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Safe Work Method and Environmental Statement AF-2315

Refer to AG-2397 Explanatory Notes to Safe Work Method & Environmental Statement (SWMES) before proceeding.

SWMES file No.:	DC_Tours2Dec2026 WO No:		Jobsite specific induction required?	✓ Yes	□No
Location/ Building/ Area:	B65 Discovery Centre and site tour locations across site		SAC Reference for Project or Work Area:	☐ Yes SAC Refere	□ No ence No:
Planned Start Date:	Ongoing		Potential ionising radiation exposure:	✓ Yes	□No
Activity Description:	ANSTO visitor tours for School, Community and VIP visitor groups, groups of general public		Radiation survey performed:	☐ Yes ☐ N/A	✓ No
Responsible Officer: Rod Dowler		Radiation dose review level specified:	☐ Yes ☐ N/A	✓ No	
ANSTO Personnel: ANSTO Education Officers		Recommended dosimetry:	✓ EPD☐ Extremity	▼TLD	
Company Performing work:	ANSTO		Radiation Protection Advisor:		
Contractors Personnel: N/A		Work Health & Safety Advisor:			
Licences/ Qualification/ Tickets/ Train	ning (National/ state legislated operational	l licence):	Chemicals/ Substances/ Materials (SDS, store	age, spill control	, transport):
Senior First Aid Qualifications Working with Children Security Check (NSW Child Protection Prohibited Employment Act 1998) License to drive ANSTO bus (20 seats)			Cleaning Chemicals Hand Sanitiser Antibacterial hand sanitiser and antibacterial surface wipes		
Permits required (SWP, isolation, excavation/penetration, confined space etc):			Plant/ Equipment (Service certificates, registers, maintenance logs, pre-operational checks):		
			ANSTO Tour bus – 20 seat. Within registration, regular servicing conducted by motor pool and daily checks by staff Radiation Monitors – within calibration. Personal EPD and TLD. Mobile Phone.		
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ustodian: Leader, WHS Systems Effective Date: 23/06/20162026					

		Low level radioactive samples for demonstration purposes only			
Legacy Issues (Asbestos, Beryllium, Cadmium, Uranium,	Electrical)	References (ANSTO standards/ practices, legislation, codes, standards):			
Hazards Register		ABMS Documents for vehicle management			
N/A		Guidelines for motor vehicle management and use Motor vehicle safe driving guidelines			
<u>1974</u>		Guidelines in case of accident breakdown or theft of vehicle			
		Car pool faults checklist			
		ANSTO OHSE Management System Documents			
		Safety and security arrangements at ANSTO (guide) AG 2382			
		Information for visitors (guide) AG 2384 Working alone (guide) AG 2523			
		First aid and emergency medical care (guide) AG 2487			
		Personal dosimetry (guide) AG 2521			
Planning (notifying all affected staff, involving a planning committee, risk assessment, rescue, emergency, subject matter experts, health & safety, radiation protection, required isolations):		Consultation (Toolbox talks, review by subject matter experts, health & safety, radiation protection etc)			
Process reviewed with Team Leader, Discovery C		Ensure all building managers/area supervisors of locations visited are consulted			
Work Health & Safety		onsite regarding planned tours and control measures. Where possible, visitors will not interact physically with any ANSTO-identified critical staff e.g. nuclear precinct staff			
Notes					
In case of emergency contact the Site Control Cer					
		equently tests positive for COVID-19, becomes symptomatic of COVID-19, or has been in many ANSTO of this as soon as they become aware of this happening.			
Identification of Safety Hazards If the process ident space below if the hazard is not previously addressed. Please		hazards listed below, please check the appropriate box and complete the appropriate risk assessment in the d ALL hazards must be noted on your SWMES.			
Chemical Hazards	Fall From Height	Noise & Vibration			
Confined Spaces	☐ Falling Objects	Non Ionising Radiation			
✓ Consultation	☐ Fissile Materials/Criticality	Plant & Equipment			
Construction Work	☐ Hazardous Manual Tasks	Pressure/ Vacuum Equipment			
Demolition Hazards	☐ Heat Stress or Cold Environm	nents Radiation Contamination			
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Diving	☐ Isolations			Radiation Dose		
Electrical Hazards	Lifting Loads			☐ Vehicles or Mobile Plant		
	G				Names al I la con	_
Excavations & Penetrations	☐ Needlestick			☐ Working Alone or Out of	Normal Hour	<u> </u>
Library Constitution of Facility and Constitution of the Constitut						
dentification of Environmental Hazards (If the process identified in this SWMES has any potential environmental hazards listed below, please check the appropriate box and complete the appropriate risk assessment in the space below if the hazard is not previously addressed. Where potential environmental hazards are identified, the responsible officer in consultation with the relevant Local Environmental Coordinator (LEC) shall submit an Environmental Aspects Identification Form AF 2092 to be ANSTO EMS Manager/Coordinator for entry to the ANSTO Environmental Aspects Register. If the operations are for proposed for a definite time-scale, this must be included within the Environmental Aspect Identification submission.						
☐ Pollutant entering drains	☐ Potential for ground	vater contamin	nation	Abnormal excessive nois	se or vibration	ı
\square Dust generation - crushing, grinding	Airborne emissions -	radiological o	r non-	Cryogenics - particularly	helium and s	pecialties
\square Use of ozone depleting substances/synt	thetic GHG $\;\square$ Use of chemicals wit	h hazard code	H400 - H420	Abnormal electricity use		
\square Excessive lighting requirement at night	☐ Abnormal potable wa	ater use		✓ Excessive paper/package	ging use	
\square Risk of sediment displacement	Risk to flora/fauna			☐ Significant alteration to s	stormwater flo	OWS
Activity Detailed steps of the job/ task being undertaken	Hazard What hazards are present from work and location at each step of the process?	Risk Rating Use AG-2395	Implemented sat	Controls fety controls to reduce the risk each hazard. Use AG-2407	Risk Rating With control	Responsible Person(s) responsible for implementing control measure(s)
•	What hazards are present from work and	Rating	Implemented sat	fety controls to reduce the risk	Rating	Person(s) responsible for
Detailed steps of the job/ task being undertaken	What hazards are present from work and	Rating	Implemented sat	fety controls to reduce the risk	Rating	Person(s) responsible for

