Plant Hazard Analysis & Risk Assessment

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Model: Platform Basket RR9/200 Rail Boom Lift

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Person conducting assessment:

This Hazard Identification and Risk Assessment document is Model specific. It is based on the knowledge that all new machines of this model were/are produced to the same specification and design. It assumes all examples of this exact model currently in service to be as per the original specification, and to have been and continue to be operated and maintained in accordance with the Manufacturers requirements, and with all applicable statutory and regulatory requirements of an original example of the Model for which it was prepared. This Assessment must be reviewed by all stakeholders as required:

- Having regard to the manufacturers approved options
- Having regard to the general arrangement of miscellaneous equipment or facilities that may be provided on the plant according to the end users requirements or specification
- According to the particular circumstances under which the plant is used and maintained
- As new Hazards are identified and/or as risks are reassessed
- As existing risk control measures are revised or new risk control measures are introduced and implemented
- As and when work procedures are altered or revised
- Having regard to any unauthorised alterations or modifications made to the design or operation of the equipment

Monitor, in conjunction with the design verification process delivered by Engineering Design Innovation have made every attempt to identify all reasonably foreseeable operating circumstances in preparing this Assessment, however no guarantee as to the completeness of this Assessment is provided or implied.

It is the responsibility of Owners, Employers and Operators to identify all hazards associated with the use of this equipment specifically applicable to the task to be carried out and to where the equipment is to be used or located. They must assess the risk potential for each of the identified hazards and ensure that all reasonably practicable steps are taken to ensure those risks are effectively controlled.

- All operators must be trained and competent in the safe use of this particular piece of equipment, and hold appropriate qualifications as required by applicable regulatory requirements
- Operators of the equipment to which this Plant Risk Assessment refers must read and understand the Instructions for Use and Warnings contained within the Operators Manual prior to use
- All Daily Pre-Start Checks, Routine and Periodic Inspections, Maintenance and Repairs to this equipment must be carried out in accordance with the requirements of AS2550.10-2006

ID	Description of Hazard Potential		Activity	Risk control measures already implemented	Risk	Supplementary risk control measures	Risk score
	Origin	Consequence					
1	Operator Competency						
1.1	Untrained operator, not following proper operating procedures. Distracted operator. Following a poor system of work. Operator working alone.	Crushing Impact Trauma	Set up Operation Maintenance	Operation instructions explained in operator's manual	C4 Extreme	Train operators on safe use of the plant. Operator training should include at least the following: • pre-operation inspections • safe operation of plant • regular maintenance tasks • understanding of plant operation • capabilities and limitations • emergency procedures Do not operate the plant unless proper training has been received. Ensure operator's manual is kept with the plant for reference. Do not operate the plant when distracted, ill, excessively fatigued, or under the influence of drugs or alcohol. Implement appropriate system of work based on manufacturer's recommendations (e.g. operating instructions shown in operator's manual).	B1 Low
1.2	Misuse Unauthorised use of plant	Crushing Impact Trauma	Operation	Operator's manual warns about not using the plant for other than its intended purpose.	C4 Extreme	Do not use the MEWP for any other purpose than its intended use as explained in the operator's manual. Do not operate the plant unless proper training has been received.	B1 Low

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						Keys are not to remain in an unattended machine.	
2	Plant Limitations						
2.1	Plant overload causing - overturning - structural failure	Overturning Crushing	Driving Operation	Maximum Rated Capacity (MRC) displayed on basket.	C4 Extreme	Learn and understand plant limitations. Consider weight of all workers, tools and equipment to be loaded into basket. Do not exceed work platform capacity. Regularly inspect the MEWP as per maintenance schedule to ensure integrity of structural members.	A2 Low
2.2	Excessive incline causing plant to overturn	Overturning	Driving Operation	Plant limitations given in Operator's Manual.	C3 High	Do not drive the plant over ground slopes which exceeds its limitations. Conduct site risk assessment to determine suitability of job site before starting any work.	B2 Low
2.3	Excessive wind force causing overturning.	Overturning	Operation	Follow maximum wind speed rating.	C3 High	Constantly monitor wind speed when operating in wind sensitive areas.	B2 Low
3	Plant at worksite						
3.1	Collision with - site infrastructure - other plant and/or pedestrians	Crushing Impact	Operation Driving	Motion audible and visual alarm present.	C3 High	Beware of any obstructions around the work area; survey the area before moving the plant. Beware of other plant and persons around the work area, in particular when travelling around corners or blind spots.	B2 Low

