

Maintenance Work Instruction

0102227

TASK DESCRIPTION

Removal Level Crossings (Concrete)



SAFETY

Before commencing work, complete a TAKE 5 every time to check that no abnormal conditions exist. Complete JHA if prompted by TAKE 5 (Risk \geq H11). If an unsafe condition is identified, Tag & Make Safe and inform supervisor immediately.

- 1. This equipment should be treated as live until fully isolated.
- 2. On arrival at site contact the Network Operations Centre to advise them of your location, the type of work you are undertaking and who specifically is in your group.



Risk Assessment (As per Take 5 Risk Assessment)

MATERIAL R	ISKS AND MAJOR HAZARDS	
Risk	Description of Risk	Critical Controls
Rolling Stock	There is a risk of personnel interaction with trains.	Follow the TPO's instructions and safe working processes, and make sure appropriate level of track protection is in place.
SME	Risk of interaction between people and small mobile equipment when lifting and placing panels.	Assess the risks of injury or harm and implement control measures such as using a spotter, reverse alarm for SME and exclusion control among others.
Stored Energy	Hydraulic systems.	Make sure prestart checks are completed on all equipment and defects rectified and reported, or equipment is tagged Out of Service and reported. Do not overload hydraulic systems on machinery.
Dropped Objects	Suspended loads.	Assess the risks and implement controls to ensure a safe system of work that prevents injury/damage from suspended loads. Stay out of the line of fire. Prestart equipment checks (inc' rigging)
Noise	There is a risk of exposure to high noise levels.	Assess the risks of injury or harm and implement control measures.

Document: 0102227 Version No:2.0 Page 1 of 8



Maintenance	Work Instruction 0102	2227
Beware of Snakes	Beware of snakes.	If a snake is sighted always remain at a safe distance and slowly walk away while continuing to watch the snake. Do not leave doors open when a vehicle is unattended. Snakes are frequently encountered when moving/lifting crossing panels.
Hot Conditions	Consider the local site conditions and assess the risk of heat stress and dehydration.	Follow the prescribed procedure, assess the risks associated with working in hot conditions and implement control measures plus any rescue or first aid measures.
Pinch Points	Risk of limbs trapped when aligning panels.	Use of a spotter and tag line when lifting/dropping panels, stay clear of line of fire.
Trip	Uneven surfaces.	Keep eyes on path at all times when moving around the worksite.

ISOLATIONS,	ISOLATIONS, PERMITS AND SPECIAL CONTROLS REQUIRED					
Control	Control Application	Reason for Control Requirements				
Implement Track Protection (TOA/TWA) The American Service Ser	Track Occupation Authority/Track Working Authority (TOA/TWA)	Personnel safety, sighting distance, position of safety, lookout protection for adjacent track, method of protection, communication.				
Maintain Effective Communication Vehicle Radio	Journey management plan.	Safety while travelling. Location and estimated arrival time, passenger names and contact person.				
Identify the Hazards Control the Risk Nazard Analysis Job Hazard Analysis	A job hazard analysis is required to be performed as part of this procedure.	This requirement has been identified due to previous risk rating.				



Maintenance Work Instruction

0102227



There has been exclusive control activities identified within this procedure There are lifting operations occurring during this procedure.

PPE REQUIRED (Over and above Standard PPE)





SPECIFIC COMPETENCIES, KNOWLEDGE AND SKILLS REQUIRED

Machine Operator with relevant current and valid ticket and VoC, Supervisor (Section 22), Dogman with current and valid ticket and VoC, Track Protection Officer (TPO), Track Occupancy Authority/Track Work Authourity Training (TOA/TWA), BHP Rail Infrastructure Card (min Track Access)

TOOLING AND EQUIPMENT REQUIRED

1.	Hiab/crane	(min 2.5 tonne rating)

3. Shovels

5. **Spanners**

7. Hammers

9. Wire Brush

- 2. Chains (tagged)
- 4. Crow bars
- 6. Grease (anti-seize recommended)
- 8. Rattle gun
- 10. Set square

REFERENCE DOCUMENTATION				
Document Reference Number	Document Description	Attached		
ON 11-21	Protection of Adjacent Track	No		
SPR-RHS-SAF-004	Safeworking Safety Procedures	No		
SPR-RHS-SAF-003	Infrastructure Trackside Safety Procedures	No		
FRM-HIS-SAF-001	Job Hazard Analysis	No		
SPR-IHS-SAF-006	PPE	No		
WIN-IHS-SAF-002	Job Hazard Analysis Work Instruction	No		
WIN-RTS-RTM-082	Emergency Procedures for Track Personnel	No		
WIN-RTS-RTM-132	Working With Crane HIAB	No		
WIN-RTS-RTM-095	Hiab (Operation Of)	No		
WIN-RTS-RTM-116	Shovelling Ballast	No		
WIN-RTS-RTM-131	Working on Track (General)	No		
WIN-RTS-RTM-176	Application & Removal of Clips & Fastenings	No		
0078027	Excavator, Operation of	No		
0107569	Lifting and Cranage Operations – Pre-Lift Checklist	No		



Maintenance Work Instruction

0102227

TASK ACTIVITIES



- Tick off (✓) completed activities where required.
- Capture additional work as per the **Additional Work Identified** section and raise Notifications and enter the M1 number.
- Provide applicable feedback (WIN Feedback section) to support WIN improvement.

