

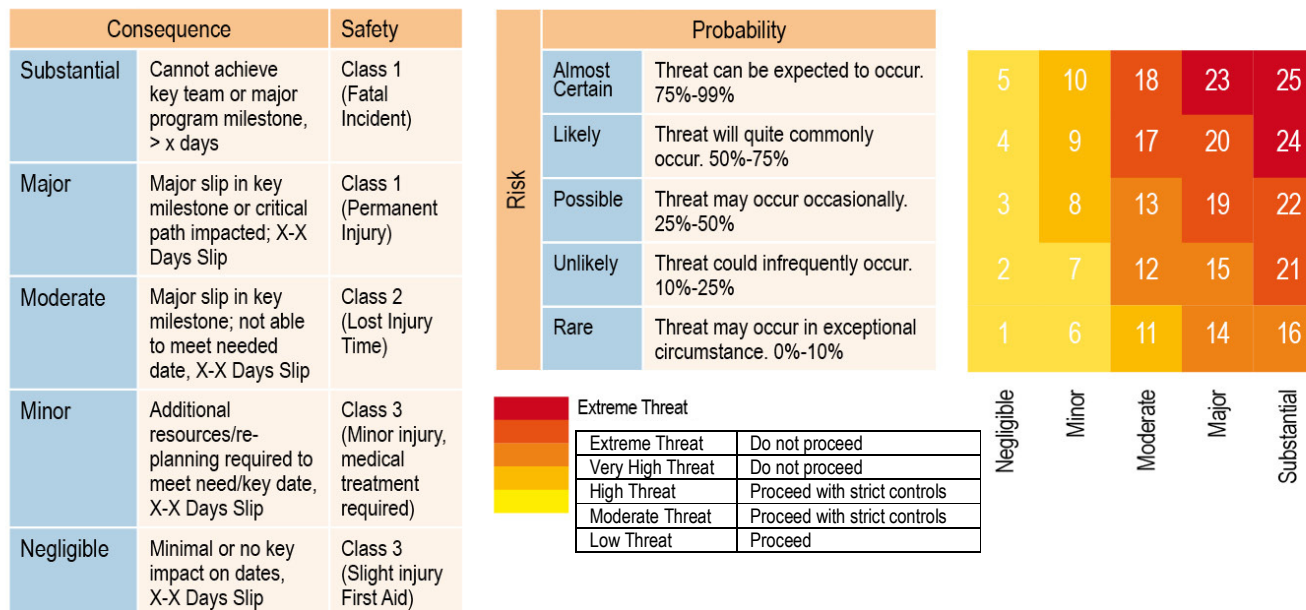
# Plant Hazard Identification and Risk Assessment – CFS Hire Pty Ltd

Issue date: 11/05/2012  
Review date: 11/05/2019

## Plant information

<b>Plant item:</b>	<p><i>Operation of Genie Electric EWP(Knuckle &amp; Stick Boom</i></p> <p><b>Genie GR-15</b> <b>s/n GR11-17848</b></p>	<b>Plant identification details (asset/plant no.):</b>	<b>SM-01</b>	
<b>Project:</b>	<p><b>Hirer:</b> <b>Project:</b> <b>Suburb:</b></p>			
<b>Competency required to operate the plant:</b>	<p><i>Competency based training by an Accredited Trainer</i></p>			
<b>List all legislation, codes of practice and Australian Standards applicable to this item of plant:</b>	<p><i>WH&amp;S Act 2011</i> <i>WH&amp;S Regulations 2011</i> <i>AS 2550 – Cranes, hoists and winches – Safe Use – Part 10: Mobile Elevating Work Platforms</i> <i>AS 1418 – Cranes, hoists and winches – Safe Use – Part 10: Mobile Elevating Work Platforms</i> <i>Electrical Safety Regulations 2013</i></p>			
<b>List other documentation relevant to this plant reviewed during this assessment? ie SWMS, SOPs, JASO Manufacturer’s Handbook.</b>	<p><i>Operational Manual/Inspection Handbook for Genie Industries</i></p>			
<b>Assessment conducted by: Names and positions</b>	<p><i>ED HORWOOD</i></p>		<b>Date:</b>	<p><i>3/07/2018</i></p>
			<b>Signature:</b>	

The following risk ranking criteria are used to assess the level of risk for the various aspects involved in a design. Higher risks require increased levels of control.



**Note:** Existing SH&EWMS etc are to be reviewed along with other control measures relating to the plant. If the assessment identifies that a SH&EWMS is not fit for the purpose, note this as a corrective action required in the **Additional Controls** section.

