

RailCorp Rolling Stock PPP Project Maintenance Facility Works observation during Delivery Phase (after practical completion of the Maintenance Facility)

Issue date: 21/07/10

Review date: 12/07/13

SWMS number: SMS-06-SW-1287	SWMS Name: RailCorp Rolling Stock PPP Project Maintenance Facility Works observation during Delivery Phase (after Practical Completion)			SWMS Team: Carmen Berndt David Longworth Andrew Ha Ricardo Prieto-Curiel Adam Clarke` Ken Kelman (Downer EDI)
Custodian (Position): SSCAD PPP Project	Assumptions: <ol style="list-style-type: none"> This SWMS is only for the activity of RailCorp observations conducted by RailCorp or its advisors at the PPP Maintenance Facility at Auburn. Any other activities on site will be managed via the Reliance Rail and/or Downer EDI Management Systems or other safety management documentation. Travelling to the site is addressed through other procedures and practices that apply broadly to RailCorp activity. Management of workplace violence is addressed via RailCorp or Reliance Rail/Downer EDI procedures as applicable. 			Content reviewed by Technical expert (SME) and RailCorp safety professional (position including Div/Group) Howard Lister (SSCAD PPP Project)
Approving Authority (Position): GM PPP Project	Plant/Equipment/Tools: <ul style="list-style-type: none"> Nil 	Records/Reporting: <ul style="list-style-type: none"> Downer EDI Pre Work Briefing Line Manager: Maintenance Facility and Enabling Works Director	Permits/licences required: Nil	
Applicable Standards, Codes of Practice and guidance: Occupational Health and Safety Act 2000 Occupational Health and Safety Regulation 2001 Network Rules and Network Procedures Reliance Rail Maintenance Facility Works SSMP current version, POMP current version Rail Safety Act 2002. WorkCover Code of Practice: Noise	Inspection requirements <ul style="list-style-type: none"> PPE is within expiry date and fit for purpose 	Service schedule: N/A	Training/Qualifications required: <ul style="list-style-type: none"> Project induction by Principal Contractor or its Core/Significant Contractor Site registration (sign in) Rail Industry Safety Induction (as required) WorkCover General Construction Induction MIMS or METRE Ref: N/A	PPE required: <ul style="list-style-type: none"> High Visibility Vest – Rail Orange Head protection (at all times on site) Eye protection (as required) Hearing protection (as required) Respiratory protection (as required) Safety Boots <p>Strictly no Red or Green clothing is to be worn.</p>

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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	<p>When arriving on site</p> <ul style="list-style-type: none"> • Sign into visitor Book held within the RR/Downer EDI site office. • Receive information about daily hazards. • Contact the Downer EDI Site Manager or JH Safety Manager to inform them of the intent to complete a site observation. • Sign in at the security gate • Report to the Daily Hazards Board to receive any final information about daily hazards. 	Hazards specific to the individual site and not readily determined by different work groups	Various	<p>Pre Work Briefing Daily Hazard board</p> <p>RailCorp representatives and RailCorp's advisors are required to act accordingly to the requirements outlined in the induction by Reliance Rail.</p> <p>RailCorp representatives and RailCorp's advisors are unable to go onto any construction areas or operational areas unescorted unless they have the project specific induction card and have complied with the above points</p>	Various	Reliance Rail	
2	Walking or crossing roads to access or within the Project site.	Moving Plant and vehicles	C+	<p>Use pathways or walkways, pedestrian crossings.</p> <p>Keep alert for unexpected vehicle movements.</p> <p>Ensure vehicle operators have seen you before moving in their path</p>	C-	Work team	

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3	Completing the observation on the site.	Slips trips and falls on the same level	C+	Wear appropriate footwear – safety boots, safety gum boots Keep to designated access routes, avoid areas debris Identify slippery surfaces, wet locations, grease pots etc within the worksite Be aware of the position of the rails and track side equipment Ensure lighting is adequate – use torches at night and in other dark locations Avoid steep embankments Avoid steep ballast shoulders Do not jump off batters or across drainage controls or from platforms Avoid or walk slowly and purposefully through areas of high risk	C-	Work team	SMS-06-GD-0323 Personal Protective Equipment
		Fall from height, deep excavations.	C-	Avoid any excavation area. If entry to excavations is required, use appropriate Safety Work Method.	D	Work team	
		Heat Stress (On hot days)	C+	Ensure personnel are aware of the signs and symptoms of heat stress such as dark yellow urine, fatigue, dehydration, cramps, nausea, rapid breathing Drink water at regular intervals Schedule work outside the hottest part of the day where possible Utilise shade where possible Take regular breaks Pace yourself through work activities Monitor physical response to conditions	C-	Work team	SMS-06-PR-0039 First Aid

