

Network Safeworking Rules and Procedures

Planning Work in the Rail Corridor

Rule Number: 3000

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Document History

Version	Effective Date	Pages updated	Reasons for change
2.0	03 02 2020	All	Major Review

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1. Purpose

This rule provides instructions designed to ensure that appropriate planning is carried out for work within the *Rail Corridor* and assessing the work for safety.

2. General

Work planned for the *Rail Corridor* must be assessed for safety and its potential to intrude into the *Danger Zone*.

Work in the *Danger Zone* must:

- not be carried out unless there is a *Safe Place* that can be easily reached; and
- not begin until the required safety measure is in place.

Work in the *Danger Zone* must be carried out using one of the *Protection* methods listed in this rule.

The level of safety must not be reduced:

- to allow *Rail Traffic* movements; or
- because of a lack of trained workers.

Workers in the *Rail Corridor* must wear long pants, long sleeved shirts and approved Personal Protection Equipment (PPE). The minimum PPE required is High Visibility clothing and Safety footwear.

Effective Communication with Network Controllers, Possession Protection Officers and Protection Officers must be maintained.

The *Protection Officer* must contact the *Network Controller* before workers enter the *Rail Corridor*.

3. Protection Officer

A worksite within or work that has potential to intrude into the *Danger Zone* must have a *Protection Officer* for the duration of the work.

The *Protection Officer* is responsible for managing the rail safety component of worksite *Protection*.

A *Protection Officer's* primary duty and responsibility is to keep the worksite and workers safe. The *Protection Officer* must be satisfied that other work will not interfere with this duty.

The *Protection Officer* must:

- Compile a worksite *Protection* plan;
- make a *Safety Assessment* upon arrival at site to confirm details in the worksite *Protection* plan;
- brief workers about the rail safety component of worksite *Protection*;
- make sure that the rail safety component of the work is done safely;
- communicate with the *Network Controller* about the work and *Protection* arrangements; and
- keep records about the *Track Occupancy* and *Protection* arrangements.

4. Assessing Safety

When making a *Safety Assessment*, *Protection Officers* must consider, amongst other factors, if:

- work will affect *Track* under the control of different *Network Controllers*, *Access Providers* or private *Siding* operators;
- appropriate numbers of *Competent Workers* are available to protect the work;
- easily reached *Safe Places* are available for workers;
- the *Sighting Distance* and the speed of approaching *Rail Traffic* will allow sufficient warning time to be given by *Lookout Officers*;
- it is possible to close the affected line during the work;
- there will be *Rail Traffic* on *Adjacent* lines;
- *Rail Traffic* will travel on an *Adjacent* line in both directions over a *Uni-Directional* line
- there will be *Rail Traffic* between and/or within worksites;
- signals are available to protect worksites;
- other *Work on Track* will affect the worksites;
- there is safe passage to and from worksites;
- there is public *Access* to the *Rail Corridor*;
- there is a risk to workers from road traffic;
- the work will intrude on *Level Crossings*;
- the line is electrified, has power lines overhead or underneath;
- the line is *Track-Circuited*;
- the formation of the line and the *Location* will affect the work;
- *Effective Communication* is available;
- equipment used in the work will intrude into the *Danger Zone*;
- other groups need to be told about or involved in the work; and
- the potential for noise within and external to the worksite may impact on the worksite *Protection*.

The *Protection Officer* must regularly review safety measures and if conditions such as visibility or work *Location* changes make amendments to the worksite safety as required.

4.1 Use of Plant Near or Work Above the Danger Zone

Unless special precautions for *Protection* of the *Running Line* have been approved by *Arc Infrastructure*, an appropriate *Authority* must be used where:

- *Plant* is to be used and any portion of that *Plant* may encroach into the *Danger Zone*; or
- work is to be carried out above the *Danger Zone*.



NOTE: Special precautions may include, but not be limited to, chain link fencing, scaffolding, roofing above the *Running Line* and restrictive safety chains on *Plant*.

5. Multiple Access Providers

If the planned work will affect *Track* under the control of more than one *Access Provider*, the *Protection Officer* must get the relevant *Network Controllers'* authority.



NOTE: *Protection Officers* must be aware of the *Protection* arrangements required for *Adjoining Networks*.

Where necessary *Competent Workers* must be qualified in the *Adjoining Network* rules and procedures.

6. Level Crossings

If *Work on Track* will intrude into the *Level Crossing* or affect the *Level Crossing* operation, the *Protection Officer* must arrange to ensure the safety of:

- workers; and
- road, pedestrian and *Rail Traffic*.

7. Methods for Working Safely on Track

Appropriate methods must be selected for arranging and managing work within the *Rail Corridor*.

The *Protection Officer* must tell affected workers about the *Protection* arrangements.

7.1 Running Lines in the Network Outside Depots and Sidings

Work in the *Danger Zone* must be *Protected* by using one or more of the following:

- 3001 Local Possession Authority.
- 3005 Work on Track Authority.
- 3013 Lookout Working.

The preferred methods of *Track Occupancy* are:

- *Local Possession Authorities*; and
- *Work on Track Authority*.



NOTE: Each *Track Occupancy* has mandatory minimum safety measures. However, additional safety measures may be identified through risk assessments.

7.2 In Depots and Sidings

7.2.1 Depots

If *Rail Traffic* needs to be excluded from a work area within a Depot, the *Protection Officer* must get permission from the person in charge of the Depot.

The *Protection Officer* must make arrangements with the person in charge of the Depot to prevent *Unauthorised Rail Traffic* entry into the work area.

The person in charge of the Depot must ensure *Unauthorised Rail Traffic* entry into the work area is prevented.

7.2.2 Sidings

Where there is not a person in charge of the *Sidings*, the *Protection Officer* must make arrangements with:

- the *Network Controller*, or
- the person responsible for giving entry into the *Siding*.

8. Local Possession Authority (LPA)

An *LPA* is applied in accordance with Rule 3001 Local Possession Authority.

LPAs are used to close a defined portion of *Track* for a specified period.

An *LPA* is *Issued* exclusively to the *Possession Protection Officer*.

At all times, there must be a nominated *Possession Protection Officer* for the *LPA*.

Work within the portion of *Track* included in the *LPA* limits must only be done with the *Possession Protection Officer's* approval.

A number of separate work groups, *Associated Rail Traffic* and equipment may occupy the portion of *Track* defined by the *LPA*.

A *Possession Protection Officer* is responsible for coordinating the rail safety component of worksite *Protection*.

The *Track* may be broken or *Obstructed*.

Unless authorised for an *Emergency* the intention to take an *LPA* must be *Advertised*.

9. Work on Track Authority (WoTA)

A *WoTA* is applied in accordance with Rule 3005 Work on Track Authority.

WoTAs are used to close a defined portion of *Track* for a specified period.

A work group, including that group's equipment, and *Associated Rail Traffic* may occupy the portion of *Track* defined by the *WoTA*.

The *Track* may be broken or *Obstructed*.

Only Associated Rail Traffic is permitted in a *WoTA*.

10. Lookout Working

Lookout Working is applied in accordance with Rule 3013 Lookout Working.

Lookout Working is used to give warning of approaching *Rail Traffic* to workers in or near the *Danger Zone*.

The *Lookout Working* method must not be used for work on overhead wiring, or work that breaks the *Track* or alters *Track* geometry or structure.

Lookout Working may be used for:

- minor short-term work; and
- work requiring the use of *Light Tools or Devices* which can be easily and immediately removed from the *Track* by **one worker** without mechanical assistance;
- inspections in the *Danger Zone*; or
- work conducted in the *Rail Corridor*, but outside of the *Danger Zone* that may intrude into the *Danger Zone*.

Work in the *Danger Zone* using the *Lookout Working* method must be done in daylight hours only, where visibility allows.

Workers must be able to remove themselves, tools and materials to a *Safe Place* immediately the warning of approaching *Rail Traffic* is received.

11. Walking in the Danger Zone

Workers walking in the *Danger Zone* must apply Rule 2001 Walking in the Danger Zone.

Walking in the *Danger Zone* is:

- walking from place to place in the *Danger Zone*; and
- doing no work other than placing or removing *Protection* for a worksite or *Rail Traffic*; or visual inspection of *Track*.

Where workers must walk in the *Danger Zone*:

- an easily-reached *Safe Place* must be available; and
- visibility conditions must allow enough *Sighting Distance* for workers to reach a *Safe Place* before the arrival of *Rail Traffic*.

12. References

2001 Walking in the Danger Zone

3001 Local Possession Authority

3005 Work on Track Authority (WoTA)

3013 Lookout Working.

13. Effective Date

3 February 2020

Network Safeworking Rules and Procedures

Local Possession Authority

Rule Number: 3001

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1. Purpose

This rule details the protocols for *Issuing*, using *Local Possession Authorities (LPAs)* and how an individual worksite is *Protected* when multiple worksites are within the *LPA*. These *Authorities* are used to close a defined portion of *Track* for a specified period.

2. General

Only *Network Controllers* may authorise an *LPA* for *Track* under their control.

An *LPA* gives *Exclusive Occupancy* for the defined portion of *Track*.

Unless *Authorised* for an *Emergency*, the approval for the *LPA* must be *Advertised*. At all times, there must be a nominated *Possession Protection Officer* for the *LPA*.

To apply this rule, a minimum accreditation level of *PPO (Possession Protection Officer)* must be held in accordance with Rule 1004 *Track Access Accreditation*.

An *LPA* is *Issued* exclusively to the *Possession Protection Officer*.

A *Possession Protection Officer* is responsible for coordinating the rail safety component of worksite *Protection*.

Work within the portion of *Track* included in the *LPA* limits must only be done with the agreement of the *Possession Protection Officer*.

A number of separate work groups and their *Associated Rail Traffic* and equipment may occupy the portion of *Track* defined by an *LPA*.

3. Authorisation

Before authorising the *LPA*, the *Network Controller* must make sure that:

- another *Track Occupancy* is not in use within the proposed limits;
- approaching *Rail Traffic* can be *Restrained* at the ends of the *Section* that include the proposed limits;
- *Stabled Rail Traffic* not associated with the *LPA*, but is within the limits of the *LPA*, must not be authorised to move;
- *Stabled Rail Traffic* that is attended by *Rail Traffic Crew* must be issued with a *Restraint Authority*;
- *Rail Traffic* associated with the *LPA*, within the limits, has been identified and is being managed as agreed by the *Possession Protection Officer* and the *Network Controller*;
- the *Possession Protection Officer* knows about any existing *Obstructions*; and
- *Blocking Facilities* have been applied, in accordance with Rule 6003 Blocking Facilities, to prevent *Unauthorised Rail Traffic* entry into the proposed limits.

Where manually *Issued* the *Network Controller* must confirm with the *Possession Protection Officer* the:

- type of work;
- intended start and finish times; and
- *Location*, using two or more of the following identifiers:
 - a kilometre sign and *Section*;
 - *Station* name;
 - a *Points* number;
 - a signal number;
 - an observance of *Points* or signal *Aspect* change;
 - permanent structures, such as a bridge, roadway or overpass, used only in conjunction with one of the above identifiers; or
 - another identifier.

Where the *LPA* is manually *Issued* the *Network Controller* must confirm the name, *Track Access* number and contact details of the *Possession Protection Officer*.

Where an existing *Track Occupancy* is in place, the *Network Controller* may *Issue* the *LPA* only if the existing *Track Occupancy* is *Fulfilled*.

4. Possession Protection Officer and Protection Officer

4.1 Possession Protection Officer

The *Possession Protection Officer* must:

- maintain a *LPA Worksite Permit (Master)*;
- be responsible for the *Protection* of workers from *Rail Traffic*;
- make sure that the limits of the *LPA* are *Protected* against the entry and exit of *Unauthorised Rail Traffic*;
- make sure that each worksite within the *LPA* has a *Protection Officer* while work is being performed;
- establish *Effective Communication* with *Protection Officers*;
- make sure *Protection Officers* keep the *Tracks* between worksites and protecting *Locations Clear of Obstructions*;
- coordinate the *Protection* of all worksites within the limits of the *LPA*; and
- make sure that work in the *Danger Zone* does not begin before the required safety measures are in place.

4.2 Change of Possession Protection Officer

An outgoing *Possession Protection Officer* must tell an incoming *Possession Protection Officer* about the worksite *Protection* arrangements.

The incoming *Possession Protection Officer* must:

- tell affected *Network Controllers* about the changed contact arrangements; and
- make a *Permanent Record* of the handover of the *LPA*.

4.3 Protection Officer

There must be a *Protection Officer* present at the worksite for the period of the work.

A *Protection Officer* must:

- *Effectively Communicate* with the *Possession Protection Officer*;
- comply with the *Possession Protection Officers* instruction;
- make sure that work in the *Danger Zone* does not begin before the required safety measures are in place;
- be responsible for the *Protection* of workers from *Rail Traffic*;
- be satisfied that other work will not interfere with *Protection* duties;
- make sure the *Tracks* between worksites and protecting *Locations* are kept *Clear of Obstructions*;
- make sure that worksites are *Protected* against the *Unauthorised* entry and exit of *Rail Traffic*;
- tell workers about the *Locations of Safe Places* before work begins; and
- tell workers if the *Protection* arrangements change.

4.4 Change of Protection Officer

The outgoing *Protection Officer* must tell the incoming *Protection Officer* about the current worksite *Protection* arrangements.

Before taking charge of the worksite, the incoming *Protection Officer* must:

- confirm the current worksite *Protection* arrangements with the outgoing *Protection Officer* and the *Possession Protection Officer*;
- make a *Permanent Record* of the time of the worksite handover; and
- confirm that the *Possession Protection Officer* has noted the changed contact arrangements.