No.	Task Steps	Photo or Diagram	Notes	✓
Pre-Iso	olation Tasks Steps			
a.	Contact Train Control and obtain	n a TOA/TWA		
1.	Prepare the work area			
1.1	Complete a JHA for any additional hazards not already covered in this Work Instruction.	MAD QUE NOTICE AND THE PROPERTY OF THE PROPERT	Take into account weather conditions, working embankments, etc.	
1.2	Conduct thorough prestart equipment checks on all machinery, tools and equipment to be used during this task.		Ensure all lifting equipment is tagged and rated for the panel's weight.	
1.3	Conduct a pre-lift inspection using the pre-lift checklist.	Property of the second of th	Refer to form 0107569, Lifting and Cranage Operations – Pre-Lift Checklist.	
1.4	Have a lifting plan to know the order the panels are going to be removed.		Numbering the panels in a sketch will facilitate the installation at a later stage. Number individual panels with a paint pen as well.	



Maint	tenance Work Instruction	0102227		
No.	Task Steps	Photo or Diagram	Notes	✓
1.5	Have the Manufacturers Instruction Manual on hand.		Detailed instruction manual backs up this Work Instruction.	
1.6	Keep all pins, clips and washers and store them safely for reuse.		Modular panels are designed so they can be removed and reassembled without damage.	
1.7	Remove any debris/rubbish located on the gap between rail and panels.		Wear correct PPE	
Task	Steps to be done under isolation			
2.	Removal			
2.1	Remove R clip and washers from side panels.		Store clips and washers in a safe place for later reuse.	
2.2	Remove locking pins away from the rail.		Locking pins will be required when installing panels back.	
2.3	Fit the lift clutch into the lift points on top of the side and centre panels.		Ensure the lift points are clear of ballast and debris and inspect for corrosion and damage. Double check all crossing fastenings are removed before commencing lift.	
2.4	Attach the lifting gear.	Load	Ensure the lifting gear is adjusted so an even lift is maintained throughout. 60° is the optimum angle for the chain sling.	



Maint	enance Work Instruction	0102227		
No.	Task Steps	Photo or Diagram	Notes	✓
2.5	Remove side panels.		Lift the panels slowly and steadily to prevent damage to panels, locating pins and/or lifting equipment. Rubber insulator should stay glued to the sleepers. Always use a tag line during lifting operations.	
2.6	Relocate the outer panels away from the work area.		Leave clear access to these outer panels so they can be retrieved again in a later step.	
2.7	Remove the centre panels from the saddles.		Rubber insulator should stay glued to the sleepers.	
2.8	Relocate the centre panel away from the work area.		The 150 crossing panels cannot be used on the 250 crossing as the panels will not fit.	
2.9	Pins and washers should remain attached to the panels.		Washers that fall during removal shall be kept safe for later reinstall.	



Main	tenance Work Instruction	0102227		
No.	Task Steps	Photo or Diagram	Notes	✓
2.10	Jigs sitting on top of saddles can be removed if required.		Store them safely for later reuse.	
2.11	Rubber insulators and saddles shall remain on the sleepers.		Verify saddle and rubber insulator alignment.	
3.	Post Task Checks			
3.1	Place all of the outer panels across the approaches to the crossing.		The outer panels are placed there to prevent road traffic from attempting to cross whilst the crossing is out of service.	
3.2	Remove all tools and unwanted equipment.			
3.3	Cancel Track Protection with train control.			
3.4	Leave the site.			
De-Is	olation, Testing and Commission	ing Tasks Steps		
a.	Contact Train Control and cance			
b.	Ensure Journey Management is	advised when you depart site (if ap	oplicable).	
4.	Close out		I	
4.1	Upload Maintenance Record as an attachment to the work order in SAP, and or raise a notification for any deficiencies to be corrected.			
No. T	ask Description			Initial
HANI	DOVER			
	Contact the area supervisor and info be returned to duty.	rm that the equipment maintenance	e is complete and ready	
HOUSEKEEPING				
	Ensure all tools, equipment and mate end of the job.	erials are removed from worksite ar	nd stored correctly at the	
ATTA	ACHED PICTURES, DRAWINGS O	R DIAGRAMS		

Document: 0102227

Version No:2.0

Name:



Date:

Maintenance Work Instruction 0102227

Maintenance Work instruction						
ADDITIONAL WORK IDENTIFIED						
Maintainable Item	Details and comr	Notification #				
WIN FEEDBACK (To sup	port content imp	rovement)				
Were the task instructions	complete and clea	ar?		Yes / No		
Where applicable, was Iso	lation and Permit i	nformation correct	and complete?	Yes / No		
Were the materials, tools a	and equipment lists	s complete?		Yes / No		
General Feedback:						
SIGN – OFF WORK COM	PLETED (Person	(s) Who Complete	ed Work)			
Name:	Date:					
Name:	Date:					
Name:	li	nitial:	Sign:	Date:		
Name: Initial: Sign: Date						
Supervisor						

Initial:

Sign:

Document: 0102227 Version No:2.0 Page 8 of 8