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3.2	Exhaust fume build-up in poorly ventilated areas.	Asphyxiation	Operation		C4 Extreme	Ensure there is enough ventilation at the job site whenever combustion engine is used to operate the plant. May require forced mechanical ventilation.	B1 Low
3.3	Plant positioned near or driven over large depressions / obstacles.	Overturning Collapse	Operation Driving	Operator's manual recommends avoiding working near ditches and trenches.	C4 Extreme	Always maintain a safe distance from ditches, trenches or pit walls while operating plant. Plan a route to safely bring the plant to the job site. Avoid driving over large obstacles or depressions. Assess the ground conditions before setting up the plant.	B2 Low
4	Operation						
4.1	Driving on steep ground	Overturning Crushing	Driving Set up	Plant limitations displayed on platform and operator's manual. Remote control permits operator to stand at a safe distance away from the plant during driving operation.	A5 High	Carry out job site risk assessment to determine suitability of the site before commencing any work. Avoid driving on steep ground; find alternative routes whenever possible. Avoid driving across steep ground, drive with the tracks parallel to ground inclination. Keep other people away from the lower side of the plant while driving on steep ground.	A1 Low
4.2	Sudden change of direction when driving	Crushing Impact	Set up Driving		C3 High	Ensure there a safe working distance around the work area and check no person is around it before driving.	A1 Low

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4.3	Overturning	Crushing Falling Death	Set up Operation Emergency Maintenance Transport	Stability calculations supplied, which include different plant configurations. Stability test report supplied.	C5 Extreme	Do not exceed plant's rated capacity and environmental limitations. Pay attention to ground conditions when driving and setting up the plant.	B1 Low
4.4	Excessive chassis inclination	Crushing Falling	Operation	Plant grade ability limitations included in Operator's Manual Plant fitted with audible alarm which alerts the operator when maximum chassis inclination is reached and the platform is out of the transport position.	B5 Extreme	Visually check chassis inclination via control panel before operating the aerial part of the machine. Check calibration of electronic inclinometer on a regular basis.	A1 Low
4.5	Load and moment-sensing system failure	Crushing	Operation	Operator's manual recommends pre-operation check of safety devices at the start of every shift.	C5 Extreme	Always perform pre-operation inspection. Do not operate a faulty plant.	A1 Low
4.6	Excessive work platform inclination	Falling	Operation	Work platform automatic levelling system present.	A5 High	Wear fall-arrest harness. Regularly check operation of work platform levelling system. Inhibit work platform movements which cause the work platform angle to exceed 10 degrees.	A1 Low
4.7	Operator control	Woker falls from basket Overturning Impact	Operation		C5 Extreme	Operate the drive control levers gently in order to avoid abrupt and jerky movements. When driving, pay special attention to stability and the dimensions, especially the length, of the machine.	B2 Low

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						Wear safety harnesses and keep them fastened whenever operating the machine.	
4.8	Uncontrolled movement of plant components	Crushing Impact Shearing	Set up Operation Maintenance Cleaning Troubleshoot	Prestart inspection as per manufacturers recommendation. Crush, shear hazard decals on machine.	C3 High	Isolate power to plant and remove the main switch key when performing maintenance and cleaning tasks. Stay clear of components which may swing or drop unexpectedly. Maintenance to be carried out by a competent person. Pay attention to crush and shear hazard decals to machine.	B2 Low
4.9	Inadvertent operation of controls	Crushing Impact	Set up Operation Maintenance Emergency	Plant movement stops when controls are released. Work platform controls protected with fixed barriers.	C5 Extreme	Always depress the emergency stop button whenever the plant is not being operated. Understand the risks associated with inadvertent operation and avoid placing yourself in compromising positions.	B2 Low
4.10	Lowering / Raising - work platform Moving parts	Crushing Impact Shearing Drawing Severing	Set up Operation Maintenance Troubleshoot	Decals indicating crush hazards affixed to plant. All movements controlled via hold-to-run controls. Remote control available for driving, positioning, tracking and off-tracking of the plant.	C4 Extreme	Take appropriate safety measures e.g. barricades to keep people away from plant's operating areas. Ensure all persons are clear of moving components before performing a movement. Maintenance to be carried out by a competent person.	B2 Low
4.11	Entering/exiting the work platform (basket)	Falls	Operation	Use fold down step to help gain access.	C3 High	Ensure basket is horizontal and if necessary, adjust it by means of the special controls prior to moving from stowed position.	B1 Low

