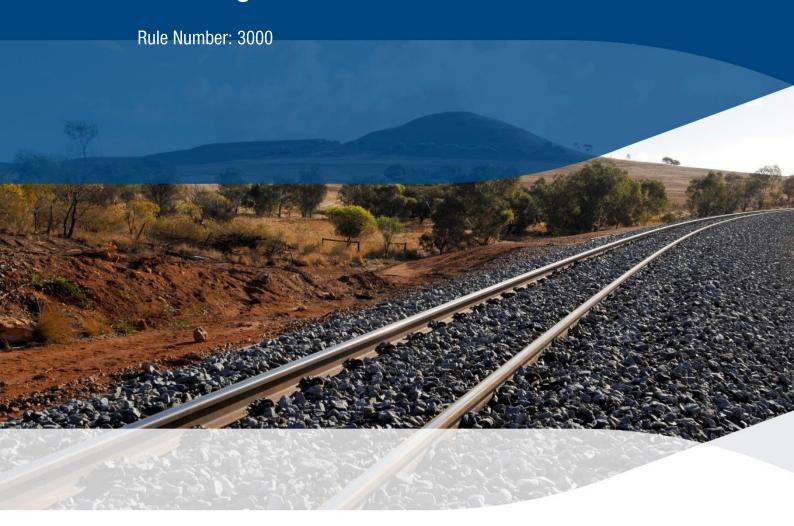
Network Safeworking Rules and Procedures

Planning Work in the Rail Corridor





Planning Work in the Rail Corridor

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Glossary for this Rule

Absolute Signal Blocking

(ASB)

A method used by Competent Workers to carry out work on track using controlled absolute signals set and kept at STOP, without a formally issued

work on track authority.

Access A designated safe way into, along, across or out of the Rail Corridor.

Access Provider An organisation that provides and manages a Rail Network and safe

method of entry to that network for Access Users.

Adjacent Near to, close to, parallel to.

Adjoining In contact with, connected to.

Advertise To give written or electronic notice, usually in advance, of planned

activities.

Associated Rail Traffic Rail traffic that performs track maintenance or construction tasks for the

work.

Authority Formal name for a written Authority (e.g. Local Possession Authority,

Alternative Proceed Authority).

Brookfield Rail Brookfield Rail Pty. Ltd.

Competent Worker A worker certified as competent to carry out a relevant task.

Controlled Absolute Signal A signal that is controlled or operated by a Network Controller. The signal

must not be passed at STOP without authority.

Danger Zone Everywhere within three (3) metres horizontally from the nearest rail and

any distance above or below this three (3) metres, unless a safe place (see

Safe Place) exists or has been created.

Effective Communication The ability to successfully send, receive and understand information. The

communication does not need to be continuous.

Emergency Incident requiring urgent action. The incident might involve death or serious

injury, health or safety effects, significant damage to property or

infrastructure.

Exclusive Occupancy Sole occupancy of track within defined limits.

Issue To provide or send copies of authorities, warnings, notices and Network

publications to affected Competent Workers by voice, hand delivery or

electronic means.

Level Crossings A location where the railway line and a road or pedestrian walkway cross

paths on the same level (at grade).

Light Tool or Device A tool that can be carried and easily removed by one person and is not

powered by cord or hose (e.g. compressed air, gas, electricity).



Local Possession Authority (LPA)

An authority that closes a defined portion of track from non-associated rail traffic for a specified period.

Location

A place in the Network with a designated name, identification number, or signalling reference.

Lookout

A Competent Worker responsible for

- keeping watch for approaching rail traffic; and
- warning other workers to stand clear of the line before the rail traffic arrives.

Lookout Working

A safety measure used by Competent Workers to carry out work on track without a formally issued work on track authority.

Network Controllers

A Competent Worker who authorises and issues Occupancy Authorities. and works points, signals and other signalling equipment to manage routes for safe and efficient transit of rail traffic in the Network.

Obstruct

To make a line unsafe for the passage of rail traffic.

Plant

Equipment, machinery or apparatus used for the purpose of maintaining/constructing rail infrastructure (e.g. generators, excavators, backhoes. cranes).

Possession Protection

Officer

The Competent Worker responsible for coordinating protection of worksites under a Local Possession Authority.

Protection

The means used to prevent rail traffic from entering a worksite or other portion of track, or to prevent road or pedestrian traffic entering a level crossing.

Protection Officer

The Competent Worker responsible for managing the rail safety component of worksite protection (i.e. compliance with Network Safeworking Rules and procedures).

Rail Corridor

The land on which a railway is built; comprising all property between property fences, or from the nearest rail in each direction for the distance defined under the Brookfield Rail lease.

Rail Traffic

Trains and track vehicle or vehicles travelling on the network.

Running Line

A line (other than a siding) that is used for through movement of rail traffic, not normally used for stabling rail vehicles.

Safety Assessment

An assessment process used to identify hazards for all work planned for the Rail Corridor and its potential to intrude on the Danger Zone.

Safe Place

A Safe Place is:

- where there is at least three metres clearance from the nearest Running Line:
- on a Platform behind the safety lines;
- within a purpose-built refuge or shelter;
- where a structure or physical barrier has been erected to provide a position of safety; or
- immediately in front of stationary and Secured Rail Traffic.



Siding A portion of track where vehicles can be placed clear of the running lines.

Also see intermediate siding.

Sighting Distance The distance that someone can clearly see along the track.

Track The combination of rails, rail connectors, sleepers, ballast, points and

crossings.

Track-Circuit An electric circuit where current is carried through the rails and used to

detect the presence of trains. Track-circuits are used in the operation and

control of points, signalling and level crossing equipment.