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Travel on-site by bus and conduct on- site tour	Risk of injury from tour participant or bus driver	Mod x L (3E) MEDIUM	Bus driver to hold appropriate class of drivers licence for bus. Notification forms to ASOC and Security. EO to use mobile phone at all times to maintain communication. EO to notify AFP main gate of their arrival at the Discovery Centre and the tour plans for the morning. EO to contact AFP and security in case of threatening or violent behaviour.	Min x VU (2C) VERY LOW	Discovery Centre staff
Bus collected from overnight storage area adjacent to B7. Informal daily check and cleaning completed.	Damage to vehicle. Vehicle incident.	Maj x U (4D) MEDIUM	Informal daily check for damage. Damage reported to motor pool manager. All drivers of bus to be appropriately licensed. Follow NSW Road Rules and ANSTO Safe Driving Guidelines	Maj x HU (4B) LOW	Driver of vehicle
Prepare DC theatrette for group presentation. Chairs and tables arranged for group size and physical distancing.	Manual Handling	Mod x VL (3F) MEDIUM	Tour booking received and booked into weekly schedule. Keep the room prepared for typical size group tours to minimise necessity to move furniture. Use a trolley where available. 2 person task. Remind all participants of the current manual handling guidelines	Mod x VU (3C) LOW	Education Officer

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Prepare displays and samples. Radiological items.	Dose to staff Dose to tour participants	Neg x VU (1C) VERY LOW	Prepare displays and samples. Radiological items. Only low dose rate material handled by participants. Radiation monitor within calibration (also used for demonstration) Education officer to wear TLD & EPD	Neg x VU (1C) VERY LOW	Education Officer
	Security of radioactive displays and samples	Neg x VU (1C) VERY LOW	Only low dose rate material. Radiation sources kept in appropriate containers and stored securely. Radioactive materials audited annually.	Neg x VU (1C) VERY LOW	Education Officer
Implementation	_				
Visitors arrive at ANSTO, park in Café car park or staff car park opposite Discovery Centre.	Vehicles and pedestrians using same area. Vehicle incident	Maj x U (4D) MEDIUM	NSW road rules apply. Shared zone signposted. Speed limited to 10km/h No parking in shared area outside Discovery Centre other than ANSTO tour vehicles. Different road surface to differentiate zones. Bumper stoppers installed to prevent damage to B65. Alternate parking in overflow carpark. Marked pedestrian crossings available between overflow carpark and visitors centre.	Mod x U (3D) LOW	Tour group driver. Facilities Maintenance.

