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| SWMS number: SMS-06-SW-1042 | SWMS Name: Rail Sets | | | SWMS Team: Track Review Team Track Reconstruction Manager Program Engineers Team Managers Infrastructure worker |
| Custodian (Position): Track Reconstruction Manager Infrastructure Renewals | Assumptions: Site Specific risks are addressed and assessed in pre-work briefing | | | |
| Approver (Position): Track Works Manager Infrastructure Renewals | Plant/Equipment/Tools: <ul style="list-style-type: none">Pettibone/LoaderGeismar CranesBolster pins, Webbing and Baulk timbersHand Tools, Rail TongsCommunication devices | Records/Reporting: <ul style="list-style-type: none">Worksite Protection PlanPre-work BriefFuel and Hydraulic Oil MSDSDaily Plant Checklist | Permits/licences required: <ul style="list-style-type: none">Pettibone OperatorCertificate (C2 and MR drivers licence)Loader (LL)Rough cutters ticket | Content reviewed by Technical expert (SME) and RailCorp safety professional (position including Div/Group) Track Review Team Track Reconstruction Manager Program Engineers Team Managers Infrastructure worker Safety Facilitator |
| 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 siteRail Identification StandardESC 220 – Rail and rail joints.TMC 202 – Track Fundamentals.TMC 221 – Rail installation and repair.National Code of Practice for Manual Handling [NOHSC:2005]AS 2958.0 2000 Earth Moving MachineryAS 2550.5-2002 Cranes, hoists and winches - Safe use - Mobile cranes | Inspection requirements <ul style="list-style-type: none">Nil | Service schedule: Nil | Training/Qualifications required: <ul style="list-style-type: none">Construction Industry InductionRISI (Rail Industry Safety Induction) | |

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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 | Loading Rail. Back Loading/ Loading Empty Rail Sets. Move Rail In Suitable Lengths To Loading Area | Back Strains | C- | Manual Handling techniques | D | All staff | PPE SMS-06-GD-0323 Manual Handling Guide SMS-06-GD-0001 |
| | | Hit By Moving Rail | B- | Exclusion zone | D | Site controller All staff | |
| | | Poor communication between driver and site controller | C+ | Radio Discrete channel between driver and site controller | D | Site controller Train Driver | |
| 2 | Cut Holes In Ends Of Rail For Unloading | Burns, Fires | C+ | Exclusion zone Correct PPE Knapsack | D | Site controller All staff | PPE SMS-06-GD-0323 |
| 3 | Remove Bolster Pins, Webbing And Baulk Timbers | Back Strains, Slips And Falls | C+ | Gloves to be worn, staff to observe correct manual lifting procedures. Staff to take care when on train | D | Site controller All staff | PPE SMS-06-GD-0323 Manual Handling Guide SMS-06-GD-0001 |
| 4 | Load Geismar Cranes | Hit By Swinging Objects | B- | All unauthorised staff to stand clear. | D | Supervisor | Plant SMS-06-PR-0225 |
| | | Fall from height | C+ | Use designated access ladder | C- | Staff member | |
| 5 | Load Rail Onto Rail set | Back Strains, Burns, Fires, Hit By Moving Rail | C+ | Operators to wear hearing protection, crane chasers to wear hard hats and gloves | D | Current Work-Cover Tickets (Crane Chaser) | Plant SMS-06-PR-0225 PPE SMS-06-GD-0323 |
| 6 | Replace Baulk Timbers Not Used In Loading Between Rail Levels & Replace Pins In Inner Holes Where Possible | Cuts/Pinches | C+ | Gloves to be worn, staff to observe correct lifting techniques. | D | Site controller All staff | Lifting Equipment Inspection SMS-16-FM-0089 PPE SMS-06-GD-0323 |
| 7 | Tie down load on wagons | Slips, Trips and falls | C- | Correct PPE. Avoid trip hazards. | D | All staff | |
| 8 | Remove Geismar Cranes & Fasten The Webbing Straps Around Rail Load | Hit By Swinging objects | D | All unauthorised staff to stand clear. | D | Supervisor | Plant SMS-06-PR-0225 |
| | | Fall from height | C+ | Use designated access ladder | C- | Staff member | |

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|----|---|--------------------|----|---|----|------------------------------|---|
| 9 | Unloading rail using drag chains | Fall from height | C+ | Use designated access ladder | C- | Staff member | |
| | | Hit by moving rail | B- | Stand in designated safe place off wagon | D | Supervisor | |
| 10 | Begin Unloading The Rail By Moving The Train Forward, Pulling The First Two Rails Off | Struck By Rail | C+ | Stand in designated safe place off wagon, all others to remain clear. | D | Site controller All staff | Plant SMS-06-PR-0225 Lifting Equipment Inspection SMS-16-FM-0089 PPE SMS-06-GD-0323 |
| | | Excessive noise | C+ | Hearing protection | D | Site controller All staff | |
| 11 | Remove Straps And Place Them On The Floor Of The Rail set | Hit By Straps | D | Staff to stand well clear. | D | Site controller All staff | PPE SMS-06-GD-0323 |
| 12 | Stockpile Rail In The Cess | Struck By Rail | C+ | Stand clear of moving rail. | D | Site controller All staff | Plant SMS-06-PR-0225 |
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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 |
|------------------------------------|--------------------------|-----------------------------|------|------------------------------------|--------------------------|-----------------------------|------|
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| RailCorp Level 2 Risk Matrix - Regional & Local (Workplace) | | | Likelihood/Frequency | | | | | | | 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 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 | |
| | | | | F1 | F2 | F3 | F4 | F5 | F6 | |
| Consequence | | | 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- | | |