Track Occupancy Authority

(TOA)

An authority for Competent Workers and their equipment to occupy a

defined portion of track for a specified period.

Track Work Authority (TWA) An authority for non-exclusive occupancy of track by track workers and

equipment within a defined portion of track for a specified period...

Train A locomotive or self-propelled vehicle, alone or coupled to one or more

vehicles. Rail Traffic.

Train Order An authority issued by the Network Controller for the movement of rail

traffic.

Train Order System Blocking

(TOSB)

A facility used by a Network Controller to protect rail traffic, track workers

and prevent the unintended issue of an Occupancy Authority on the Train

Order system.

Unauthorised Not given approval, or exceeding the limit of authority.

Work on Track The work performed in the Danger Zone.

Work on Track Authority An authority to perform work on track. See Local Possession Authority

(LPA); Track Occupancy Authority (TOA) and Track Work Authority (TWA),

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
- 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:

- wherever possible, compile a Worksite Safeworking Planner form and accompanying Worksite Protection Plan prior to arrival at the worksite;
- make a Safety Assessment upon arrival at site to confirm details in the Worksite Safeworking Planner;
- 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 *Work on Track* method and *Protection* arrangements in the *Protection Officer's* Workbook.

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 Lookouts;
- 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 or has power lines overhead:
- 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 *Brookfield Rail*, a *Work on Track 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 Track Occupancy Authority.
- 3009 Track Work Authority.
- 3011 Absolute Signal Blocking.
- 3013 Lookout Working.
- 3023 Train Order System Blocking

The preferred methods of working on *Track* are:

- Local Possession Authorities; and
- Track Occupancy Authorities.



NOTE: Each *Work on Track* method has mandatory minimum safety measures. However, additional safety measures may be identified through risk assessment

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.

LPA's 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*.

Track Occupancy Authority (TOA)

A TOA is applied in accordance with Rule 3005 Track Occupancy Authority.

TOA's are used to close a defined portion of *Track* for a specified period.

A TOA is Issued to the Protection Officer and gives Exclusive Occupancy.

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

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

10. Track Work Authority (TWA)

A TWA is applied in accordance with Rule 3009 Track Work Authority.

TWA's are used to occupy a defined portion of Track between Rail Traffic movements.

A TWA is Issued to the Protection Officer who must manage the passage of Rail Traffic through the worksite.

A TWA does not give Exclusive Occupancy of the defined portion of Track.

A TWA does not does not permit the use of Associated Rail Traffic.

The *Track* may be broken or *Obstructed* but must be restored and cleared for *Rail Traffic* transit as necessary.

11. Absolute Signal Blocking (ASB)

An ASB is applied in accordance with Rule 3011 Absolute Signal Blocking.

ASB is a method of working in the *Danger Zone* by maintaining *Controlled Absolute Signals* at STOP to exclude *Rail Traffic* from a portion of *Track*.

The ASB method must not be used for work that breaks the *Track* or alters *Track* geometry or structure.

ASB's are Issued to Protection Officer's and give Exclusive Occupancy for the agreed period of time.

The ASB method:

- must not be used where a Work on Track Authority is in place; and
- must be applied to Controlled Absolute Signals only.

ASB may be used:

- to allow livestock to cross the Track;
- for work not requiring tools;
- for work using *tools* which can be easily and immediately removed from the *Track* by **one worker** without mechanical assistance;
- work involving light tools powered by a cord or hose (i.e compressed air, gas or electricity);
- for minor signalling maintenance activities;
- at Level Crossings, to allow vehicles to cross the Track; or
- to allow vehicles to directly cross the Track.



If ASB is used one worker may work alone. In this case, that worker must be a *Protection Officer*.

12. Train Order System Blocking (TOSB)

TOSB is applied in accordance with Rule 3023 Train Order System Blocking.

The TOSB method of Protection must be applied to the Train Order System only.

The *TOSB* method must not be used for work that breaks the *Track* or alters *Track* geometry or structure.

TOSB may be used only:

- to allow livestock to cross the *Track*;
- for work not requiring tools;
- for work using *Light Tools or Devices* which can be easily and immediately removed from the *Track* by **one worker** without mechanical assistance;
- work involving light tools powered by a cord or hose (i.e compressed air, gas or electricity);
- at Level Crossings, to allow vehicles to cross the Track; or
- to allow vehicles to directly cross the *Track*.

If *TOSB* is used, one worker may work alone. In this case, that worker is also the *Protection Officer*.

13. 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.

14. 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.

15. References

2001 Walking in the Danger Zone

3001 Local Possession Authority

3005 Track Occupancy Authority

3009 Track Work Authority.

3011 Absolute Signal Blocking

3013 Lookout Working.

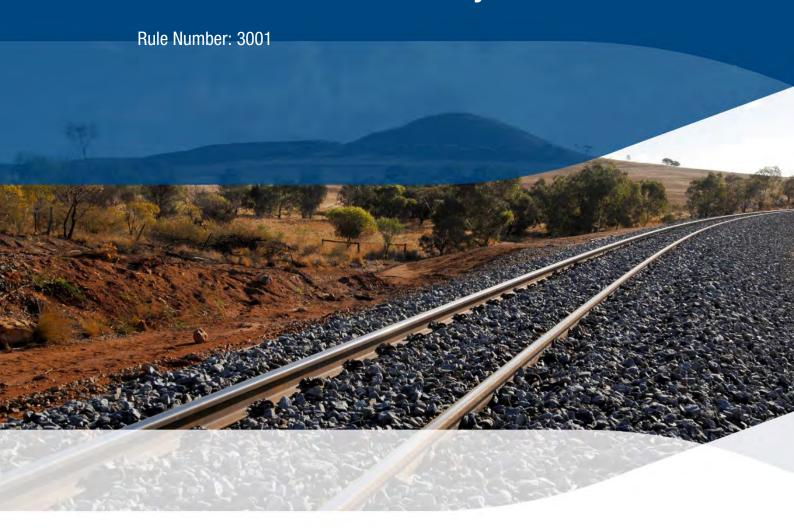
3023 Train Order System Blocking

16. Effective Date

1 Oct 2016

Network Safeworking Rules and Procedures

Local Possession Authority





Local Possession Authority

Rule Number: 3001

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Glossary for this Rule

Adjacent Near to, close to, parallel to.

