

| Radiation | Exposure Mitigation Risk A | Assessment | |
|--------------------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------|---------------------------|
| Business Name: | | ABN: | |
| Business Address: | | | |
| Contact Person: | Phone: | Ema. | |
| | | | |
| THIS RISK ASSESSI | MENT IS APPROVED BY THE PCI | BU ON W PROJECT | |
| Under the Work Health and Safety Regulation (WHS Regulation), a is prepared before the proposed work starts. | person conducting a busine or un | ndertaking PCBU required to ensu | re that a RISK ASSESSMENT |
| Full Name: | | | |
| Signature: | | ritle: | Date: |
| | | | |
| CL | OR PRICING CO. TRACTOR I | DETAILS | |
| Client: | | SCOPE OF | WORKS |
| Project Name: | | | |
| Project Address: | | | |
| Project Manager: | | | |
| Contact Phone: | | | |
| Date Risk Assessment supplied to Project Iv | | | |



RISK MATRIX LIKELIHOOD INSIGNIFICANT MINOR MODERATE MAJOR CATASTROPHIC HIERARCHY OF CONTROLS SCORE ACTION Elimination ALMOST 3 HIGH 3 HIGH 4 4 ACUTE ACUTE ACUTE **CERTAIN** Remove the hazard. Substitution 4 4 DO NOT Replace the hazard. LIKELY MODERATE HIGH HIGH ACUTE ACUTE ACUTE ROCEED Isolation Isolate People from the hazard 2 3 4 3H Rev before POSSIBLE MODERATE ACUTE ACUTE LOW HIGH HIGH. work Engineering Isolate the l/Acchanich. Ensure control 2 3 2M istrativ UNLIKELY measures in LOW LOW MODERATE HIGH ACU RATE е place. Chang 2 MODERATE 3 HIGH 1L Monitor and RARE LOW LOW LOW keep records.

Risk Rating & Required Action:

| 4A | Stop work. The risk is intolerable, | minate the hazard | redesign the activity before proceeding. A Safe Work |
|----|---------------------------------------|------------------------|------------------------------------------------------|
| | Method Statement (SWMS) or hime | er-level authorisation | is required. |
| 3H | Review and approve additional c | role 'ask | arts. Senior supervisor sign-off needed. |
| 2M | Ensure all nominated controls are in- | prace and effective | Proceed with caution; monitor conditions. |
| 1L | Proceed, following standard operating | ig procedure // Ion | itor and keep records. |

Consequence Scale:

| Consequence | People (injury/illness) | Project / Assets | Compliance / Reputation |
|---------------|---------------------------------------------|--------------------|----------------------------------------------------------|
| Catastrophic | Fatality or permanent total disability | project shutdown | Significant regulator intervention; criminal prosecution |
| Major | Serious injury/illness (hospital > 5 days) | critical delay | Improvement notice; major media coverage |
| Moderate | Medical-treatment injury; lost-time > 1 day | moderate delay | Minor breach; adverse client comment |
| Minor | First-aid only, no lost time | negligible delay | Isolated non-conformance |
| Insignificant | No injury | no schedule impact | Deviation caught and corrected on site |

Notes on Hierarchy of Controls:

Remember to apply controls in the preferred order shown by the coloured pyramid:

- 1. Éliminate
- 2. Substitute
- 3. Isolate
- 4. Engineering
- 5. Administrative
- 6. PPE

Always document **why** a lower-order control is accepted if elimination or substitution is not reasonably practicable.

aligned with Safe Work Australia's Managing the risk of fatigue at work (2023) and ISO 45001:2018 clauses 6–8.



| JOB STEP | POTENTIAL HAZARDS | IR | CONTROL MEASURES | RR |
|---------------------|----------------------------------------------------------------|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| SPECIFIC WORK STEPS | HAZARDS THAT MAY ARISE | INITIAL RISK | SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS | RESIDUAL RISK |
| 1. Preparation | Radiation leakage, Equipment malfunction | зн | - Conduct regular safety training for all personnel - Ensure regular maintenance of radiation equipment - Conduct a risk assessment of the area belong operation - Install radiation warning signs - Issue personal dosimeters to staff - Implement a radiation monitor on system - Limit the duration of exposure to adiation - Ensure available of employers cols - Checoprotect of gear to one each us - Security or radioacce sources | 2M |
| 2. Equipment Setup | Improper setup leading to rediation exposure, Mechanica surure | 31 | Use do ailect atup interactions Use usually traced personnel handle equipment setup Dous creek equipment configurations and connections Conduct a pre-operation checklist Regularly inspect equipment for faults Calibrate equipment according to manufacturer specifications Use certified and well-maintained equipment Have a supervisor verify setup Keep a log of all setup operations Implement a system for immediate fault reporting | 1L |
| 3. Area Monitoring | False readings, Inadequate monitoring coverage | 2M | - Use calibrated radiation detectors - Implement a systematic schedule for monitoring checks - Ensure overlap in monitoring areas - Regularly test and calibrate monitoring devices - Train staff in interpreting monitoring data - Maintain robust documentation of monitoring activities - Use redundant systems to check for false readings - Replace batteries and power sources regularly | 1L |