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Visitors walk to B65 Discovery Centre	Vehicles and pedestrians using same area	Maj x U (4D) MEDIUM	NSW road rules apply. Shared zone signposted. Speed limited to 10km/h No parking in shared area outside Discovery Centre other than ANSTO tour vehicles. Different road surface to differentiate zones.	Mod x U (3D) LOW	Facilities Maintenance Building Manager
	Slips, Trips and Falls	Mod x VL (3F) MEDIUM	Paving in good condition. Regular housekeeping inspections by B65 staff. Covered entrance Discovery Centre. Bumper stoppers highlighted in black and yellow stripes	Mod x U (3D) LOW	Facilities Maintenance Building Manager
Visitors enter Discovery Centre and walk through	Slips/ Trips & Falls	Mod x VL (3F) MEDIUM	Regular housekeeping inspection of building and fittings and equipment. All walkways clear and in good condition.	Mod x U (3D) LOW	Education Officers & Building Manager
Education Officer behaviour through entire tour.	Visitors wearing inappropriate clothing or inadvertently copying the incorrect actions of EO. (particularly children)	Mod x L (3E) MEDIUM	Education Officers always be mindful that they are setting an example for children and visitors. Every activity undertaken, whether crossing a road, operating a piece of equipment or entering a building or area is closely observed by visitors. What EOs do, how they act, what they wear and say all sends a clear message to all visitors that this behaviour is acceptable. EOs must therefore ensure they are setting a good example. EOs must always be appropriately dressed, with fully enclosed proper footwear, always cross the road using marked	Mod x U (3D) LOW	Education Officers.

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			pedestrian crossings where they are available, always ensure the areas entered and equipment demonstrated is safe for others to touch. EOs must provide clear and concise warnings and explanations to all tour participants.		
Safety of children during the tour	Child protection issues	Maj x U (4D) MEDIUM	All children under 16 to be supervised by their teacher, parent or carer during the tour. All EOs have current Working with Children Checks Supervision at all times to ensure that at no time an ANSTO representative is alone with an individual child in our care. ANSTO Gym toilets are not to be used at any time. Encourage children to use the Discovery Centre toilets during defined periods of time (at the start and end of each break). Children who are sick or injured who may need to be escorted offsite must do so in the company of their parent/carer/teacher.	Neg x VU (1C) VERY LOW	Discovery Centre Staff
Information session given at Discovery Centre, B65.	Ionising Radiation – dose to staff and participants.	Neg x VU (1C) VERY LOW	Low dose rate materials only. Radiation sources stored in appropriate containers and secured properly. EO to wear TLD and EPD	Neg x VU (1C) VERY LOW	Education Officer
	Accidental Breaking of low dose display items (Uranium Glass and Fiestaware)	Min x L (2E) LOW	Materials to remain in their storage containers Use of materials to be supervised by Discovery Centre staff while in use. Specific Discovery Centre procedure for scenarios where there is a break.	Neg x VU (1C) VERY LOW	Education Officer

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	Voice strain	Min x VL (2F) LOW	Microphone headset	Neg x VU (1C) VERY LOW	Team Leader Discovery Centre to reintroduce use of microphone headset.
	B65 Emergency access and egress	S x L (5E) HIGH	Exits to be kept clear at all times. Exits marked with emergency lighting. Automatic fire detection equipment linked to SCC Trained Building Wardens Annual evacuation drills and inspections. Regular housekeeping inspections.	Mod x U (3D) LOW	Designated Building Wardens Education Officers
Transport participants onto site via main Security Gate. Driving around site	ANSTO Bus using shared pedestrian zone Tour supplied bus using shared pedestrian zone Vehicle incident. Heavy vehicle congestion at main gate (particularly around main store area)	Maj x U (4D) MEDIUM	NSW road rules apply. Shared zone signposted. Speed limited to 10km/h No parking in shared area outside Discovery Centre other than ANSTO tour vehicles. Different road surface to differentiate zones. Bumper stoppers installed to prevent damage to B65. ANSTO bus is fitted with seatbelts, reversing camera, reversing beeper and mirrors. Tour supplied bus – ANSTO Education Officer can act as eyes to assist bus driver. Licensed bus driver. Follow all NSW & ANSTO site road rules, including speed limits and no mobile phone use. Give way to heavy vehicles as appropriate. Marked pedestrian crossings.	Mod x U (3D) LOW	Bus Driver/ EO