**Maintenance and repair assessment** (Complete this section for assessment of **Major Maintenance and repair** activities only – Minor maintenance, inspection and casual access by the operator to included in operational assessment)

<b>Maintenance/repair being assessed:</b>		Yes, records available.	
<b>No. of employees working on(or likely to be working on) plant:</b>		Depending on type of work – Minimum 1.	<b>Estimate of duration of activity:</b> <b>2 Weeks</b>
<b>Type of activity:</b>	<b>Scheduled frequency.</b>	<b>By Whom</b>	<b>Location of maintenance:</b>
<input checked="" type="checkbox"/> Scheduled.	• Daily	Operator	<input checked="" type="checkbox"/> On site. <input type="checkbox"/> Off site.
	• 3 Monthly	Service Fitter	<input checked="" type="checkbox"/> On site. <input type="checkbox"/> Off site.
	• Annually	Service Fitter	<input type="checkbox"/> On site. <input checked="" type="checkbox"/> Off site.
<input checked="" type="checkbox"/> Unscheduled.	When and if it malfunctions		<input checked="" type="checkbox"/> On site. <input checked="" type="checkbox"/> Off site.
<b>Competency requirements for maintenance:</b> (eg electrical, welding, etc)	<p>Scheduled maintenance inspections shall be completed by qualified service technicians according to manufacturer’s specifications. All inspections maintenance and repairs shall be carried out by a Competent person.</p> <p><b>AS 2550.10 Cranes, hoists and winches – Safe Use Mobile elevating work platforms states:</b>  <b>Competent person.</b>  <b>A person who has acquired through training, qualification, experience or a combination of these, the knowledge and skill enabling that person to correctly perform the required task.</b></p>		
<b>References</b> (Australian Standards, maintenance manuals etc):	<p>AS 2550.10 Cranes, hoists and winches – Safe Use – Mobile elevating work platforms  AS 1418.10 Mobile elevating work platforms  Genie Manufacturers Service Manual  Genie Manufactures Operators Manual  Electrical Safety Regulations 2013</p>		
<b>Identified energy sources:</b>	Battery Powered	<b>State method of isolation:</b>	Lockable Isolation switch



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<b>Other permit to work required?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If Yes, which permits:</b>	
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**Hazard identification and risk assessment during operations and/or maintenance activities**

<b>Section 1</b>	Put an <b>X</b> if the hazard does apply to the plant. Leave blank if the hazard does not apply to the plant.	<b>Section 4</b>	Then indicate the <b>Consequence, Likelihood</b> and <b>Risk Rating</b> .
<b>Section 2</b>	Write where on the plant the hazard exists.	<b>Section 5</b>	Write the existing Controls and relevant Comments relating to additional controls required
<b>Section 3</b>	Indicate when the exposure is likely to occur? During Operations ( <b>O</b> ), Maintenance ( <b>M</b> ) or Both ( <b>B</b> ).	<b>Section 6</b>	Indicate the residual risk taking into account controls being implemented after considering applicable legislation, Codes, Standards, etc.

SECTION 1 Hazard category and examples	SECTION 2 Where on this plant does this hazard exist?	SECTION 3 Exposure during O M or B?	Section 4			SECTION 5 Controls and comments	SECTION 6 Residual Risk		
			Consequence	Likelihood	Risk Rating		Consequence	Likelihood	Risk Rating

**Entanglement** Yes  No   
Can anyone's hair, clothing, gloves, necktie, jewellery, rags and other materials become entangled with moving parts of plant, or materials in motion?

<input checked="" type="checkbox"/> Arms, hands, fingers, or upper body <input checked="" type="checkbox"/> Legs, feet, or lower body	Platform operations	B	Major	Possible	Very High Threat 19	Ensure machine is isolated in accordance with the project isolation and tag out procedure.	Major	Rare	High Threat 14
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**Crushing** Yes  No   
Can anyone be crushed due to falling, uncontrolled or unexpected movement of plant or its load, lack of capacity to slow, stop or immobilise the plant, tipping or rolling over, parts of plant collapsing, contact with moving parts during testing, inspection, maintenance, cleaning or repair, thrown off, under or trapped between plant and materials or fixed structures?