Adjoining In contact with, connected to.

Advertised To give written or electronic notice, usually in advance, of planned

activities.

Aspect The displayed pattern or position of lights used to give a signal indication.

Associated Rail Traffic Rail traffic that performs track maintenance or construction tasks for the

work.

At Grade Rail Crossing

A point where two or more railway lines cross over at the same elevation,

commonly known as a "Diamond Crossing".

Authority Formal name for a written Authority (e.g. Local Possession Authority,

Alternative Proceed Authority).

Blocking Facilities A facility used by a Network Controller to prevent either the unintended

issue of an Occupancy Authority, or the operation of points or signalling

equipment.

Centralised Traffic Control

(CTC)

A system where points and signals at a number of locations are remotely controlled from a centralised control room or other locations along the

route

Certified Infrastructure or rolling stock that is fit for purpose.

Clear A proceed indication displayed by a signal.

In reference to a track circuit, block, section or signal route, the absence of

rail traffic.

In reference to track workers being clear of track.

Competent Having the ability, skill and certification to carry out a relevant task.

Converging Lines meeting and joining to become one line.

Cross To cross or pass other rail traffic.

Crossover A portion of line that is used to divert rail traffic from one continuing line to

another.

Danger Zone Everywhere within 3m horizontally from the nearest rail and any distance

above or below this 3m, unless a safe place (see Safe Place) exists or has

been created.

Delegate A Competent Worker authorised and designated to act in place of another.

Departure Signal A Controlled Absolute signal controlling the entrance to a Single line section

in CTC territory.



Effective Communication The ability to successfully send, receive and understand information. The

communication does not need to be continuous.

Emergency Incident requiring urgent action. The incident might involve death or serious

injury, health or safety effects, significant damage to property or

infrastructure.

Exclusive Occupancy Sole occupancy of track within defined limits.

Fixed Signals A signal that is located permanently near the line.

Fixed Worksite A worksite with boundaries that are fixed and defined by the Authority

provided for the duration of the work.

Fulfil To advise the Network Controller that the instructions on, and associated

activities for, an Occupancy Authority have been completed and can be

terminated.

Half Pilot Keys A metal key located at the end of a single line CTC section and interlocked

with the Departure signals' circuits. Two half pilot keys can be joined to

provide a full pilot key for Pilot Key Working through the section.

In-Effect Activate, become current, in force.

In-Field Protection One or more devices approved by Brookfield Rail that provide warning to

protect rail traffic crew and workers.

The device or devices may be used in conjunction with signalling or

blocking facilities.

Issue To provide or send copies of authorities, warnings, notices and Network

publications to affected Competent Workers by voice, hand delivery or

electronic means.

Local Possession Authorities

(LPA).

An authority that closes a defined portion of track from non-associated rail

traffic for a specified period.

Location A place in the Network with a designated name, identification number, or

signalling reference.

Network Controllers A Competent Worker who authorises and issues Occupancy Authorities,

and works points, signals and other signalling equipment to manage routes

for safe and efficient transit of rail traffic in the Network.

Obstruct To make a line unsafe for the passage of rail traffic by the placing of tools,

equipment or plant on the track.

Permanent Record A record made in writing or in an electronic system, and kept for reference

and audit.

Pilot To direct or guide rail traffic crews and tell them about local conditions and

operating restrictions on running lines and at worksites.

Possession Protection

Officer

The Competent Worker responsible for coordinating protection of worksites

under a Local Possession Authority.



Points A track component consisting of paired pieces of tapered rail (blades) that

can be moved and set to allow tracks to diverge or converge.

Protecting Signal A fixed signal that is held and maintained at Stop to prevent rail traffic entry

into a worksite.

A signal that protects a train from conflicting movements and/or

obstructions.

Protection The means used to prevent rail traffic from entering a worksite or other

portion of track, or to prevent road or pedestrian traffic entering a level

crossing.

Protection Officer The Competent Worker responsible for managing the rail safety component

of worksite protection (i.e. compliance with Network Safeworking Rules

and procedures).

Rail Traffic Trains and track vehicle or vehicles travelling on the network.

Rail Traffic Crew Competent Workers responsible for the operation of the Motive Power Unit.

Railway Track Signal's (RTS) A device attached to a rail that explodes on impact, used to attract attention

of rail traffic crews.

Restrain To prevent movement of rail traffic with signals, signalling equipment,

blocking facilities, or the issue of a written warning.

Route The rail traffic path from one limit of authority to the next in the direction of

travel.

Running Line A line (other than a siding) that is used for through movement of rail traffic,

not normally used for stabling rail vehicles.

Safety Assessment An assessment process used to identify hazards for all work planned for

the Rail Corridor and its potential to intrude on the Danger Zone.

Safe Place A Safe Place is:

 $\bullet\ \ \$ where there is at least three metres clearance from the nearest

Running Line;

on a Platform behind the safety lines;

• within a purpose-built refuge or shelter;

where a structure or physical barrier has been erected to provide

a position of safety; or

immediately in front of stationary and Secured Rail Traffic.

Section The line between the departure end station limit of one location and the

arrival end station limit of another location. A section consists of one or

more blocks.