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			Education Officer to safely pull vehicle over if talking about or indicating an area of site (ie – don't talk and drive at the same time where concentration may be compromised).		
	Voice strain	Min x VL (2F) LOW	Recommend a microphone head set for vehicle.	Neg x VU (1C) VERY LOW	Team Leader Discovery Centre to reintroduce use of microphone headset.
	Security unaware of tour group coming through gate.	Neg x VU (1C) VERY LOW	Discovery Centre Staff ring ahead to main gate. AFP enter the bus and give a quick Security talk re photos and prohibited items onsite. ANSTO EO has name list of all tour participants with tour paperwork.	Neg x VU (1C) VERY LOW	Education Officer AFP
	Security incident with a tour participant	Mod x U (3D) LOW	Ensure all tour participants, including the bus driver, stays with the EO during the tour EOs carry a mobile phone to be able to contact security or AFP if required	Min x U (2D) VERY LOW	Education Officer
Disembark passengers at car park for each stop and walk participants to location. Participants to be accompanied by EO at all times.	Pedestrian/ vehicle incident	Maj x U (4D) MEDIUM	Ensure safe parking of bus – at a designated stop where provided. ANSTO EO to lead participants using footpaths and pedestrian crossings.	Maj x HU (4B) LOW	Bus Driver/ EO
	Slips/ Trips or Falls	Mod x L (3E) MEDIUM	ANSTO bus steps have nonslip surfaces and are marked with safety markings. Additional step provided for	Mod x U (3D) LOW	Education Officers

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			elderly or mobility impaired persons. Hand rails available. Use provided walkways and pedestrian crossings.		
	Weather/ Sun exposure	Min x L (2E) LOW	Minimise time spent in exposed locations. EO to choose areas where protection from sun and weather is provided by awnings or inside. Participants advised to bring own sunscreen/ hat with initial info	Neg x VU (1C) VERY LOW	Education Officers
Respond to site emergency or medical emergency	Evacuate Building – missing persons First aid required – assistance required	S x L (5E) HIGH	EO to follow instructions advised by site PA system in case of an emergency. EOs to be aware of Muster Point A and Muster Point B locations of all visited areas (local induction may be required) EO carries name listing of all tour participants allowing head count of persons present at evacuation point. All EOs to have First Aid training. Contact Site Control Centre on 888 or 9717 3333. All EOs are supplied with ANSTO mobile phone, the number is recorded at Discovery Centre prior to leaving B65. ANSTO bus is fitted with first aid kit and fire extinguisher. EOs carry a hard copy of the ANSTO Event Report Form to record details of any incident.	Mod x U (3D) LOW	Education Officers ASOC Site Nurse Site Control Centre Building Wardens

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Ascending and descending stairs	Trips and Falls	Mod x VL (3F) MEDIUM	Avoid stairs where possible. Slip resistant material on steps. Use handrails where available. ANSTO EO to warn participants about stairs. Elderly or mobility impaired persons may choose to avoid staircases.	Mod x U (3D) LOW	Education Officer
Enter OPAL Displays and ACNS viewing area	Slips, Trips and Falls Walkways may be wet in rainy weather Display stands for feature presentations	Mod x VL (3F) MEDIUM	Cross roads at marked pedestrian crossings and use provided footpaths. Visitors to have appropriate footwear as advised in info packs. EO to caution visitors about wet and possibly slippery walkways. Ramp access is available to OPAL Displays.	Mod x U (3D) LOW	Education Officer
	Ionising Radiation	Neg x VU (1C) VERY LOW	OPAL reactor floor can be remotely observed using RC camera in OPAL visitors centre. ACNS to advise safe for visitors in viewing area (TV monitors advise status) No unauthorised access to tour participants to radiation classified areas. EO to wear EPD & TLD All visitors to disinfect their hands at before entering OPAL Display areas and ACNS viewing area.	Neg x VU (1C) VERY LOW	ACNS Operations Manager Education Officer
Access to B53 ANTARES Accelerator Facility	Safe parking at B53	Maj x U (4D) MEDIUM	Bus bay is provided with access pathways to B53 entry. Signage or "rope off" may be of assistance to keep this bus bay clear for bus parking (if considering this option, account for trip hazards)	Maj x HU (4B) LOW	Facilities Management