<input type="checkbox"/> Exposed edges (falling) <input type="checkbox"/> Tools being dropped <input type="checkbox"/> Material falling or being ejected from working area <input type="checkbox"/> Moving components <input type="checkbox"/> Machine overturning <input type="checkbox"/> Uncontrolled movement of loads. <input checked="" type="checkbox"/> Nip points	Scissor extension	B	Major	Possible	Very High Threat 19	<p>All nip points to be highlighted via stickers or signage.</p> <p>Do not place any part of body outside of handrails whilst machine is moving.</p>	Major	Rare	High Threat 14						
<input checked="" type="checkbox"/> Plant tipping or rolling over	Foundation	B	Substantial	Possible	Very High Threat 22	<p>Maximum Capacity</p> <table border="1" data-bbox="1245 1011 1608 1154"> <thead> <tr> <th>Model</th> <th>Platform Capacity</th> <th>Maximum Occupants</th> </tr> </thead> <tbody> <tr> <td>GR15</td> <td>227kg</td> <td>1</td> </tr> </tbody> </table> <p>Limit switches must not be altered or disabled</p>	Model	Platform Capacity	Maximum Occupants	GR15	227kg	1	Substantial	Rare	High Threat 16
Model	Platform Capacity	Maximum Occupants													
GR15	227kg	1													
						Substantial	Rare	High Threat 16							



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						The following EWP's not to be driven over 0.8kph with the platform raised:  <i>Genie – GR15</i>	Substantial	Rare	High Threat 16
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						<p><b>Maximum Slope Ratings</b></p> <table border="1"> <thead> <tr> <th>Model</th> <th>Slope Rating Stowed</th> <th>Side Slope Rating Stowed</th> </tr> </thead> <tbody> <tr> <td>GR15</td> <td>30% (17°)</td> <td>30% (17°)</td> </tr> </tbody> </table> <p><b>Maximum Allowable Manual Force</b></p> <table border="1"> <thead> <tr> <th>Model</th> <th>Manual Force</th> <th>Maximum Occupants</th> </tr> </thead> <tbody> <tr> <td>GR15</td> <td>200N</td> <td>Indoor – 1</td> </tr> </tbody> </table>	Model	Slope Rating Stowed	Side Slope Rating Stowed	GR15	30% (17°)	30% (17°)	Model	Manual Force	Maximum Occupants	GR15	200N	Indoor – 1	Substantial	Rare	High Threat 16
Model	Slope Rating Stowed	Side Slope Rating Stowed																			
GR15	30% (17°)	30% (17°)																			
Model	Manual Force	Maximum Occupants																			
GR15	200N	Indoor – 1																			
						Mast not to be raised if winds may exceed 12.5m/s – if wind exceeds 12.5m/s when mast is raised, lower the platform and do not continue.	Substantial	Rare	High Threat 16												
						Do not operate in strong or gusty winds	Substantial	Rare	High Threat 16												
						Use outriggers where equipped	Substantial	Rare	High Threat 16												
						Do not drive over uneven terrain, unstable conditions or other hazardous conditions	Substantial	Rare	High Threat 16												
						All tools and materials to be evenly distributed and to be safely handled by person in the platform	Substantial	Rare	High Threat 16												

						Aerial work platform not to be modified or altered without written permission by the manufacturer	Substantial	Rare	High Threat 16
						Do not use the machine on a moving or mobile surface or vehicle	Substantial	Rare	High Threat 16
						Ensure all tyres are in good condition, castle nuts are properly tightened and cotter pins are properly installed.	Substantial	Rare	High Threat 16
						Do not use machine as a crane	Substantial	Rare	High Threat 16
						Do not tie the platform to adjacent structures	Substantial	Rare	High Threat 16
						Operate in accordance with Operators Manual	Substantial	Rare	High Threat 16
<input checked="" type="checkbox"/> Parts of plant closing or collapsing	Scissor extension	B	Major	Possible	Very High Threat 19	Before maintenance is performed under platform ensure safety arm is in place	Major	Rare	High Threat 14
						Keep hands and feet out of scissors	Major	Rare	High Threat 14
<input checked="" type="checkbox"/> Trapping between plant and materials or fixed structures	Handrails and Platform	O	Major	Unlikely	High Threat 15	Ensure that there is a qualified experienced operator.	Major	Rare	High Threat 14
						Do not place hands and feet out of platform whilst moving	Major	Rare	High Threat 14