The *Possession Protection Officer* must confirm the handover and record the incoming *Protection Officer's* name and contact details in the *LPA Worksite Permit (Master)*.

5. Obtaining an LPA

The *Network Controller* and the *Possession Protection Officer* must confirm:

- the *Issuing Network Control* desk;
- the *LPA* limits;
- the *Points* to be clipped, in accordance with Procedure 9000 Securing and Clipping Points, if required; and
- the duration of the *LPA*.

5.1 Where the LPA issued electronically

The *Network Controller* and the *Possession Protection Officer* must confirm:

- *Authority* ID;
- *Sections* blocked; and
- Status.

5.2 Where the LPA is issued manually

The *Network Controller* and the *Possession Protection Officer* must confirm:

- the *Possession Protection Officer's* name and contact details;
- a unique identifying number;
- that *Blocking Facilities* have been applied to prevent entry of *Rail Traffic* into the portion of *Track* within the proposed limits;
- the time of *Issue*; and
- the date of *Issue*.

The *Possession Protection Officer* must repeat the details back to the *Network Controller*.

5.3 Where other Network Controllers are affected by the LPA

The *Network Controller* must make sure that other affected *Network Controllers* are aware of the *LPA*.

6. Protection



WARNING: Work must not start in the *Danger Zone* until the required Protection is in place.

The *Network Controller* must apply *Blocking Facilities*, where available, to prevent *Unauthorised Rail Traffic* from entering the *LPA*. Where required, the *Possession Protection Officer* must place *In-Field Protection* at all points of entry to the *LPA*.

In-Field Protection can be one of the following:

- *RTS* and *STOP* sign;
- *Track Closed Warning Device*;
- *RTS* and *Rail Clamp STOP* sign; or
- *Points Secured* to prevent *Rail Traffic* entry.



NOTE: *RTS* must be used in accordance with Procedure [9004 Using Railway Track Signals](#).

In-Field Protection is not required between the worksites and the end of a *Terminal Line* if the *Network Controller* tells the *Possession Protection Officer* that there are no planned *Rail Traffic* movements from that direction.

Where there is *Stabled Rail Traffic* not associated with the *LPA*, within the limits of the *LPA*, the *Possession Protection Officer* must place *In-Field Protection* to prevent entry in to the *LPA*.

The distance between the *Protecting Signal*, or signs designating, the limits of the *LPA* and a *Fixed Worksite* must not be less than 500 metres unless:

- *Points* can be *Secured* to prevent *Access* to the portion of *Track* within the *LPA* limits; or
- a *Work on Track Authority Adjoining* the entry-end limit of that *LPA* has also been authorised for the period of the work.

6.1 Protection for Rail Traffic Crossing the LPA

Other *Rail Traffic* may cross the *LPA* to enter or exit a *Running Line*, *Siding* or *At Grade Rail Crossing*, but only with the *Possession Protection Officer's Authority*.

If *Rail Traffic* crossing is authorised the *Network Controller* must get the *Possession Protection Officer's* permission for the move.

Where the *Possession Protection Officer* authorises *Rail Traffic* movements across the *LPA* the *Possession Protection Officer* must:

- arrange with the *Protection Officer* of any worksite within 500 metres of the crossover to be suspended;
- arrange the removal of *Protection* at the entry point of the *Route*; and
- when *Rail Traffic* has cleared the entry *Point*, make sure *Protection* is replaced and reinstate any affected worksite.

6.2 Adjacent Line

If the *Safety Assessment* indicates that workers need to be protected from *Rail Traffic* on *Adjacent* lines, the *Protection Officer* must arrange for *Adjacent* lines to be *Protected* in accordance with Procedure 9010 Protecting Work from Rail Traffic on Adjacent Lines.

The *Protection Officer* may arrange for the speed of *Rail Traffic* on *Adjacent* lines to be restricted.

6.3 Protecting Multiple Worksites

The *Possession Protection Officer* must:

- make sure the *Protection Officers* protect their worksites correctly; and
- tell the *Protection Officers* if changes are required to worksite *Protection* and make sure the changes are carried out.

In-Field Protection can be one of the following:

- *RTS* and *STOP* sign;
- *RTS* and rail clamped *STOP* sign; or
- *Track Closed Warning Device*.

Protection Officers must make sure that *In-Field Protection* is placed on all Rail Traffic approaches to the worksite.

Figure 3001-2 Example of *Protection* arrangements for individual worksites more than a 1000 metres apart.

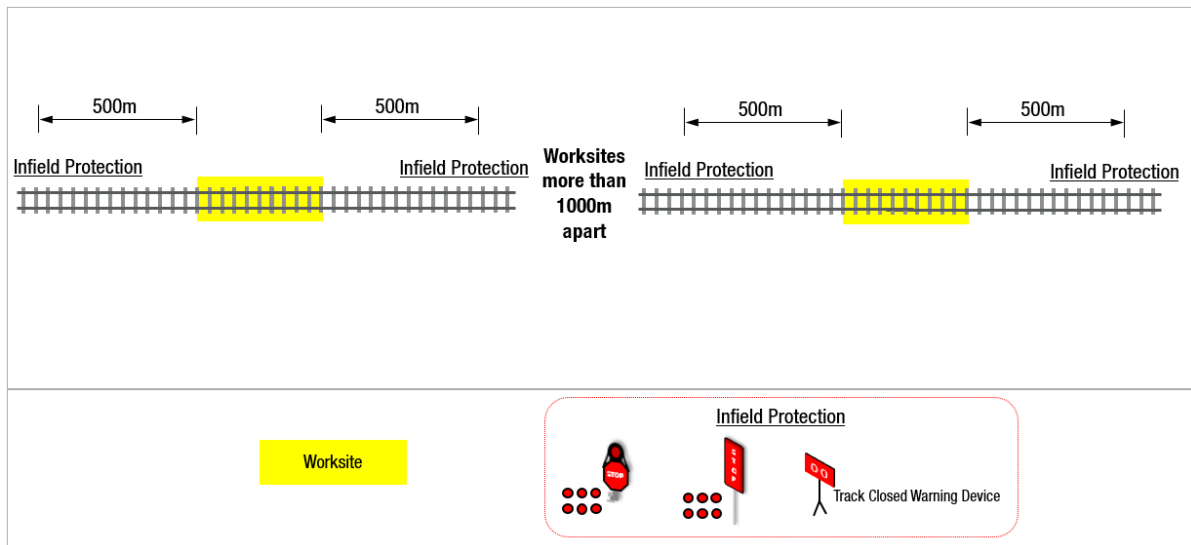


Figure 3001-3 Example of *Protection* arrangements for multiple worksites more than 500 metres but less than 1000 metres apart.

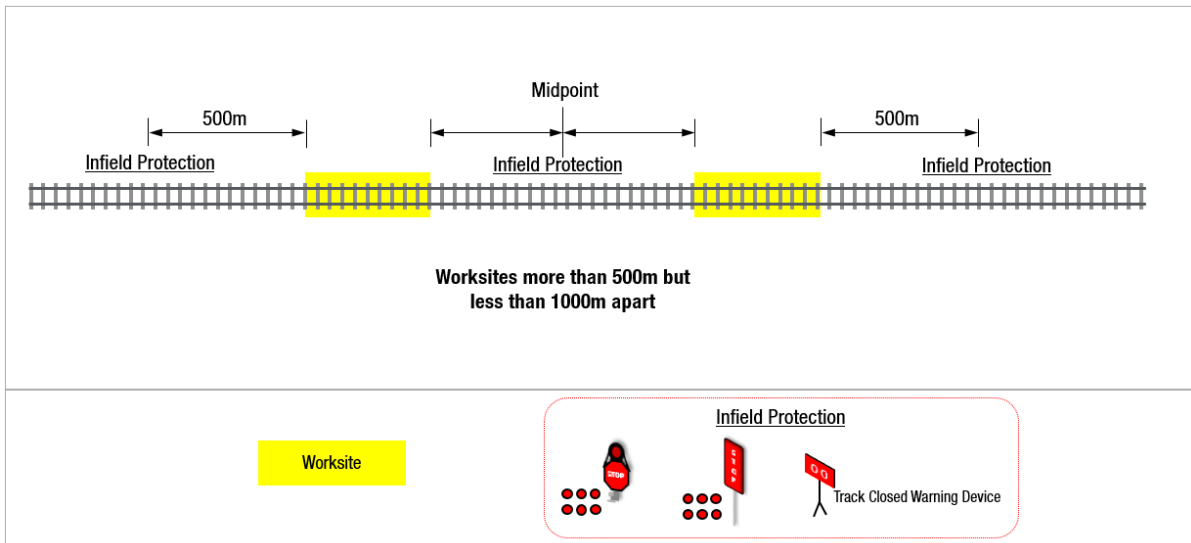
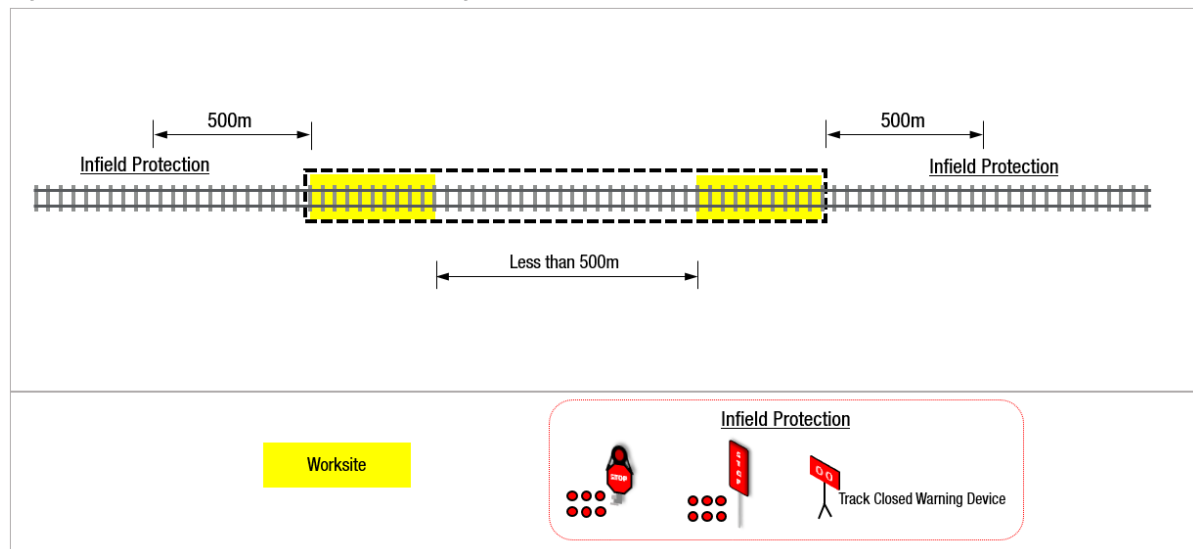


Figure 3001-4 Example of *Protection* arrangements for combined multiple worksites.



6.3.1 Compiling and Issuing LPA Worksite Permits

If an *LPA* involves one worksite only, an *LPA Worksite Permit* is not required.

Before work starts on the second and subsequent worksites, those *Protection Officers* must have an *LPA Worksite Permit* for the work they will supervise.

The *Possession Protection Officer* must:

- fill out an *LPA Worksite Permit*;
- record the details of the worksite including;
 - the worksite limits;
 - the intended start and finish times for the work;
 - if *Rail Traffic* movements are associated with the worksite;
 - the type and *Location* of *Protection*; and
 - the *Protection Officer's* name and contact details.
- make sure the *Protection Officer* has signed the *LPA Worksite Permit*; and
- record the *LPA Worksite Permit* details in the *LPA Worksite Permit (Master)*.

6.3.2 Maintaining the LPA Worksite Permit (Master)

If the *LPA* involves more than one worksite, the *Possession Protection Officer* uses the *LPA Worksite Permit (Master)* to:

- maintain a record of *LPA Worksite Permits Issued*; and
- record worksite handovers between *Protection Officers*.

Possession Protection Officers must:

- fill out an *LPA Worksite Permit (Master)* that includes details about the;
 - reference details of the *LPA Advertisement*;
 - intended start and finish times of the *LPA*;
 - *LPA* limits; and
 - number of worksites included in the *LPA*.
- for each worksite, record;
 - the worksite limits;
 - the *Protection Officer's* name and contact details;
 - if *Rail Traffic* movements are associated with the worksite;
 - the intended start and finish times for the work; and
 - the time and date when the *LPA Worksite Permit* is Issued.
- if the *Protection Officer* changes, confirm and record the;
 - time of handover; and
 - incoming *Protection Officer's* name and contact details.

6.3.3 Extending the LPA Worksite Permit Time

If the work will not be completed within the specified time, the *Protection Officer* must get approval from the *Possession Protection Officer* for an extension of time.

If the *Possession Protection Officer* agrees to an extension, the *Possession Protection Officer* must record the:

- new worksite end time; and
- time the extension was agreed.

6.3.4 Fulfilling a LPA Worksite Permit

When the work has been completed the *Protection Officer* must make sure:

- that *Rail Traffic* and equipment is *Clear* of the line;
- that the workgroup has cleared the worksite;
- that *In-Field Protection* and *Points* clips have been removed;
- the portion of *Track* included in the worksite permit has been *Certified* as available for use;
- the *Possession Protection Officer* is advised about operating restrictions that have been placed or removed; and
- the *LPA Worksite Permit* is Fulfilled.