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						Do not move between the basket and a structure outside the machine, machine stability could be jeopardised. Workers and equipment must enter and exit the basket only when it is at ground level. Always face inwards and maintain 3-points of contact when entering or exiting the basket.	
4.12	Manoeuvring the work platform near fixed structures	Crushing Shearing	Set up Operation	Work platform fitted with inner handrails to prevent crushing of fingers/hands by fixed structures.	C4 Extreme	Do not reach out or have body parts outside the work platform's rails while the work platform is moving. Beware of overhead obstructions during plant movement.	B1 Low
4.13	Operating plant from the work platform	Crushing Falling Impact	Set up Driving	Residual risks associated with driving operation given in Operator's Manual.	A5 High		B1 Low
4.14	Unexpected work platform movement.	Impact Crushing Falling	Operation	Harness anchor points fitted to work platform.	B5 Extreme	Wear safety harness when in the work platform. Hold on to grab rails during platform movement.	B1 Low
4.15	Platform overload	Crushing Falling Impact	Operation	Plant limitation displayed on work platform and Operator's Manual. Plant fitted with load and moment sensing system. Platform can be operated using auxiliary power even if platform is overloaded following contact with an overhead obstacle.	B5 Extreme	Do not overload the work platform.	B1 Low

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4.16	Faulty/out of calibration load and moment indicator	Crushing Impact Overturning	Operation		B5 Extreme	Perform periodic testing and calibration of load and moment indicator as per manufacturer's recommendations and/or local authority requirements.	B1 Low
4.17	Falling objects	Falling objects Impact	Operation	Barricade work area under fall zone to create a no-go zone.	C3 High	Secure items such as tools and consumables which could fall from basket. Lay items flat and evenly across the floor of the basket.	B2 Low
4.18	Falling from basket	Fall Death	Operation	Drop gate. Lanyard attachment point.	C5 Extreme	Check that the sliding bar which protects the opening of the basket is closed and positioned correctly. Safety harness to be worn at all times and secured to the designated hook in the basket.	B2 Low
4.19	Raising boom	Crush between fixed structure and basket	Operation	Check surroundings prior to starting and continually throughout job.	C4 Extreme	Be aware of potential crush hazards in the direction of movement before moving the work platform. Hard hat may be required if working near overhead obstructions.	B2 Low
4.20	Operation of hand pump	Fatigue Muscle strain	Emergency	Electric auxiliary pump may be used for emergency recovery.	B3 Medium	Use sound ergonomic principles to minimise the risk of injuries.	A1 Low
4.21	Removal/installation of work platform	Impact Musculoskeletal injury	Maintenance Transport		D3 High	2-person lift is required to lift the work platform in position. Use mechanical aids such as forklift or floor crane to support the basket.	A1 Low
4.22	Engine exhaust pipe	Burn	Operation	Exhaust pipe guarded.	C2 Medium	Do not touch exhaust pipe when hot.	A1 Low

