

# OHW - Stacking Weights

Issue date: 08/04/08

Review date:22/02/11

<b>SWMS number:</b> SMS-06-SW-1098	<b>SWMS Name:</b> OHW - Stacking Weights			<b>SWMS Team:</b> Electrical Distribution Review Team
<b>Custodian (Position):</b> Electrical Services Manager, Commercial Renewal	<b>Assumptions:</b> Site specific risks are addressed and assessed in pre- work briefing			
<b>Approving Authority (Position):</b> Safety and Quality Manager Commercial Renewals	<b>Equipment/Plant/Tools:</b> <ul style="list-style-type: none"><li>Weight Platform(s) &amp; support strut(s)</li><li>Truck/Hiab, Cherry Picker</li><li>Weight Rod, tension regulator weights. support platform and support strut</li><li>Fluke series 70 digital multimeter.</li></ul>	<b>Records/Reporting:</b> <ul style="list-style-type: none"><li>Worksite Protection Plan</li><li>Pre-work Brief</li><li>Electrical Test Tags</li><li>Site layout documented</li><li>Services searches</li><li>Traffic Control Plan</li><li>Electrical Permits</li><li>Daily Plant Checklist</li></ul>	<b>Permits/licences required:</b> <ul style="list-style-type: none"><li>Electrical Permit Holder</li><li>Vehicle Loading Crane / Cherry Picker Accreditation</li></ul>	<b>Content reviewed by Technical expert (SME) and RailCorp safety professional</b> (position including Div/Group) Electrical Services Manager & SEQ Coordinator Asset Management Group Commercial Renewals
<b>Applicable Standards, Codes of Practice and guidance:</b> <ul style="list-style-type: none"><li>OH&amp;S Act 2000</li><li>OH&amp;S Regulation 2001</li><li>Rail Safety Regulation 2003</li><li>RailCorp Network Rules &amp; Procedures</li><li>RailCorp Safety Management System.</li><li>MSDS for all chemicals and hazardous Substances used on site</li><li>Electrical Safety Instructions</li><li>SAA Wiring Rules</li><li>OHW Construction Regulated System Anchor Arrangement, EP 08 00 00 01 ST section 4.2</li><li>C.2104 - Structure Gauge – 1994</li><li>AS/NZS 1891.3 – 1997 “Industrial fall arrest systems and devices - Fall arrest devices”</li><li>National Code of Practice for Manual Handling [NOHSC:2005]</li><li>AS 2550.11-2004 Cranes, hoists and winches - Safe use - Vehicle-loading cranes</li></ul>				
			<b>MIMS or METRE Ref:</b> Nil	<b>Personal Protective Equipment required:</b> <ul style="list-style-type: none"><li>Safety Boots</li><li>High Visibility Vests</li><li>Hardhats</li><li>Protective Clothing</li><li>Safety Glasses</li></ul> And as specified below. <ul style="list-style-type: none"><li>Fall Arrest Devices</li><li>Gloves</li><li>During all Site Works a FIRST AIDER MUST be Present</li></ul>

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Number	Step	Hazard or human error (Safety/Environmental hazards identified, including physical environment, human errors, plant and equipment)	Risk ranking before controls	Control (to be Implemented to eliminate or reduce the risk to the lowest practicable level)	Risk ranking after controls	Responsibility	Job step to be completed in accordance with (name associated documentation)
1	Supervisor undertakes site pre-work briefing and gives local induction.	Staff not Listening to Pre-Work Brief	B -	Identify all hazards, Staff to ensure they are properly Briefed as to risks involving Worksite.	D	Team Leader / Work Group Leader / All Staff	Pre-Work Briefing SMS-06-FM-0163
2	Supervisor verifies competence of personnel doing the task and currency of permits for work.	Expired Competency Cards & Permits, Unqualified type of Personnel for the Task.	B -	Visual Inspection of Personnel Competency Cards & Currency of Permits	D	Team Leader / Work Group Leader	Safety Training & Competence SMS-11-SR-0128
3	Review SWMS and confirm it is current.	Use of a SWMS that is out of date	C -	Ensure SWMS is current and up to date.	D	Team Leader / Work Group Leader	SWMS & SWI's SMS-06-PR-0023
4	Verify that plant and equipment for the task is fit-for-purpose.	Plant & Equipment kept in poor working condition	C +	Conduct a Daily Plant Checklist	D	All Staff	Plant SMS-06-GD-0225
5	Take Possession & Set up Worksite Protection	Struck by Train	A	RAC 470-99 Relevant Safe Working To be in Place prior to any working starting	D+	W 0658/9 - Site Supervisor	Network Rules and Procedures
		Bites & stings Sharps	B-	Visual inspection Visual inspection of area and clean up	D	W 0667 - Track Safety Awareness	Needle Sticks SMS-06-PR-0223
6	Attach a support platform and support strut to support the weight stack.	Back Injury Struck by falling equipment	B+	Use approved lifting methods. Mechanical assistance preferred option	D	A ES09 - Authorised RailCorp overhead line worker And persons under training	Back & Muscle Injury SMS-17-PR-0313
		Live Structure	A	Structure to Rail test during worksite set up	D		Electrical Equipment SMS-06-GD-0268
		Fall from heights	B+	While working aloft approved fall arresters to be worn. Competent staff only to work aloft.	D		Working at Heights SMS-06-GD-0240 Full Body Harness SMS-06-GD-0241 Lifting Equipment SMS-16-FM-0089
7	Connect Weight Rod to Hiab and load with tension regulator weights. Lift onto platform with Hiab and tie back to mast	Back Injury	A	Use approved lifting methods. Special care to be taken when bending and twisting motions are required.	D	A ES09 - Authorised RailCorp overhead line worker And persons under	Back & Muscle Injury SMS-17-PR-0313
		Struck by falling equipment	A	Staff not to enter fall area until weight system is properly attached to crane	D		Plant & Equipment Safety SMS-11-GD-0243 Lifting