Secure To safeguard against accidental or unauthorised access or movement.

Siding A portion of track where vehicles can be placed clear of the running lines.

Also see intermediate siding.

Single Line Automatic

Signalling

The portions of line where the Single Line Automatic Signalling system of

Safeworking is used.



Special Train Notice (STN) A notice issued by Brookfield Rail which contains safeworking information

for competent workers.

Station A system of tracks within station limits at the beginning or end of a section

at which rail traffic may cross, pass or run around.

Stabled To leave rail traffic unattended and secured, usually in a siding.

Terminal Line A dead-end line.

Track The combination of rails, rail connectors, sleepers, ballast, points and

crossings.

Track Closed Warning

Device

A Brookfield Rail approved Stop sign designed to lock into the gauge as

part of in-field protection.

Travel Planned or purposeful movement from one location to another.

Unauthorised Not given approval, or exceeding the limit of authority.

Work on Track The work performed in the Danger Zone.

Work on Track Authority An authority to perform work on track. See Local Possession Authority

(LPA); Track Occupancy Authority (TOA) and Track Work Authority (TWA),

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.

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

The Possession Protection Officer applying this Rule must have a minimum Protection Officer Level 2 (PO2) and management of multiple worksites within an LPA Competency 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*.

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

3. Authorisation

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

- another Work on Track Authority 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;
- 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;
- Blocking Facilities have been applied, in accordance with Rule 6003 Blocking Facilities, to prevent Unauthorised Rail Traffic entry into the proposed limits; and
- in Single Line Automatic Signalling Territory, the Half Pilot Keys have been removed from both ends of the affected Section.

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

- name, Track Access Permit number and contact details of the Possession 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 *Work on Track* method is in place, the *Network Controller* may *Issue* the *LPA* only if the existing *Work on Track* method is *Fulfilled* or ended.

4. Possession Protection Officer and Protection Officer

4.1 Possession Protection Officer

The Possession Protection Officer must:

- 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;
- in Single Line Automatic Signalling Territory, arrange for the Half Pilot Keys to be removed from both ends of the affected Section:
- make sure that each worksite under 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 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; and
- 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;
- 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 record the incoming Protection Officer's name and contact details in the LPA Worksite Permit (Master)

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5. Obtaining an LPA

The Network Controller and the Possession Protection Officer must confirm and record on the Work on Track Authority form:

- the number of the Special Train Notice (STN), Advertising the LPA;
- the LPA limits;
- 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 Points to be clipped, in accordance with Procedure 9000 Clipping Points, if required;
- the duration of the LPA;
- the Possession Protection Officer's name and contact details;
- the name of the Issuing Network Controller,
- the time of Issue; and
- the date of Issue.

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

Where a *Departure Signal* is the *Protecting Signal*, the *Possession Protection Officer* must arrange for the removal and *Securing* of the *Half Pilot Key* for that signal.

When the *LPA* is *Issued* the *Possession Protection Officer* must ensure the required *Protection* is in place before work commences.

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

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:

- Railway Track Signal's (RTS) and Handsignaller,
- RTS and STOP sign;
- Track Closed Warning Device; or
- Points clipped to prevent Rail Traffic entry.



NOTE: *RTS* must be use in accordance with Procedure <u>9004 Using Railway</u> 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

The Possession Protection Officer must:

- Make sure that *In-Field Protection* is placed on the:
 - closed line 500 metres Clear of the Crossover or turnout; and
 - Converging line that allows entry to the LPA area, at the signal protecting entry into the closed line.

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 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.

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

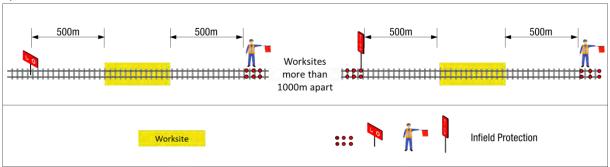
The Possession Protection Officer must:

- 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.

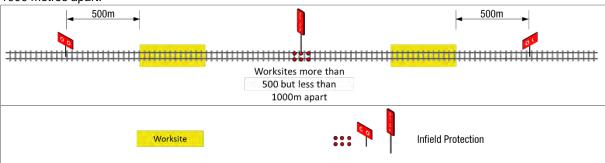
In-Field Protection can be one of the following:

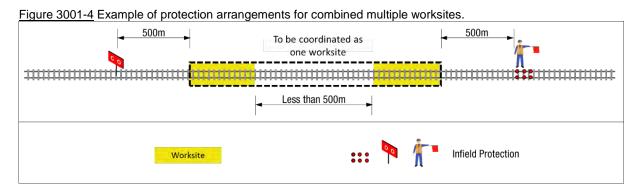
- RTS and Handsignaller,
- RTS and STOP sign;
- RTS and rail clamped STOP sign; or
- Track Closed Warning Device.

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.



<u>Figure 3001-3</u> Example of protection arrangements for multiple worksites more than 500 metres but less than 1000 metres apart.





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 Officer 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:
 - number of worksites included in the LPA; and
- 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;
 - the time and date when the LPA Worksite Permit is Issued; and
- if the *Protection Officer* changes, 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 Delegate 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 and 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; and
- in Single Line Automatic Signalling Territory, the Half Pilot Keys have been replaced.



NOTE: The *Network Controller* must test the *Departure Signals* after *Half Pilot Keys* have been replaced before the *Possession Protection Officer* leaves the site. Testing of signals must be carried out in accordance with Rule 6005 Fixed Signals.



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 Work on Track Authority

Where arrangements have been made to continue work under another *Work on Track Authority* the *Protection Officer* must ensure that the *Protection* applied for the *LPA* is not removed until the new *Work on Track Authority* 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 *Work on Track Authority*:

- 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 Clipping Points

9004 Using Railway Track Signals.

9010 Protecting Work from Rail Traffic on Adjacent Lines.

12. Effective Date

4 May 2016



13. Attachments

Work on Track Authority form (front).