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4.23	Refuelling	Explosion Fire Burn Skin condition	Maintenance		B4 High	When refuelling: • Keep away from ignition sources • Do not smoke • Avoid spilling fuel over hot engine • Avoid fuel contact with body parts.	A2 Low
4.24	Faulty/out of order, or poorly maintained plant	Crushing Impact Trauma	Operation Emergency Maintenance	Operator's manual outlines plant maintenance schedule. Current maintenance inspections up to date as per manufacturers recommendation.	B4 High	Always perform pre-operation inspection before operating the plant. Implement 'tag out' procedure to isolate faulty/out of order plants. Do not use an 'out of order' plant. Record all faults in logbook. Perform plant maintenance as per manufacturer's maintenance schedule. Keep maintenance records / plant logbook up to date.	B1 Low
4.25	Plant modifications after completion of risk assessment.	Crushing Overturning	Operation Set up		C5 Extreme	Ensure modifications made to the plant are inspected, assessed, and approved by a competent person. Review hazard analysis and risk assessment after plant modifications.	B1 Low
5	Transport						
5.1	Loading and unloading – driving on	Overturning Crushing	Transport	Use low speed / low engine RPM on slopes / ramps.	C4 Extreme	Follow appropriate loading procedures including using weight rated ramps, have ramps at a low inclination, all person clear from the loading zone and placing the	B2 Low

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						heavy end towards the front of the tray or tow hitch on a trailer.	
5.2	Loading and unloading – lifting on	Crush Impact	Transport Lifting	Lifting procedure included in Operator's Manual.	C5 Extreme	Follow appropriate lifting procedure.	B2 Low
5.3	Failure of lifting slings / chains used for lifting or tying down / tie down straps	Overturning Crushing	Transport Lifting	Plant is fitted with designated lifting and tied down points.	C5 Extreme	Use tie-down points provided on the plant to secure it for transportation. Ensure lifting slings and tie down straps are in good condition. Ensure lifting slings have a SWL suited to the load.	B2 Low
6	Plant Failure						
6.1	Plant failure including: - malfunction of control devices - structural failure of machine components - failure of lift / tie down points	Crushing Impact	Operation	Follow routine maintenance inspections by qualified person as per manufacturers recommendation. Use designated tie down points. Prestart inspection as per manufacturers recommendation. Structural calculation supplied by manufacturer demonstrate suitability of structural members for the load combinations considered.	B5 Extreme	Carry out pre-operational function tests of safety related functions at the start of every shift. Beware of risks associated with inadvertent operation of the machine, avoid compromising machine positions. Familiarise with location of emergency stop buttons. Regularly inspect the MEWP as per maintenance schedule to ensure integrity of structural members.	B2 Low
6.2	Failure of basket to lower.	Falling	Emergency	Plant fitted with emergency lowering system. Emergency retrieval procedure included in Operator's Manual and on decals on the plant near emergency controls.	C5 Extreme	Beware of the dangers of working at heights. Become familiar with emergency rescue procedures.	B1 Low

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6.3	Emergency recovery controls failure	Health deterioration Death	Emergency		C4 Extreme	Regularly test emergency recovery system.	A1 Low
6.4	Burst hydraulic hose	Crushing Overturning Burn Skin irritation	Set up Operation Maintenance	Counter-balance valves fitted on lift and extension cylinders.	A3 Medium	Check hydraulic hose condition during periodic maintenance. Report and "tag out of service" if identified.	A2 Low
6.5	Excessive hydraulic oil pressure.	Impact Crushing	Set up Operation	Plant fitted with pressure relief valve.	C3 High	Check pressure settings during preventative maintenance.	A1 Low
6.6	Loss of hydraulic pressure	Crushing Injection	Operation Emergency Maintenance	Load-holding valves fitted on all hydraulic cylinders.	A5 High	Do not operate a faulty plant. Check operation of counterbalance valves as recommended by manufacturer. Do not disconnect hydraulic hoses, loosen off valves or fittings to attempt the recover a broken-down plant; follow emergency recovery procedures instead. Always support booms, etc. before disconnecting hoses or valves.	B1 Low
6.7	Damage to tracks	Overturning Crushing Impact	Operation	Prestart inspection as per manufacturers recommendation.	C3 High	Avoid driving on the following terrains or work sites • Environments with crushed stone, iron bars, scrap metal or similar recycling material • Daily/continuous driving on asphalt or concrete • Work sites with sharp objects, such as broken stones or concrete waste Work sites with corrosive substances (fuels, oil, salt or fertilisers)	B2 Low
7	Electrical						

