

SWMS – Civil inspections and maintenance on rail lubricators

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

SWMS number: SMS-06-SW-0764	SWMS Name: Civil inspections and maintenance on rail lubricators.			SWMS Team: Mark Fletcher Trevor Hicks Dragan Sukara John Jobson Mick Meehan
Custodian (Position): Business Systems Officer, Illawarra Region. Peter Sharpe.	Assumptions: Fine weather, daylight hours, rail tracks operational with OHW power live. Staff have had Regional Induction. Staff briefed in SWMS: Civil inspections and maintenance in the danger zone of the railway track.			Content reviewed by Technical expert (SME) and RailCorp safety professional (position including Div/Group)
Approving Authority (Position): General Manager, Infrastructure Maintenance.	Plant/Equipment/Tools: <ul style="list-style-type: none"> Grease pumping equipment Lubricator maintenance tools including winder. Minor plant and equipment as required. Mobile off track plant as required Environmental control materials 	Records/Reporting: <u>Inspection work.</u> Applicable inspection report form and current defect exceedence form. <u>Maintenance work.</u> Scope of work, and production report form.	Permits/licences required: Where required:- <ul style="list-style-type: none"> Plant operator competency as required. Minor Plant operator competency as required. 	<ul style="list-style-type: none"> Rail welding and lubrication advisor. Engineering Division, Knowledge Group. Safety Officer - Asset Management, Metropolitan Infrastructure, Illawarra.
Applicable Standards, Codes of Practice and guidance: <ul style="list-style-type: none"> Workcover Code of Practice, for the storage and handling of Dangerous Goods, 2005. National Code of Practice for Manual Handling NOHSC:2005 (1990). Workcover Code of Practice: Moving plant on construction sites. Workcover Code of Practice: Noise Management, and Protection of hearing at work. Workcover Guide: Safe working at heights. 	Inspection requirements <ul style="list-style-type: none"> Electrical equipment has current test tag. Daily plant check. Pre work check of tools. 	Service schedule: See attached Service Schedule listing. MIMS or METRE Ref: See attached MIMS standard job listing.	Training/Qualifications required: <ul style="list-style-type: none"> TDTS301A - Install and maintain lubrication equipment. Railcorp Infrastructure Engineering Manuals Track Manuals - TMC 221, Chapters 8 &9. 	PPE required: <ul style="list-style-type: none"> Steel Cap Boots Safety Glasses High visibility Vest Hard Hat PVC gloves. Face shield. Wet weather PPE. Long sleeved shirt if required. Broad brimmed hat if required. Disposable overalls if required.

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1.	Inspect worksite.	See SWMS – Civil inspections and maintenance in the danger zone.		See SWMS – Civil inspections and maintenance in the danger zone.			SWMS – Civil inspections and maintenance in the danger zone.
2.	Carry grease, tools and equipment to site.	Slips, trips and falls	B+	Identify, and avoid identified hazards including grease surrounding the lubricator. Remove excessive grease from site. Stay safe distance from drops, eg cutting edges, culverts etc. Don't walk along the Rail. Only walk on track when essential. Correct footwear.	B-	Worksite supervisor Team member	MSDS: Rail lubricator grease. SMS -06-SW-0527. Safety footwear.
		Crush injury.	B-	Correct manual handling techniques. Team lifts. Orderly loading of truck. Use mechanical lifting device where possible. Stay clear of moving equipment such as tail gate loaders and lifting devices.	C+	Team Member	SMS-06-GD-0001. Guide to Manual Handling.
		Struck by train.	A	Worksite protection is appropriate.	B-	Worksite Protection Officer.	Network Rules and procedures.
		Contact with toxins from spiders, wasps, snakes, ticks, etc.	C-	Inspect before commencing work. Wear gloves.	C-	Team Member.	SMS-06-SW-0530. Protective gloves.
		Needle stick injury.	B-	Identify possible needle stick locations. Wear gloves. Dispose of needles with needle stick kit.	C+	Team Member	SWI: Needle stick kit. SMS-06-SW-0530. Protective gloves.