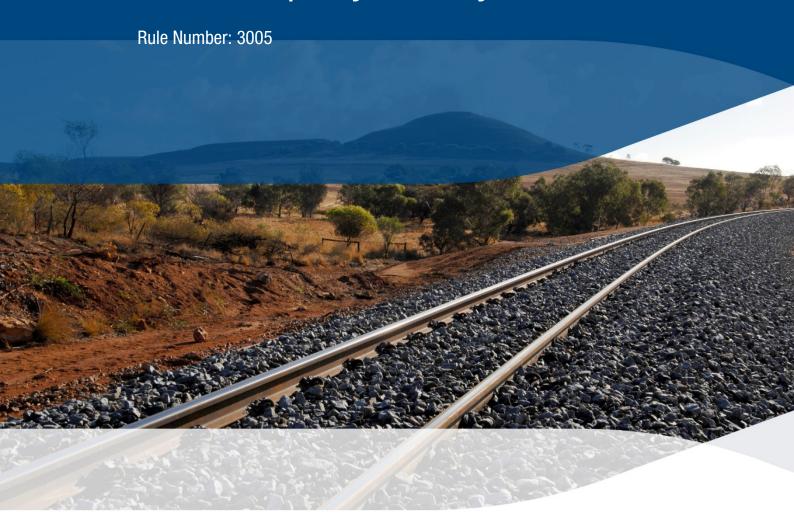
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Network Safeworking Rules and Procedures

Track Occupancy Authority





Track Occupancy Authority

Rule Number: 3005

Document Control Identification

Document title	Number	Version	Date
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1 April 2017



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Glossary for this Rule

Adjacent Near to, close to, parallel to.

Advertise To give written or electronic notice, usually in advance, of planned

activities.

Aspect The displayed pattern or position of lights used to give a signal indication.

Associated Rail Traffic Rail traffic that performs track maintenance or construction tasks for the

work.

At Grade Rail Crossing

A point where two or more railway lines cross over at the same elevation,

commonly known as a "Diamond Crossing".

Authority Formal name for a written Authority (e.g. Local Possession Authority,

Alternative Proceed Authority).

Blocking Facilities A facility used by a Network Controller to prevent either the unintended

issue of an Occupancy Authority, or the operation of points or signalling

equipment.

Centralised Traffic Control

(CTC)

A system where points and signals at a number of locations are remotely controlled from a centralised control room or other locations along the

route.

Centralised Traffic Control

(CTC) Territory

The portions of line where the Centralised Traffic Control system of

Safeworking is used.

Certified To classify infrastructure or rolling stock as fit for purpose.

Clear A proceed indication displayed by a signal.

In reference to a track circuit, block, section or signal route, the absence of

rail traffic.

In reference to track workers being clear of track.

Competent Having the ability, skill and certification to carry out a relevant task.

Controlled Absolute Signal A signal that is controlled or operated by a Network Controller. The signal

must not be passed at STOP without authority.

Danger Zone Everywhere within 3m horizontally from the nearest rail and any distance

above or below this 3m, unless a safe place (see Safe Place) exists or has

been created.

Delegate A Competent Worker authorised and designated to act in place of another.

Departure Signal A Controlled Absolute signal controlling the entrance to a Single line section

in CTC territory.



Exclusive Occupancy Sole occupancy of track within defined limits.

Fixed Signals A signal that is located permanently near the line.

Fulfil To advise the Network Controller that the instructions on, and associated

activities for, an Occupancy Authority have been completed and can be

terminated.

Half Pilot Keys A metal key located at the end of a single line CTC section and interlocked

with the Departure signals' circuits. Two half pilot keys can be joined to

provide a full pilot key for Pilot Key Working through the section.

Handsignaller A Competent Worker who gives handsignals to rail traffic crew

In-Effect Activate, become current, in force.

In-Field Protection One or more devices approved by Brookfield Rail that provide warning to

protect rail traffic crew and workers.

The device or devices may be used in conjunction with signalling or

blocking facilities.

Issue To provide or send copies of authorities, warnings, notices and Network

publications to affected Competent Workers by voice, hand delivery or

electronic means.

Location A place in the Network with a designated name, identification number, or

signalling reference.

Network Controllers A Competent Worker who authorises and issues Occupancy Authorities,

and works points, signals and other signalling equipment to manage routes

for safe and efficient transit of rail traffic in the Network.

Obstruct To make a line unsafe for the passage of rail traffic by the placing of tools,

equipment or plant on the track.

Permanent Record A record made in writing or in an electronic system, and kept for reference

and audit.

Pilot To direct or guide rail traffic crews and tell them about local conditions and

operating restrictions on running lines and at worksites.

Points A track component consisting of paired pieces of tapered rail (blades) that

can be moved and set to allow tracks to diverge or converge.

Protecting Signals A Controlled Absolute Signal that is held and maintained at Stop to prevent

rail traffic entry into a worksite.

Protection The means used to prevent rail traffic from entering a worksite or other

portion of track, or to prevent road or pedestrian traffic entering a level

crossing.

Protection Officer The Competent Worker responsible for managing the rail safety component

of worksite protection (i.e. compliance with Network Safeworking Rules

and procedures).



Rail Traffic Trains and track vehicle or vehicles travelling on the network.

Rail Traffic Crew Competent Workers responsible for the operation of the Motive Power Unit.

Railway Track Signal's (RTS) A device attached to a rail that explodes on impact, used to attract attention

of rail traffic crews.

