Track Cable Protector Installation

SWMS number:
SMS-06-SW-1077

SWMS Name:
Track Cable Protector Installation

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

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:
- OH&S Act 2000
- OH&S Regulation 2001
- Rail Safety Regulation 2003
- RailCorp Network Rules & Procedures
- RailCorp Safety Management System.
- MSDS for all chemicals and hazardous Substances used on site
- EC14 – Guide to Electrical Workers Safety Equipment
- National Code of Practice for Manual Handling [NOHSC:2005]

Plant/Equipment/Tools:
- RMV (Gang Bus, Car)
- Hand lamps for work at night
- Torches
- Shovels/Pelican Picks
- Cordless Drill
- Cutters/Tin Snips
- Pliers
- Hammer
- Impact wrench
- Spanner
- Broom

Records/Reporting:
- Worksite Protection Plan
- Pre-Work Brief
- Material Safety Data Sheets

Permits/licences required:
Nil

PPE required:
- Safety Boots
- High visibility orange vest
- Hard hats
- Safety Glasses
- Protective Clothing
- Hearing protection (as required)
- Gloves (as required)

Inspection requirements:
Nil

Service schedule:
Resurfacing Team Leader or Installation Gang Supervisor

MIMS or METRE Ref:
Nil

Training/Qualifications required:
- Construction Industry Induction
- Track Safety Awareness or
- RISI (Rail Industry Safety Induction)
- Applicable plant and safeworking competencies

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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	Installation of bracket	• Non required staff in way ▪ Injury by drill ▪ Trips, slips and falls ▪ Drilling into signal cables ▪ Injury due to drill recoil	C +	▪ Safety switch to be in stand by mode when drill not in use ▪ Non required staff stay clear when drilling holes and tightening bolts ▪ Drill to be placed out of the way ▪ Correct manual handling techniques	D	All Staff	Guide to Manual Handling SMS-06-GD-0001
2	Removal of misplaced bolt	▪ Spraying out of particles (bolt/concrete) ▪ Cutting injury on exposed bolt	C +	▪ PPE and Safety glasses ▪ Correct manual handling technique	D	All Staff	Guide to Manual Handling SMS-06-GD-0001
3	Connecting cables to brackets	▪ Using side cutters ▪ Cutting into signal cables ▪ Cable ties creating trip hazard	C +	▪ Keep hands clear of cutting blades ▪ Staff to pull cables tights and check before cutting ▪ Join in cable tie to be located on the bottom of cable	D	All Staff	Pre-Work Briefing SMS-06-FM-0163
4	Site clean up	▪ Manual handling	C +	▪ Correct manual handling techniques ▪ Check for material/equipment left behind to avoid tripping	D	All Staff	Guide to Manual Handling SMS-06-GD-0001
5	Removal and installation of track cable conduits	▪ Using side cutters ▪ Using shears/tin snips ▪ Cutting into signal cables ▪ Removal of conduits	C +	▪ Keep hands clear of cutting blades ▪ Place tools in toolbox if not in use ▪ Electric spark gap cable conduit split facing downwards ▪ Correct manual handling technique when cutting, removing and installing cable conduits	C -	All Staff	Pre-Work Briefing SMS-06-FM-0163

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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
			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-

Extreme
High
Medium
Low

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 liklihood 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 matricies).

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.