

# VISITOR RISK ASSESMENT & CONTROL PLAN

## TRANSFORMER - 328 Lune Rive Rd Ida Bay

### Risk Assessment Calculator

Risk Analysis	
Consequence (C) of Result	Description of Consequence
1 Minor	First aid treatment; minor medical treatment but no lost time
2 Moderate	Medical treatment required; lost time injury; less than four weeks off work
3 Major	Extensive or multiple injuries; major back, neck, arm, leg, face or internal injury; extended absence of one or more employees; external investigation by WST; lost time over one month
4 Severe	Death; or permanent or severe health effects for one or more employees
5 Catastrophic	Multiple fatalities
Likelihood (L) of Occurence	Description of Likelihood
1 Rare	The event may occur only in exceptional circumstances; rare exposure to risk E.g. between once in 10-100 years
2 Unlikely	The event could occur at some time; infrequent exposure to risk; little or no history at this site. E.g. between once in 1-10 years
3 Possible	The event should occur at some time; regular or occasional exposure to risk E.g. between once in 6 months - 1 year
4 Likely	The event will probably occur in most circumstances; frequent exposure to risk; some history of occurrence. E.g. within 6 months
5 Almost certain	The event is expected to occur in most circumstances; constant exposure to risk; clear history of occurrence. E.g. within 6 week.

Risk Level Matrix					
Likelihood	Consequence				
	1	2	3	4	5
	1 Minor	2 Moderate	3 Major	4 Severe	5 Catastrophic
1 Rare	1 L	2 L	3 L	4 M	5 S
2 Unlikely	2 L	4 L	6 M	8 M	10 S
3 Possible	3 L	6 M	9 M	12 S	15 H
4 Likely	4 L	8 M	12 S	16 S	20 H
5 Almost certain	5 M	10 M	15 S	20 H	25 H

	L = Low	acceptable risk perhaps, manage by routine procedures
	M = Moderate	attend to in medium term, allocate management responsibility
	S = Significant	attend to in short term, senior management attention required
	H = High	immediate action, detailed research & management planning necessary at senior levels

## Risk Control Effectiveness Matrix

Level	RCE	Guide
5	Ineffective or Non Existent	<p>Not effective at all in mitigating the risk (will not have any effect in terms of reducing the likelihood and/or consequence of the risk) either because:</p> <ul style="list-style-type: none"> <li>Control is designed very poorly and has no operational effectiveness</li> </ul>
4	Defective / Negligible	<p>Significant control gaps (will have very little effect in terms of reducing the likelihood and/or consequence of the risk) either because:</p> <ul style="list-style-type: none"> <li>Control does not treat root cause; or</li> <li>Control is only reactive/detective and only mitigates consequence to a minimal extent</li> </ul>
3	Partially Effective	<p>Partial control most of the time (will have some effect in terms of reducing the likelihood and/or consequence of the risk) either because:</p> <ul style="list-style-type: none"> <li>Control is not designed to treat root cause, however, indirectly mitigates likelihood or consequence; or</li> <li>Control is reactive/detective, however, mitigates consequence to a major extent; or</li> <li>There is an over reliance on the reactive/detective controls</li> </ul>
2	Reasonably / Mostly Effective	<p>Effective in most circumstances (will have a reasonably significant effect in terms of reducing the likelihood and/or consequence of the risk) as:</p> <ul style="list-style-type: none"> <li>Control is largely of a preventative nature and designed to treat the root cause and mitigates likelihood and/or consequence to a major extent; and</li> <li>Some more work can be done to improve the operating effectiveness and reliability</li> </ul>
1	Effective	<p>Fully effective at all times (will significantly reduce the likelihood and/or consequence of the risk at all times) as:</p> <ul style="list-style-type: none"> <li>Control is well designed to treat the root cause, is preventative and operates reliably at all times; and</li> <li>No further actions are required except periodic review and monitoring of the existing control; and</li> <li>Reactive controls support this preventative control</li> </ul>

