

Erect Retaining Walls Post And Panel

Issue date: 15/10/10
Review date: 14/04/13

SWMS number: SMS-06-SW-1253	SWMS Name: Erect Retaining Walls Post And Panel			SWMS Team: Civil Construction Review Team
Custodian (Position): Civil Services Manager	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)
Approver (Position): Civil Electrical Works Manager Infrastructure Renewals	Plant/Equipment/Tools: <ul style="list-style-type: none"> Crane, Lifting Equipment, Excavator, Bobcat, Dumper, Roller Compaction Plate, Hi-Rail Excavator, Water Cart Barricades, Demarcation Fencing, Signs, Plywood, Safety Tape, Trench Shoring, Hand Rails, Scaffolding Straps, Ties, Construction Equipment, Trolleys Silt Fencing, Hay Bales, Sand Bags, Sediment Cloth, Bungs, Steel Plates No-Spill Fuel Cans, Spill Response Kit Rigging Tools, Podger, Pelican Pick Red/Green Flag, Detonators 	Records/Reporting: <ul style="list-style-type: none"> Worksite Protection Plan Pre-work Brief Site Specific Management Plan Electrical Test Tags Electrical Permits Services Search Daily Plant Checklist Hazardous Substance Register, MSDS Environmental Protection Plan Traffic Control 	Permits/licences required: <ul style="list-style-type: none"> Electrical Permit Holder Plant Operators Certificates Dogman Certificate 	Services Manager Civil and Safety facilitator, Safety Support Services Division
Applicable Standards, Codes of Practice and guidance: <ul style="list-style-type: none"> OH&S Act 2000 OH&S Regulation 2001 SMS and Network Rules Rail Safety Regulation 2003 RailCorp Safety Policy RailCorp Network Rules & Procedures RailCorp Safety Management System. MSDS for all chemicals and hazardous Substances used on site Working near Overhead Power Lines 				PPE required: Safety Boots <ul style="list-style-type: none"> High Visibility Vests Hardhats Protective Clothing Safety Glasses, Protective Glasses or Face Shield And as specified below. <ul style="list-style-type: none"> Fall Arrest Devices Gloves During all Site Works a FIRST AIDER MUST be Present
	Inspection requirements Nil	Service schedule: Nil	Training/Qualifications required: <ul style="list-style-type: none"> Construction Industry Induction RISI (Rail Industry Safety Induction) 	

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1	Delivery of materials	Personnel Struck By Machinery	B+	Implement Exclusion Zones Use Ticketed Operators.	C+	Team Leaders Work Group Leaders All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Plant SMS-06-PR-0225 Moving Plant On Construction Sites,
		Struck By Load	B+	Implement Exclusion Zone, Use Ticketed Operators. Use Tag Lines	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Plant SMS-06-PR-0225 Moving Plant On Construction Sites,
		Failure Of Lifting Equipment From Overloading	B+	Competent Operators To Assess Loads Carefully Prior To Lifting Equipment To Be Properly Maintained And Marked	C+	Team Leader Work Group Leader All Staff Workcover Ticketed Operator/Dogman SMS-11-GD-0243	SSMP, Pre work Briefing SMS-06-FM-0163 Lifting Equipment Inspection SMS-16-FM-0089 Plant SMS-06-PR-0225
		Plant Roll-Over	B-	Ensure That Outriggers Or Stabilisers In Position Prior To Lifting	C-	Team Leader Work Group Leader All Staff Ticketed Operator	SSMP, Pre work Briefing SMS-06-FM-0163 Lifting Equipment Inspection SMS-16-FM-0089 Plant SMS-06-PR-0225
		Noise From Plant	C+	Implement Exclusion Zones Use Appropriate Plant With Noise Control Measures. Use Ear Protection	D	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 PPE SMS-06-GD-0323
		Unstable Loads	B+	Ensure Materials Are Secured During Transit. Don't Exceed Safe Working Load Of Plant.	C-	Team Leader Work Group Leader All Staff Workcover Ticketed Operator SMS-11-GD-0243	SSMP, Pre work Briefing SMS-06-FM-0163 Plant SMS-06-PR-0225
2	Stockpiling Materials	Contact With Live O/H Wires (High Voltage)	A	Maintain regulated clearances on wires at all times. Isolate power when in side Safe approach distance (SAD).	C+	Qualified Permit Holder QEL29/MEI61 Team Leader Work Group Leader All Staff	Electrical equipment SMS-06-GD-0268 Electrical permits SMS-06-EN-0577
		Exposure To Contaminated Material	B-	Test Spoils For Contaminants. Disposal In Accordance With Relevant OH&S Guidelines.	C-	Team Leader Work Group Leader All Staff Competent Person	ENVIRONMENTAL PROTECTION PLAN, Hazardous Substances SMS-06-GD-0199