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<input type="checkbox"/> Failure resulting in loss of contents or load									
<b>Cutting/ Stabbing/ Puncturing - Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></b> Can anyone be cut, stabbed or punctured by coming in contact with moving plant or parts, sharp or flying objects, work pieces ejected, work pieces disintegrated or other factors not mentioned?									
<input type="checkbox"/> Contact with flying parts or work pieces <input type="checkbox"/> Parts or work pieces breaking (disintegrating) <input type="checkbox"/> Work pieces ejected <input type="checkbox"/> Movement of plant or components <input type="checkbox"/> Isolation of energy sources <input checked="" type="checkbox"/> Body or body parts caught between moving components <input type="checkbox"/> Other (please specify)	Scissors	B	Substantial	Possible	Very High Threat 22	Before maintenance is performed under platform ensure safety arm is in place Keep hands and feet out of scissors	Substantial	Rare	High Threat 16
<b>Shearing - Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></b> Can anyone's body parts be cut off between two parts of the plant and a work piece or structure?									
<input checked="" type="checkbox"/> Body or body parts caught between moving components <input type="checkbox"/> Isolation of energy sources <input checked="" type="checkbox"/> Body or body parts shear when passing structure.	Scissor	B	Major	Possible	Very High Threat 19	All nip points to be highlighted via stickers or signage.	Major	Rare	High Threat 14
						Check work areas for overhead obstructions or possible hazards	Major	Rare	High Threat 14
<b>Striking - Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></b> Can anyone be struck by moving objects due to plant or surfaces of the plant, or material handled by plant operation?									



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<input checked="" type="checkbox"/> Uncontrolled or unexpected movement of plant ( <i>warning sirens req'd?</i> ) <input type="checkbox"/> Uncontrolled or unexpected movement of components or material ( <i>warning sirens req'd?</i> ) <input type="checkbox"/> Moving objects due to parts or work pieces breaking (disintegrating) <input type="checkbox"/> Work materials protruding into travel path	Platform	O	Major	Unlikely	High Threat 15	Check the work area for overhead obstructions or other possible hazards	Major	Rare	High Threat 14
						Be aware of limited sight distance and blind spots when driving or operating	Major	Rare	High Threat 14
						Be aware of the extended platform position when moving the machine	Major	Rare	High Threat 14
						No 'stunt' driving or horseplay while operating a machine	Major	Rare	High Threat 14



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of Machine <input checked="" type="checkbox"/> Normal movement of plant <input type="checkbox"/> Isolation of energy sources <input type="checkbox"/> Other (please specify)						Do not operate unless properly trained to safely operate the machine	Major	Rare	High Threat 14
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**Electricity (Shock or burns) Contact** - Yes  No

Can anyone be injured by electrical shock or burnt due to damaged or poorly maintained leads or switches, water near electrical equipment, working near or contact with live electrical conductors, lack of isolation procedures or the factors not mentioned?

<input type="checkbox"/> Contact via damaged or poorly maintained electrical leads and cables <input type="checkbox"/> Overloading of electrical circuits <input type="checkbox"/> Isolation of electrical energy sources <input checked="" type="checkbox"/> Contact with or proximity to live electrical conductors <input type="checkbox"/> Contact via damaged electrical control devices <input type="checkbox"/> Contact via water entry <input type="checkbox"/> Other (please specify)	Platform	B	Substantial	Possible	Very High Threat 22	<p><b>Maintain safe distances from electrical power lines and apparatus in accordance with AS 2550.5, Electrical Safety Regulations 2013 Schedule 4 And as per manufacturers chart below:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Voltage Phase to Phase</th> <th colspan="2">Minimum Safe Approach Distance</th> </tr> <tr> <th>Feet</th> <th>Meters</th> </tr> </thead> <tbody> <tr> <td>0 to 300V</td> <td colspan="2" style="text-align: center;">Avoid Contact</td> </tr> <tr> <td>300V to 50KV</td> <td style="text-align: center;">10</td> <td style="text-align: center;">3.05</td> </tr> <tr> <td>50KV to 200KV</td> <td style="text-align: center;">15</td> <td style="text-align: center;">4.60</td> </tr> <tr> <td>200KV to 350KV</td> <td style="text-align: center;">20</td> <td style="text-align: center;">6.10</td> </tr> <tr> <td>350KV to 500KV</td> <td style="text-align: center;">25</td> <td style="text-align: center;">7.62</td> </tr> <tr> <td>500KV to 750KV</td> <td style="text-align: center;">35</td> <td style="text-align: center;">10.67</td> </tr> <tr> <td>750KV to 1000KV</td> <td style="text-align: center;">45</td> <td style="text-align: center;">13.72</td> </tr> </tbody> </table>	Voltage Phase to Phase	Minimum Safe Approach Distance		Feet	Meters	0 to 300V	Avoid Contact		300V to 50KV	10	3.05	50KV to 200KV	15	4.60	200KV to 350KV	20	6.10	350KV to 500KV	25	7.62	500KV to 750KV	35	10.67	750KV to 1000KV	45	13.72	Substantial	Rare	High Threat 16
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750KV to 1000KV	45	13.72																																	
Do not operate during lightning or storms						Substantial	Rare	High Threat 16																											
Do not use the machine as ground for welding						Substantial	Rare	High Threat 16																											