Hazard Description	Causes (modify and delete as applicable)	History, Data, Comments	Inherent	Controls	Control Effectiveness 1-10	Current			Responsible Person	Support / Action	Due Date	Status
			L/M/H			C	L	R				
Gravitational type hazards	Falling Objects (From roof of Transformer e.g. mobile phone, backpack, water bottle etc)	<a href="#">Code of Practice for managing the risk of falls at the workplace.</a>		Elimination: No access to roof. Isolation: Seamless glass balustrade around skylight. Administrative: Signage, Visitor information. Extract from CoP for Managing the risk of falls: Design permanent guardrails or other forms of edge protection, like parapet walls for permanent fall prevention on roofs.	1	3		#N/A				This risk will be elimination through dwsign considerration preventing anyone gettign on to the roof of the sculpture.
	Falling from height (By members of the public on roof of Artwork)	<a href="#">Code of Practice for managing the risk of falls at the workplace.</a>		Isolation: Seamless glass balustrade around skylight. Administrative: Signage, Visitor information. Use safe design principles.	1	4		#N/A				This risk will be elimination through dwsign considerration preventing anyone gettign on to the roof of the sculpture.
	Tree Limbs			Engineering: remove dead limbs/trees as per Arborist report. Administrative: Regular Arborist site assessment.	1	4		#N/A				Weather monitoring control. Site management prevent patrons from beign in areas of risk during weather events when limb fall is most likely.
Electrical Hazards	Poorly maintained electrical fixtures (e.g.indoor or external lighting, hand dryer)	<a href="#">Code of Practice for managing electrical risks in the workplace.</a>		Isolation: Isolate and remove from service any damaged/unsafe electrical fixtures/plant. Administrative: Testing and Tagging schedule, Workplace Inspections.	1	4		#N/A				All electrical equipment to be installed by a licensed electrical contractor.
Structural design (mirrored walls)	Sharp edges causing laceration			Engineering: Mirror panel edges and joints to be detailed with rounded edges.	1	2		#N/A				
	Protrusions / mirrored slanted walls causing bumps to head, trip hazard,			Engineering: lighting?	1	2		#N/A				
Mechanical Hazards	Old Railway buildings and carriages?			??	1			#N/A				
Mobile Plant	Traffic / pedestrian interaction (Buses, Vehicles, Golf Buggy)	<a href="#">Safe Work Australia - Traffic Management</a>		Isolation: Designated pedestrian pathways in car park. Engineering: Bollards/vegatation preventing vehicular access on to pathways. Administrative: Traffic Management Plan, speed limits/signage. Training of staff on safe use of golf buggy on pathways near pedestrians. First Aid Training, First Aid Kit, Emergency Management Plan (EMP).	1	4		#N/A				Patrons not permitted to enter/interact with old railway buidlings and vehicles.
	Driving Incident	<a href="#">Safe Work Australia - Emergency Plans and procedures</a>		Engineering: First Aid kit. Comms. Administrative: Emergency Management Plan (EMP), First Aid Training.	1	3		#N/A				
	Wildlife on road	<a href="#">P&amp;W Tahune-airwalk</a>		Administrative: Visitor information to site ie: Where possible, avoid driving at night. Vehicles sharing the roads with native wildlife, so take it slow and watch out for animals on the road. Similar info provided to visitors as Tahune Airwalk.	1	1		#N/A				
Biological Hazards	Legionella (HVAC?) / bacteria / viruses			Engineering: Regular cleaning schedule of visitor centre/bathrooms etc, preventative maintenance of visitor centre. Testing of any cooling towers.	1	2		#N/A				No HVAC system to be installaed on site.
	Insects / animals / plants			Engineering: First Aid Kit. Administrative: First Aid Trained Staff (particularly for anaphylaxis and snake bite), Emergency Management Plan (EMP). Note: EMP identifies nearest medical facilities and helicopter landing site.	1	3		#N/A				
	COVID-19			Administrative: COVID-Safety Plan (covers hand hygiene, heightening cleaning, contact tracing, physical distancing, COVID-19 health screening, monitoring). EMP and scenario testing.	1	4		#N/A				
	Domestic animal (e.g dog bite)			Administrative: Visitor Information / Signage. If yes: Dogs pemitted if kept on a leash.	1	2		#N/A				No dogs permitted on site?
	Acids / bases (caustic) (e.g. cleaning / sanitising products)	<a href="#">Chemical Manifest Template</a>		Engineering: Secure storage and segregation, bunding of chemicals on site. Spill kit. Administrative: Signage, chemical inventory on site, spill kit training.	1	2		#N/A				Chemical storage location will be away from publicly accessible areas of the site.

