust through the application of nuclear science, technology and engineering

OUR STRATEGIC OBJECTIVES



1. **Deliver on Australia's priorities for the benefit of people, industry and the environment** through nuclear excellence in research and the use of national infrastructure



2. **Improve the health of Australians by supporting access to current and future nuclear technologies** for diagnostic, therapeutic and innovative treatments for current and emerging diseases



3. **Australia's source of nuclear expertise, advice and services** to governments, academia, industry, and community



4. **Lead the development of a nuclear capable workforce** aligned with government policy objectives

OUR VALUES

Curiosity

Leadership

Excellence

Working together

Trust + Respect

Safe. Secure. Sustainable.

ANSTO Business Resilience Framework for Pandemic

1. Monitor

- 1 Formal process to monitor and assess pandemic risks nationally and internationally via advice from Department of Foreign Affairs and Trade (DFAT) and Department of Health
- 2 Consolidate facts from World Health Organisation (WHO), Centre for Disease Control (CDC) and Federal Government website(s) into format available for staff to access

2. Review

- 1 Consider implementing a vaccination programme
- 2 Plan and policy for forced closure of site(s) and relocation of high business risk sites
- 3 Sick/ family leave/ work from home policies to advise sick staff to stay away
- 4 Stores holdings of items such as tissues, hand hygiene products, cleaning supplies and related personal protective equipment (PPE)

3. Implement

- 1 Communicate to staff what actions are being taken to prepare for a pandemic
- 2 Ensure each workplace has adequate supplies of tissues, hand hygiene products, cleaning supplies and relevant PPE including respiratory protective equipment (RPE)
- 3 Monitor staff who are ill and arrange contact with staff that are unexpectedly absent; o determine who they have been in contact with in the workplace; o inquire if they have someone able to care for them;
- 4 Infection control measures including: Travel restrictions
Personal Hygiene



Pandemic



Consequence
Assessment
Team



ANSTO Crisis
Management
Team

Actions to manage COVID-19

Wellbeing of people



ANSTO Actions

- WHS Act 2011-reasonably practical steps to protect health & safety of employees ✓
- Unwell persons barred from entering campus. ✓
- COVID online self-reporting tool for our staff ✓
- COVIDSafe induction for collaborators & platform users prior to coming onto site ✓
- Vulnerable workers identified. & supported to work remotely where reasonably practicable ✓
- Staff assigned into work teams to minimise the risk of business impacts resulting from a confirmed exposure or actual case of COVID-19 ✓
- COVID-19 Risk Management Course featured in the ANSTO Learning Management System ✓
- Leveraged technology to allow staff to work remotely ✓
- ANSTO Employee Assistance/ Manager Assist Program available for staff and immediate family ✓

Physical distancing



ANSTO Actions

- Workers complied with work team/working remotely arrangements ✓
- Minimised worker movements across Campus ✓
- Conducted meetings via Skype for Business/ Zoom ✓
- All persons to maintained 1.5m physical distance from others ✓
- Signage in place across Campuses ✓
- Minimise the number of workers in ANSTO vehicles at one time ✓
- Workers to not shake hands or exchange physical greetings ✓
- Re-arranged furniture to encourage physical distancing ✓
- Face to Face Training minimised to business critical compliance training only, by approval. Utilise LMS E-Learns ✓

Hygiene, cleaning and administrative controls



ANSTO Actions

- Increased frequency of cleaning ✓
- Additional disinfection of surfaces ✓
- ANSTO provided hand & hygiene sanitiser stations at building entries and other key locations ✓
- Infection control measures including: Travel restrictions Personal Hygiene ✓
- Provided additional cleaning materials in common use areas such as meeting rooms, utilities rooms, kitchen/ tea rooms ✓
- Stores provisions of additional COVID-19 supplies: hand sanitiser, face masks, gloves, tissues, surface wipes and other cleaning supplies ✓
- Incident reporting and notification to Comcare if required. Use of the Australian Government COVIDSafe app ✓
- Internal ANSTO Intranet – COVID-19 pages ✓
- Recording of visitors/ Emergency Pass contractors via the visitors declaration form ✓

ANSTO nuclear medicine COVID safe plan

Nuclear Medicine Bubble

ANM Operations Bubble

Individual Team Bubbles

TEAM

1



TEAM

2



TEAM

3



TEAM

4



TEAM

5



Strategy

- Existing roster provided 5 x rotating teams
- Increased precautions will preserve 'bubbles within a bubble' approach
- Training days worked remotely
- Reduced touchpoints and co-mingling
- Work management and distribution

Maintenance Engineering

As needs basis

Work to be managed with near contactless arrangements (in/out basis). A/B provides continuity measure

QA/QC Cellface and lab

Increased distancing & time management

14hr coverage – A/B provides continuity measure

Waste Management

Increased distancing

Waste transfers infrequent reduced (ie. Accumulate within OLCs & clear when required)