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3	Mark Out Location Of Retaining Wall	Manual Handling Injuries	B-	Correct manual handling procedures. "back-safe" training. Plant to move heavy and/or bulky items. As per Risk assessment.	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Manual Handling Guide SMS-06-GD-0001
4	Excavation Of Embankment	Personnel Struck By Machinery	B\+	Implement Exclusion Zones. Use Ticketed Operators. Plan Work To Avoid Site Congestion	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Plant SMS-06-PR-0225
		Contact With Services	B+	Locate Services Prior To Starting Work. Mark Services With Paint, Use Qualified Plant Operators, Hand Digging In close Proximity To Services Under Supervision By Appropriate Services Representative. Care To Be Exercised. Service Searches To Be On Site And Signed Off.	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Plant SMS-06-PR-0225 Work Around Elect. Equip. SMS-06-GD-0268 Services Search Checklist SMS-06-FM-0384
		Contact With High Voltage O/H Wires	B+	Maintain regulated clearances on wires at all times. Isolate power when in side Safe approach distance (SAD).	C+	Qualified Permit Holder QEL29/MEI61 Team Leader Work Group Leader All Staff	Electrical equipment SMS-06-GD-0268 Electrical permits SMS-06-EN-0577
		Plant Roll-Over/Collapse	B+	SWL of Machinery Not To Be Exceeded	C+	Team Leader Work Group Leader All Staff Ticketed Operator	SSMP, Pre work Briefing SMS-06-FM-0163 Plant SMS-06-PR-0225
		Hearing Damage From Plant	C+	Use Hydraulic Equipment. Have Silencers Fitted To Machinery. Use PPE Use Ear Protection In Close Proximity To Machine	D	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 PPE SMS-06-GD-0323
		Dust	B-	Keep Clear. Water Down Material.	D	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Hazardous Substances SMS-06-GD-0199
		Fall In Excavation	B+	Be Aware. Excavation To Be Barricaded To Prevent Workers Falling In. Cover If Possible	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Excavation & Earthworks SMS-06-GD-0378

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		Excavation Collapse	B+	Shoring, Benching, Keep Plant And Employees Clear Of Edges.	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Excavation & Earthworks SMS-06-GD-0378
		Slips And Trips	B+	Work From Stable Area. Wear Steel, Tipped Boots And Safety Helmet	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163
5	Positioning Of Drilling Machinery	Personnel Struck By Machinery	B+	Implement Exclusion Zones. Use Reversing Beepers. Use Ticketed Operators. Plan Work To Avoid Site Congestion	C+	All Staff Team Leader Work Group Leader	SSMP, Pre work Briefing SMS-06-FM-0163 Plant SMS-06-PR-0225
		Plant Roll-Over	B-	Plant Fitted With Roll-Over-Protection.	C-	Ticketed Operator	SSMP, Pre work Briefing SMS-06-FM-0163 Plant SMS-06-PR-0225
		Contact With Live O/H Wires	A	Maintain regulated clearances on wires at all times. Isolate power when in side Safe approach distance (SAD).	C+	Qualified Permit Holder QEL29/MEI61 Team Leader Work Group Leader All Staff	Work Around Elect. Equip. SMS-06-GD-0268 Electrical Permits SMS-06-EN-0577
		Oil/Fuel Spillage	C-	Plant To Be Inspected Daily. Use Correct Methods For Filling Machinery. Spill Response Kits On-Site.	D	Ticketed Operator Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 ENVIRONMENTAL PROTECTION PLAN
6	Auger Holes	Contact With Services	B+	Locate Services Prior To Starting Work. Mark Services With Paint, Use Qualified Plant Operators, Hand Digging In close Proximity To Services Under Supervision By Appropriate Services Representative. Care To Be Exercised. Service Searches To Be On Site And Signed Off	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Plant SMS-06-PR-0225 Work Around Elect. Equip. SMS-06-GD-0268 Services Search Checklist SMS-06-FM-0384
		Contact With Live O/H Wires	A	Maintain regulated clearances on wires at all times. Isolate power when in side Safe approach distance (SAD).	C+	Qualified Permit Holder QEL29/MEI61 Team Leader Work Group Leader All Staff	Work Around Elect. Equip. SMS-06-GD-0268 Electrical Permits SMS-06-EN-0577

