

1500v DC OHW Maintenance with Power Out

Issue date: 04/10/07
Review date: 04/10/10

SWMS number: SMS-06-SW-0509	SWMS Name: 1500v DC OHW Maintenance with Power Out			SWMS Team: Steve Goodwin Anne McDougal Shane Brown Craig Atchison Colin Marshall Phil Page Alan Merritt Eric Cheek Mark Holmes Kol Navidi Michael Holt
Custodian (Position): Business Systems Officer Metro North Region Michael Swadling	Assumptions: Fine weather, daylight hours, covers working on rail connected OHW only			Content reviewed by Technical expert (SME) and RailCorp safety professional (position including Div/Group) Electrical Maintenance Engineer, Illawarra SEQ Systems Administrator
Approving Authority (Position): General Manager Infrastructure Division	Plant/Equipment/Tools: <ul style="list-style-type: none"> • Linesman's tools • Hand & battery powered tools as required • Rigging tools as required (eg chain block, strops, "come along") • EWP or Ladder • Approved measuring equipment 	Records/Reporting: Applicable maintenance records TEAMS 3	Permits/licences required: Electrical permit Special 1500v instruction if applicable	PPE required: <ul style="list-style-type: none"> • Standard PPE • Fall arrest equipment, or • Fall restraint equipment as required • Hard Hats • 185gsm 100% cotton clothing in accordance with SMS-06-SW-0538
Applicable Standards, Codes of Practice and guidance: <ul style="list-style-type: none"> • ESAA Guide to Electrical Safety Systems • WorkCover Guide; Safe Working at Heights • WorkCover CoP: Moving Plant on Construction Sites 	Inspection requirements <ul style="list-style-type: none"> • daily plant & equipment check as required • electrical equipment testing 	Service schedule: E08012, E08013, E08014 E08019, E08031, E08032 E08035, E08036	Training/Qualifications required: Authorised Overhead Traction Worker Manual Handling techniques	MIMS or METRE Ref:

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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	Maintain OHW & equipment	Struck by mobile plant	B-	Sound horn when moving Use spotter where necessary	B-	Team Member	
		Contact with electricity	A	Electrical permit to work and Test Dead before commencing work	B-	Supervisor	Electrical Network Safety Rules (ENSR)
		Fall from heights	B+	Use EWP where practicable in accordance with SWI Use Harness / restraint Work in accordance with SWI for Attached climbing	C+	Supervisor	SWI: Elevating Work Platforms SWI: Fall Arrest Systems (all)
		Struck by falling object	C+	Hard Hats Defined exclusion zones if practicable	C-	Team Member	
		Struck by moving object	B-	Don't work on "silly side" Use correct rigging techniques Maintain regular communications with team	C+	Team Member	SWI: Lifting Gear – Slings and Ropes
		Crush injury from hand tools	C+	Be aware of pinch points	C+	Team Member	
		Manual Handling / Muscular Stress	B+	Manual Handling Training Use mechanical aids where available Position so as not to over stretch	B-	Team Manager Supervisor	SWI: Lifting Gear - Devices

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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:							
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 of risks and/or where the controls may be different. It may be useful to score the risk more than once.							

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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