OPAL

Contactless - regular

Pickup & drop-off arrangements
Little to no overlap with ANM bubbles

Supply chain receiving and dispatch

Contactless - regular

Pickup & drop-off arrangements
Little to no overlap with ANM bubbles



ANSTO OPAL reactor business resilience



Ample storage of raw material and target plates



Segregation of teams-
Operations, Maintenance
& Utilisation minimal interaction



Postpone non-critical planned maintenance tasks



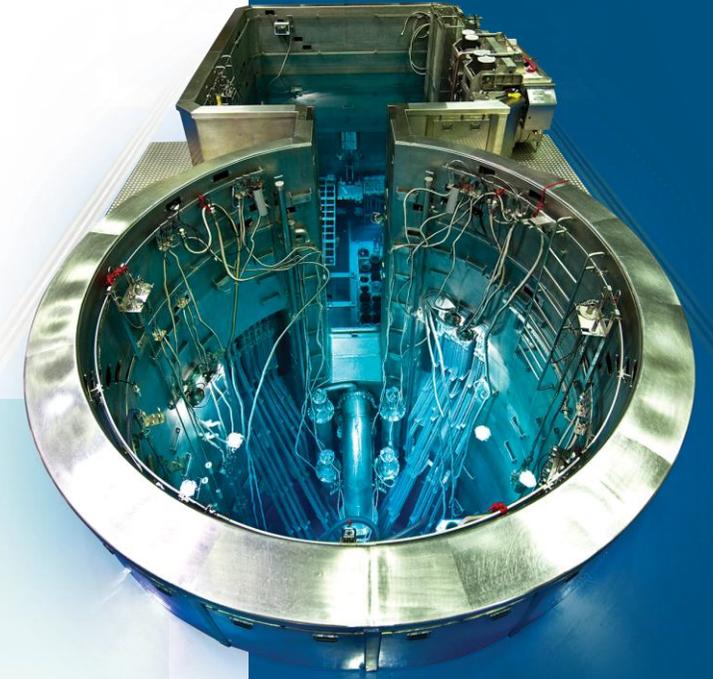
Support research via "Mail"
No international scientists were allowed to visit ANSTO - Samples were mailed and Australian scientists did the research



No movement of Silicon Irradiation or Silicon Warehouse staff
to non-designated buildings



Silicon irradiation was dropped by nearly 70%
to support nuclear medicine supply for Australians



Relationship and partnership in supply chain



30
YEARS

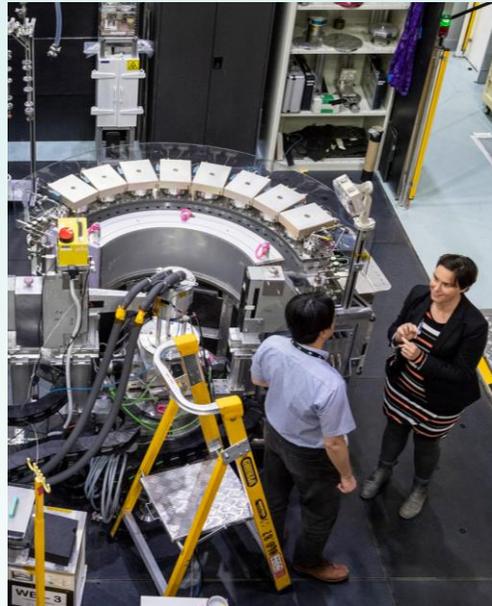
ANSTO

Infrastructure + Expertise = Capability

OPAL multi-purpose reactor



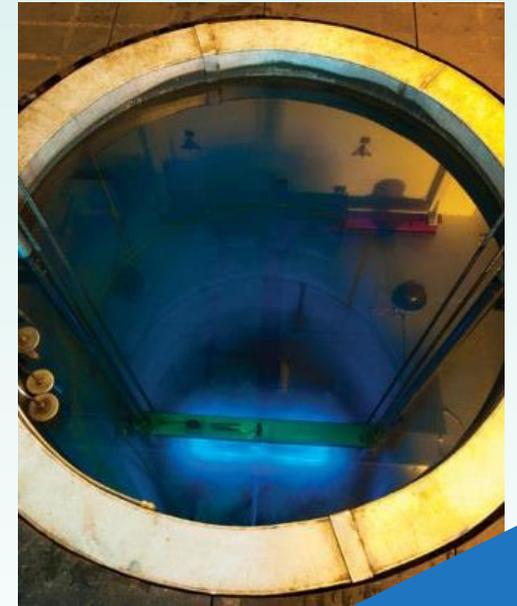
Australian Centre for Neutron Scattering



Centre for Accelerator Science



Other science facilities



Thank you

70
YEARS
Nuclear Expertise
1953-2023