Restrained To prevent movement of rail traffic with signals, signalling equipment,

blocking facilities, or the issue of a written warning.

Route The rail traffic path from one limit of authority to the next in the direction of

travel.

Running Line A line (other than a siding) that is used for through movement of rail traffic,

not normally used for stabling rail vehicles.

Safe Place A Safe Place is:

where there is at least three metres clearance from the nearest

Purplied Line:

Running Line;

on a Platform behind the safety lines;within a purpose-built refuge or shelter;

whilm a purpose ballit relage of shelter,
 where a structure or physical barrier has been erected to provide

a position of safety; or

• immediately in front of stationary and Secured Rail Traffic.

Safety Assessment An assessment process used to identify hazards for all work planned for

the Rail Corridor and its potential to intrude on the Danger Zone.

Section The line between the departure end station limit of one location and the

arrival end station limit of another location. A section consists of one or

more blocks.

Secure To safeguard against accidental or unauthorised access or movement.

Siding A portion of track where vehicles can be placed clear of the running lines.

Also see intermediate siding.

Single Line Automatic

Signalling

The portions of line where the Single Line Automatic Signalling system of

Safeworking is used.

Special Train Notice(STN) A notice issued by Brookfield Rail which contains safeworking information

for competent workers.

Stabled To leave rail traffic unattended and secured, usually in a siding.

Station A system of tracks within station limits at the beginning or end of a section

at which rail traffic may cross, pass or run around.



Track The combination of rails, rail connectors, sleepers, ballast, points and

crossings.

Track Closed Warning

Device

A Brookfield Rail approved Stop sign designed to lock into the gauge as

part of in-field protection.

Track Occupancy Authorities

(TOA)

An Authority for Competent Workers and their equipment to occupy a

defined portion of track for a specified period.

Track Vehicle A vehicle, usually self-propelled, used for inspecting and/or maintaining

infrastructure.

Train A locomotive or self-propelled vehicle, alone or coupled to one or more

vehicles. Rail Traffic.

Train Order An authority issued by the Network Controller for the movement of rail

traffic.

Travel Planned or purposeful movement from one location to another.

Unauthorised Not given approval, or exceeding the limit of authority.

Uni-Directional Allowing for normal travel in one direction only according to the

infrastructure and system of Safeworking in use.

Work on Track Authority An authority to perform work on track. See Local Possession Authority

(LPA); Track Occupancy Authority (TOA) and Track Work Authority (TWA),



1 Purpose

This Rule details the protocols for *Issuing* and using *Track Occupancy Authorities (TOA)*. These *Authorities* are used to close a defined portion of *Track* for a specified period.

2 General

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

A TOA 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 2 (PO2) *Competency* in accordance with Rule <u>1004 Track Access Accreditation</u>.

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

The Track may be broken or Obstructed.

3 Authorisation

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

- another Work on Track 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 TOA, but is within the limits of the TOA, must not be authorised to move:
- Rail Traffic associated with the TOA 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
- 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 TOA where rail traffic is holding a Unidirectional Authority.

A TOA 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 until the TOA is *Fulfilled* unless otherwise approved by the *Manger Network Operations*.

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*; and
- tell workers about the Locations of Safe Places.

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 TOA Authority number; and
- make a Permanent Record of the handover of the TOA.



5 Obtaining a TOA

The Network Controller and the Protection Officer must confirm and record on the TOA form:

- the number of the Special Train Notice (STN) Advertising the TOA;
- the TOA limits;
- 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;
- in Single Line Automatic Signalling Territory, that the Half Pilot Keys have been removed from both ends of the affected Section:
- the Points to be clipped, in accordance with Procedure 9000 Clipping Points, if required;
- the anticipated duration of the TOA;
- the Protection Officer's name and contact details;
- the name of the Issuing Network Controller,
- the time of Issue; and
- the date of Issue.

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

When the *TOA* is *Issued* the *Protection Officer* must ensure the required *Protection* is in place before work commences.

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

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 TOA. Where required, the Protection Officer must place In-Field Protection at all points of entry to the TOA.

6.1 In-Field Protection

In-Field Protection can be one of the following:

- Railway Track Signal's (RTS) and Handsignaller,
- RTS and a STOP sign;
- Track Closed Warning Device; or
- Points clipped to prevent Rail Traffic entry.



NOTE: *RTS* must be used in accordance with Procedure <u>9004 Using</u> 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 Tra*ffic movements from that direction.

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

6.3 Centralised Traffic Control (CTC) Territory

Protecting Signals must be placed to STOP with Blocking Facilities applied and In-Field Protection placed:

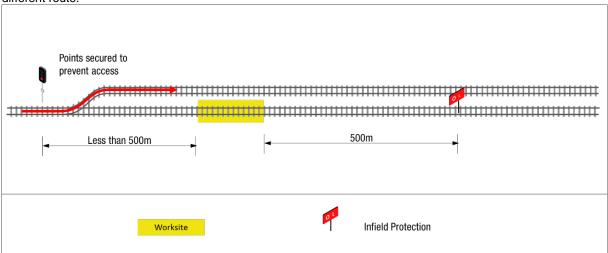
- at that Protecting Signal; or
- at least 500 metres from the worksite in such a position that any *Rail Traffic* entering the *TOA* limits must pass over that *In-Field Protection*.

Where a *Departure Signal* is the *Protecting Signal* the *Protection Officer* must also take possession of the *Half Pilot Key*.

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

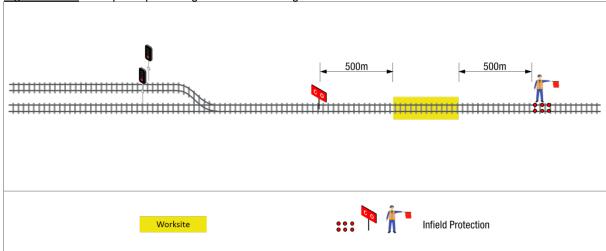


<u>Figure 3005-1</u> Example of a protecting signal less than 500 metres from the worksite and points secured for a different route.