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| | | | - Install permanent monitoring systems in high-risk areas | |
| | | | - Review data and validate against expected readings | |
| 4. Personnel Protection | Inadequate PPE, Radiation exposure through improper use | 3H | | 2M |
| 5. Incident Response | Delayed response peffective containment proclaures | 4A | | 2M |
| 6. Decontamination Procedures | Spread of contamination, Improper decontamination process | ЗН | | 2M |



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| | | | | |
| 7. Transport of Radioactive Materials | Accidental release, Spillage during transport | 4A | | 2M |
| 8. Waste Management | Improper disposal peakage te containers | 3H | | 1L |
| 9. Training and Competency | Inadequate training, Lack of competency | 2M | | 1L |



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| | | | | |
| 10. Emergency Protocols | Non-compliance with emergency protocols, Confusion during emergencies | 4A | | 2M |
| 11. Health Monitoring | Undetected exposure, Delayed healt response | ЗН | | 2M |
| 12. Facility Design | Inadequate shielding, Poor layout leading to exposure | 4A | | 2M |



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| 13. Equipment Storage | Improper storage leading to exposure, Equipment damage | 3H | | 1L |
| 14. Communication Systems | Communication breakdown, Delar information dissemination. | 2M | | 1L |
| 15. Visitor Protocols | Uninformed visitor exposure, Breaching security zones | 2M | | 1L |



8

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| 16. Reporting and Documentation | Incomplete incident records, Delayed reporting | 2M | | 1L |
| 17. Inspection and Auditing | Missed hazards, Ineffective inspections | ЗН | | 1L |
| 18. Continuous Improvement | Resistance to change, Overlooking existing risks | 2M | | 1L |



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| 19. Security Management | Unauthorised access, Loss of control over materials | ЗН | | 1L |
| 20. Review and Evaluation | Outdated procedures, Ineffective evaluation methods | 2M | | 1L |
| | | | | |



EMERGENCY RESPONSE - CALL 000 FOR EMERGENCIES

Ensure to have an Emergency Management Plan in place as well as adequate numbers of trained first aid staff with easy access to fully stocked first aid kits, rescue equipment, material safety data sheets, adequate access to emergency communication equipment and fire-fighting equipment suitable for all classes of fire and ignition sources.

LEGISLATIVE REFERENCES

RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEGISLATIVE REFERENCES. ANY STATE OF AT ARE NOT APPLICABLE.

Queensland & Australian Capital Territory

Work Health and Safety Act 2011

Work Health and Safety Regulations 2011

Legislation QLD: https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws

Codes of Practice QLD: https://www.worksafe.qld.gov.au/laws-and-compliance/codes-of-practice Legislation ACT: https://www.worksafe.act.gov.au/laws-and-compliance/acts-and-regulations

Codes of Practice ACT: https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice

New South Wales

Work Health and Safety Act 2011

Work Health and Safety Regulations 2017

Legislation NSW: https://www.safework.nsw.gov.au/legal-obligations/legislati

Codes of Practice NSW: https://www.safework.nsw.gov.au/resource-library/lis > odes-oi racti

Northern Territory

Work Health and Safety (National Uniform Legislation) Act 2011

Work Health and Safety (National Uniform Legislation) Regulation 2011

Legislation NT: https://worksafe.nt.gov.au/laws-and-compliance/wo_place-

Codes of Practice NT: https://worksafe.nt.gov.au/f

South Australia

Work Health and Safety Act 2012 (SA)

Work Health and Safety Regulations 2012 (SA)

Legislation for SA: https://www.safework.sa.gov.au/resources/le

Codes of Practice for SA: https://www.safework.sa.gov.au/work_aces/codes-of-practice#COPs

Tasmania

Work Health and Safety Act 2012

Work Health and Safety (Transitional and Consequential Provisions) Act 2012

Work Health and Safety Regulations 2012

Work Health and Safety (Transitional) Regulations 2012

Legislation for TAS: https://worksafe.tas.gov.au/topics/laws-and-compliance/acts-and-regulations

Codes of Practice for TAS: https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice

Details of permits, licenses or access required by regulatory bodies (add or delete as required):

- Permits from local council
- Authorisation to commence work
- Any required documents.

Victoria

Occupational Health al. Safety Act

Occupational Health and Infety gulations 2017

Legis on VIC: https://www.wksafe.vic.gov.au/occupational-health-and-safety-act-and-

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tes of actice VIC attps://www.worksafe.vic.gov.au/compliance-codes-and-codes-practice

Western Australia

Work Health and Safety Act 2020

Work Health and Safety Regulations 2022

Legislation Western Australia: https://www.commerce.wa.gov.au/worksafe/legislation Codes of Practice WA: https://www.commerce.wa.gov.au/worksafe/codes-practice

Safe Work Australia Links

Law and Regulation (All States): https://www.safeworkaustralia.gov.au/law-and-regulation Model Codes of Practice: https://www.safeworkaustralia.gov.au/resources-publications/model-codes-of-practice

Model Codes of Practice

- Managing noise and preventing hearing loss at work
- Confined spaces
- Labelling of workplace hazardous chemicals
- Managing risks of hazardous chemicals in the workplace
- Welding processes
- First aid in the workplace
- Managing the risk of falls at workplaces
- Hazardous manual tasks
- Managing the risk of falls in housing construction
- Managing electrical risks in the workplace
- Demolition work
- Excavation work
- Work health and safety consultation, cooperation and coordination
- Managing the work environment and facilities
- How to manage work health and safety risks
- Managing risks of plant in the workplace
- Construction work