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		Plant Roll-Over/Collapse	B-	SWL Of Machinery Not To Be Exceeded	C-	Team Leader Work Group Leader All Staff Ticketed Operator	SSMP, Pre work Briefing SMS-06-FM-0163 Plant SMS-06-PR-0225
		Hearing Damage From Plant	C+	Use Hydraulic Equipment. Have Silencers Fitted To Machinery. Use PPE Use Ear Protection In Close Proximity To Machine	D	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 PPE SMS-06-GD-0323
		Dust	B-	Keep Clear. Water Down Material.	D	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 PPE SMS-06-GD-0323
		Personnel Struck By Machinery	B+	Implement Exclusion Zones. Use Reversing Bleepers. Use Ticketed Operators. Plan Work To Avoid Site Congestion	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 PPE SMS-06-GD-0323
		Fall In Hole	B+	Be Aware. Excavation To Be Barricaded To Prevent Workers Falling In. Cover If Possible	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Excavation & Earthworks SMS-06-GD-0378
7	Transfer Materials And Stock Piling Spoil	Personnel Struck By Machinery	B+	Implement Exclusion Zones. Use Ticketed Operators. Plan Work To Avoid Site Congestion	C+	All Staff Team Leader Work Group Leader	SSMP, Pre work Briefing SMS-06-FM-0163 Plant SMS-06-PR-0225
		Manual Handling Injuries	B-	Correct manual handling procedures. "back-safe" training. Plant to move heavy and/or bulky items. As per Risk assessment.	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Manual Handling Guide SMS-06-GD-0001
		Unstable Loads	B+	Ensure Materials Are Secure During Transit. Don't Exceed Safe Working Load Of Plant.	C+	Team Leader Work Group Leader All Staff Licence, Competent	SSMP, Pre work Briefing SMS-06-FM-0163 Plant SMS-06-PR-0225
		Runaway Trolley	B+	Trolley To Be Fitted With Braking System/Drawbar To Dumper.	C+	Team Leader Work Group Leader All Staff Licence, Competent	Pre work Briefing SMS-06-FM-0163 SITE PLAN IN SSMP
8	Place Concrete Aspro	Muscle Strain	B-	Correct manual handling procedures. "back-safe" training. Plant to move heavy and/or bulky items. As per Risk assessment.	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Manual Handling Guide SMS-06-GD-0001

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		Fall In Hole	B=	Be Aware. Excavation To Be Barricaded To Prevent Workers Falling In. Cover If Possible	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Excavation & Earthworks SMS-06-GD-0378
9	Placement Of Reinforcement	Manual Handling Injuries	B-	Correct manual handling procedures. "back-safe" training. Plant to move heavy and/or bulky items. As per Risk assessment.	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Manual Handling Guide SMS-06-GD-0001
		Struck By Crane Or Load	B+	Implement Exclusion Zones For Workers Not Involved In Work Control Load With Tag Lines. Wear Head Protection	C+	Team Leader Work Group Leader All Staff Workcover Ticketed Operator/Dogman SMS-11-GD-0243	SSMP, Pre work Briefing SMS-06-FM-0163 PPE SMS-06-GD-0323
		Cuts, Scratches And Abrasions	C-	Gloves To Be Worn As Necessary.	D	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 PPE SMS-06-GD-0323
10	Place, Level And Brace Steel Posts	Cuts, Scratches And Abrasions	C-	Gloves To Be Worn As Necessary.	D	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 PPE SMS-06-GD-0323
		Struck By Moving Plant	B+	Implement Exclusion Zones Use Ticketed Operators. Plan Work To Avoid Site Congestion	C+	All Staff Team Leader Work Group Leader	SSMP, Pre work Briefing SMS-06-FM-0163 Plant SMS-06-PR-0225
		Failure Of Lifting Equipment From Overloading	B+	Competent Operators To Assess Loads Carefully Prior To Lifting Equipment To Be Properly Maintained And Marked	C+	Team Leader Work Group Leader All Staff Workcover Ticketed Operator/Dogman SMS-11-GD-0243	SSMP Pre work Briefing SMS-06-FM-0163 Lifting Equipment Inspection SMS-16-FM-0089 Plant SMS-06-PR-0225
		Struck By Crane Or Load	B+	Implement Exclusion Zones For Workers Not Involved In Work Control Load With Tag Lines. Wear Head Protection	C+	Workcover Ticketed Operator And Dogman SMS-11-GD-0243	SSMP, Pre work Briefing SMS-06-FM-0163 PPE SMS-06-GD-0323
		Crushed Fingers	B-	Keep Hands Clear Of Joining Steel When Positioning	C-	Team Leader Work Group Leader All Staff Competent Person	SSMP, Pre work Briefing SMS-06-FM-0163 PPE SMS-06-GD-0323