ID	Description of Hazard Potential		Activity	Risk control measures already implemented	Risk	Supplementary risk control measures	Risk score
	Origin	Consequence					
7.1	Damaged power cables, components.	Electrocution Shock Fire	Set up Operation Maintenance Troubleshoot Emergency	RCD fitted to 240V circuit. Fuse protection on electrical circuits.	C1 Low	Ensure plant and extension cord are electrically tested and tagged as per AS 3760. Ensure power supply and extension lead match plant's voltage and current requirements. Use appropriate means to supply power to the plant. That is, only use extension leads rated to 15 amps. Do not operate/use equipment with an expired test tag. Ensure inline RCD is used when charging the batteries. Visually inspect the plant and extension lead before resetting the thermal fuse and RCD.	B1 Low
7.2	Electronic component failure	Crushing	Operation	Electrical and electronic components comply with design safety categories stipulated in AS 1418.10-2011. Emergency stop buttons available at each control station.	A5 High	Become familiar with location of emergency stop buttons. Perform function tests, including operation of E-Stops at the start of every shift.	A1 Low
7.3	Earthing fault	Electrocution Shock Fire	Set up Operation Maintenance	Plant fitted with thermal fuse and residual current device (RCD).	C4 Extreme	Use appropriate means to supply power to the plant. That is, use extension leads with neutral, live and EARTH wire and pin. Ensure the plant's appliance inlet is regularly tested and tagged as per AS 3760.	A2 Low

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	Origin	Consequence					
						Do not operate a plant with an expired electrical safety tag. Visually inspect the plant and extension lead before turning the power ON.	
7.4	Contact with live conductors under plant cover	Shock Electrocution	Emergency Maintenance		C5 Extreme	Do not touch terminals/wires inside the electric cabinet. Keep electric cabinet closed and locked at all times.	A2 Low
7.5	Radiofrequency remote control system operation.	Medical implant interference.	Set up Operation Maintenance	Radiofrequency system uses frequencies in accordance with Australian regulatory authorities.	B5 Extreme	Ensure radiofrequency system is properly maintained. Avoid having remote control in proximity to medical implants such as hearing aids and pacemakers.	A2 Low
7.6	Overhead power lines	Electrocution	Set up Operation Transport Emergency	Operator's manual and decals show minimum safe distances when working near power lines. Decal on work platform states that the plant is not electrically insulated.	C5 Extreme	Follow local authorities' regulations regarding safe distance from powerlines. Ensure overhead power is switched off or use a spotter if safe distances cannot be maintained. Be mindful of overhead power lines on roads when transporting the plant on a vehicle. Do not move, approach or come in contact with a plant that has contacted power lines until network power has been isolated.	A3 Medium
7.7	Lightning	Electrocution Shock	Set up Operation		A5 High	Do not use the plant during a thunderstorm.	A1 Low
8	Rail Mode						

ID	Description of Hazard Potential		Activity	Risk control measures already implemented	Risk	Supplementary risk control measures	Risk score
	Origin	Consequence					
8.1	Travelling on rail line - collision - derailment - runaway plant	Overturning Impact	Operation	Plant fitted with light beacon to alert pedestrian of incoming vehicle. Horns fitted to plant so operator can alert bystanders on approach. Plant wheels can be earthed to be able to active railway track signals. Maximum travel speed is 10 km/h. MEWP only permitted to travel with slew angle within 38 degrees of the longitudinal axis Plant fitted with anti-derailment system. Negative brakes present on one rail axle. Tracking and off-tracking sequence ensures a braked wheel is always in contact with rail head. Plant fitted with rear oscillating axle to minimise the effect of rail superelevation and inclination. Plant fitted with rail line debris removal brushes on leading end of each wheel.	C5 Extreme	Drive to conditions Obtain authorization from network administrator before accessing railway track. Do not drive over debris on rail tracks.	B2 Low
8.2	Excessive rail track superelevation.	Crushing Falling	Operation	Stability calculations consider superelevation.	A4 High	Observe plant limitation indicated in the operator's manual and safety decals.	A1 Low