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	Trip hazards – metal plates on floor	Mod x VL (3F) MEDIUM	Metal plates are flush with floor. Regular housekeeping inspections by IER EO to warn participants of trip hazard on floor	Mod x U (3D) LOW	IER safety committee/ Area Supervisor Education Officer
	Overhead hazards – ANTARES beam line equipment	Mod x AC (3G) HIGH	Foam padding and black and yellow highlighting caution markings on beam line apparatus. EO to warn participants	Min x U (2D) VERY LOW	Area Supervisor Education Officer
	Operational Hazards Ionising Radiation/ Works in progress/ low oxygen	Maj x U (4D) MEDIUM	TV monitors advise current status. Restricted access to areas of ANTARES during operations. TV monitors to advise EOs of areas safe to enter. Signage and fenced off areas are present for restricted areas. Building is fitted with low oxygen alarm connected to the SCC. In some cases as advised by Accelerator Operations staff, access will not be possible. Alternate with visit to B22 STAR Accelerator.	Neg x VU (1C) VERY LOW	Education Officer Accelerator Operations Staff
B53 ANTARES hands-on displays	Magnetic equipment may interfere with pace makers or similar devices	TBC	Signage is present on actual displays EO to advise of hazard and those people that may be at risk prior to entering the area.	TBC	Education Officer Accelerator Operations Staff

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B22 STAR Accelerator Facility	Slips, trips and falls Staircase Walkways and carparks	Mod x VL (3F) MEDIUM	Avoid stairs where possible – Alternate ramp access is available to the mezzanine viewing area of B22 adjacent to the main entry of B55. Slip resistant material on steps. Use handrails where available. ANSTO EO to warn participants about stairs. Elderly or mobility impaired persons may choose to avoid staircases. Use marked walkways and pedestrian crossings where provided. ANSTO EO to escort tour Participants	Mod x U (3D) LOW	Education Officers
	Operational Hazards - Ionising Radiation/ Works in progress/ low oxygen	Maj x U (4D) MEDIUM	Restricted access to areas of B22 STAR during operations. Accelerator Operations to advise EOs of areas safe to enter. Signage and fenced off areas are present for restricted areas. Building is fitted with low oxygen alarm connected to the SCC	Neg x VU (1C) VERY LOW	Education Officer Accelerator Operations Staff
Enter B21 – Institute for Environmental Research	Safe bus parking and access	Maj x U (4D) MEDIUM	The bus bay adjacent to B53 is the safest and easiest place to park the bus for B21. Use marked pathways and pedestrian crossings where provided.	Maj x HU (4B) LOW	Bus Driver/ EO
	Slips, Trips and Falls	Mod x VL (3F) MEDIUM	EO to escort tour participants via pedestrian crossings and provided walkways. Clear walkways.	Mod x U (3D) LOW	Education Officer Building Manager

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			Regular housekeeping inspections by IER safety committee.		
Enter B3 – Institute of Materials Engineering including electron microscope area	Safe bus parking and access No safe parking available on Thomson Avenue at front doors of B3 - Vehicle incident. Alternate parking at bus bay between B1 and B3 tour participants walk through carpark - vehicle/ pedestrian incident. Drop off tour participants — either participants or bus driver are unaccompanied whilst parking vehicle.	Maj x L (4E) HIGH	Recommend a designated and barricaded walkway (that is also suitable for mobility impaired persons) between existing bus bay between B1 and B3 or Recommend a new bus bay be installed into the roadway outside B3 (may be limited by existing space) Education Officer to escort tour participants. Use walkways and pedestrian crossings where available.	Mod x U (3D) LOW	Facilities Management/ Infrastructure Planning Education Officer Assistance with recommendations from S Levy HSS
	Slips, Trips and Falls	Mod x VL (3F) MEDIUM	EO to escort tour participants via pedestrian crossings and provided walkways. Clear walkways. Regular housekeeping inspections by IME safety committee.	Mod x U (3D) LOW	Education Officer
Walk around Waste Management areas	Safe bus parking and access	Maj x U (4D) MEDIUM	Bus parking for a vehicle the size of the ANSTO tour bus is available although manoeuvrability is difficult between B20A and B20B. Full size buses or coaches will not be able to negotiate this area. Education Officer to escort tour participants at all times. Use designated walkways	Maj x HU (4B) LOW	Education Officer/ bus driver