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11	Concrete Posts	Concrete In Eyes	C-	Wear Glasses/Goggles. Have Saline Eyewash Available	D	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 MSDS PPE SMS-06-GD-0323
		Skin Irritations	C-	Wear Gloves Long Sleeve Shirts	D	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 MSDS PPE SMS-06-GD-0323
		Manual Handling Injuries	B-	Correct manual handling procedures. "back-safe" training. Plant to move heavy and/or bulky items. As per Risk assessment.	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Manual Handling Guide SMS-06-GD-0001
		Struck By Boom / Concrete Truck	B+	Implement exclusion zones for workers. All plant must have functional lights and alarms. Use ticketed operators. Wear head protection. Use spotter if required.	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Plant SMS-06-PR-0225
12	Removal Of Bracing	Strike Head On Brace	B+	Hard Hats To Be Worn At All Times Implement Exclusion Zone For Workers Not Involved In Tasks	C+	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 Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 PPE SMS-06-GD-0323
		Manual Handling Injuries	B-	Correct manual handling procedures. "back-safe" training. Plant to move heavy and/or bulky items. As per Risk assessment.	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Manual Handling Guide SMS-06-GD-0001
13	Placing Packers / Levelling Area	Manual Handling Injuries	B-	Correct manual handling procedures. "back-safe" training. Plant to move heavy and/or bulky items. As per Risk assessment.	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Manual Handling Guide SMS-06-GD-0001
		Excavation Collapse	B+	Shoring, Benching, Keep Plant And Employees Clear Of Edges.	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Excavation & Earthworks SMS-06-GD-0378
14	Lifting And Positioning Pre-Cast Concrete Wall Panels	Struck By Crane	B+	Implement Exclusion Zones For Workers Not Involved In Work Control Load With Tag Lines. Wear Head Protection Dogman To Control Load	C+	Workcover Ticketed Operator And Dogman SMS-11-GD-0243	SSMP, Pre work Briefing SMS-06-FM-0163 PPE SMS-06-GD-0323