The *Possession Protection Officer* must:

- use the *LPA Worksite Permit (Master)* to record that the *LPA Worksite Permit* has been *Fulfilled*; and
- ensure all *Worksite Permits* are *Fulfilled* before *Fulfilling* the *LPA*.

7. Rail Traffic

Only *Rail Traffic* associated with the *LPA* may enter the limits of the *LPA*.

Other *Rail Traffic* may cross the *LPA* to enter or exit a *Running Line*, *Siding* or *At Grade Rail Crossing*, but only with the *Possession Protection Officer's* agreement.

Before entering the *LPA*, *Rail Traffic Crews* must verify with the *Possession Protection Officer* or *Delegate* that the *LPA* is *In-Effect*.

7.1 Rail Traffic Entering or Travelling Within the LPA Limits

The *Possession Protection Officer* or *Delegate* must manage all *Rail Traffic* movement within the *LPA*.

Where a *Pilot* is used, the *Possession Protection Officer* or a *Delegated Protection Officer* must act as the *Pilot*.

The *Possession Protection Officer* must make sure that *Rail Traffic* associated with the *LPA* does not exceed the limits of the *LPA*.

Rail Traffic that is associated with the *LPA*, entering and *Travelling* within the *LPA* limits must:

- be *Piloted*; or
- receive written or verbal instructions from the *Possession Protection Officer*.

7.2 Fixed Signals

Fixed Signals within the limits of the *LPA* must, where possible, be placed to PROCEED for *Rail Traffic* movements.

Where *Fixed Signals* cannot be placed to PROCEED for *Rail Traffic* movement, they must be passed in accordance with Rule 6013 Passing Fixed Signals at Stop.



NOTE: Inside an *LPA*, the *Possession Protection Officer* must authorise all *Rail Traffic* movements past *Fixed Signals* and would request the *Network Controller* to place *Fixed Signals* at PROCEED, the *Network Controller* can only place *Fixed Signals* at PROCEED on the request of the *Possession Protection Officer*.

7.3 Rail Traffic Departing the LPA

Rail Traffic may depart from the limits of an *LPA* only on the *Authority* of the *Network Controller*.

8. Communications with Network Control

The *Possession Protection Officer* must be the only point of contact between the *Network Controller* and work groups for matters of worksite *Protection*.

The *Possession Protection Officer* must tell affected *Network Controllers* about:

- the *Protection* arrangements;
- *Protection* arrangements on *Adjacent* lines; and
- work progress at agreed times.

The *Possession Protection Officer* must, if necessary, seek an extension of time.

When the agreed time limit has been exceeded by 15 minutes and the *Possession Protection Officer* has not requested an extension of time, the *Network Controller* must act in accordance with Rule 4017 Overdue Occupancies.

9. Fulfilling the LPA

Before *Fulfilling* the *LPA* the *Possession Protection Officer* must make sure and tell the *Network Controller* that:

- *Associated Rail Traffic* and all equipment has cleared the *Track*;
- all work groups have cleared the worksites;
- *In-Field Protection* has been removed;
- signals that were affected have been restored for normal use; and
- the portion of *Track* included in the *LPA* is *Certified* as available for use.

The *Possession Protection Officer* and the *Network Controller* must *Fulfil* the *LPA*.

The *Network Controller* must confirm with the *Possession Protection Officer* that *Blocking Facilities* can be removed.

The *Network Controller* must advise other affected *Network Controllers* that the *LPA* has been *Fulfilled*.

The *Possession Protection Officer* must tell the *Network Controller* about operating restrictions that have been placed or removed.

9.1 Work to Continue Under Another Track Occupancy

Where arrangements have been made to continue work under another *Track Occupancy* the *Protection Officer* must ensure that the *Protection* applied for the *LPA* is not removed until the new *Track Occupancy* is *Issued* and the required *Protection* for that new *Authority* is in place.

The *Network Controller* must ensure that the *Track* within the limits of the proposed *Track Occupancy*:

- is *Clear of Rail Traffic*; or
- is only occupied by *Associated Rail Traffic* permitted under that *Authority*.

10. Keeping Records

Network Controllers and the *Possession Protection Officer* must keep *Permanent Records* about the details of the *LPA*, including *Protection* arrangements and changes to the worksite *Protection*.

11. References

1004 Track Access Accreditation

4017 Overdue Occupancies

6003 Blocking Facilities

6005 Fixed Signals

6013 Passing Fixed Signals at Stop

9000 Securing and Clipping Points

9004 Using Railway Track Signals.

9010 Protecting Work from Rail Traffic on Adjacent Lines.

12. Effective Date

3 February 2020

Network Safeworking Rules and Procedures

Work on Track Authority

Rule Number: 3005

Arc Infrastructure maintains the master for this document and publishes the current version on the Arc Infrastructure website. All changes and updates to the Network Safeworking Rules and Procedures are authorised by the Arc Infrastructure Rule Book Committee. This document is uncontrolled when printed.

Document History

Version	Effective Date	Pages updated	Reasons for change
2.0	03 02 2020	All	Major Review

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1. Purpose

This rule details the protocols for *Issuing* and using *Work on Track Authorities (WoTA)*. These *Authorities* are used to close a defined portion of *Track* for a specified period.

2. General

Only *Network Controllers* may authorise a *WoTA* for *Track* under their control.

A *WoTA* is *Issued* to the *Protection Officer* and gives *Exclusive Occupancy* unless *Issued* in accordance with Section 3.1 of this rule.

The *Protection Officer* applying this rule must have a minimum of *Protection Officer Level Competency* in accordance with Rule 1004 Track Access Accreditation.

A single work group, including that group's equipment, and *Associated Rail Traffic*, may occupy the portion of *Track* defined by the *WoTA*.

The *Track* may be broken or *Obstructed*.

Associated Rail Traffic is permitted in a *WoTA*.

3. Authorisation

Before authorising the *WoTA*, the *Network Controller* must make sure that:

- another *Work on Track Authority* or *Local Possession Authority* is not in use within the proposed limits;
- approaching *Rail Traffic* can be *Restrained* at the ends of the *Section* that includes the proposed limits;
- *Stabled Rail Traffic* not associated with the *WoTA*, but is within the limits of the *WoTA*, must not be authorised to move;
- *Stabled Rail Traffic* that is attended by *Rail Traffic Crew* must be issued with a *Restraint Authority*;
- *Rail Traffic* associated with the *WoTA* within the limits has been identified and is being managed as agreed by the *Protection Officer* and the *Network Controller*;
- the *Protection Officer* knows about any existing *Obstructions*; and
- *Blocking Facilities* have been applied in accordance with Rule 6003 Blocking Facilities to prevent *Unauthorised Rail Traffic* entry into the proposed limits.

The *Network Controller* must confirm with the *Protection Officer* the:

- name, *Track Access* permit number and contact details of the *Protection Officer*;
- type of work;
- intended start and finish times; and
- for manual transmissions only, the *Location* using two or more of the following identifiers:
 - a kilometre sign and *Section*;
 - *Station* name;
 - a *Points* number;
 - a signal number;
 - an observance of *Points* or signal *Aspect* change;
 - permanent structures, such as a bridge, roadway or overpass used only in conjunction with one of the above identifiers; or
 - another identifier.

3.1 Authorising a WoTA where rail traffic is holding a Uni - Directional Authority

A *WoTA* may be authorised when *Rail Traffic* holding a *Uni-Directional Authority* has *Cleared* the limits of the proposed worksite by confirming:

- with the *Protection Officer*, the *Rail Traffic* identification number of the lead vehicle of a *Train* or the last vehicle of a *Track Vehicle* movement;
- with the *Rail Traffic Crew*, the *Location* of their *Rail Traffic*; or
- that the Section is Clear.

4. Protection Officer

4.1 Protection Officer

There must be a *Protection Officer* present at the worksite while workers are present, until the *WoTA* is *Fulfilled*. The *Arc Infrastructure Operations Delegate* must authorise a *WoTA* to remain in place without being *Fulfilled*.



WARNING: Safety measures must be in place to Protect workers from Associated Rail Traffic and other heavy Plant and equipment been used within the worksite, e.g. the use of Lookouts, Stop signs etc.

A *Protection Officer* must:

- make sure that work in the *Danger Zone* does not begin before the required safety measures are in place;
- be responsible for the *Protection* of workers from *Rail Traffic*;
- make sure the *Tracks* between the worksite and protecting *Locations* remain *Clear of Obstructions*;
- make sure that the worksite is *Protected* against the *Unauthorised* entry or exit of *Rail Traffic*;
- tell workers about the *Locations of Safe Places*; and
- tell workers about the protection and limits in place:
 - before work begins; and
 - if the protection arrangements change.

4.2 Change of Protection Officer

An outgoing *Protection Officer* must tell an incoming *Protection Officer* about the worksite *Protection* arrangements.

The incoming *Protection Officer* must:

- tell affected *Network Controllers* about the changed contact arrangements;
- confirm with the *Network Controller* the *WoTA* number; and
- make a *Permanent Record* of the handover of the *WoTA*.

5. Obtaining a WoTA

The *Network Controller* and the *Protection Officer* must confirm:

- the *Issuing Network* control desk;
- the *WoTA* limits;
- the *Points* to be clipped, in accordance with Procedure 9000 Clipping and Securing Points, if required;
- the duration of the *WoTA*; and when the *WoTA* is issued, the *Protection Officer* must ensure the required *Protection* is in place before work commences; the unique identifying number;
- that *Blocking Facilities* have been applied, to prevent entry of *Rail Traffic* into the portion of *Track* within the proposed limits;
- the *Protection Officer's* name and contact details;
- the time of *Issue*; and
- the date of *Issue*.

The *Protection Officer* must repeat the details of the *WoTA* back to the *Network Controller*.

The *Network Controller* must make sure that other affected *Network Controllers* are aware of the *Protection*.

5.1 Where the WoTA is issued electronically

The *Network Controller* and the *Possession Protection Officer* must confirm:

- *Authority* ID;
- *Sections Blocked*; and
- status.

5.2 Where the WoTA is issued manually

The *Network Controller* and the *Protection Officer* must confirm:

- the *Protection Officer's* name and contact details;
- a unique identifying number;
- that *Blocking Facilities* have been applied to prevent entry of *Rail Traffic* into the portion of *Track* within the proposed limits;
- the time of *Issue*; and
- the date of *Issue*.

The *Protection Officer* must repeat the details back to the *Network Controller*.

5.3 Where other Network Controllers are affected by the WoTA

The *Network Controller* must make sure that other affected *Network Controllers* are aware of the *WoTA*.

6. Protection



WARNING: Work must not start in the *Danger Zone* until the required Protection is in place.

The *Network Controller* must apply *Blocking Facilities*, where available, to prevent *Unauthorised Rail Traffic* from entering the *WoTA*.

Where *Blocking Facilities* are unavailable, the *WoTA* must be *Protected* using *In-Field Protection*.

In addition to *Blocking Facilities* the *WoTA* must be *Protected* using *In-Field Protection* if:

- the *Track* will be broken;
- the *Track* geometry will be altered;
- heavy *Plant* will be used; or
- there is *Associated Rail Traffic*.

Where *Joint Occupancy* is permitted and any worksite, within the same *Blocking Limits*, has *Associated Rail Traffic*, all worksites must use *In-Field Protection*. Where one worksite has associated rail traffic only one other *WoTA* is permitted.

6.1 In-Field Protection

In-Field Protection can be one of the following:

- *Railway Track Signals (RTS)* and Rail Clamp Stop Sign;
- *RTS* and a STOP sign;
- *Track Closed Warning Device*; or
- *Points Secured* to prevent *Rail Traffic* entry.



NOTE: *RTS* must be used in accordance with Procedure [9004 Using Railway Track Signals](#).

6.2 Terminal Lines

In-Field Protection is not required between the worksites and the end of a *Terminal Line* if the *Network Controller* tells the *Protection Officer* that there are no planned *Rail Traffic* movements from that direction.

Where there is *Stabled Rail Traffic* not associated with the *WoTA*, within the limits of the *WoTA*, the *Protection Officer* must place *In-Field Protection* to prevent entry in to the *WoTA*.

6.3 Centralised Traffic Control (CTC) Territory

Protecting Signals must be placed to STOP with *Blocking Facilities* applied and *In-Field Protection*, as required by this rule, placed:

- at that *Protecting Signal*; or
- at least 500 metres from the worksite in such a position that any *Rail Traffic* entering the *WoTA* limits must pass over that *In-Field Protection*.

If a *Controlled Absolute Signal* less than 500 metres from the worksite is used to prevent access to the portion of *Track* within the *WoTA* limits, and a set of *Points* is available for a different *Route*, then set and *Secure* the *Points* for the different *Route*.

Where *In-Field Protection* is not required by this rule and the proposed worksite is within 500 metres of the *Protecting Signal* then:

- two consecutive *Controlled Absolute Signals* must be set at STOP with *Blocking Facilities* applied; or
- one *Controlled Absolute Signal* must be set at STOP with *Blocking Facilities* applied, with:
 - *Points Secured* to prevent *Access*; or
 - an easily reached *Safe Place* available and a *Lookout* provided.

If *Rail Traffic* can approach from more than one direction, the *Protection Officer* must protect all points of entry into the *Blocking Limits*.

Figure 3005-1 Example of a *Protecting Signal* less than 500 metres from the worksite and *Points Secured* for a different *Route*.