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			L/M/H			C	L	R				
Chemical Hazards	Volatile organic compounds	<a href="#">Code of Practice for Managing the risks of Hazardous Chemicals in the workplace.</a>		Engineering: Secure storage and segregation, bunding of chemicals on site. Spill kit. Administrative: Signage, chemical inventory on site, spill kit training.	1	2		#N/A				
	Toxic / hazardous substances (E.g. cleaning products)			Engineering: Secure storage and segregation, bunding of chemicals on site. Spill kit. Administrative: Signage, chemical inventory on site, spill kit training.	1	2		#N/A				
	Unlabeled containers	<a href="#">Code of Practice for Managing the risks of Hazardous Chemicals in the workplace.</a>		Engineering: Label decanted hazardous chemicals according to GHS labelling and Code of Practice for labelling hazardous Chemicals.	1	2		#N/A				
	Gases or vapours, e.g. noxious, fumes			Engineering: Appropriate storage and segregation. Administrative: Signage and emergency equipment and EMP.	1	4		#N/A				
	Asbestos / synthetic mineral fibre	<a href="#">Safe Work information on Asbestos</a>		Administrative: P&W have Asbestos Register for buildings on site. Asbestos Register and Asbestos Management Plan, signage, asbestos awareness training for staff.	1	4		#N/A				All asbestos will be removed from occupiable buildings before building works begin on site.
	Storage - inadequate	<a href="#">Code of Practice for Managing the risks of Hazardous Chemicals in the workplace.</a>		Engineering: Appropriate storage and segregation. Administrative: Signage and emergency equipment and EMP.	1	2		#N/A				
General Hazards	General visitor safety	<a href="#">P&amp;W Tahune-airwalk</a>		Administrative: Visitor information sheet covering what to wear, sun sense, water, stay on tracks, supervise children, grade of walk, site plan, mobile signal, toilets, parking.	1	2		#N/A				
	Person with disability			Engineering: Preventative maintenance of gravel pathways, lighting, provide disability accessible bathroom facilities, ramps etc. Administrative: Disability Assistance Induction for staff.		2						
	Restricted work area (e.g. visitor centre kitchen, buildings that are unauthorised to Public)			Engineering: Secure buildings/storage areas. Administrative: Signage "no unauthorised access". "Staff only" etc.	1	2		#N/A				
	Slip and trip hazards (e.g. pathways, railway tracks, rocks, uneven surfaces, food/drink spills in visitor centre etc)			Engineering: Non-slip surfaces. Cleaning in visitor centre. Grounds keeping to maintain clear areas and limit trip hazards. Administrative: signage, regular workplace inspections.	1	3		#N/A				
	Housekeeping (around pathways, car park, buildings)			Engineering: Regular workplace inspections and cleanups.	1	2		#N/A				
	Illumination / glare / transition (mirrored surfaces in artwork)			??	1			#N/A				Tunnel length has been reduced should be short enough to not be considered a low light area
	Lighting/visibility - poor (e.g winter/dusk/after hours)			Engineering: External lighting, preventative maintenance. Administration: site open daylight hours only. Regular workplace inspections.	1	2		#N/A				Site will operate occasionally at night time for special events, likely around 6 times per year. Booking/registration essential for night time visit. Torches/lanterns provided to night time visitors. Increase levels of staffing and supervision during night time operation. Cross promotional deals encouraging the booking of accomodation the are for night time opening???
Psychological Hazards	Personal threat (e.g. Personal threat from intrusion, assault, person at risk (drugs/alcohol or mental illness), inappropriate behaviour etc			Engineering: Security cameras, alarms. Administrative: Training for staff on responsible serving of alcohol (if selling alcohol on site) and dealing with inappropriate behaviour or Mental Health First Aid Training. Staff do not work alone.	1	2		#N/A				Yes selling alcohol, staff to be RSA trained. No alcohol sales during night time operation.
	Natural Disasters (e.g. bushfire/flood)			Engineering: Emergency equipment. Preventative maintenance of gravel paths/carpark. Administrative: Bushfire Emergency Plan, Evacuation Plan and Emergency Response Plan, Fire Wardens.	1	4		#N/A				
	Lost child / missing person			Engineering: Emergency Equipment, comms equipment. Administrative: visitor information about site safety: e.g. "keep to paths", "Supervise children at all times". Emergency Management Plan (EMP). Emergency response training.	1	4		#N/A				
	Health condition e.g. fitness, medical condition, anaphalaxis, hypothermia, heat exhaustion			Engineering: First Aid kit, AED, water available for purchase. Administration: First Aid Training, visitor information. Walk Grading	1	4		#N/A				Free water always availabel at visitor centre, ideally there would be no sale of bottled water. Design and sale of TRANSFORMER reusable water bottles.
	Water/drowning (neighbouring dam)			Engineering: investigate if fencing required. Administrative: signage e.g. "supervise children"	1	4		#N/A				Risk here is super low, no one should ever be going into that area of the site.