**Explosion/Fire** - Yes  No

Can anyone be injured by an explosion of gas, vapours, liquids, dusts or other substances, triggered by plant operation?

<input checked="" type="checkbox"/> Ignition of flammable atmosphere initiated by the plant <input type="checkbox"/> Ignition of flammable atmosphere initiated by material <input checked="" type="checkbox"/> Ignition of flammable material by the plant <input type="checkbox"/> Ignition of flammable material by the process <input type="checkbox"/> Other (please specify) Housekeeping	Engine Compartment	B	Major	Unlikely	High Threat 15	Do not operate the machine or charge the battery in hazardous locations or locations where potentially flammable or explosive gases or particles may be present.	Major	Rare	High Threat 14
						Ancillary equipment that is not an integral part of the MEWP shall be refuelled away from the MEWP.	Major	Rare	High Threat 14
<b>Slips/ Trips/ Falls - Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></b> Can anyone using the plant or in the vicinity of the plant, slip, trip or fall due to the working environment or other factors?									
<input checked="" type="checkbox"/> Uneven or slippery work or access surfaces entering or exiting the plant <input checked="" type="checkbox"/> Housekeeping hazards produced by the plant <input type="checkbox"/> Material ejected or falling from the plant <input type="checkbox"/> Inadequate work platforms (size, location, fall protection) <input checked="" type="checkbox"/> Access (ladders, stairs, walkways) to and from the plant <input type="checkbox"/> Lack of guardrails or	Platform	B	Substantial	Possible	Very High Threat 22	Do not sit, stand or climb on the platform guard rails. Maintain a firm footing on the platform floor at all times.	Substantial	Rare	High Threat 16
						DO not climb down from the platform when raised	Substantial	Rare	High Threat 16
						Keep the platform floor clear from debris	Substantial	Rare	High Threat 16



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Table with 9 columns: Description, Severity, Likelihood, Risk, Control Measures, Residual Risk, etc. Row 1: fall protection, Collapse of the supporting structure, Other (please specify), Substantial, Rare, High Threat 16.

**High Pressure Fluid** - Yes  No

Can anyone come into contact with fluids under high pressure, due to failure or misuse of the plant?



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<input type="checkbox"/> Contact with fluids or gas under pressure as part of normal operation <input checked="" type="checkbox"/> Contact with fluids or gas under pressure due to failure <input type="checkbox"/> Contact with fluids or gas under pressure due to misuse <input type="checkbox"/> Striking due to severed high pressure hoses/couplings <input type="checkbox"/> Stored energy in machine systems/accumulators counterweights <input type="checkbox"/> Isolation and bleeding of pressure energy sources <input type="checkbox"/> Other (please specify)	Air and Oil Lines	B	Major	Unlikely	High Threat 15	Do not operate the machine with a hydraulic oil or air leak (these may penetrate and or burn the skin)	Major	Rare	High Threat 14
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**Plant rolling over/ through limits - Yes  No**

Can this item of plant roll or tip over due to operating over specified working limits?

- Tip over hazard.
- Correct qualifications of operator.

See Crushing

**Working environment and ergonomics** - Yes  No

Can anyone be injured due to seating design, repetitive body movement or posture, excessive effort, poor workplace or plant design causing mental or physical stress, lack of consideration for human behaviour, poor lighting or others factors not mentioned?