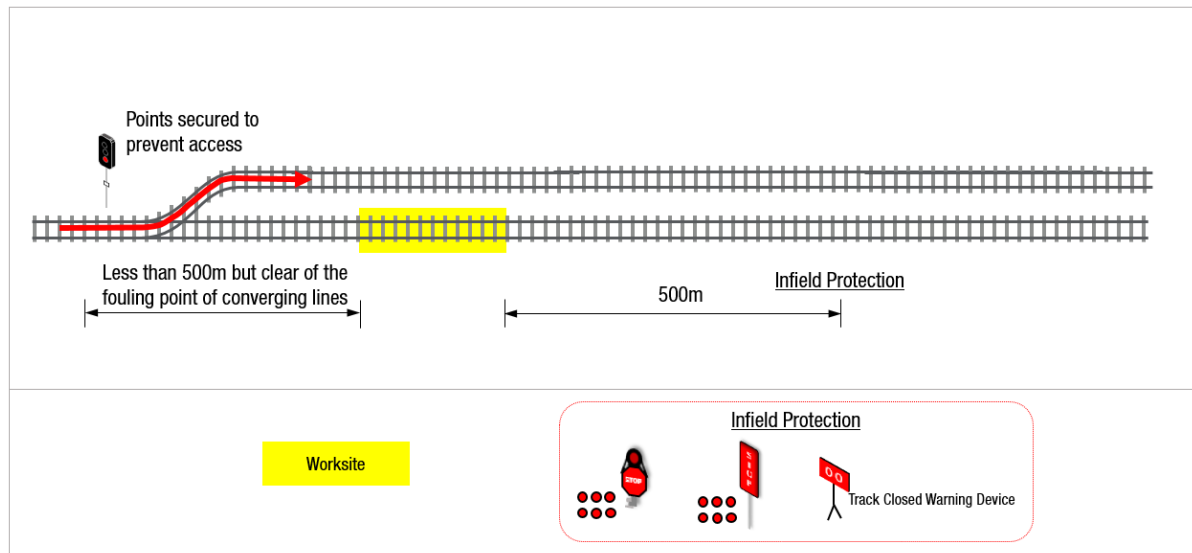


Figure 3005-2 Example of *Protecting* a worksite with signals more than 500 metres from the worksite.

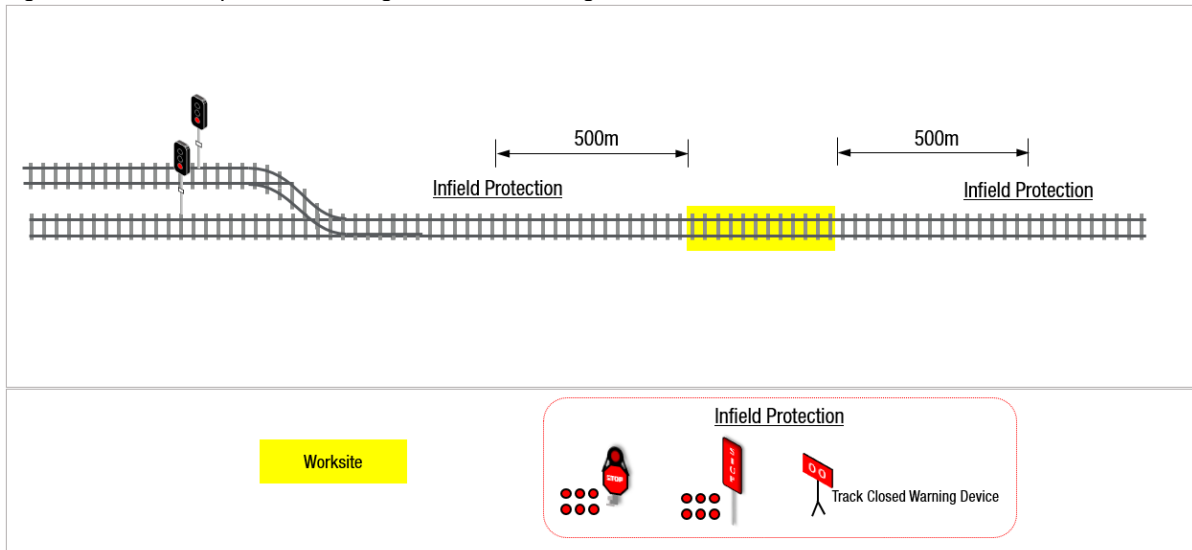
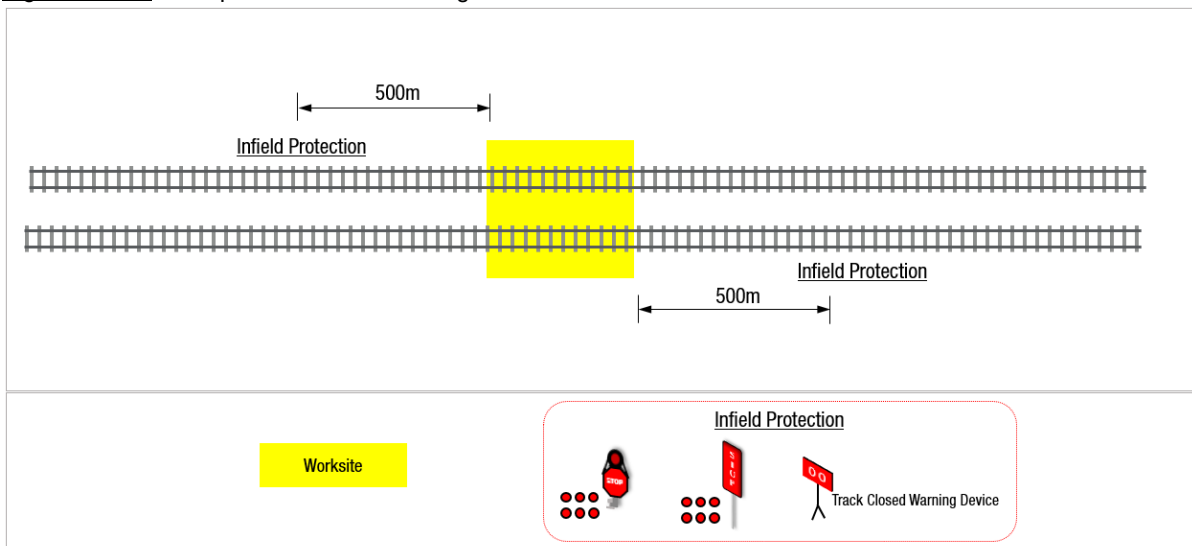


Figure 3005-3 Example of *Protection* arrangements for an individual worksite on a double line.

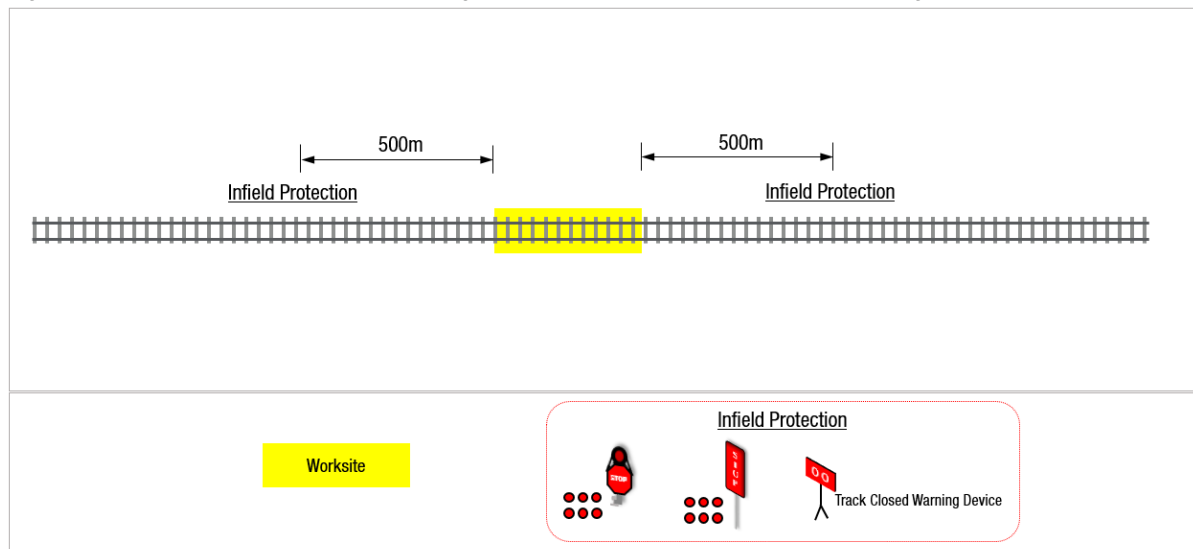


6.4 Train Order Territory

Blocking Facilities must be applied to the *Network Control System* on the *Section* beyond *Station Limits* sign for the entry to the *WoTA* limits and *In-Field Protection*, as required by this rule, placed:

- at that *Station Limits* sign; or
- at least 500 metres from the worksite in such a position that any *Rail Traffic* entering the *WoTA* limits must pass over that *In-Field Protection*.

Figure 3005-4 Example of *Protection arrangements* for an individual worksite on a single line.



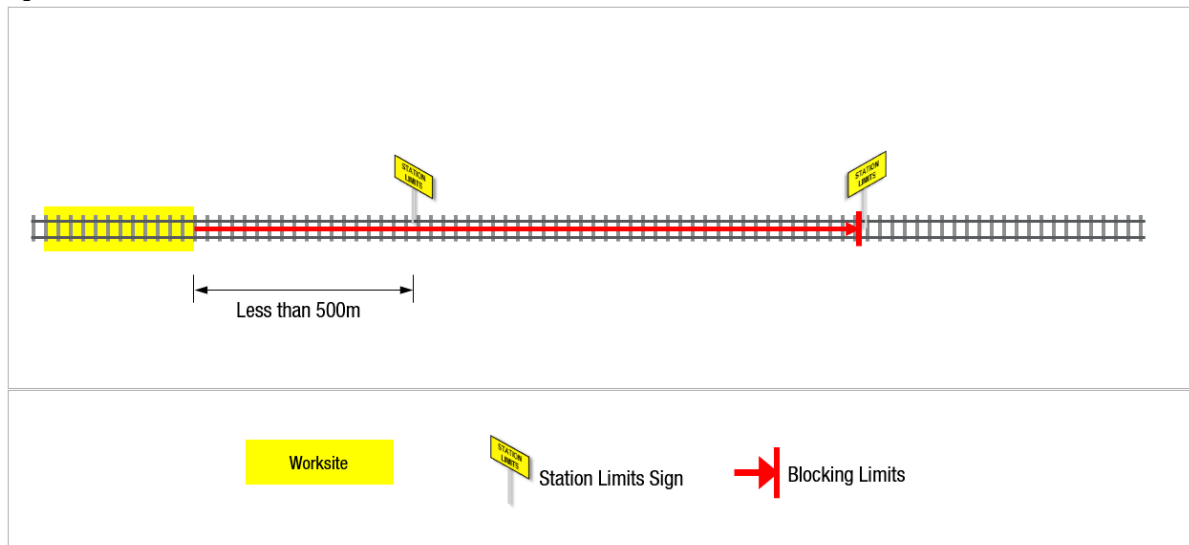
If a *Station Limits* sign less than 500 metres from the worksite is used to prevent *Access* to the portion of *Track* within the *WoTA* limits, and a set of *Points* is available for a different *Route*, then set and *Secure* the *Points* for the different *Route*. If *Points* cannot be *Secured* for a different *Route*, then *Blocking Facilities* must be applied up to the previous *Station Limits* sign.

Where *In-field Protection* is not required by this rule and the proposed worksite is within 500 metres of the *Station Limits* sign then:

- *Blocking Facilities* must be to two consecutive *Station Limits* sign; or
- *Blocking Facilities* applied to the first *Station Limits* sign, with:
 - *Points Secured* to prevent *Access*; or
 - an easily reached *Safe Place* available and a *Lookout* provided.

If *Rail Traffic* can approach from more than one direction, the *Protection Officer* must protect all points of entry into the *Blocking Limits*.

Figure 3005-5 Example of *Protection* arrangements for an individual worksite within 500m of the *Station Limits* sign.



6.5 Request for Blocking Facilities from a Person other than a Protection Officer

The *Network Controller* may apply *Blocking Facilities* in accordance with Rule 6003 Blocking Facilities without *Secure Blocking Codes* when a *Protection Officer* is not the requesting person to allow, for example:

- *Emergency services Access to the Network*;
- passenger *Train* evacuation; or
- livestock or vehicles to directly cross the *Track*.

The *Network Controller* must:

- confirm the *Location* and the work to be done;
- make sure the line is *Clear* between the *Protecting Signals* and the proposed worksite and any *Rail Traffic* that has passed the worksite will not return;
- set the *Protecting Signals* at STOP and apply *Blocking Facilities*;
- advise the person of the arrangements and authorise the work; and
- when told that the area is *Clear*, remove the *Blocking Facilities*.

6.6 Adjacent Line

If the *Safety Assessment* indicates that workers need to be *Protected* from *Rail Traffic* on *Adjacent* lines, the *Protection Officer* must arrange for *Adjacent* lines to be *Protected* in accordance with Procedure 9010 Protecting Work from Rail Traffic on Adjacent Lines.

The *Protection Officer* may arrange for the speed of *Rail Traffic* on *Adjacent* lines to be restricted.

6.7 Joint Occupancy

The *Network Controller* may authorise a *WoTA* for a portion of *Track* where a *WoTA* is current, provided the *Protection* limits for the worksites will not overlap.