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		Exposure to UV radiation	C+	Use sunscreen and replace regularly Stage or plan work to take advantage of shade where possible Tinted Safety glasses to be worn when looking upwards (such as for OHW Observation or Crane Observation) Long sleeve shirts to be worn.	D	Work Team	SMS-06-GD-0323 Personal Protective Equipment SMS-06-SW-0529 Eye protection
		Snake bite, insect bites and stings	C+	Identify locations of high risk - long grass; near culverts and dams; under rocks, sleepers, rail logs and burrows Wear gloves where appropriate Walk "heavily" Don't enter areas you cannot see properly	C-	Work Team	
		Distraction of team member by mobile phone or using a camera, leading to an unsafe situation	C+	If taking a call or using a camera, the observer must move to a safe place and remain there for the duration of the call or photography.	D	Work Team	
		Contact with asbestos encountered on site	C-	Do not disturb asbestos materials encountered on site Report the location of asbestos found to the Site Manager. P2 Dust Mask to be worn in identified areas	D	Work Team	SMS-06-SW-0535 Respiratory Protection
		Needle sticks	C	Do not place hands where they cannot be clearly seen eg cable troughing, under rails Never touch or pick up needles If needles prevent safe walk, arrange for trained operators to remove them Wear appropriate PPE, including footwear and gloves as required.	D	Work Team	SMS-06-GD-0323 Personal Protective Equipment

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	Strike by train		B+	In Rail Corridor - Worksite Protection Plan Worksite Protection using relevant Network Rule and/or Procedure Reliance Rail RISI Exemption Plan	C+	Protection Officer Level 1. Reliance Rail to provide if required	Network Rule NGE200 – “Walking in the danger zone” RISI Exemption Plan
	Moving plant and machinery		B+	Hi visibility clothing Identify who is controlling or directing plant and ensure they know of your presence. Identify traffic “paths” and avoid if possible Communicate with drivers and operators to: 1) ensure that they know you are there; 2) stop driving while you observe certain areas Be aware of reversing “ beepers ” Stay on the uphill side of traffic where possible Stay clear of the sides of tipper trucks and dumpers as they can become unbalanced Utilise lookouts Notify site supervisor if there are concerns with traffic movement Ensure that the team complies with any instruction during pre work brief.	C-	Work team	
	Moving loads on cranes		C+	Ensure all personnel are kept clear of slinging or dragging operations Be aware of the slew area of moving plant Communicate with plant operators to cease work while observing.	D	Work team	

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		Contact with moving objects eg dust and wind-blown particles	C+	Wear safety glasses Move to a safe place and shield face when plant or machinery passes Wear P2 dust mask if necessary	D	Work team	SMS-06-SW-0529 Eye protection SMS-06-SW-0535 Respiratory Protection
		Reduced air quality – particularly due to fumes from plant and machinery	C-	Cease observation if plant or machinery is operating without adequate ventilation Do not enter an area if there is concern about air quality Notify site supervisor of any concerns with air quality Wear appropriate mask if required.	C-	Work team	SMS-06-SW-0535 Respiratory Protection
		Electrocution	C+	Keep clear of services, OHW and electrical plant and equipment at all times	C-	Work team	
		Cuts or abrasions	C-	Avoid any handling when conducting observations where possible. If necessary, wear gloves when handling sharp items.	D	Work team	
		Exposure to noise or vibration: 1) On-site eg plant & machinery; trains 2) Off-site eg traffic; other sources such as adjacent factories or construction sites	C+	<ul style="list-style-type: none"> • use ear plugs where noise is loud enough to interrupt normal speech for continuous periods (eg > 5 minutes) or when you need to shout to be heard • regulate exposure to noise where possible eg liaise with other worksites to determine if noisy work can be suspended while observing OR stage or plan work away from noise source 	D	Work team	SMS-06-GD-0323 Personal Protective Equipment
		Strike by objects falling from above.	C+	Keep clear when workers are working above. Use approved hard hat.	D	Work team	SMS-06-GD-0323 Personal Protective Equipment

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4	When leaving site for the day or upon completion of the site observation RailCorp personnel and RailCorp's advisors must sign out at the Security Gate and at the Visitor Book held within the RR/Downer EDIsite office.	Emergency on site – personnel unaccounted for	C+	Ensure site manager is contacted upon completion of the site observation activity for the day to record departure.	C-	Work team	

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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	
Consequence	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		
		F1	F2	F3	F4	F5	F6		
Consequence		Incredible	Improbable	Remote	Occasional	Probable	Frequent		
>10 Fatalities	C6	Disastrous	B-	B+	A	A	A		
2-10 Fatalities	C5	Catastrophic	C+	B-	B+	A	A		
1 Fatality (2-10 Major Injuries)	C4	Critical	C-	C+	B-	B+	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-	