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		Muscle strain, heavy lifting – 20kg drums.	B-	Rest periods as required. Back safe methods, correct manual handling techniques. Use plant or equipment to transport the lubricator and grease where required.	C+	Team Member	SMS-06-GD-0001. Guide to Manual Handling.
		UV exposure	B+	Apply 30 plus sunscreen at required intervals, after referring to MSDS. Wear long sleeve shirt if required. Wear broad brim hat if required if required.	C+	Team Member.	SMS-06-SW-0537. Sunscreen.
		Struck by object thrown from train	C+	Stop work when trains approach on adjacent track, and observe passage of train.	C-	Team Member.	
		Injuries from other work activity in the vicinity.	B+	Contact other worksite supervisor before entering worksite and obtain induction before entering.	B-	Worksite supervisor.	
		Struck by runaway rail mounted plant or equipment.	C-	Staff instructed before work, or previously deemed competent in safe use of equipment. Use of appropriate SWI or instruction manual. Do not leave rail mounted, unbraked equipment, unattended.	D	Worksite supervisor. Team Member.	Appropriate SWI or instruction manual.
		Electrical shock	C-	Permit to work when plant is capable of encroaching electrical safe work area or plant has certified restriction fitted with trained operator and observer.	C-	Worksite supervisor.	SMS-06-GD-0268. Working around electrical infrastructure.
3.	Fill and adjust lubricator.	Repetitive strain injury.	B-	Rest periods as required. Rotate task. Use powered pumps when available.	C-	Worksite supervisor.	SWI: Rail lubricator pump.

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		Exposure to grease	B-	PVC gloves. Safety glasses. MSDS – Rail grease.	C-	Team Member	MSDS – Rail grease. SMS-06-SW-0530. Protective gloves. SMS-06-SW-0529. Eye protection.
		Pressurised grease	B+	Ensure hoses are securely fixed Use correct hose fittings. Don't overfill or over pressurise equipment. Face shield. Do not stand behind pot when being filled. Fill lubricator In accordance with appropriate SWI	B-	Team Member	SMS-06-SW-0529. Eye protection. SWI: Lubricator.
		Slips, trips and falls	B+	Identify, and avoid identified hazards including grease surrounding the lubricator. Remove excessive grease from site. Stay safe distance from drops, eg cutting edges, culverts etc. Don't walk along the Rail. Only walk on track when essential. Correct footwear.	B-	Worksite supervisor Team member	MSDS:Rail grease. SMS -06-SW-0527. Safety footwear.
4.	Replace or maintain lubricator components.	Pressurised grease	B+	Use winder in back of pot to stop grease being released. Ensure hoses are securely fixed. Don't overfill or over pressurise equipment. Face shield. In accordance with appropriate SWI	B-	Team Member	SWI: Lubricator. SMS-06-SW-0529. Eye protection.

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4.		Exposure to grease	B-	PVC gloves. Safety glasses. MSDS – Rail grease.	C-	Team Member	SMS-06-SW-0530. Protective gloves. SMS-06-SW-0529. Eye protection. MSDS – Rail grease.
		Slips, trips and falls	B+	Identify, and avoid identified hazards including grease surrounding the lubricator. Remove excessive grease from site. Stay safe distance from drops, eg cutting edges, culverts etc. Don't walk along the Rail. Only walk on track when essential. Correct footwear.	B-	Worksite supervisor Team member	MSDS:Rail grease. SMS -06-SW-0527. Safety footwear.
		Cuts bumps and abrasions due to sudden release of slippery hand tool	B-	Eye protection PPE. Keep safe distance between workers. Staff instructed before work, or previously deemed competent in safe use of hand tool. Keep excess grease off tools and gloves.	C+	Team Member.	SMS-06-SW-0529. Eye protection.
5.	Install or move lubricator.	Crush injury from manoeuvring pot.	C+	Wear gloves Team lift Remove excess grease	C-	Team Member	SMS-06-SW-0530. Protective gloves. SMS-06-GD-0001. Guide to Manual Handling.
		Pressurised grease	B+	Use winder in back of pot to stop grease being released. Ensure hoses are securely fixed. Don't overfill or over pressurise equipment. Face shield. In accordance with appropriate SWI	B-	Team Member	SWI: Lubricator. SMS-06-SW-0529. Eye protection.

SWMS Custodian: Business Systems Officer, Illawarra Region.

