

Platform Renewal-Remove Timber Deck

Issue date: 19/10/10
Review date: 14/09/13

SWMS number: SMS-06-SW-0963	SWMS Name: Platform Renewal-Remove Timber Deck			SWMS Team: Civil Construction Review Team
Custodian (Position): Services Manager Civil	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) Services Manager Civil and Safety facilitator, Safety Support Services Division.
Approver (Position): Civil Electrical Works Manager Infrastructure Renewals	Plant/Equipment/Tools: <ul style="list-style-type: none"> • Crane, Elevated Work Platform, Lifting Equipment • Ladder, Scaffolding • Signs, Demarcation Fencing, Plywood, Safety Tape, Barricades • Hand Tools, Power Tools • Barriers, Witches hats and fencing • Generator 	Records/Reporting: <ul style="list-style-type: none"> • Worksite Protection Plan • Pre-work Brief • Site Specific Management Plan • Electrical Test Tags • Daily Plant Checklist • Electrical Permits 	Permits/licences required: <ul style="list-style-type: none"> • Crane / Elevated Work Platform Operator Certificate • Electrical Permit Holder • Licenced Electrician 	PPE required: <ul style="list-style-type: none"> • Safety Boots • High Visibility Vests • Hardhats • Protective Clothing • Safety Glasses / Face Shield And as specified below. <ul style="list-style-type: none"> • Fall Arrest Devices • Gloves • P2 Dust Masks • Ear Plugs / Ear Muffs • During all Site Works a FIRST AIDER MUST be Present
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 • Electrical Safety Instructions • SAA Wiring Rules • Working near Overhead Power Lines • EC14 – Guide to Electrical Workers' Safety Equipment • National Code of Practice for Manual Handling [NOHSC:2005] • WorkCover NSW Plant Guide • AS/NZS 1891.4 – 2000 “Industrial fall arrest systems and devices – Selection, use and maintenance” 	Inspection requirements Nil	Service schedule: Nil	Training/Qualification required: <ul style="list-style-type: none"> • Construction Industry Induction • RISI (Rail Industry Safety Induction) And as specified below. <ul style="list-style-type: none"> • Authorised Electrical Person • Electrical Permit Holder 	

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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	Disconnect Power From Lighting (by Electrician)	Electrocution	B+	Terminate utilities prior to removal. Licensed electrician.	C-	Licensed Electrician Team Leaders Work Group Leaders All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Electrical Equipment SMS-06-GD-0268
		Electric Shock	B+	All tools tested and tagged	C-	Team Leaders Work Group Leaders All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Electrical Equipment SMS-06-GD-0268
		Fall From Ladder	B+	Stable ground, don't stand on top rung, correct size and type for task.	C+	Team Leaders Work Group Leaders All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Working at Heights SMS-06-GD-0240
		Muscle Strain	B-	Correct manual handling. Rotate use of equipment on repetitive tasks.	C+	Team Leaders Work Group Leaders All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Manual Handling SMS-06-GD-0001
		Head Injuries	C-	Hard hats to be worn at all times implement exclusion zone for workers not involved in tasks	D	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 PPE- SMS-06-GD-0323
		Eye Injuries	C-	Eye protection to be worn at all times.	D	Team Leaders Work Group Leaders All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 PPE- SMS-06-GD-0323
2	Remove Temp Fencing	Muscle Strain	B-	Correct manual handling. Rotate use of equipment on repetitive tasks.	C+	Team Leaders Work Group Leaders All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Manual Handling SMS-06-GD-0001
		Plant Roll-Over	B+	Ensure that outriggers or stabilisers in position prior to lifting	C-	Ticketed Operator Team Leaders Work Group Leaders All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Plant SMS-06-PR-0225
		Head Injuries	C-	Hard hats to be worn at all times implement exclusion zone for workers not involved in tasks	D	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 PPE- SMS-06-GD-0323
		Eye Injuries	C-	Eye protection to be worn at all times.	D	Team Leaders Work Group Leaders All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 PPE- SMS-06-GD-0323
		Crushed Fingers	B+	Keep fingers clear	C+	Team Leaders Work Group Leaders All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 PPE- SMS-06-GD-0323

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		Contact With Live O/H Wires	A	Keep clearances at all times. Be aware. Power out permit	C+	Qualified Permit Holder QEL29/MEI61 Team Leaders Work Group Leaders All Staff	Electrical Equipment SMS-06-GD-0268 Electrical Permits SMS-06-EN-0577
		Cuts, Scratches And Abrasions	C-	Gloves to be worn as necessary.	D	Team Leaders Work Group Leaders All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 PPE- SMS-06-GD-0323
3	Dismantle Temporary Timber Deck and Remove	Muscle Strain	B-	Correct manual handling. Rotate use of equipment on repetitive tasks.	C+	Team Leaders Work Group Leaders All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Manual Handling SMS-06-GD-0001
		Cuts, Scratches And Abrasions	C-	Take care stripping and de-nailing. Gloves to be worn as necessary.	D	Team Leaders Work Group Leaders All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 PPE- SMS-06-GD-0323
		Fall From Height	B+	Use scaffolding to AS1576 or work from an approved attached climbing system or elevated work platform if it is possible to fall 2m or more	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Working at Heights SMS-06-GD-0240
		Electrocution. Use Of Power Tools	B+	All electrical equipment to be tagged /tested, earth leakage units to be used with all tools. Equipment to be fitted with effective safe guards * training *. Correct use of PPE	C-	Team Leaders Work Group Leaders All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Electrical Equipment SMS-06-GD-0268
		Noise From Power Tools.	C+	Use hearing protection	D	Team Leaders Work Group Leaders All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 PPE- SMS-06-GD-0323
		Contact With Live O/H Wires	A	Keep clearances at all times. Be aware. Power out permit	C+	Qualified Permit Holder QEL29/MEI61 Team Leaders Work Group Leaders All Staff	Electrical Equipment SMS-06-GD-0268 Electrical Permits SMS-06-EN-0577
		Damage To Rail Infrastructure	B+	Vigilance/cover to protect	C+	Team Leaders Work Group Leaders All Staff	SSMP, Pre work Briefing SMS-06-FM-0163
		Dust	B-	Implement exclusion zone wear dust mask	D	Team Leaders Work Group Leaders All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 PPE- SMS-06-GD-0323
		Objects In Eyes / Face	C-	Implement exclusion zone wear eye protection	D	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 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

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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
Consequence		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
			F1	F2	F3	F4	F5	F6
Incredible	Improbable	Remote	Occasional	Probable	Frequent			
>10 Fatalities	C6	Disastrous	B-	B+	A	A	A	A
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-

Definition for Use - Regional & Local level (Workplace)

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.

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.

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.

To score the risk, follow the steps:

- 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).
- Identify the likelihood of this level of consequence occurring. (This is done after considering the effectiveness of the current controls in place)
- Score the risk using the combination of likelihood and consequence ranking.

Note: Where there are a range of credible consequences which may lead to a different level of risks and/or where the controls may be different. It may be useful to score the risk more than once.