

SWMS number: SMS-06-SW-1063	SWMS Name: Robel Rail Train			SWMS Team: Track Review Team
Custodian (Position): Track Works Manager Commercial / Renewals	Assumptions: Site specific risks are addressed and assessed in pre- work briefing			
Approving Authority (Position): Safety and Quality Manager, Commercial / Renewals	Equipment/Plant/Tools: <ul style="list-style-type: none">Robel Rail TrainCommunication system, CCTVHand Tools, Hiab	Records/Reporting: <ul style="list-style-type: none">Worksite Protection PlanPre-work BriefFuel and Hydraulic Oil MSDSDaily Plant ChecklistRobel manual	Permits/licences required: Nil	Content reviewed by Technical expert (SME) and RailCorp safety professional (position including Div/Group) Track Works Manager & SEQ Coordinator Asset Management Group Commercial / Renewals
Applicable Standards, Codes of Practice and guidance: <ul style="list-style-type: none">OH&S Act 2000OH&S Regulation 2001Rail Safety Regulation 2003RailCorp Network Rules & ProceduresRailCorp Safety Management System.MSDS for all chemicals and hazardous Substances used on siteAS 2550.5-2002 Cranes, hoists and winches - Safe use - Mobile cranes				
		MIMS or METRE Ref: Nil		Personal Protective Equipment required: <ul style="list-style-type: none">Safety BootsHigh Visibility VestsHardhatsProtective ClothingSafety Glasses And as specified below. <ul style="list-style-type: none">Gloves (as required)Dust Masks (as required)Hearing protection (as required)

Robel Rail Train

Issue date: 10/04/08

Review date: 18/02/11

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	Pre Start Check	Uneven surfaces slips, trips	C+	Vigilant take care	D	Team Leader ,Robel trained personnel	Workplace Risk Management SMS-06-PR-0104
2	Unchaining Gantry	Hit by manipulator	C-	Crew to follow communications protocol and use CCTV for visual check	C-	Team Leader ,Robel trained personnel	Plant SMS-06-GD-0225 PPE SMS-06-GD-0323
		Hand injuries	D	Gloves to be worn	D		
3	Slide rails between wagons	Pinch points	C-	Use podger	D	Team Leader ,Robel trained personnel	Manual Handling Guide SMS-06-GD-0001
		Lifting heavy objects	C+	Machine/team lift	D		
		Turning manipulator	C+	Refer to manual	C-		
		Live line on steep grade	C+	Adjacent line protection	C+		Network rules & Procedures
4	Check train stops in place	Over run off end of train	C+	Visual inspection	C-	Team Leader ,Robel trained personnel	Plant SMS-06-GD-0225
	Check gates in place	Rail hitting gate	D		D		
5	Check brake station is in adjustment	Potential for rail to roll	D	Visual inspection adjust as required	D	Team Leader ,Robel trained personnel	Plant SMS-06-GD-0225
6	Ensure wheel guards are in place	Hand injury	C-	Visual inspection	D	Team Leader ,Robel trained personnel	Plant SMS-06-GD-0225
		Derail due to objects being on running rail	D		D		
7	Open rail chutes	Hand injury	C-	Care to be taken wear gloves	D	Team Leader ,Robel trained personnel	PPE SMS-06-GD-0323
8	Unchain drop trolley	Pinch points hand injuries	C-	Care to be taken wear gloves	D	Team Leader ,Robel trained personnel	PPE SMS-06-GD-0323
9	Slewing cranes	Crush between cranes	C+	Operator to ensure personnel are clear before slewing	C-	Team Leader,Robel trained personnel	Plant SMS-06-GD-0225
10	Using trolley and storing	Trapped between train and trolley	C+	Trolley operator not to enter area between trolley and train Use remote control	C-	Team Leader ,Robel trained personnel	Plant SMS-06-GD-0225

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11	Using trolley and storing	Slips trips	C+	Care on ballast	C-	Team Leader ,Robel trained personnel	Workplace Risk Management SMS-06-PR-0104
		Adjacent line live running	B-	Ensure adjacent line is protected	C-		Network Rules& Procedures
12	Now run back the length of train	Derail	C+	Visual inspect	C-	Team Leader ,Robel trained personnel	Plant SMS-06-GD-0225
		Personnel on train	C+		C-		
13	Clamp rail with mini packer	Lifting to high cause excess movement. Danger to Personnel	C-	Don't lift excess, minimises movement. Radio Comms.	C-	Team Leader ,Robel trained personnel	Plant SMS-06-GD-0225
14	Unclamp specific rails at clamp station	Movement of Rail hand/leg injury	C+	Stand clear. Radio Comms adhere to procedure	C-	Team Leader ,Robel trained personnel	Plant SMS-06-GD-0225
15	Drag rail to the front of train	Personnel on train	C+	Full visual inspection	C-	Team Leader ,Robel trained personnel	Plant SMS-06-GD-0225
16	When rail move place clamps and bolts back in station	Trips. Minor Finger pinch.	c-	Care where you walk	D	Team Leader ,Robel trained personnel	Workplace Risk Management SMS-06-PR-0104
17	Put brake on to go back for second grab	Runaway rail impale/crush	C+	Ensure brake is in operation	C-	Team Leader ,Robel trained personnel	Plant SMS-06-GD-0225
18	Set train slowly forward push rail off	Train movement. (hit staff)	C+	Minimum 6 metres distance except authorised personnel	C-	Team Leader ,Robel trained personnel	Plant SMS-06-GD-0225
		Robel Movement. (hit staff)	C+		C-		
19	Loading rail	Personnel near rail	C-	Minimum 6 metres distance. Visual inspect	D	Team Leader ,Robel trained personnel	Plant SMS-06-GD-0225
20	Clamp and lift rail	Crush zone	C+	Minimum 6 metres distance except authorised personnel	D	Team Leader ,Robel trained personnel	Plant SMS-06-GD-0225
21	Set train slowly back match train speed	Train movement. (hit staff) Robel movement. (hit staff)	C+	Radio comms. Minimum 6 metres	C-	Team Leader, Robel trained personnel	Plant SMS-06-GD-0225

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22	Secure rail at clamp station	Pinch point movement of rail manipulator	C+	Vigilance. Stand clear. Radio Comms.	C-	Team Leader ,Robel trained personnel	Plant SMS-06-GD-0225
23	Put spring loaded shouts on when unloading	Lifting.	C-	Minimum 6 metres	C-	Team Leader ,Robel trained personnel	Plant SMS-06-GD-0225
		Crush zone.	C+	Radio	C-		
24	When layer loaded or unloaded open on close rollers gates	Pinch point	C-	Vigilant, Gloves	D	Team Leader ,Robel trained personnel	PPE SMS-06-GD-0323
25	When layer loaded fit all braces and pins in at clamp station	Pinch points	C-	Vigilant	D	Team Leader Robel trained personnel	Plant SMS-06-GD-0225
		Runaway rail	C-	As per procedure and second person	D		

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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>Definition for Use - Regional & Local level (Workplace)</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">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. <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-	