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		Hand Injuries	B+	Care to be taken when lifting relieving weights	D	training Relevant Workcover accreditations for Cherry picker and Crane	Equipment SMS-16-FM-0089
8	If Installing by hand, first place weight rod on platform and tie back to mast, then load with tension regulator weights	Back Injury	A	Use approved lifting methods. Special care to be taken when bending and twisting motions are required.	D	A ES09 - Authorised RailCorp overhead line worker And persons under training	Back & Muscle Injury SMS-17-PR-0313 Plant & Equipment Safety SMS-11-GD-0243 Manual Handling SMS-06-GD-0001
		Struck by falling equipment	A	Staff not to enter fall area until person/persons installing weights are comfortable and ready to start receiving weights. Rotate staff to decrease repetitive strain injuries Only minium staff permitted within drop zone. These staff are to involved in this task	D		
		Hand Injuries	B+	Care to be taken when lifting and relieving weights	D		
9	Install back anchors & tighten. Install Pulley Arrangement	Back Injury	A	Use approved lifting methods. Pulley arrangements require mechanical assistance	D	A ES09 - Authorised RailCorp overhead line worker And persons under training Relevant Workcover accreditations for Cherry picker and Crane	Back & Muscle Injury SMS-17-PR-0313 Plant & Equipment Safety SMS-11-GD-0243 Full Body Harness SMS-06-GD-0241 Working at Heights SMS-06-GD-0240 Elev. Work Platform's SMS-06-SW-0310
		Struck by falling equipment	A	Only staff involved in this task to be in the fall zone. All staff to be aware of activity overhead	D		
		Fall from heights	B+	All staff working aloft to wear approved fall arresters and be competent in their use. Machinery with fence install the fences and gates must remain closed or fall arresters are to be worn	D		
10	Check that the installation is clear of track running	Struck by Train	A	Relevant Safe Working To be in Place prior to any working starting	D	A ES09 - Authorised RailCorp overhead line worker And persons under training	Network Rules and Procedures, C.2104 - Structure Gauge - 1994

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**NOTE: Each work group or team member must sign off on the SWMS to acknowledge they have been briefed about or instructed in the SWMS**

Team member name (Please print)	Team Member signature	Instructor/ Briefer name	Date	Team member name (Please print)	Team Member signature	Instructor/ Briefer name	Date

RailCorp Level 2 Risk Matrix - Regional & Local (Workplace)			Likelihood/Frequency							Definition for Use - Regional & Local level (Workplace)
			Event Frequency	Less than once every 1000 years	Once every 100 to 1,000 years	Once every 10 to 100 years	Once every 1 to 10 years	More than once per year up to and including 10 times per year	More than 10 times per year	
			Historical (Likelihood)	Unheard of in the rail industry	Has occurred once or twice in the rail industry	Has occurred many times in the rail industry, but not in NSW	Has occurred once or twice in NSW	Has occurred frequently in NSW	Has occurred frequently at specific locations	
			Workplace Predictive (Likelihood)	Not expected to occur	May occur only in exceptional circumstances	Could occur at some time but not likely	You would expect it to occur at least once in the next 10 years performing similar activities	You would expect it to occur at least once this year performing similar activities	You would expect it to occur at least once this month performing similar activities	
Consequence				F1	F2	F3	F4	F5	F6	
			Incredible	Improbable	Remote	Occasional	Probable	Frequent		
>10 Fatalities	C6	Disastrous	B-	B+	A	A	A	A	A	<p>Used for workplace hazards and safety risks that do not consider the whole of the network. Indicatively this matrix is appropriate for use where the hazards under consideration are up to 10% of the total network exposure. This includes regional and local workplace risk assessments.</p> <p>As an example, the Level 2 scale would be used when examining the risk of slips, trips and falls on specific RailCorp platforms within a region or at a particular station, or the risk of fire within a depot.</p> <p>There are 3 options for descriptors which can be used to determine the frequency category. One set of descriptors is provided for frequency, one for historical likelihood, and one for predictive likelihood in the workplace. Choose the most appropriate.</p> <p>To score the risk, follow the steps:</p> <p>1. Identify the magnitude of the credible consequence if the risk were to occur. If applicable, risks should be considered in terms of the safety (this matrix), commercial and environmental impact (using other matrices).</p> <p>2. Identify the likelihood of this level of consequence occurring. (This is done after considering the effectiveness of the current controls in place)</p> <p>3. Score the risk using the combination of likelihood and consequence ranking.</p> <p>Note: Where there are a range of credible consequences which may lead to a different level or risks and/or where the controls may be different. It may be useful to score the risk more than once.</p>
2-10 Fatalities	C5	Catastrophic	C+	B-	B+	A	A	A	A	
1 Fatality (2-10 Major Injuries)	C4	Critical	C-	C+	B-	B+	A	A	A	
1 Major Injury	C3	Major	D	C-	C+	B-	B+	A	A	
1 or more Minor Injuries	C2	Minor	D	D	C-	C+	B-	B+	B+	
First aid treatment, or illness/injury not requiring treatment	C1	Negligible	D	D	D	C-	C+	B-	B-	