The *Network Controller* may *Issue* the additional *WoTA* only if the *Protection Officers* have consulted and the *Protection Officer* who holds the current *WoTA* agrees and confirms with the *Network Controller* that a *WoTA* may be *Issued*.

Where one worksite has associated rail traffic only one other *WoTA* is permitted.

7. Rail Traffic

Only *Rail Traffic* associated with the *WoTA* may enter the limits of the *WoTA* unless the *WoTA* has been *Fulfilled* or where manually issued, suspended in accordance with section 9 of this rule.

Other *Rail Traffic* may cross the *WoTA* to enter or exit a *Running Line*, *Siding* or *At Grade Rail Crossing*, but only with the *Protection Officer's* agreement.

Before entering the *WoTA*, *Rail Traffic Crews* must verify with the *Protection Officer* that the *WoTA* is *In-Effect*.

7.1 Rail Traffic Entering or Travelling Within the WoTA Limits

The *Protection Officer* requiring the *Associated Rail Traffic* must manage that *Rail Traffic* movement within the *WoTA*, and where there is an adjoining *WoTA* through the *WoTA*. The *Protection Officer* or a *Delegated Protection Officer* must act as the *Pilot*.

Where another *WoTA* is permitted under *Joint Occupancy* the *Pilot* must, before entry to the affected section and before *Rail Traffic* exits a worksite:

- confirm with the *POs* of all the *WoTAs* that the *Rail Traffic* can proceed;
- the *Location of Worksite Protection*; and
- that the line is *Fit for Purpose*.

The *Protection Officer* must make sure that *Rail Traffic* associated with the *WoTA* does not exceed the limits of the *WoTA*.

If *Temporary Speed Restriction* signs have not been erected, *Rail Traffic*, entering and *Travelling* within the *WoTA* limits must:

- be *Piloted*; or
- receive written or verbal instructions from the *Protection Officer*.

7.2 Fixed Signals

Fixed Signals within the limits of the *WoTA* must, where possible, be placed to PROCEED for *Rail Traffic* movements.

Where *Fixed Signals* cannot be placed to PROCEED for *Rail Traffic* movement, they must be passed in accordance with Rule 6013 Passing Fixed Signals at Stop.



NOTE: Inside a *WoTA*, the *Protection Officer* must approve all *Rail Traffic* movements passed *Fixed Signals* and would request the *Network Controller* to place *Fixed Signals* at PROCEED, the *Network Controller* can only place *Fixed Signals* at PROCEED on the request of the *Protection Officer*.

7.3 Rail Traffic Departing the WoTA

Rail Traffic may depart the limits of the *WoTA* only on the *Authority* of the *Network Controller*.

8. Communications with Network Control

The *Protection Officer* must be the only point of contact between *Network Control* and work groups for matters of worksite *Protection*.

The *Protection Officer* must tell affected *Network Controllers* about:

- the *Protection* arrangements;
- *Protection* arrangements on *Adjacent* lines; and
- work progress at agreed times.

The *Protection Officer* must, if necessary, seek an extension of time.

When the agreed time limit has been exceeded by 15 minutes and the *Protection Officer* has not requested an extension of time, the *Network Controller* must act in accordance with Rule 4017 Overdue Occupancies.

9. Suspending a manually issued WoTA for the movement of non-associated Rail Traffic

A *WoTA* is suspended when the *Protection Officer* tells the *Network Controller* that:

- work sites are clear of workers, tools and equipment, including any *Associated Rail Traffic*;
- *In-Field Protection* has been removed;
- the portion of *Track* included in the *WoTA* has been confirmed as fit for the *Rail Traffic* passage; and
- *Blocking Facilities* can be removed.

The *Protection Officer* must tell the *Network Controller* and the *Rail Traffic Crew* about operating restrictions that have been placed or removed in accordance with section 11 of this rule.

10. Reinstating a manually issued WoTA

The *WoTA* can be reinstated after the rear of the *Rail Traffic* has cleared the *Section* or the worksite and the *Rail Traffic* is not returning.

The *Protection Officer* must:

- confirm with the *Network Controller* the *WoTA* number;
- ask the *Network Controller* to re-instate the *WoTA* and apply new *Blocking Facilities*; and
- ensure all *Protection* has been replaced before allowing workers to re-enter the *Danger Zone*.

11. Fulfilling the WoTA

Before *Fulfilling* the *Authority* the *Protection Officer* must make sure that:

- *Associated Rail Traffic* and all equipment has *Cleared* the *Track*;
- all work groups have *Cleared* the worksites;
- *In-Field Protection* has been removed;
- if necessary, signals have been restored to normal use; and
- the portion of *Track* included in the *Authority* is *Certified* as available for use.

The *Protection Officer* and the *Network Controller* must *Fulfil* the *Authority*.

Where the *WoTA* is manually issued, the *Network Controller* must confirm with the *Protection Officer* that *Blocking Facilities* can be removed.

The *Protection Officer* must tell the *Network Controller* about operating restrictions that have been placed or removed.

12. Keeping Records

Network Controllers and the *Protection Officer* must keep *Permanent Records* about the details, including *Protection* arrangements and changes to the worksite *Protection* arrangements.

13. References

1004 Track Access Accreditation

4017 Overdue Occupancies

6003 Blocking Facilities

6005 Fixed Signals

6013 Passing Fixed Signals at Stop

9000 Clipping and Securing Points

9004 Using Railway Track Signals

9010 Protecting Work from Rail Traffic on Adjacent Lines

14. Effective Date

3 February 2020

Network Safeworking Rules and Procedures

Lookout Working

Rule Number: 3013

Arc Infrastructure maintains the master for this document and publishes the current version on the Arc Infrastructure website. All changes and updates to the Network Safeworking Rules and Procedures are authorised by the Arc Infrastructure Rule Book Committee. This document is uncontrolled when printed.

Document History

Version	Effective Date	Pages updated	Reasons for change
2.0	03 02 2020	All	Major Review

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1. Purpose

The object of this rule is to detail how *Lookout Working* is to be used to give warning of approaching *Rail Traffic* to workers in or near the *Danger Zone*.

2. General

If the *WoTA* method is practical, this is the preferred method and must be applied.

The *Network Controller* must be advised when *Lookout Working* is being used on *Track* under their control.

Lookout Officers are the only safety measure used in this method for work in the *Danger Zone*.

The *Lookout Working* method must not be used for moving worksites, work that breaks the *Track* or alters *Track* geometry.

Work in the *Danger Zone* using the *Lookout Working* method must be done in daylight hours only, where visibility allows.

The *Protection Officer* applying this rule must have a *Protection Officer (PO) Competency* in accordance with Rule 1004 Track Access Accreditation.



WARNING: Information on the running of Rail Traffic is a planning tool only and workers should expect Rail Traffic to approach from any direction at any time.

The *Protection Officer* must also obtain information concerning *Rail Traffic* movements for the work *Location*, from the *Network Controller*.

Lookout Working may be used, during daylight hours, for:

- work requiring the use of *Light Tools or Devices* which can be easily and immediately removed from the *Track* by **one worker** without mechanical assistance;
- inspections in the *Danger Zone*; or
- work conducted in the *Rail Corridor*, but outside of the *Danger Zone*, that may intrude into the *Danger Zone*.



NOTE: A Lookout Officer provided for work outside the Danger Zone that may intrude into the Danger Zone is in place to warn workers before they intrude into the Danger Zone even if there is not Rail Traffic approaching.

2.1 Tools

Workers using the *Lookout Working* method must ensure any *Light Tools or Devices* used do not interfere with the ability of the worker to respond to a *Lookout Officer's* warning.

3. Authorisation

Before authorising *Lookout Working*, the *Network Controller* must make sure that:

- another *Work on Track* method is not in use at that *Location*; and
- the *Protection Officer* knows about any existing *Obstructions*.

The *Protection Officer* must advise the *Network Controller* of their name, *Track Access Permit* number and contact details.

The *Protection Officer* must confirm with the *Network Controller* the:

- name, *Track Access Permit* number and contact details of the *Protection Officer*;
- type of work;
- intended start and finish times; and
- *Location*, using two or more of the following identifiers:
 - a kilometre sign and *Section*;
 - *Station* name;
 - a *Points* number;
 - a signal number;
 - an observance of *Points* or signal *Aspect* change;
 - permanent structures, such as a bridge, roadway or overpass used only in conjunction with one of the above identifiers; or
 - another identifier.

Where an existing *Track Occupancy* is in place, the *Network Controller* may advise that *Lookout Working* is permitted only if the *Protection Officers* have consulted and agree that *Lookout Working* can be done within the existing *Authority*.



NOTE: If the existing *Track Occupancy* is a *Local Possession Authority (LPA)* the *Possession Protection Officer* must approve the work.

4. Protection Officer

There must be a *Protection Officer* present at the worksite for the period of the work.

A *Protection Officer* must:

- complete a worksite *Protection* plan and conduct a pre-work *Safety Assessment*;
- make sure that work in the *Danger Zone* does not begin before the required safety measures are in place;
- be responsible for the *Protection* of workers from *Rail Traffic*;
- tell workers about the *Locations of Safe Places*;
- determine the number of *Lookout Officers* needed to *Protect* the work;
- make sure *Lookout Officers* do not perform their function continuously at the same *Location* for more than 60 minutes;
- rotate the *Lookout Officers*, and provide a break from *Lookout* duties equivalent to the period the *Lookout* duty was last performed, before resuming as a *Lookout Officer*; and
- ensure that *Lookout Officers* do not perform *Lookout Officer* duties for more than 4 hours combined in a 24-hour period.



NOTE: A *Protection Officer* must be satisfied that other work will not interfere with *Protection* duties.

5. Protection



WARNING: Work must not start in the *Danger Zone* until the required safety measures are in place.

When *Lookout Working* is permitted, the *Protection Officer* must put the required safety measures in place and commence work.

5.1 Safe Places

An easily-reached *Safe Place* must be available if the *Lookout Working* method is used.

Workers must immediately be able to remove themselves, tools and materials to a *Safe Place* when told to do so by a *Lookout Officer*.

5.2 Noisy Machinery



WARNING: A *Protection Officer* must take into account the extra time for the minimum *Sighting Distance* required when providing touch warnings.

Where the work involves noisy equipment and the workers are wearing hearing protection, the *Protection Officer* must ensure other workers are positioned to provide a physical warning, by touch, to those workers.



NOTE: The worker providing touch warning must do no work other than providing warning.

The *Lookout Officer* must be visible to workers at all times.

5.3 Placing Lookout Officers

The *Protection Officer* must make sure:

- that the *Locations* of *Lookout Officers* and the visibility conditions give *Lookout Officers* enough *Sighting Distance* of approaching *Rail Traffic*;
- that *Lookout Officers* have *Effective Communication* with workers and an *Audible Warning Device*;
- that the *Lookout Officer* has a backup *Audible Warning Device*; and
- that when *Rail Traffic* approaches, *Lookout Officers* can warn workers in time to allow them to:
 - react to the warning of the approach of *Rail Traffic*; and
 - move themselves and their equipment to a *Safe Place* before the *Rail Traffic* arrives.

Only one *Lookout Officer* in each direction is permitted, distant *Lookout Officers* are not permitted.

Where the *Protection Officer* determines that it is safe to use a single *Lookout Officer* to provide warning for both directions the minimum reaction time must be increased from 5 seconds to 15 seconds when calculating the *Sighting Distance*.

5.4 Lookout Officers



WARNING: Lookout Officers must not use radios or telephones to warn workers.

Lookout Officers must be alert for Rail Traffic which is unexpected or comes from the Wrong Running-Direction.

Lookout Officers must wear a high visibility Yellow vest to ensure they are readily identifiable.

Lookout Officers must:

- agree with the *Protection Officer* about how workers will be warned about the approach of *Rail Traffic*;
- stand or walk in a *Safe Place* where they can see approaching *Rail Traffic*;
- keep a continuous watch for the approach of *Rail Traffic* from any direction;
- remain within sight and hearing or in physical touch of the workers. If the *Lookout Officer* cannot do this safely, they must tell the *Protection Officer*;
- tell the *Protection Officer* if the *Lookout Officer* needs to move from the designated position and only move if all workers and their equipment are in a *Safe Place* or a new *Lookout Officer* is in position; and
- tell the *Protection Officer* if conditions, such as visibility, change.

If visibility conditions deteriorate to where the *Lookout Officer* can no longer maintain *Sighting Distance*, the *Lookout Officer* must warn the workers to get them clear of the *Danger Zone* and then tell the *Protection Officer* of the changed conditions.



WARNING: Lookout Officers must do no work other than look for and give warning to workers about the approach of Rail Traffic.

Lookout Officers must not:

- manage the passage of *Rail Traffic*, or
- do any other work.

5.5 Giving Warning

When *Rail Traffic* approaches the worksite the *Lookout Officer* must immediately warn the workers.



NOTE: Warning must be given as soon as *Rail Traffic* is seen to be approaching even if the *Rail Traffic* has not reached the minimum *Sighting Distance*.

The workers must:

- acknowledge the *Lookout Officer's* warning by raising an arm above their head;
- remove their tools, equipment and materials from the *Track*; and
- move to a position of safety.

Only if all workers and their equipment are in a *Safe Place* can the *Lookout Officer* face the approaching *Rail Traffic* and give an ALL CLEAR *Handsignal*, in accordance with Rule 2003 Handsignals and Verbal Commands, to the *Rail Traffic Crew*.

The *Lookout Officer* must maintain the ALL CLEAR *Handsignal* until the *Rail Traffic Crew* acknowledges the *Handsignal*.

The *Lookout Officer* must make sure that the line is *Clear* before allowing work to resume.