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Emergency hazards	Severe Weather events (wind, rain, snow, lightning, extreme heat)			Engineering: Emergency equipment (e.g. fire extinguishers, alarms, sprinklers). Preventative Maintenance of buildings. Lightning protection. Administrative: Evacuation Plan and Emergency Response Plan, Aborist assessment. Fire wardens. Regular workplace inspections.	1	4		#N/A				Weather station installed on site to monitor wind conditions. Staff protocol for checking BOM weather warnings, signage to be erected to inform patrons of incoming severe weather.
	Bomb threat - Chemical, biological or radiological threat, suspicious package etc			Engineering: Comms. Alarms. Administrative: Emergency Management Plan.	1	3		#N/A				
	Structural instability			Engineering: Buildings structurally sound and meet Building code. Administrative: Regular workplace inspections. EMP. Emergency Training.	1	3		#N/A				
	Power failure			Engineering: Back up generator and fuel. Battery powered Torches. Administrative: EMP, Generator SOP and training. Preventative maintenance.	1	2		#N/A				
	Fire/Explosion - Flammable materials (e.g. smoking, leaf litter) Rubbish fire, gas leak, electrical fire,		<a href="#">Safe Work Australia - Emergency Plans and procedures</a>	Engineering: Emergency Reponse equipment (e.g. fire extinguishers, Fire / smoke alarms, sprinklers. Gas detector. Administrative: Smoke-Free Management Plan, Evacuation Plan and Emergency Response Plan, Aborist tree assessment. Fire wardens. Grounds-keeping. suitable rubbish storage and regular collection.	1	3		#N/A				
Emergency Response	Communication - poor		<a href="#">Safe Work Australia - Emergency Plans and procedures</a>	Engineering: Communication equipment. Administrative: Emergency Management Plan (EMP).	1	3		#N/A				staff to carry 2 way radio when not in visitor centre. Staff ot carry phone at all times.
	Emergency plant and equipment - inadequate or poorly maintained		<a href="#">SWA - Emergency Plans and procedures</a>	Engineering: Preventative Maintenance of emergency equipment e.g fire extinguishers, smoke detectors and alarms. Administrative: Regular inspection and testing of emergency equipment.	1	4		#N/A				
	Fire management facilities - inadequate or poorly maintained			Engineering: Preventative Maintenance of emergency equipment e.g fire extinguishers, smoke detectors and alarms. Administrative: Regular inspection and testing of emergency equipment.	1	4		#N/A				
	First aid facilities		<a href="#">SWA - first-aid</a>	Engineering: First aid kit. AED. Administrative: Regular inspection of first aid kit. Maintain first aid training competency.	1	3		#N/A				
	Incident response - poor		<a href="#">SWA - Incident-reporting</a>	Administrative: Staff training on reporting and managing incidents. Incident Reporting Procedure	1	3		#N/A				protocols for indicent reporting contained within site operations plan.