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	Slips, Trips and Falls	Mod x VL (3F) MEDIUM	EO to escort tour participants via pedestrian crossings and provided walkways. Clear walkways. Regular housekeeping inspections. Appropriate footwear advised by Discovery Centre at booking	Mod x U (3D) LOW	Education Officer Area Supervisor
	Weather and sun exposure	Min x L (2E) LOW	Minimise time exposed to sun and weather. EO to choose areas where protection from sun and weather is provided by awnings or inside. Participants advised to bring own sunscreen/ hat with initial info	Neg x VU (1C) VERY LOW	Education Officers Tour participants
Conclusion					
Any hazards noted throughout tour ANSTO Discovery staff	Ongoing hazard to other users of area.	Maj x L (4E) HIGH	Report any hazards identified to relevant Area Supervisor, Building Manager or via ANSTO Event Reporting System on INFRA as soon as possible.	Neg x VU (1C) VERY LOW	Education Officer
Return to Discovery Centre	Vehicle Accident Vehicles and pedestrians using same area. Slips, Trips and Falls	Maj x U (4D) MEDIUM	All drivers of bus to be appropriately licensed. Follow NSW Road Rules and ANSTO Safe Driving Guidelines Shared zone signposted. Shared zone speed limited to 10km/h No parking in shared area outside Discovery Centre other than ANSTO tour vehicles. Different road surface to differentiate zones.	Mod x U (3D) LOW	Bus Driver/ Education Officer Facilities Management

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			Covered entrance to visitors centre, carpeted. Bumper stoppers highlighted in black and yellow stripes. Visitors to come off the bus one by one and follow signs to pick up belongings and leave the site.					
Fill ANSTO vehicle with fuel	Chemical spill Fire	Maj x HU (4B) LOW	Turn off vehicle. No mobile phones or two-way radios to be used whilst filling vehicle. Use filling pump as directed. Wash hands following filling vehicle with fuel.	Maj x HU (4B) LOW	Driver of vehicle			
Return ANSTO vehicle to B7	Vehicle accident	Maj x U (4D) MEDIUM	Appropriate designated parking area has been allocated to bus. All drivers of bus to be appropriately licensed. Follow NSW Road Rules and ANSTO Safe Driving Guidelines	Maj x HU (4B) LOW	Driver of vehicle			
Emergency / Rescue Scenarios	Emergency / Rescue Scenarios							

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Risk Analysis Matrix (AG-2395)

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Risk Analysis Matrix

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Medium	High	High	Very High	Very High	Very High	Very High	6	Catastrophic	
Low	Medium	Medium	High	High	Very High	Very High	5	Severe	
Low	Low	Medium	Medium	High	High	Very High	4	Major	act
Very Low	Very Low	Low	Low	Medium	Medium	High	3	Moderate	Impact
Very Low	Very Low	Very Low	Very Low	Low	Low	Medium	2	Minor	
Very Low	Very Low	Very Low	Very Low	Very Low	Low	Low	1	Negligible	
Α	В	С	D	Е	F	G			
Extremely Unlikely	Highly Unlikely	Very Unlikely	Unlikely	Likely	Very Likely	Almost Certain			
Likelihood									

