

Use Of The Track Sled For Sledding Timber Track

Issue date: 11/04/08
Review date: 18/02/11

SWMS number: SMS-06-SW-1065	SWMS Name: Use Of The Track Sled For Sledding Timber Track			SWMS Team: Track Review Team
Custodian (Position): Track Works Manager Commercial / Renewals	Assumptions: Site specific risks are addressed and assessed in pre- work briefing			Content reviewed by Technical expert (SME) and RailCorp safety professional (position including Div/Group) Track Works Manager & SEQ Coordinator Asset Management Group Commercial / Renewals
Approving Authority (Position): Safety and Quality Manager, Commercial / Renewals	Equipment/Plant/Tools: <ul style="list-style-type: none"> Front End Loader, Bobcat, Track Sled, Approved Chains Hand Tools, Track Jack Oxy / LPG Cutting Equipment, Rail Saw Records/Reporting: <ul style="list-style-type: none"> Worksite Protection Plan Pre-work Brief Electrical Permits Fuel and Hydraulic Oil MSDS Daily Plant Checklist 			Permits/licences required: <ul style="list-style-type: none"> Electrical Permit Holder Front End Loader, Bobcat Operator Certificates Oxy / LPG Cutting Ticket
Applicable Standards, Codes of Practice and guidance: <ul style="list-style-type: none"> OH&S Act 2000 OH&S Regulation 2001 Rail Safety Regulation 2003 RailCorp Network Rules & Procedures RailCorp Safety Management System. MSDS for all chemicals and hazardous Substances used on site EC14 – Guide to Electrical Workers Safety Equipment National Code of Practice for Manual Handling [NOHSC:2005] WorkCover NSW Plant Guide AS 4839 portable oxy-fuel gas systems AS-3961-2005 The Storage and Handling of Gases in Cylinders 	Inspection requirements: Nil	Service schedule: Nil	Training/Qualification required: <ul style="list-style-type: none"> Construction Industry Induction Track Safety Awareness or RISI (Rail Industry Safety Induction) 	Personal Protective Equipment required: <ul style="list-style-type: none"> Safety Boots High Visibility Vests Hardhats Protective Clothing Safety Glasses / Full Face Shields <p>And as specified below.</p> <ul style="list-style-type: none"> Gloves Welding Goggles / Spats Dust Masks (as required) Hearing protection
				MIMS or METRE Ref: Nil

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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	Place sled on track	Live OHW could come in contact with machinery.	B+	Obtain Electrical Permit	D	Qualified permit holder to obtain permit and all staff to have electrical awareness.	Work Around Elect. Equip. SMS-06-GD-0268 Electrical Permits SMS-06-EN-0577
2	Conduct visual inspection of sled and chains and connection to appropriate machine	Chains breaking, sliding off machine if not connected correctly or incorrect machine used. Chains striking workers.	C+	Qualified/experienced worker to complete visual inspection and connect chain to appropriate machinery.	C-	Supervisor or qualified Staff	Plant SMS-06-GD-0225
3	Remove fastenings from rail for the first three sleepers and all rail anchors for the length of the job. (Manually or using Track Jack)	Eye, face, foot, back & hand injuries.	C+	Use appropriate PPE. Manual handling training.	C-	Supervisor or qualified staff	PPE SMS-06-GD-0323 Manual Handling Guide SMS-06-GD-0001
		Eye, face, foot, back & hand injuries.	C+	Training on machines. Use appropriate PPE. Include in pre-work briefing.	C-	Supervisors Workers Operators	PPE SMS-06-GD-0323 Pre-Work Briefing SMS-06-FM-0163 Plant SMS-06-GD-0225
4	Lift rail approximately 600mm out of ballast using track jack.	Hit by machine. Crushing.	C+	Keep clear of machinery. Training on machines. Use appropriate PPE. Include in pre-work briefing.	C-	Supervisors Workers Operators	PPE SMS-06-GD-0323 Pre-Work Briefing SMS-06-FM-0163 Plant SMS-06-GD-0225
5	Install sled between rail and sleepers using plant. (e.g. Bobcat or FEL)	Hit by machine. Crushing.	B+	Keep clear of machinery. Training on plant/machines. Use appropriate PPE.	C+	Supervisors Workers Ticketed Operators	PPE SMS-06-GD-0323 Pre-Work Briefing SMS-06-FM-0163 Plant SMS-06-GD-0225
6	Sled track at walking pace only.	Hit by machine and flying objects (ballast, jewellery, rail)	B+	Keep all staff clear of machinery (minimum of 6m) and use observer for directing machine and warning other workers to stay clear. Qualified/experienced operators. Use appropriate PPE.	C+	Supervisors Workers Ticketed Operators	PPE SMS-06-GD-0323 Pre-Work Briefing SMS-06-FM-0163 Plant SMS-06-GD-0225

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7	Cut rail using OXY / LPG or rail saw	Burns, abrasions, cuts.	C-	Use qualified staff for oxy cutting and rail saw cutting.	C-	Qualified Staff	Plant SMS-06-GD-0225 AS-4839 (Safe use of Oxy-fuel Gas Sys) Storage/Handling of Gases SMS-06-SW-0196
8	Drag sled out of track and remove.	Hit by machine. Crushing.	B+	Keep clear of machinery. Training on plant/machines. Use appropriate PPE. Include in pre-work briefing.	C+	Qualified Staff Ticketed Operators	PPE SMS-06-GD-0323 Pre-Work Briefing SMS-06-FM-0163 Plant SMS-06-GD-0225
9	Disconnect chains from machine.	Cuts, abrasions, crushing	B+	Qualified/experienced worker to complete visual inspection and disconnect chain to appropriate machinery.	C+	Qualified Staff	Plant SMS-06-GD-0225

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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

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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			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.
	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			
		F1	F2	F3	F4	F5	F6		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.
Consequence		Incredible	Improbable	Remote	Occasional	Probable	Frequent		
>10 Fatalities	C6	Disastrous	B-	B+	A	A	A	A	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.
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	To score the risk, follow the steps:
1 Major Injury	C3	Major	D	C-	C+	B-	B+	A	
1 or more Minor Injuries	C2	Minor	D	D	C-	C+	B-	B+	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).
First aid treatment, or illness/injury not requiring treatment	C1	Negligible	D	D	D	C-	C+	B-	