If *Points* cannot be *Secured* for a different *Route*, a *Controlled Absolute Signal* at least 500 metres from the worksite must be used.

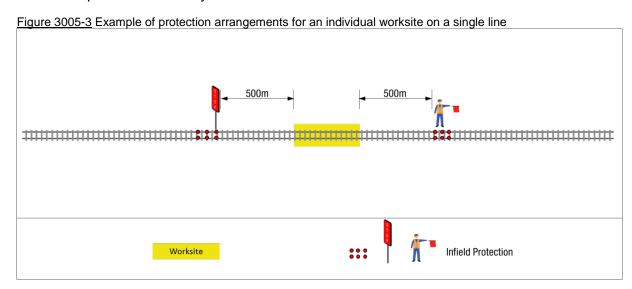
Figure 3005-2 Example of protecting a worksite with signals more than 500 metres from the worksite.

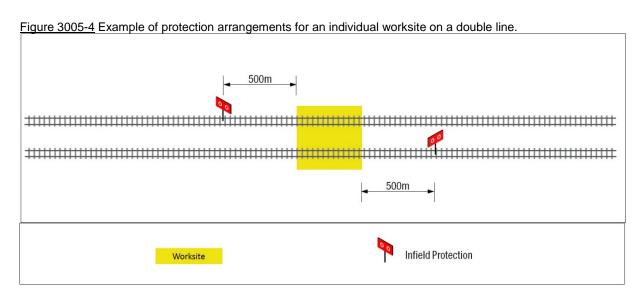




6.4 Train Order Territory

Where available, *Blocking Facilities* must be applied to the *Train Order* System and *In-Field Protection* placed at the entry to the *TOA* limits.





6.5 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.

7 Rail Traffic

Only Rail Traffic associated with the TOA may enter the limits of the TOA unless the TOA has been suspended in accordance with section 8 of this rule.

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

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

7.1 Rail Traffic Entering or Travelling Within the TOA Limits

The Protection Officer must manage all Rail Traffic movement within the TOA.

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

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

If Temporary Speed Restriction signs have not been erected, *Rail Traffic*, entering and *Travelling* within the *TOA* 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 TOA 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 <u>6013 Passing Fixed Signals at Stop</u>.



NOTE: Inside a TOA, 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 TOA

Rail Traffic may depart the limits of the TOA 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 TOA

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

- work sites is clear of workers, tools and equipment, including any Associated Rail Traffic:
- In-Field Protection has been removed:
- Half Pilot Keys have been replaced, if necessary;
- the portion of track included in the TOA 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 7.1 of this rule.



10 Reinstating a TOA

The *TOA* 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 *TOA* number:
- ask the Network Control to re-instate the TOA and apply new Blocking Facilities; and
- ensure all Protection has been replaced before allowing workers to re-enter the Danger Zone.

11 Fulfilling the TOA

Before Fulfilling the Authority the 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;
- 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.

The Network Controller must confirm with the Protection Officer that:

- Blocking Facilities can be removed; and
- in Single Line Automatic Signalling Territory, the Half Pilot Keys have been replaced.



NOTE: The *Network Controller* must test the *Departure Signals* after *Half Pilot Keys* have been replaced before the *Protection Officer* leaves the site.

Testing of signals must be carried out in accordance with Rule <u>6005 Fixed Signals</u>.

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 Points

9004 Using Railway Track Signals

9010 Protecting Work from Rail Traffic on Adjacent Lines

14 Effective Date

1 April 2017

Network Safeworking Rules and Procedures

Track Work Authority

Rule Number: 3009





Track Work Authority

Rule Number: 3009

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Glossary for this Rule

Adjacent Near to, close to, parallel to.

Adjoining In contact with, connected to.

Advertise To give written or electronic notice, usually in advance, of planned activities.

Aspect The displayed pattern or position of lights used to give a signal indication.

Associated Rail Traffic Rail traffic that performs track maintenance or construction tasks for the

work.

Authority Formal name for a written Authority (e.g. Local Possession Authority,

Alternative Proceed Authority).

Blocking Facilities A facility used by a Network Controller to prevent either the unintended issue

of an Occupancy Authority, or the operation of points or signalling equipment.

Certified To classify infrastructure or rolling stock as fit for purpose.

Clear A proceed indication displayed by a signal.

In reference to a track circuit, block, section or signal route, the absence of

rail traffic.

In reference to track workers being clear of track.

Competent Having the ability, skill and certification to carry out a relevant task.

Controlled Absolute Signals A signal that is controlled or operated by a Network Controller. The signal

must not be passed at STOP without authority.

Danger Zone Everywhere within 3 metres horizontally from the nearest rail and any

distance above or below this 3 metres, unless a safe place (see Safe Place)

exists or has been created.

Delegate A Competent Worker authorised and designated to act in place of another.

Effective Communication The ability to successfully send, receive and understand information. The

communication does not need to be continuous.

Exclusive Occupancy Sole occupancy of track within defined limits.

Fulfil To advise the Network Controller that the instructions on, and associated

activities for, an Occupancy Authority have been completed and can be

terminated.



Handsignallers A Competent Worker who gives handsignals to rail traffic crew

In-Field Protection One or more devices approved by Brookfield Rail that provide warning to

protect rail traffic crew and workers.

The device or devices may be used in conjunction with signalling or blocking

facilities.

Issue To provide or send copies of authorities, warnings, notices and Network

publications to affected Competent Workers by voice, hand delivery or

electronic means.