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Likelihood / Probability

Likelihood /	Qualitative I	Risk Analysis	Quantitative Risk Analysis		
Probability Levels	Likelihood	Likelihood definition	Probability range	Probability range definition	
G Almost Certain ANSTO in a similar situation • The event is expected to occur in mo happens quite frequently (significant		Historical records of at least one occurrence per year at ANSTO in a similar situation The event is expected to occur in most circumstances / happens quite frequently (significant chance) Well publicised occurrences in other similar facilities	>= 1 / year (> 1 pa)	 The expected (or mean) frequency f is such that f ≥ 1 y⁻¹ (i.e. happens more often than once each year: (>= 1 pa) 	
F	Very • Has occurred a couple of times at ANSTO		1/10 years to 1 / year (0.1 pa to 1 pa)	 The expected (or mean) frequency f is such that 1 > f ≥ 0.1 y¹ (i.e. happens less often than once each year, but more often than once each ten years: 0.1 pa to 1 pa) 	
Е	Likely	May have occurred at ANSTO The event could occur at some time (realistic chance) Known in similar facilities and industries	1/100 years to 1/10 years (0.01 pa to 0.1 pa)	 The expected (or mean) frequency f is such that 0.1 > f ≥ 0.01 y¹ (i.e. happens less often than once each ten years, but more than once each hundred years; 0.01 pa to 0.1 pa) 	
D	Unlikely	May not have occurred at ANSTO The event could occur (reasonable chance)	1/1,000 years to 1/100 years (10-3 pa to 0.01 pa)	 The expected (or mean) frequency f is such that 0.01 > f ≥ 0.001 y² (i.e. happens less often than once each hundred years, but more than once each thousand years: 10⁻³ pa to 0.01 pa) 	
С	Very Unlikely	The event could occur in certain circumstances (moderate chance)	1/10,000 years to 1/1,000 years (10-4 pa to 10-3 pa)	 The expected (or mean) frequency f is such that 0.001 > f ≥ 10⁴ y¹ (i.e. happens less often than once each 1000 years, but more than once each 10,000 years: 10⁴ pa to 10³ pa) 	
В	Highly Unlikely	The event could occur in exceptional circumstances (remote chance)	1/100,000 years to 1/10,000 years (10-5 pa to 10-4 pa)	 The expected (or mean) frequency f is such that 10^d > f ≥ 10^g y^l (i.e. happens less often than once each 10,000 years, but more than once each 100,000 years; 10^g pa to 10^d pa) 	
А	Extremely Unlikely	The event could occur in very exceptional circumstances only (very remote chance)	1/million years to 1/100,000 years (10-6 pa to 10-5 pa)	 The expected (or mean) frequency f is such that 10⁵ > f ≥ 10⁶ y¹ (i.e. happens less often than once each 100,000 years, but more than once each 1,000,000 years; 10⁶ pa to 10⁵ pa) 	

Note:

· Qualitative Risk Analysis

- o Subjective approach that uses word form or descriptive scales to describe the likelihood of each risk event arising and its consequences
- o Most risk assessments will use this approach exclusively
- o Impact could be determined based on past industry outcomes

Quantitative Risk Analysis

- o Aims to analyse numerically the probability of each risk event occurring and its potential consequence
- o Always used in support of a qualitative risk analysis
- o Impact is determined by calculating the potential impact based on assessed criteria and generally accepted models (e.g. dose rates)

Risk Analysis Matrix AG-2395 (ACS010136.pdf) Revision 15. Effective Date 03/07/2020.

Consequence – General

This table should be used for all risk assessments where a detailed analysis of environmental, ionising radiation and occupational health consequences are not required.