5.6 Adjacent Line

If the *Safety Assessment* indicates that workers need to be protected from *Rail Traffic* on *Adjacent* lines, the *Protection Officer* must arrange for *Adjacent* lines to be *Protected* in accordance with Procedure 9010 Protecting Work from Rail Traffic on Adjacent Lines.

The *Protection Officer* may arrange for the speed of *Rail Traffic* on *Adjacent* lines to be restricted.

6. Calculating the Minimum Warning Time



WARNING: If the calculated minimum warning times cannot be met or there is any doubt that sufficient *Sighting Distance* is available, then another *Protection* method must be used.



WARNING: When using a single *Lookout Officer* to provide warning for both directions, a minimum of 15 seconds is used for the reaction time.

The minimum warning time required shall be calculated as follows:

- reaction time (minimum 5 seconds);
- time required to move the workers, tools, equipment and materials *Clear* of the *Track* (determined in the test conducted by the *Protection Officer*); plus
- being in a position of safety for a minimum of 10 seconds before *Rail Traffic* arrives.

6.1 Example of How Warning Time is Calculated

Figure 3013-1 Calculation Table (example)

Reaction time	5 Seconds
Time required to move the workers, tools, equipment and materials clear of the track	20 Seconds
Minimum time to be in a position of safety before rail traffic arrives	10 Seconds
Minimum warning time required	Total 35 Seconds

The minimum *Sighting Distance* needed to see an approaching movement, so that sufficient warning can be given, is dependent on the minimum warning time required and the maximum *Track* speed, determined from Figure 3013-2 in section 6.2 and as demonstrated in the following example:

Example: The minimum warning time required in this example is 35 seconds and the maximum *Track* speed in the area is 120 km/h; therefore the required minimum *Sighting Distance* of approaching *Rail Traffic* from the table in Figure 3013-2 is 1170 metres. The *Lookout Officer* must be positioned to be able to see the approaching *Rail Traffic* at least 1170 metres in order to give the minimum warning time required.

The *Protection Officer* must:

- know the maximum speed for *Rail Traffic* on the portion of line that the work is to take place; and
- conduct a test to determine how long it will take for the workers to remove their equipment and move to the *Safe Place*.

6.2 Minimum Sighting Distance

Figure 3013-2 Sighting Distance table.

Maximum Track Speed	Minimum Warning Time					
	20 sec	25 sec	30 sec	35 sec	40 sec	45 sec
160km/h	890m	1115m	1335m	1560m	1780m	2000m
150km/h	835m	1045m	1250m	1460m	1665m	1875m
140km/h	780m	975m	1170m	1365m	1560m	1750m
130km/h	725m	905m	1085m	1265m	1445m	1625m
120km/h	670m	835m	1000m	1170m	1335m	1500m
110km/h	615m	765m	920m	1070m	1225m	1375m
100km/h	560m	695m	835m	975m	1115m	1250m
90km/h	500m	625m	750m	875m	1000m	1125m
80km/h	445m	560m	670m	780m	890m	1000m
70km/h	390m	490m	585m	680m	780m	875m
60km/h	335m	420m	500m	585m	670m	750m
50km/h	280m	350m	420m	490m	555m	625m
40km/h	225m	280m	335m	390m	445m	500m
30km/h	170m	210m	250m	295m	335m	375m
25km/h	140m	175m	210m	245m	280m	315m
20km/h	115m	140m	170m	195m	225m	250m
15km/h	85m	105m	125m	150m	170m	190m



NOTE: Distances in Figure 3013-2 have been rounded up to the nearest 5m.

7. Communications with Network Control

The *Protection Officer* must be the only point of contact between the *Network Controller* and the work group for matters of worksite *Protection*.

The *Protection Officer* must, if necessary, seek an extension of time.

When the agreed time limit has been exceeded by 15 minutes and the *Protection Officer* has not requested an extension of time the *Network Controller* must act in accordance with Rule 4017 Overdue Occupancies.

7.1 Change of Protection Officer

An outgoing *Protection Officer* must tell an incoming *Protection Officer* about the worksite *Protection* arrangements.

The incoming *Protection Officer* must:

- tell affected *Network Controllers* about the changed contact arrangements; and
- make a *Permanent Record* of the handover of *Lookout Working*.

8. Ending Lookout Working

The *Protection Officer* must make sure, and tell the *Network Controller* that:

- all workers, tools, equipment and materials are *Clear* of the worksite; and
- *Lookout Working* has ended.

9. Keeping Records

The *Network Controller* and the *Protection Officer* must keep *Permanent Records* about the details and changes to the worksite *Protection* arrangements.

10. References

1004 Track Access Accreditation

2003 Handsignals and Verbal Commands

4017 Overdue Occupancies

9010 Protecting Work from Rail Traffic on Adjacent Lines

11. Effective Date

3 February 2020

Network Safeworking Rules and Procedures

Infrastructure Booking Advice

Rule Number: 3015

Arc Infrastructure maintains the master for this document and publishes the current version on the Arc Infrastructure website. All changes and updates to the Network Safeworking Rules and Procedures are authorised by the Arc Infrastructure Rule Book Committee. This document is uncontrolled when printed.

Document History

Version	Effective Date	Pages updated	Reasons for change
2.0	03 02 2020	All	Major Review

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1. Purpose

This rule describes the protocols for recording and notifying of approved changes to the *Network* regarding *Infrastructure* when it has been booked out of or back into use and when new *Infrastructure* is *Commissioned*.

2. General

The *Infrastructure* Booking Advice (IBA) form is used to notify of the temporary or permanent installation or removal of *Infrastructure*.

3. Advertising Infrastructure Work

Infrastructure Representatives must make sure that work on *Infrastructure* that affects the configuration of the *Network* is documented and *Advertised*.

New *Infrastructure* must be *Advertised* before it is *Certified* and *Commissioned*.

4. Compiling Infrastructure Booking Advice Form

The *Infrastructure* Representative must use an IBA form to detail work that requires *Infrastructure* equipment to be:

- temporarily booked out of use;
- permanently removed;
- booked back into use; or
- newly *Commissioned*.

Infrastructure Representatives must compile the IBA form before equipment is removed or *Commissioned*.

The *Infrastructure* Representatives must:

- send a copy of the IBA form to the appropriate *Network Controller*, or
- jointly fill out the IBA form with the *Network Controller*.

The *Infrastructure* Representative must give a copy of the IBA form for:

- work associated with a *Local Possession Authority (LPA)*, to the *Possession Protection Officer*, or
- work associated with a *Work on Track Authority (WoTA)* to the *Protection Officer*.

The *Network Controller* and the *Infrastructure* Representatives must keep completed IBA forms.

5. Securing Infrastructure

Infrastructure that is not yet *Commissioned*, or has been decommissioned but not yet removed, must be *Secured* against *Unauthorised* use.

6. Certifying Infrastructure

Infrastructure that has been installed or removed must be *Certified* in an IBA form:

- filled out by the relevant *Infrastructure Representatives*; and
- acknowledged by the *Network Controller*.

7. Booking Infrastructure Back into Use

If *Infrastructure* has been *Certified* as working correctly, the relevant *Section* of the IBA form must be signed.

The *Infrastructure Representative* must endorse the copy of the IBA form held by the *Possession Protection Officer* or the *Protection Officer*.

If parts of the *Infrastructure* remain un-certifiable at the end of work, they must be booked out of use again using a new IBA form.

The new IBA form must:

- be compiled before the original advice is signed; and
- include a reference to the IBA form it replaces.

The completed IBA form must include a reference to the new IBA form for those parts of the *Infrastructure* that were not *Certified*.

8. Using Uncommissioned Infrastructure

Infrastructure that is not yet *Commissioned* (uncommissioned) may be given limited *Certification* for specific purposes including *Rail Traffic* movements.

Before uncommissioned *Infrastructure* is used:

- an *Infrastructure Representative* must certify that it is fit for the specific purpose; and
- it must be *Advertised*.

Uncommissioned *Infrastructure* must be:

- unsecured before use; and
- *Secured* after use.

9. References

Nil

10. Effective Date

3 February 2020

Network Safeworking Rules and Procedures

Track Vehicles

Rule Number: 3019

Arc Infrastructure maintains the master for this document and publishes the current version on the Arc Infrastructure website. All changes and updates to the Network Safeworking Rules and Procedures are authorised by the Arc Infrastructure Rule Book Committee. This document is uncontrolled when printed.

Document History

Version	Effective Date	Pages updated	Reasons for change
2.0	03 02 2020	All	Major Review

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1. Purpose

The function of this rule is to outline the protocols for managing the safety of *Track Vehicles* when *Travelling* and carrying out work in the *Network*.

2. General

Track Vehicles include:

- Road Rail Vehicles, including *Track* inspection vehicles; and
- *Track* maintenance machines.

Prior notice must be given when *Track* maintenance machines are to run or work on a *Running Line*.

The *Competent Worker* operating a *Track Vehicle* in accordance with this rule must have a minimum of *Track Vehicle Operator (TVO) Competency* in accordance with Rule [1004 Track Access Accreditation](#).

Where the *Competent Worker* is not an accredited *Protection Officer Track Vehicles (POTV)* the vehicle must be accompanied by a suitably accredited *POTV*.

Competent Workers in charge of *Track Vehicles* must act in accordance with Rule [2027 Responsibilities of Rail Traffic Crews](#).

Track Vehicle Whistles must be used in accordance with Rule [4007 Rail Traffic Whistles](#).

3. Track Vehicle Approval

Track Vehicle types must be approved as *Fit for Purpose* by the *Infrastructure Delegate*.



WARNING: If a *Track Vehicle* that does not reliably operate *Track-Circuits* is to Travel over *Points* that automatically return to a normal setting, and the *Points* are in a position where they can automatically return to normal, the *Points* must be Secured for the passage of the *Track Vehicle*.

The *Infrastructure Delegate* will provide a list of *Track Vehicles* that reliably operate the *Track Circuit* and *Level Crossing Protection*.

If compatible *Track Vehicles* are fitted with approved coupling devices, they must be coupled together during *Travel*.

4. Preparing Track Vehicles for Travel

The *Track Vehicle Operator* must make sure that the vehicle is fitted with working:

- communications systems;
- brakes;
- *Headlights*;
- *Tail Lights*, or an approved *End-of-Train Marker* on the rear of the last vehicle; and
- *Hazard Lights*, or flashing warning lights.

The *Track Vehicle Operator* must make sure that the vigilance control device is working.

The *Competent Workers* in charge of *Track Vehicles* must make sure the vehicle carries:

- at least 36 *RTS*; and
- Safeworking forms as necessary.



NOTE: Track Vehicles that are on and off tracked within a worksite are not required to carry *RTS* or Safeworking forms.

5. Occupying a Running Line

Track Vehicles may occupy a *Running Line* only with the *Authority* of the:

- *Network Controller* responsible for the *Location*;
- *Possession Protection Officer* in charge of a *Local Possession Authority (LPA)*; or
- *Protection Officer* in charge of a *Work on Track Authority (WoTA)*.

Where a *Track Vehicle* is to enter or *Travel* in *Dual Gauge Track* areas, the *Competent Worker* in charge of the *Track Vehicle* must confirm with the *Network Controller* the gauge of the *Track Vehicle*.

The *Network Controller* must advise the *Competent Worker* when *Blocking Facilities* have been applied. *Blocking Facilities* must be applied and removed in accordance with Rule 6003 Blocking Facilities.

Track Vehicles must enter or be placed on *Running Lines* only:

- within *Station Limits*;
- within *Intermediate Sidings*;
- within the limits of an *Occupancy Authority*;
- at approved on and off-*Track Locations*, where the approach of *Rail Traffic* can be managed by *Controlled Absolute Signals*; or
- within a *Train Order Section* where there is no approaching *Rail Traffic*.

The *Location* where the *Track Vehicle* is to enter or be placed on the *Running Line* must be verified using two or more of the following:

- a kilometre sign and *Section*;
- a *Points* number;
- a signal number;
- observance of *Points* or signal *Aspect* change; or
- another identifier.

Before *Travel* begins and throughout the journey, the *Competent Worker* in charge of a movement must make sure that there is *Effective Communication* between all *Track Vehicles* involved and the *Network Controller*.

6. Track Vehicle Travel

Track Vehicles singly, coupled, or in *Convoy* must be worked under Absolute Block System conditions, in accordance with Rule 1002 Network Safeworking Principles.

Track Vehicles must travel on a *Movement Authority* issued by the *Network Controller*.

The *Network Controller* must tell affected *Network Controllers* of the *Track Vehicle Travel*.

Travelling Track Vehicles must have a *Competent Worker* in charge of the movement in the lead vehicle.

Before authorising a *Movement Authority*, the *Network Controller* must make sure that:

- there is no conflicting movement;
- the *Competent Worker* knows about existing *Obstructions*; and
- the *Competent Worker* understands and agrees to the limits of the *Movement Authority*.

In double line areas *Track Vehicles* must *Travel* on the correct *Running Line*.

Fixed Signals must only be passed at STOP in accordance with Rule 6013 Passing Fixed Signals at Stop.

Where the *Competent Worker* in charge of the *Track Vehicle* is unfamiliar with the *Route*, a *Competent Worker* who is familiar with the *Route* must accompany the *Track Vehicle* in accordance with Procedure 9006 Piloting Rail Traffic.

The *Network Controller* must be told about:

- the number and types of *Track Vehicles* in a movement; and
- the identification numbers and order of all vehicles in the *Convoy*.