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	Defective / damaged rail track.			Safety devices prevent plant operation with excessive chassis inclination.		Do not operate the plant over damaged rail track.	
8.3	On-railing / offrailing operation.	Crushing	Operation		C3 High	Ensure road surface of area selected for on-railing / off-railing is flat, solid, and sufficiently large to manoeuvre the plant.	A1 Low
8.4	Work near multiple, parallel and bi-directional lines.	Crushing Impact	Set up Operation	MEWP fitted with lockable slew limiter to allow operation only through 180°.	C5 Extreme	Obtain authorization from network administrator before accessing a rail corridor. Confirm slew lock blocks operation in the correct side of the rail corridor. Only work in the presence of rail traffic if it is absolutely necessary.	B3 Medium
8.5	Working under railway power lines when in rail mode.	Electrocution	Operation	Plant fitted with redundant height limiter which prevents the work platform from raising above 3.0 metres. System is enabled via key switch (located on ground controls) and indicating light on the platform control panel.	C5 Extreme		B2 Low
8.6	Lowering/raising rail gear.	Crushing	Set up Operation Maintenance Troubleshoot	Crush hazard decals present on various places of the plant. Audible alarm present during rail gear movement. All movements controlled via hold-to-run controls. Remote control available for driving, positioning, tracking and off-tracking of the plant	C4 Extreme	Ensure all persons are clear of moving components before performing a movement. Be aware of the presence of objects and persons in the vicinity of the plant. User the remote control for tracking, offtracking and for positioning the plant on the rail tracks.	A2 Low

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						Maintenance to be carried out by a competent person.	

RISK MATRIX							ACTION	HEIRACHY OF CONTROLS
		CONSEQUENCE					**EXTREME –** Do not proceed, until further control measures are implemented to lower the risk. Senior management attention required. **HIGH –** Review and introduce additional controls to lower level of risk. Needs senior management attention. **MEDIUM –** Monitor and maintain supervision and controls. Specify management responsibility. **LOW –** Monitor and manage by routine procedures and monitoring.	1. Elimination – controlling the hazard at the source 2. Substitution – e.g. replacing one substance or activity with a less hazardous one 3. Isolation – e.g. use of barriers to shield or isolate the hazard, enclosures for noisy machinery, installing guards on machinery 4. Engineering – e.g. design and install equipment to counteract the hazard 5. Administration – policies and procedures for safe work practices 6. Personal Protective Equipment – e.g. respirators, ear plugs, face masks, safety glasses, safety shoes
		1. Insignificant	2. Minor	3. Moderate	4. Major	5. Catastrophic		
LIKELIHOOD	**E. Almost Certain** Is expected to occur immediately or within a short timeframe	HIGH	HIGH	EXTREME	EXTREME	EXTREME		
	D. Likely Will probably occur in most circumstances	MEDIUM	HIGH	HIGH	EXTREME	EXTREME		
	C. Possible Could happen and has occurred here or elsewhere	LOW	MEDIUM	HIGH	EXTREME	EXTREME		
	B. Unlikely Unlikely to occur	LOW	LOW	MEDIUM	HIGH	EXTREME		
	A. Rare Not expected to occur	LOW	LOW	MEDIUM	HIGH	HIGH		

CONSEQUENCE DESCRIPTORS			
SEVERITY	**SAFETY**	**ENVIRONMENT**	**BUSINESS**
5. Catastrophic	Potential for incident resulting in serious damage and/or fatality	The aspect is legally or contract regulated and has the potential for a disastrous long term impact resulting in prosecution.	Loss > $1M
4. Major	Potential for incident resulting in serious damage and/or permanent disabling illness or injury	The aspect is legally or contract regulated and has the potential for a serious long term impact resulting in prosecution.	Loss of service provision
3. Moderate	Potential for incident resulting in significant damage and/or temporary disabling illness or injury	Significant environmental aspect with short term impact resulting in improvement notice.	Loss $100K - $1M
2. Minor	Potential for incident resulting in moderate damage and/or requiring medical treatment.	The aspect is legally or contract regulated and has the potential for a moderate reversible short term impact resulting in an improvement notice.	Prolonged reduction in service provision or productivity
1. Insignificant	Potential for incident resulting in minor damage and/or injury requiring first aid treatment	The aspect is not legally or contract regulated and has the potential for a minor negligible impact.	Loss $10K - $100K