Impac	Impact	Financial	Financial	Financial	Project	Project	Project Quality	Operations /	Injury or	Ionising R	witiation ²	Environment ²	Patient Safety	Security	Legal / Compliance	Information	Reputation	Government	Human
Level	Description	Commercial operations	ANSTO level	Divisional level	Schedule	Cost Overrun ¹ (SEE POOTNOTE)		Plant and Equipment	Disease ²	Occupationally Exposed Person	Public					Technology Services		Relations	Resources
6	Catastrophic	>50% impact on net profit	>\$30M		>18 months	>20% of the total approved CAPEX budget	Total failure of the delivered system thus preventing it from meeting its primary purpose	production / operations unterable in near to mid term	Multiple fetalities or serious permanent injuries	Tissue reactions expected or severe dose to multiple people	Tissue reactions possible or severe dose to multiple people	Very long-term damage (>10 yrs.) or a nationally significant impact or release	Death of a patient / Comcare notifiable	Cessation of all operations / multiple fatalities / major criminal or terrorist event	Cencellation, permanent suspension of site license. Repeal of ANSTO Act Diamissal of Board and/or CEO. Senior officers barred from office or imprisoned. Prolonged regulatory suspension of operating license/s Major restriction of core activities Major compensation psysble or (civil/ciminal) prosecution Serious administrative action for legislative breaches / large fines.	Complete loss of all services for greater than 5 days	international and national condemnation	Loss of government support for agency operations as a whole	Enterprise- wide strike action
5	Severe	30 - 50% impact on net profit	\$20M - \$30M	\$10M - \$30M	12 - 18 months	From >15 to 20% of the total approved CAPEX budget	Inability to achieve one or more critical requirements	Critical operations seriously affected > 6 months	Death, permanent disability or permanent ill health	Tissue reactions possible	Exceedance of legal limit for occupationally exposed person	Long-term damage (3 - 10 yrs.) or a regionally significant impact or release	General customer health problem that could attract public interest / Comcare notifiable	Impact on all operations (>24 hours) / shutdown / single fatality / crime or terrorism attempt	Medium compensation / work suspension orders / regulatory directions	Complete loss of all services for less than 5 days	and national criticism	Extraordinary government enquiries called or examination into agency operations as a whole	Strikes at several facilities
4	Major	20 - 30% impact on net profit	\$10 - \$20M	\$3 - \$10M	8 - 12 months	From >10% to 15% of the total approved CAPEX budget	Significent shortfell in the required performance or functionality of the delivered product / service / system	Critical operations seriously affected 1-8 months	Long term ilness or seess or seess injury >5 days off (LTI), but recovery probable	Exceedance of legal limit for occupationally exposed person	Exceedance of legal limit for member of the public	Medium-term damage (1 - 3 yrs.) or en impact or release confined to Buffer Zone	Customer / community health problem causing significant backlog of patients or non- treatment / Possible adverse drug reaction due to a product quality issue / Comcare notifiable	Impact on some operations (>24 hours) / regulatory impact / injuries / regative media attention	Limited compensation / minor fines / major administrative complaint Civil litigation / arbitration / minor administrative complaint / regulatory complaince notices	Loss of critical service(s) for more than 1 day	Very negative national criticism	Loss of government support for specific agency operations or projects	Strike at one facility
3	Moderate	10 - 20% impact on net profit	\$5M - \$10M	\$1M - \$3M	4 - 8 months	From >5% to 10% of the total approved CAPEX budget	in the required performance or functionality of the delivered product		Medical attention / up to 5 days off (LSI)	Less than legal limit for occupationally exposed person	Less than legal limit for member of the public	Short-term damage (<1 yr.) or an impact or release confined to the ANSTO-site	Customer / community health problem causing significant delay of treatment / possible product recall situation / could be Comcare notifiable	Impact on some operations (>24 hours) / regulatory impact	Reportable minor incident / breach with no or minor implications	Loss of critical service for less than 1 day	Adverse national public attention		Organised stay aways
2	Minor	5 - 10% impact on net profit	\$3M - \$5M		2-4 months	From 2% to 5% of the total approved CAPEX budget		interruption to some operations (hours)	First aid or Early Intervention Program	Less than legal limit for member of the public	Less than one tenth legal limit for member of the public	Anomalous impact or release confined to work-area with negligible ongoing effects	Customer / community health problem causing delay/rebooking of some treatments	Impact on some operations (<24 hours)	Non-importable regulatory non-compliance identified by external parties	Loss of non- critical service for more than 1 day / critical service degradation more than 1 hour	media / NGO / public	Minister called on to publicly support agency	Disputes / Grievances
1	Negligible	<5% impact on net profit	<\$3M	< \$300K	<1 month	<2% of the total approved CAPEX budget	Insignificant impact on the required performance or functionality of the delivered product / service / system	Superficial damage to equipment / no loss of production	Minimal effects / very small injury not requiring treatment	Negligible increase on natural background rediation	Negligible increase on natural background radiation	Within routine operational conditions, but may be an environmental aspect with potential for improvement	No delay in treatment	No regulatory or operational impact	Non-reportable regulatory non-compliance identified internally	Loss of non- critical service for less than 1 day / critical service degradation less than 1 hour	Public concern restricted to local complaints	Additional oversight of operations required by Department	Complaints / dissatisfaction amongst staff

This table should not be construed to mean that different consequences at the same level are equivalent. For example, it is not meaningful or desirable to attempt to equate serious injury or death to financial costs.

This is almed at providing a project specific analysis of the potential financial impact on project objectives. The potential financial impact on ANSTIO is guided by the "Financial ANSTIO is guided by the "Financial ANSTIO is guided by the Financial ANSTIO is sequence desirable on the properties of the potential financial impact. Consequence — Environment, Consequence — Redistion or Consequence — Redistion or Consequence — Redistion or Consequence — Society of the Properties of the Propertie