As necessary during *Travel*, the *Competent Worker* in charge of the movement must:

- obey instructions from the *Network Controller*;
- report to the *Network Controller* entry and clearance of *Sections* as they occur;
- tell other *Track Vehicle Operators* in the *Convoy* about conditions relating to the movement;
- tell the *Network Controller* when the *Limits of Authority* have been *Cleared* by the rearmost vehicle;
- make sure that *Points* are set correctly and *Secured* for the movement;
- be alert for workers in the *Rail Corridor*; and
- as *Associated Rail Traffic*, get the *Protection Officer's Authority* before entering a *Work on Track Authority Location* or traversing a worksite within a *Work on Track Authority*; or

- as *Associated Rail Traffic*, get the *Possession Protection Officer's Authority* before entering a *Local Possession Authority (LPA) Location* or traversing a worksite within a *Local Possession Authority (LPA)*.

6.1 Authority for Track Vehicles to Travel

Track Vehicles must be *Authorised to Travel* on a *Movement Authority (MA)* created in the *Network Control System* and issued by the *Network Controller* responsible for that portion of line.

Road Rail Vehicles (RRV) are permitted on-track within the *Section* once opposing *Rail Traffic* has passed the *RRV Location* provided:

- the *RRV* is to *Travel* in the opposite direction, from the passing *Rail Traffic*;
- the opposing *Rail Traffic* has been correctly identified (service number/loco number); and
- the opposing *Rail Traffic* has been observed and confirmed *Complete* past the *RRV Location*.

6.1.1 Obtaining a manual Movement Authority (MA)

The *Competent Worker* in charge of a *Track Vehicle* must obtain a manual MA from the *Network Controller* responsible for the area over which the vehicle is to *Travel*.

Before *Authorising* the manual MA, the *Network Controller* must make sure that:

- within the *Train Order Territory*, no *Authority* has been issued for an opposing *Rail Traffic* movement;
- any *Rail Traffic* holding a *Uni-Directional Authority* has cleared the starting point of the proposed *Track Vehicle* movement and will not be returning;
- the *Competent Worker* knows about existing *Obstructions*; and
- the *Competent Worker* understands and agrees to the limits of the MA.

The *Network Controller* and the *Competent Worker* in charge of a *Track Vehicle* must confirm and record on the MA:

- the proposed MA limits;
- a unique identifying number;
- the gauge of the *Track Vehicle*;
- that *Blocking Facilities* have been applied, in accordance with Rule 6003 Blocking Facilities, to prevent entry of *Rail Traffic* into the portion of *Track* occupied by the *Track Vehicle*; and
- that the *Secure Blocking Code* provided on the form is recorded in the *Network Control System*.
 - The *Network Controller* must ensure this *Secure Blocking Code* is not recorded anywhere except in the *Network Control System* as required:

- the name of the *Competent Worker* in charge of a *Track Vehicle* and contact details;
- the *Issuing Control* desk;
- the time of *Issue*; and
- the date of *Issue*.

Before moving into the *Section*, the *Competent Worker* must:

- confirm *Blocking Facilities* have been applied by repeating back to the *Network Controller* the details of the *Blocking*;
- record the *Blocking* on the *Movement Authority*;
- ensure that all *Points* are correctly set; and
- obtain the *Network Controller's* verbal *Authority* to proceed.

6.2 Road Rail Vehicle Stopping for Work

The *Protection* provided by the *Movement Authority* permits work that:

- does not require tools; or
- uses *Light Tools or Devices* which can be easily and immediately removed from the *Track* by **one worker** without mechanical assistance.

The work must not break the *Track* or alter *Track* geometry or structure.

If the *Road Rail Vehicle* is required to stop for work and there are *Adjacent* lines and the work may encroach into the *Danger Zone* of the *Adjacent* line, then the *Competent Worker* must act in accordance with Procedure 9010 Protecting Work from Rail Traffic on Adjacent Lines.

6.3 Track Vehicle setting back

6.3.1 Road Rail Vehicle setting back

If a *Road Rail Vehicle* is required to *Set Back*, the *Competent Worker* in charge must:

- ensure it is safe to *Set Back*;
- *Travel at Restricted Speed*; and
- not exceed the limits of the MA.

6.3.2 Track Machines setting back

Track Machines must not *Set Back* without the *Authority* of the *Network Controller* in accordance with Rule 4015 Setting Back or Propelling on Running Lines, section 5.

6.3.3 Fulfilling a Movement Authority (MA)

The MA must be *Fulfilled* by the *Competent Worker* when the *Road Rail Vehicle* has:

- arrived at the end of the MA; or
- has been removed from and is *Clear* of the *Running Line*.

The *Network Controller* and the *Competent Worker* must endorse their copy of the MA as *Fulfilled*.

7. Travelling in Convoy

No more than three *Track Vehicles* are permitted to *Travel* in *Convoy*.

The *Competent Worker* in charge must ensure that *Track Vehicle Operators*:

- maintain a minimum distance of 200 metres and a maximum distance of 400 metres between *Track Vehicles*; and
- comply with the instructions for closing up.

The *Convoy* must close up:

- if the leading vehicle stops;
- before entering a *Section*; and
- before *Travelling* over an *Active Control Level Crossing*.

Operators of *Track Vehicles* in *Convoy* must maintain *Effective Communication*.

If communication is lost, *Track Vehicle Operators* must *Travel* at *Restricted Speed*.

7.1 Competent Worker in the Leading Track Vehicle

The *Competent Worker* in the leading *Track Vehicle* must warn the following *Track Vehicle Operators* if the lead *Track Vehicle*:

- slows down or stops;
- approaches an *Active Control Level Crossing*; or
- approaches the *Protection* limits of a worksite.

7.2 Track Vehicle Operators

Track Vehicle Operators must adjust the speed of *Track Vehicles* according to messages received from the *Competent Worker* or other *Track Vehicle* Operators within the *Convoy*.

Tell other *Track Vehicle* Operators in the *Convoy*:

- when pre planned, easily identified *Locations* or reference *Points* during the journey have been reached; and
- if there is a need to slow down or stop the *Track Vehicle*.

If the *Track Vehicle* Operator is not sure of the whereabouts of the *Track Vehicle* ahead when the last reported *Location* is reached, the *Track Vehicle* Operator must *Travel* at *Restricted Speed*.

If the *Track Vehicle* Operator needs to stop the vehicle, immediately after the vehicle has stopped, the *Track Vehicle* Operator must warn following *Track Vehicle* Operators using one or more of the following:

- sending two-way radio messages;
- flashing the *Track Vehicle*'s lights;
- sounding the *Track Vehicle*'s *Whistle* repeatedly; or
- giving a STOP *Handsignal* at a *Safe Braking Distance* behind the *Track Vehicle*.

The *Track Vehicle* Operator must continue to give the warning until acknowledged by the following *Track Vehicle* Operator.

8. Travelling Over Level Crossings

8.1 When approaching an Active Control Level Crossing

If *Track Vehicles* cannot reliably operate the *Track Circuit* and *Level Crossing Protection* as approved by Manager Engineering and shown on the *Track Vehicles Certificate of Compliance*, the *Track Vehicle Operators* must stop short of the *Level Crossing*.

Before travelling over an *Active Control Level Crossing* with a vehicle that cannot reliably operate the *Track Circuit* and *Level Crossing Protection*, the *Track Vehicle Operator* must make sure that:

- the *Level Crossing* is clear of all road and pedestrian traffic; and
- if possible, manually operate the *Active Controlled Level Crossing Protection*.

If it is not possible to operate the manual switch (or one is not provided), wait for all road and pedestrian traffic to stop and the *Level Crossing* is clear, then proceed over *the Level Crossing* at *Restricted Speed*.

If *Track Vehicles* can reliably operate the *Track Circuit* and *Level Crossing Protection* as approved by Manager Engineering and shown on the *Track Vehicles Certificate of Compliance*, the *Track Vehicle Operator* must ensure:

- it is safe to proceed, and the *Level Crossing* is clear, or
- all road and pedestrian traffic has stopped before proceeding over the *Level Crossing*.

8.2 When approaching a passive Level Crossing

The *Track Vehicle Operator* must ensure:

- it is safe to proceed, and the *Level Crossing* is clear, or
- all road and pedestrian traffic has stopped before proceeding over the *Level Crossing*.

9. Disabled Track Vehicles

Where a *Track Vehicle* becomes *Disabled* or causes an *Obstruction* for any reason, it must be *Protected* in accordance with Rule 4001 Protecting Disabled Rail Traffic.

A *Track Vehicle's* *Movement Authority* must be *Cancelled* and a *Work on Track Authority (WoTA)* must be applied to *Protect* the *Disabled Track Vehicle*.

The *Disabled Track Vehicle* will be recovered as arranged by the approved *Arc Infrastructure Representative*.

10. Overdue Track Vehicle

If a *Track Vehicle* movement is overdue the *Competent Worker* and the *Network Controller* must act in accordance with Rule 4017 Overdue Occupancies.

11. Travelling Through WoTA or LPA Limits

Only *Track Vehicles* associated with the *WoTA* or *LPA* are permitted to enter the limits of the *Authority*.

Track Vehicles entering or *Travelling* within the limits of the *Work on Track Authority* or *Local Possession Authority* must:

- be *Piloted*; or
- receive written or verbal instructions from the *Possession Protection Officer* or *Protection Officer*.

Track Vehicles must only depart from the limits of the *Work on Track Authority* or *Local Possession Authority* with the *Network Controller's Authority*.

12. Track Vehicle Speed Limits



WARNING: *Track Vehicle Operators* must *Travel* at speeds that are safe for the prevailing conditions.

A *Track Vehicle's* speed must not exceed:

- the speed specified for the *Track Vehicle*; or
- if it is lower than the speed specified for the *Track Vehicle*, the authorised *Track Speed*.

Track Vehicles other than *Road Rail Vehicle's* must not exceed 20 km/h over a *Level Crossing*.

12.1 Road Rail Vehicles

A *Road Rail Vehicle* must not exceed 10 km/h over *Points*.

13. Headlights

Headlights must be switched on to High Beam during *Travel*.

Headlights must be dimmed during approach to:

- *Rail Traffic*;
- a *Platform*;
- a *Location* where *Shunting* is in progress; and
- a road vehicle on a nearby road.

14. Tail Lights

Track Vehicles must have red *Tail Lights* lit or an approved *End-of-Train Marker* during *Travel*.

15. Hazard Lights

Track Vehicles on a *Running Line* must have approved and operating *Hazard Lights*.

16. Stabling Track Vehicles

Track Vehicles may be *Stabled* on *Running Lines* only with the Approved Operations Delegate.

Track Vehicles Stabled on lines other than *Running Lines* must be:

- *Clear* of *Running Lines*;
- *Secured* against unintended movement; or
- if *Stabled* in a *Siding*, be inside *Derail Devices*.

Track Vehicles must be *Secured* against *Unauthorised* operation and unintended movement at all times.

17. Track Machine Stopping for Work

Track Machines stopping for work must be protected using a *Work on Track Authority* or *Local Possession Authority*.

18. Keeping Records

The *Network Controller* and the *Competent Worker* in charge of *Track Vehicles* must keep a *Permanent Record* of the details of the *Track Vehicle Travel*.

19. References

2027 Responsibilities of Rail Traffic Crew

4001 Protecting Disabled Rail Traffic

4007 Rail Traffic Whistles

4017 Overdue Occupancies

6003 Blocking Facilities

6013 Passing Fixed Signals at Stop

9006 Piloting Rail Traffic

9010 Protecting Work from Rail Traffic on Adjacent Lines

20. Effective Date

3 February 2020

Network Safeworking Rules and Procedures

Temporary Speed Restrictions

Rule Number: 3025

Arc Infrastructure maintains the master for this document and publishes the current version on the Arc Infrastructure website. All changes and updates to the Network Safeworking Rules and Procedures are authorised by the Arc Infrastructure Rule Book Committee. This document is uncontrolled when printed.

Document History

Version	Effective Date	Pages updated	Reasons for change
2.0	03 02 2020	All	Major Review

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1. Purpose

The purpose of this rule is to set out the protocols for applying a *Temporary Speed Restriction (TSR)*. The object of a *TSR* is to reduce the speed of *Rail Traffic* to ensure safe passage over a *Section of Track* when the *Track* is not safe for *Normal Speeds*.

2. General

TSR's are applied by an *Infrastructure Representative*.

A *TSR* overrides any existing higher speed.

A *TSR* may be applied due to:

- *Infrastructure* conditions;
- risks to workers; or
- weather conditions.

2.1 Advice of a TSR

Where possible *Rail Traffic Crews* are advised about a *TSR* by *TSR* signs, and by:

- the *Driver Information System*; or
- the *Issue of a Condition Affecting the Network (CAN)* warning, in accordance with Rule 2009 Reporting and Responding to a Condition Affecting the Network (CAN).

If it is not possible to place *TSR* signs immediately, *Rail Traffic Crews* must be given written or verbal advice of the *TSR*, before they enter the affected portion of *Track*. *TSR* signs must be placed as soon as is practical after the speed restriction is imposed.

Rail Traffic Crews must keep the advice for the duration of the journey.

3. Types of Signs

Temporary Speed Restriction ahead signs:

- indicate that a *Temporary Speed Restriction* is ahead; and
- display the maximum speed permissible for each *Rail Traffic* type over the affected portion of *Track*.

Temporary Speed Restriction start signs indicate:

- to *Rail Traffic Crews*, that they are entering the limits of a *TSR*; and
- the maximum speed permissible for each *Rail Traffic* type over the affected portion of *Track*.

