

# Re-Railing

Issue date: 10/04/08

Review date: 17/02/11

<b>SWMS number:</b> SMS-06-SW-1043	<b>SWMS Name:</b> Re-Railing			<b>SWMS Team:</b> Track Review Team
<b>Custodian (Position):</b> Track Works Manager Commercial / Renewals	<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>• Rail handling crane</li><li>• Wheel, rail saw, oxy and Fire fighting gear</li><li>• Hand tools, Clippers</li></ul>	<b>Records/Reporting:</b> <ul style="list-style-type: none"><li>• Worksite Protection Plan</li><li>• Pre-work Brief</li><li>• Environmental Protection Plan</li><li>• Fuel and Hydraulic Oil MSDS</li><li>• Daily Plant Checklist</li><li>• Track alignment details</li><li>• Before and after measurement Form No. TS21</li><li>• Record of Plated Joint Form No.: 0910F2</li></ul>	<b>Permits/licences required:</b> <ul style="list-style-type: none"><li>• Rail handling crane Certificate</li><li>• Crane Chaser Certificate</li></ul>	<b>Content reviewed by Technical expert (SME) and RailCorp safety professional (position including Div/Group)</b> Track Works 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>• Classify rail in accordance with Appendix No. 0910A1</li><li>• TO 911 - Rail adjustment and track welding</li><li>• Standard TS3601 and TS3602, TS3104 and TS3111, TS3341 and TS3342, AS 1085</li><li>• AS-4839 (Safe use of Oxy-fuel Gas Sys)</li><li>• AS 2550.5-2002 Cranes, hoists and winches - Safe use - Mobile cranes</li></ul>				<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>
	<b>Inspection requirements</b> Nil	<b>Service schedule:</b> Nil	<b>Qualification required:</b> <ul style="list-style-type: none"><li>• Construction Industry Induction</li><li>• Track Safety Awareness or RISI (Rail Industry Safety Induction)</li></ul>	And as specified below.
		<b>MIMS or METRE Ref:</b> Nil		<ul style="list-style-type: none"><li>• Gloves</li><li>• Welding Gloves / Goggles / Spats</li><li>• Dust Masks (as required)</li><li>• Hearing protection (as required)</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	Mark out length of rail to be replaced and cut.	Safety – Noise Hit by Train Burns from welding  ENV- Fire	C-	Ensure track is safe, hearing and eye protection to be worn by rail saw operator. Welders to wear long sleeved shirts, trousers, gloves, goggles, leggings and knee pads. Flint lighters to be used. Staff to keep clear of hot materials. Staff to be aware of possibility of fires when using oxy-acetylene. Fire fighting equipment to be present; staff to comply with G.3623.	C-	Welder/ Rough cutters	PPE SMS-06-GD-0323 Site Incident Response Procedures SMS-15-PR-0245 Storage/Handling of Gases SMS-06-SW-0196 AS-4839 (Safe use of Oxy-fuel Gas Sys)
2	Remove old rail from track and stockpile for recovery.	Safety – Hit by Rail Hit by moving plant  Environment – Waste	C-	Crane chaser to wear hard hat, hearing protection to be used. Other staff to stand at least 20m behind Pettibone moving the rail or 5m away from the rail being moved. ENVIRONMENT - Old materials stockpiled in designated areas for recovery and recycling.	D	Current WorkCover tickets	Plant SMS-06-GD-0225 PPE SMS-06-GD-0323
3	Place new rail.	Safety – Hit by Rail Hit by moving plant Noise	C-	Crane chaser to wear hard hat, hearing protection to be used by operators, other staff to stand well clear of moving rail.	D	Current WorkCover tickets	Plant SMS-06-GD-0225 PPE SMS-06-GD-0323
4	Replace fastenings.	Hit by flying components	C-	Other staff to stand clear. When using hammers for "Pandrol" type clips, place foot on clip, other staff to stand clear.	D		Manual Handling Guide SMS-06-GD-0001
5	Install fishplates and bolts as required in the scope of works.	Cuts/Abrasions, strains	D	Gloves, eye protection	D		PPE SMS-06-GD-0323

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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						
			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	<p><b>Definition for Use - Regional &amp; Local level (Workplace)</b></p> <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> <ol style="list-style-type: none"><li>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).</li><li>2. Identify the likelihood of this level of consequence occurring. (This is done after considering the effectiveness of the current controls in place)</li><li>3. Score the risk using the combination of likelihood and consequence ranking.</li></ol> <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	
1 Fatality (2-10 Major Injuries)	C4	Critical	C-	C+	B-	B+	A	A	
1 Major Injury	C3	Major	D	C-	C+	B-	B+	A	
1 or more Minor Injuries	C2	Minor	D	D	C-	C+	B-	B+	
First aid treatment, or illness/injury not requiring treatment	C1	Negligible	D	D	D	C-	C+	B-	