<input type="checkbox"/> Inadequate lighting levels <input type="checkbox"/> Glare from artificial light <input type="checkbox"/> Glare from natural light <input type="checkbox"/> Placement and identification of controls <input type="checkbox"/> Seating design or seating location <input type="checkbox"/> Human error or behaviour aspects (Human factors) <input type="checkbox"/> Manual handling tasks associated with the plant <input type="checkbox"/> Cramped or restricted work spaces (particularly for maintenance) <input type="checkbox"/> Noise levels <input type="checkbox"/> Vibration <input type="checkbox"/> Rain or moisture <input type="checkbox"/> Radiation (ionising – non ionising) <input type="checkbox"/> Biological <input checked="" type="checkbox"/> Location of plant in the workplace <input type="checkbox"/> Other (please specify)	Engine	B	Substantial	Unlikely	Very High Threat 21	Electric powered MEWP only to be used in areas where there is limited airflow	Substantial	Rare	High Threat 16
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**Other Hazards** – Yes  No

Can anyone be injured or suffer ill health from exposure to:

<input checked="" type="checkbox"/> Chemicals <input type="checkbox"/> Toxic Gases <input checked="" type="checkbox"/> Vapours <input type="checkbox"/> Fumes	Batteries	B	Major	Unlikely	High Threat 15	Do not expose batteries or the charger to water or rain during charging	Major	Rare	High Threat 14
						Keep sparks, flames and lighted tobacco away from batteries	Major	Rare	High Threat 14
<b>Condition and suitability of plant</b>									
<input type="checkbox"/> Age and condition <input checked="" type="checkbox"/> Service and maintenance history <input type="checkbox"/> Frequency of use (high or low use or inappropriate duty cycle) <input type="checkbox"/> Not fit for purpose <input type="checkbox"/> Unsuitable accessories/fittings <input type="checkbox"/> Inability to apply isolation/lock out devices <input type="checkbox"/> Accessories in unsafe condition <input type="checkbox"/> Use in arduous environment <input type="checkbox"/> Modification from original design <input type="checkbox"/> Other (please specify)	MEWP	M	Major	Possible	Very High Threat 19	Scheduled maintenance inspections shall be completed by qualified service technicians according to manufacturer's specifications. Routine - 3 monthly inspections Periodic - 12 monthly inspections Enhanced periodic – after first 5 years (then periodic)	Major	Rare	High Threat 14
<b>System of work relating to the plant</b> <input checked="" type="checkbox"/> Emergency procedures relating to the plant  <input type="checkbox"/> Communication	MEWP	O	Major	Unlikely	High Threat 15	Emergency retrieval procedures to be in place prior to persons working at height	Major	Rare	High Threat 14



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systems associated with plant operation <input type="checkbox"/> Communication methods with plant operation <input type="checkbox"/> Use of Permit to Work system <input checked="" type="checkbox"/> Start up and shut down procedures <input type="checkbox"/> Secure against unauthorised use/access <input type="checkbox"/> Storage or restoration to service requirements <input type="checkbox"/> Other (please specify)						Always perform pre-operation inspection	Major	Rare	High Threat 14
						Always perform function tests prior to use	Major	Rare	High Threat 14

Misc Hazards									
<b>Missing or incorrectly positioned safety related systems</b> <input checked="" type="checkbox"/> Guards missing <input type="checkbox"/> Lack of signage <input type="checkbox"/> Lack of communication systems <input type="checkbox"/> Failure of emergency systems <input type="checkbox"/> Other (please specify)	Engine	B	Major	Possible	Very High Threat 19	Guards to be in place at all times when machine is in operation.	Major	Rare	High Threat 14
<b>Failure to ensure competent personnel operate plant</b> <input checked="" type="checkbox"/> Lack of training <input type="checkbox"/> lack of maintenance <input type="checkbox"/> No signage on floors indicating location	MEWP	B	Major	Possible	Very High Threat 19	Persons operating MEWP are to be trained in the safe operation of the machine in accordance with the manufacturers operational manual	Major	Rare	High Threat 14



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<input type="checkbox"/> No communication systems functioning <input type="checkbox"/> Out of Service requirements <input type="checkbox"/> Shutdown <input type="checkbox"/> Overloading  <input type="checkbox"/> Other (please specify)						Operators to have completed training through an accredited trainer	Major	Rare	High Threat 14
<b>Environmental Concerns</b>									
<b>Environmental issues causes failure</b> <input checked="" type="checkbox"/> Inclement weather causes issues <input type="checkbox"/> Wind fowls cables and snags or breaks cable <input checked="" type="checkbox"/> Water impairs operation <input checked="" type="checkbox"/> Wind speed exceeds recommended limit <input type="checkbox"/> Other (please specify)	MEWP	O	Moderate	Possible	High Threat 13	Do not operate during lightning or storms Do not operate in strong or gusty winds  Mast not to be raised if winds may exceed 12.5m/s – if wind exceeds 12.5m/s when mast is raised, lower the platform and do not continue.	Moderate	Rare	Moderate Threat 11