Temporary Speed Restriction end signs indicate to *Rail Traffic Crews* that they are leaving the limits of a *TSR*.

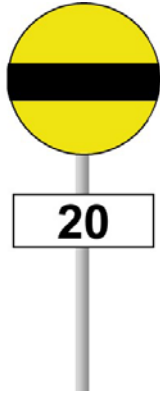


NOTE: In *Bi-Directional* areas where the *TSR* applies in both directions, the back of the *TSR* start sign will indicate to *Rail Traffic Crews* that they are leaving the limits of a *TSR*.

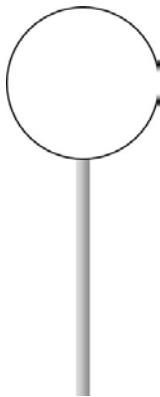
3.1 Temporary Speed Restriction Ahead Sign

Sign	Description	Required Action
	<p><i>Temporary Speed Restriction</i> ahead signs are diamond shaped with a yellow background and a horizontal black stripe.</p> <p>This sign is placed 2500 metres before a <i>Temporary Speed Restriction</i> start sign.</p> <p>Placed below the <i>Temporary Speed Restriction</i> ahead sign is a maximum speed sign displaying the maximum speed permitted for the restricted area.</p>	<p><i>Rail Traffic</i> should proceed, being prepared to <i>Travel</i> at the speed indicated on the maximum speed sign placed below the Speed Restriction ahead sign.</p> <p>Note: If no maximum speed sign is displayed below the <i>Temporary Speed Restriction</i> ahead sign, <i>Rail Traffic Crews</i> must be prepared to reduce speed as detailed in the <i>Drivers Information</i> documentation, or where this is not available, to 15km/h over the <i>TSR</i>.</p>

3.2 Temporary Speed Restriction Start Sign

Sign	Description	Required Action
	<p><i>Temporary Speed Restriction</i> start signs are circular shaped with a yellow background with a horizontal black stripe.</p> <p>This sign is placed 50 metres before the area covered by a <i>Temporary Speed Restriction</i>.</p> <p>Placed below the <i>Temporary Speed Restriction</i> start sign is a maximum speed sign displaying the maximum speed permitted for the restricted area.</p>	<p><i>Rail Traffic</i> must proceed at the speed shown on the maximum speed sign placed below the <i>Temporary Speed Restriction</i> sign.</p> <p>Note: If no maximum speed is displayed below the <i>Temporary Speed Restriction</i> start sign, <i>Rail Traffic Crews</i> must be prepared to reduce speed as detailed in the <i>Drivers Information</i> documentation, or where this is not available, to 15km/h over the <i>TSR</i>.</p>

3.3 Temporary Speed Restriction End Sign

Sign	Description	Required Action
	<p><i>Temporary Speed Restriction</i> end signs are white and circular.</p> <p>This sign is placed 50 metres beyond the <i>Temporary Speed Restriction</i> area.</p> <p>Note: In <i>Bi-Directional</i> areas where the <i>TSR</i> applies in both directions, the back of the <i>TSR</i> start sign will indicate to <i>Rail Traffic Crews</i> that they are leaving the limits of a <i>TSR</i>.</p>	<p><i>Rail Traffic</i> can return to the authorised <i>Track Speed</i>, once the <i>Rail Traffic Consist</i> has passed beyond the <i>Temporary Speed Restriction</i> end sign.</p>

3.4 Placement

TSR signs must be placed:

- wherever possible, to the left of the line to which the *TSR* applies; and
- where they can be clearly seen by *Rail Traffic Crews*.

3.5 Adjoining TSRs

TSR's may *Adjoin* provided the TSR signs can be placed so that there is not two *Temporary Speed Restriction* ahead signs before a *Temporary Speed Restriction* sign.

Where the distance between *TSRs* will not permit the clear separation of signs, the lower speed must apply from the first *TSR* to the end of the lowest *TSR*, where:

- a *Temporary Speed Restriction* end sign must be placed; or
- a *Temporary Speed Restriction* sign placed, displaying a higher maximum speed sign.

Where a higher speed *TSR* applies at the end of a lower *TSR* then a *Temporary Speed Restriction* ahead sign is not required and a *Temporary Speed Restriction* sign with the higher maximum speed sign must be placed at the start of that *TSR*.

4. General Arrangement of TSR Signs

Figure 3025-1 General arrangement of TSR signs for single *Bi-Directional Track*.

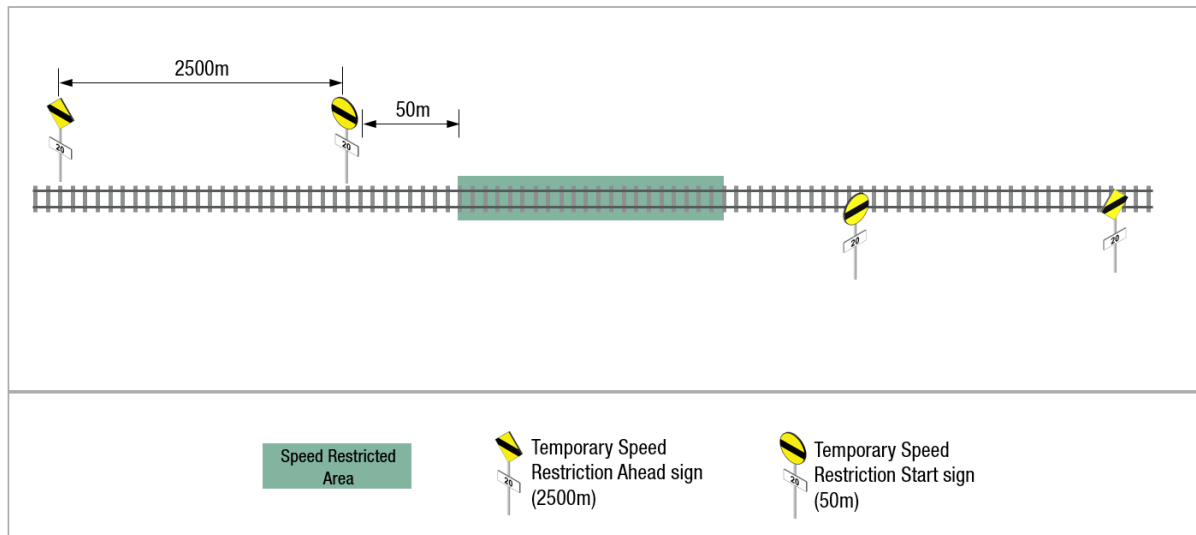


Figure 3025-2 General arrangements of TSR signs on double *Uni-Directional Track*.

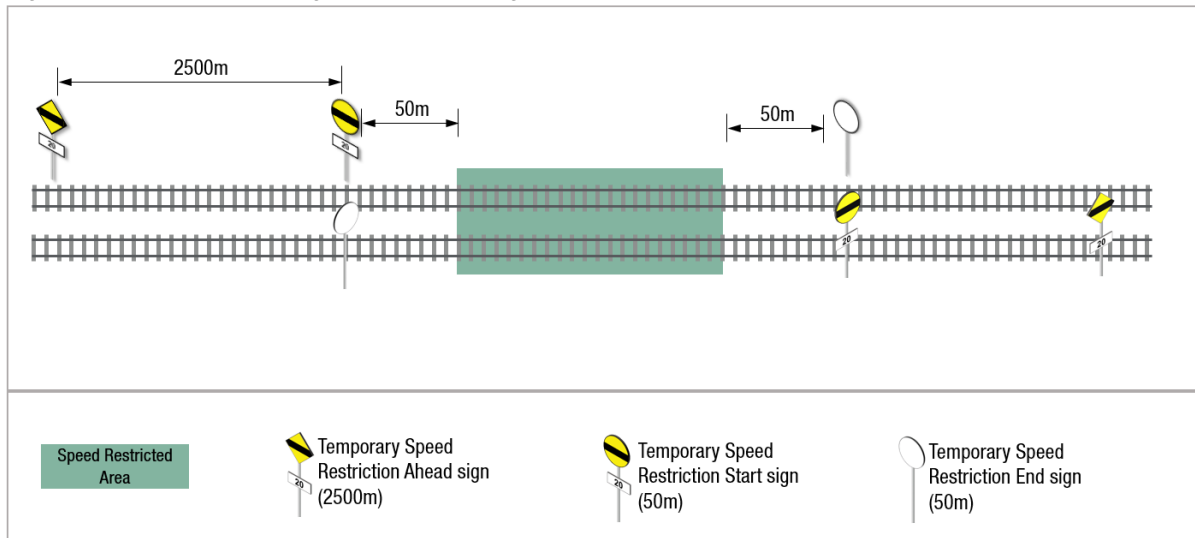
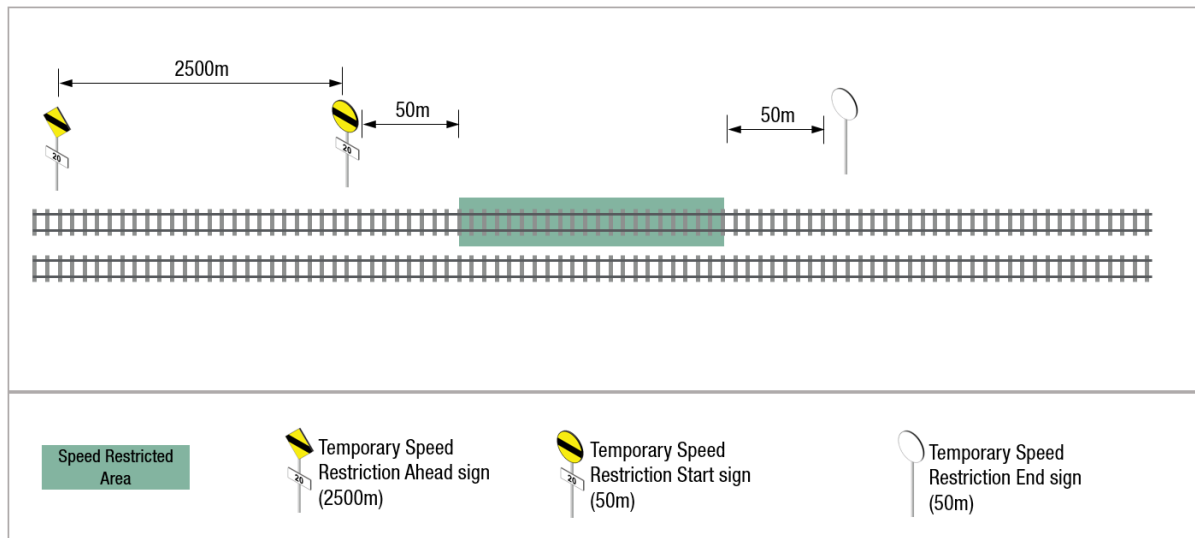


Figure 3025-3 General arrangements of TSR signs on double *Uni-Directional Track* where only one line is affected.

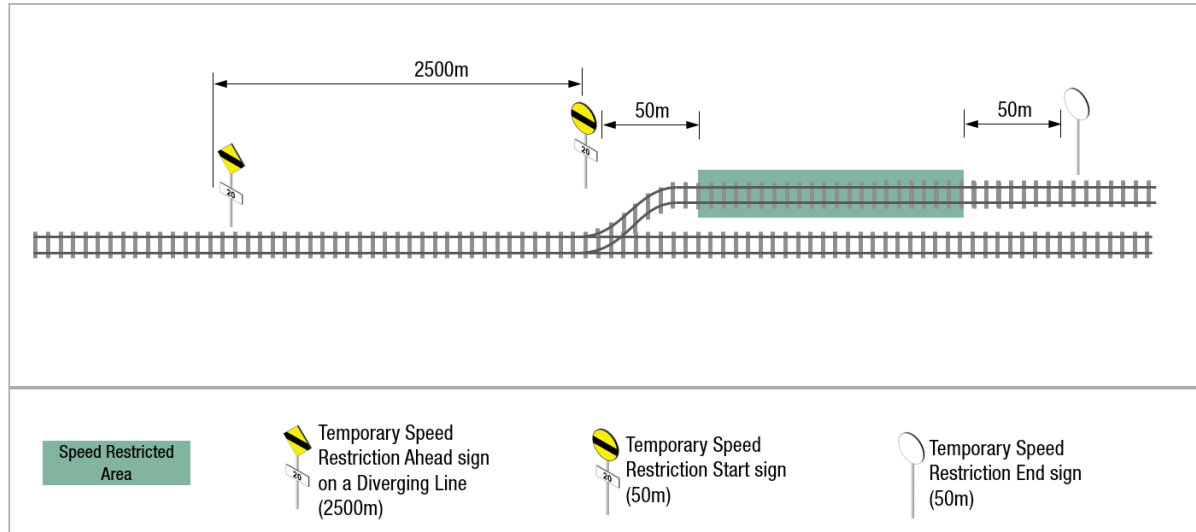


4.1 Diverging Routes

TSR signs must be placed on all lines that might give access to the affected line.

If the *TSR* applies on a diverging *Route*, the *Temporary Speed Restriction* ahead sign and *Temporary Speed Restriction* start sign will display an arrow in the direction of the divergence, or additional text to indicate the *Track* to which the speed restriction applies.

Figure 3025-4 General arrangements for *TSR* signs for a diverging line.



5. Keeping Records

Infrastructure Representatives, Rail Traffic Crews and Network Controllers must keep a *Permanent Record* of the details of *TSR*'s.

6. References

2009 Reporting and Responding to a Condition Affecting the Network (CAN)

7. Effective Date

3 February 2020