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		Struck By Load	B+	Keep Clear Of Suspended Loads, Ticketed Operators. Exercise Due Care	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Plant SMS-06-PR-0225
		Failure Of Lifting Equipment From Overloading	B+	Competent Operators To Assess Loads Carefully Prior To Lifting Equipment To Be Properly Maintained And Mark.	C+	Team Leader Work Group Leader All Staff Workcover Ticketed Operator/Dogman SMS-11-GD-0243	SSMP, Pre work Briefing SMS-06-FM-0163 Lifting Equipment Inspection SMS-16-FM-0089 Plant SMS-06-PR-0225
		Plant Roll-Over/Collapse	B+	SWL Of Machinery Not To Be Exceeded	C+	Team Leader Work Group Leader All Staff Ticketed Operator	SSMP, Pre work Briefing SMS-06-FM-0163 Plant SMS-06-PR-0225
15	Install Drainage Behind Wall	Excavation Collapse	B+	Shoring, Benching, Keep Plant And Employees Clear Of Edges.	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Excavation & Earthworks SMS-06-GD-0378
		Struck By Moving Plant	B+	Implement Exclusion Zones. Use Ticketed Operators. Plan Work To Avoid Site Congestion	C+	All Staff Team Leader Work Group Leader	SSMP, Pre work Briefing SMS-06-FM-0163 Plant SMS-06-PR-0225
		Eye Injuries	C+	Eye Protection To Be Worn At All Times.	D	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 PPE SMS-06-GD-0323
		Manual Handling Injuries	B-	Correct Manual Handling Techniques. Rotate Staff On Repetitive Tasks. Use Gloves If Required	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Manual Handling Guide SMS-06-GD-0001
16	Backfill And Compact	Dust	B-	Keep Clear. Water Down Material.	D	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Hazardous Substances SMS-06-GD-0199
		Struck By Moving Plant	B+	Implement exclusion zones for workers. All plant must have functional lights and alarms. Use ticketed operators. Wear head protection. Use spotter if required.	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Plant SMS-06-PR-0225
		Noise From Plant	C+	Implement Exclusion Zones Use Appropriate Plant With Noise Control Measures. Use Ear 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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		Plant Roll-Over	B-	Plant Fitted With Roll-Over-Protection.	C-	Team Leader Work Group Leader All Staff Ticketed Operator	SSMP, Pre work Briefing SMS-06-FM-0163 Plant SMS-06-PR-0225
		Muscle Strain	C+	Correct manual handling procedures. "back-safe" training. Plant to move heavy and/or bulky items. As per Risk assessment.	D	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Manual Handling Guide SMS-06-GD-0001
17	Install Dish Drain/ Cess Drainage	Struck By Moving Plant	B+	Implement exclusion zones for workers. All plant must have functional lights and alarms. Use ticketed operators. Wear head protection. Use spotter if required	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Plant SMS-06-PR-0225
		Fall From Heights	B+	Handrail. Keep Clear Of Unprotected Edges	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Working at Heights SMS-06-GD-0240
		Concrete In Eyes	C-	Wear Glasses/Goggles. Have Saline Eyewash Available	D	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 MSDS
		Skin Irritations	C-	Wear Gloves Long Sleeve Shirts	D	Team Leader Work Group Leader All Staff	Pre work Briefing SMS-06-FM-0163 MSDS
18	Reinstatement Of Ballast Profile	Contact With Services	B+	Carry out services search before work, locate and mark services prior to starting work. Use qualified plant operators, hand dig close to services, Pot hole to locate services if required	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Excavation & Earthworks SMS-06-GD-0378 Services Search Checklist SMS-06-FM-0384
		Personnel Struck By Machinery	B+	Implement exclusion zones for workers. All plant must have functional lights and alarms. Use ticketed operators. Wear head protection. Use spotter if required	C+	Team Leader Work Group Leader All Staff	SSMP, Pre work Briefing SMS-06-FM-0163 Plant SMS-06-PR-0225
		Struck By Flying Object	C+	Protective Eye-Wear Must Be Worn	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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19	Removal / Exit Of Plant And Machinery From Working Area	Traffic/ Pedestrians	B+	Provide Traffic Control	C+	Team Leaders Work Group Leaders RTA Ticketed Traffic Controllers	Traffic management plan workplace Work-on/near roads SMS-06-GD-0372
		Personnel Struck By Machinery	B+	Implement exclusion zones for workers. All plant must have functional lights and alarms. Use ticketed operators. Wear head protection. Use spotter if required.	C+	All Staff Team Leader Work Group Leader	SSMP, Pre work Briefing SMS-06-FM-0163 Plant SMS-06-PR-0225 Network Rules and Procedures
20		Plant And Machinery Struck By Train	A	Plant Operators To Be Made Aware Of Safe Working Areas	B+	Team Leader Work Group Leader All Staff Worksite protection officer	SSMP, Pre work Briefing SMS-06-FM-0163 Plant SMS-06-PR-0225 Network Rules and Procedures
		Contact With Live O/H Wiring Or Other Services	A	Maintain regulated clearances on wires at all times. Isolate power when in side Safe approach distance (SAD).	C+	Qualified Permit Holder QEL29/MEI61 Team Leader Work Group Leader All Staff	Electrical equipment SMS-06-GD-0268 Electrical permits SMS-06-EN-0577
		Contact With Services	B+	Locate Services Prior To Starting Work. Service Searches To Be On Site And Signed Off Mark And/Or Isolate Services As Appropriate Maintain Regulated Clearances On Electrical Services	C+	Qualified Permit Holder QEL29/MEI61 Team Leader Work Group Leader All Staff	Electrical equipment SMS-06-GD-0268 Electrical permits SMS-06-EN-0577

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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						<u>Definition for Use - Regional & Local level (Workplace)</u> 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: 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). 2. Identify the likelihood of this level of consequence occurring. (This is done after considering the effectiveness of the current controls in place) 3. 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 or risks and/or where the controls may be different. It may be useful to score the risk more than once.	
			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		
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-		