SWMS Approver: General Manager, Infrastructure Maintenance.

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		Exposure to grease	B-	PVC gloves. Disposable overalls if required. Safety glasses. MSDS – Rail grease.	C-	Team Member	SMS-06-SW-0530. Protective gloves. SMS-06-SW-0529. Eye protection. MSDS – Rail grease.
		Slips, trips and falls	B+	Identify, and avoid identified hazards including grease surrounding the lubricator. Remove excessive grease from site. Stay safe distance from drops, eg cutting edges, culverts etc. Don't walk along the Rail. Only walk on track when essential. Correct footwear.	B-	Worksite supervisor Team member	MSDS:Rail grease. SMS -06-SW-0527. Safety footwear.
		Cuts bumps and abrasions due to sudden release of slippery hand tool	B-	Eye protection PPE. Keep safe distance between workers. Staff instructed before work, or previously deemed competent in safe use of hand tool. Keep excess grease off tools and gloves.	C+	Team Member.	SMS-06-SW-0529. Eye protection.
		Equipment or pot struck by train striking workers	B+	Ensure equipment and pot is clear of train or trip gear.	D	Team member	
		Muscle strain	B-	Rest periods as required. Back safe methods. Use plant or equipment to transport the lubricator and grease where required.	C+	Team Member	SMS-06-GD-0001. Guide to Manual Handling.
		Electrical shock	C-	Permit to work when plant is capable of encroaching electrical safe work area or plant has certified restriction fitted with trained operator and observer.	C-	Worksite supervisor.	SMS-06-GD-0268. Working around electrical infrastructure.

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6.	Pack up worksite	Exposure to grease	D	PVC gloves. Disposable overalls. Safety glasses. MSDS – Rail grease.	D	Team Member	SMS-06-SW-0530. Protective gloves. SMS-06-SW-0529. Eye protection. MSDS – Rail grease.
		Slips, trips and falls	B+	Identify, and avoid identified hazards including grease surrounding the lubricator. Remove excessive grease from site. Stay safe distance from drops, eg cutting edges, culverts etc. Don't walk along the Rail. Only walk on track when essential. Correct footwear. Remove excess grease from footwear before climbing on to or operating vehicle.	B-	Worksite supervisor Team member	MSDS:Rail grease SMS -06-SW-0527. Safety footwear.

SERVICE SCHEDULE LISTING.

Service Schedule Number	Activity Description	Service Schedule Number	Activity Description
SSC 040	Rail Lubricator Examination		
SSC 041	Service Rail Lubricators		
SSC 042	Rail lubricator check of rail head		

MIMS STANDARD JOBS LISTING.

Std Job Code	Activity Description	Std Job Code	Activity Description	Std Job Code	Activity Description
P28001	SERVICE RAIL LUBRICATORS	P28801	INSTALL RAIL LUBRICATOR	P28C02	REMOVE/INSTALL RAIL LUBRICATORS
P28002	REMOVE/INSTALL RAIL LUBRICATORS	P28802	INSTALL NEW TOR APPLICATOR		
P28003	SERVICE WHEEL SQUEAL LUBRICATOR	P28803	REPAIR/PEPLACE RAIL LUBRICATOR		
P28800	INSTALL TOR APPLICATOR	P28C01	REPAIR RAIL LUBRICATORS		

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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	
		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	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.
			F1	F2	F3	F4	F5	F6	
Incredible	Improbable	Remote	Occasional	Probable	Frequent	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.			
>10 Fatalities	C6	Disastrous	B-	B+	A	A	A	A	To score the risk, follow the steps:
2-10 Fatalities	C5	Catastrophic	C+	B-	B+	A	A	A	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).
1 Fatality (2-10 Major Injuries)	C4	Critical	C-	C+	B-	B+	A	A	2. Identify the likelihood of this level of consequence occurring. (This is done after considering the effectiveness of the current controls in place)
1 Major Injury	C3	Major	D	C-	C+	B-	B+	A	3. Score the risk using the combination of likelihood and consequence ranking.
1 or more Minor Injuries	C2	Minor	D	D	C-	C+	B-	B+	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.
First aid treatment, or illness/injury not requiring treatment	C1	Negligible	D	D	D	C-	C+	B-	