Location A place in the Network with a designated name, identification number, or

signalling reference.

Network Controllers A Competent Worker who authorises and issues Occupancy Authorities, and

works points, signals and other signalling equipment to manage routes for

safe and efficient transit of rail traffic in the Network.

Normal Speed A speed that does not exceed the speed limit currently in effect for the

section of line and type of rail traffic.

Obstruct To make a line unsafe for the passage of rail traffic by the placing of tools,

equipment or plant on the track.

Occupancy Presence of rail traffic or track workers on track.

Permanent Record A record made in writing or in an electronic system, and kept for reference

and audit.

Points A track component consisting of paired pieces of tapered rail (blades) that

can be moved and set to allow tracks to diverge or converge.

Protecting Signal A Controlled Absolute Signal that is held and maintained at Stop to prevent

rail traffic entry into a worksite.

Protection The means used to prevent rail traffic from entering a worksite or other

portion of track, or to prevent road or pedestrian traffic entering a level

crossing.

Protection Officer The Competent Worker responsible for managing the rail safety component

of worksite protection (i.e. compliance with Network Safeworking Rules and

procedures).

Rail Traffic Trains and track vehicle or vehicles travelling on the network.

Rail Traffic Crew Competent Workers responsible for the operation of the Motive Power Unit.

Railway Track Signals (RTS) A device attached to a rail that explodes on impact, used to attract attention

of rail traffic crews.



Safe Place A Safe Place is:

 where there is at least three metres clearance from the nearest Running Line;

on a Platform behind the safety lines;

within a purpose-built refuge or shelter;

 where a structure or physical barrier has been erected to provide a position of safety; or

immediately in front of stationary and Secured Rail Traffic.

Safety Assessment An assessment process used to identify hazards for all work planned for the

Rail Corridor and its potential to intrude on the Danger Zone.

Section The line between the departure end station limit of one location and the

arrival end station limit of another location. A section consists of one or more

blocks.

Secure To safeguard against accidental or unauthorised access or movement.

Special Train Notice (STN) A notice issued by Brookfield Rail which contains safeworking information

for competent workers.

Station A system of tracks within station limits at the beginning or end of a section

at which rail traffic may cross, pass or run around.

Stopping Place A designated location, next to the line, that may allow personnel to enter and

leave trains.

Terminal Line A dead-end line.

Track The combination of rails, rail connectors, sleepers, ballast, points and

crossings.

Track Closed Warning

Device (TCWD)

A Brookfield Rail approved Stop sign designed to lock into the gauge as part

of in-field protection.

Track Work Authorities

(TWA).

An authority for non-exclusive occupancy of track by track workers and

equipment within specified limits.

Train A locomotive or self-propelled vehicle, alone or coupled to one or more

vehicles. Rail Traffic.

Unauthorised Not given approval, or exceeding the limit of authority.

Uni-Directional Allowing for normal travel in one direction only according to the infrastructure

and system of Safeworking in use.

Work on Track The work performed in the Danger Zone.

Work on Track Authority An authority to perform work on track. See Local Possession Authority (LPA);

Track Occupancy Authority (TOA) and Track Work Authority (TWA),

1. Purpose

This Rule details the protocols for *Issuing* and using *Track Work Authorities (TWA)*. These *Authorities* are used to *Occupy* a defined portion of *Track* between *Rail Traffic* movements.

General

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

A *TWA* is *Issued* to the *Protection Officer* who must manage the passage of *Rail Traffic* through the worksite.

The *Protection Officer* applying this Rule must have a minimum *Protection Officer* Level 2 (PO2) *Competency* in accordance with Rule <u>1004 Track Access Accreditation</u>.

A Track Work Authority can be used when:

- no Rail Traffic has an authority to traverse that section towards the worksite, or
- Rail Traffic has passed through the location where the TWA is required.

If a *TWA* is in place, no rail traffic will be issued an authority, or signalled into a section towards the worksite until the TWA has been fulfilled in accordance with the rules. Network control must provide blocking facilities as per <u>Rule 6003 Blocking Facilities</u>.

A TWA does not permit the use of Associated Rail Traffic.

The *Track* may be broken or *Obstructed* but must be restored and *Cleared* for *Rail Traffic* transit as necessary.

The work must be carried out between *Rail Traffic* movements and planned to allow any *Rail Traffic* to continue as scheduled.

3. Authorisation

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

- another Work on Track Authority is not in use within the proposed limits;
- any 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.
- the Protection Officer knows about any existing obstructions; and



- if required, *Blocking Facilities* have been applied in accordance with Rule <u>6003</u> 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
- 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 *Work on Track* method is in place, the *Network Controller* may *Issue* the *TWA* only if the:

- Protection Officers have consulted and agree that the existing work can be included in the proposed Authority; or
- the existing Work on Track method will be Fulfilled or ended.

4. Protection Officer

4.1 Protection Officer

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

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* are kept *Clear* of obstructions;
- make sure that the worksite is *Protected* against the *Unauthorised* entry of *Rail Traffic*; and
- tell workers about the Locations of Safe Places.

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 Train Controllers about the changed contact arrangements; and
- make a *Permanent Record* of the handover of the *TWA*.

5. Obtaining a TWA

The Network Controller and the Protection Officer must confirm and record on the TWA:

- the number of the Special Train Notice (STN) Advertising the TWA;
- the TWA limits:
- · a unique identifying number;
- if required, that *Blocking Facilities* have been applied to prevent entry of *Rail Traffic* into the portion of *Track* within the proposed limits;
- the Points to be clipped, in accordance with Procedure <u>9000 Clipping Points</u>, if required;
- the duration of the TWA;
- the Protection Officer's name and contact details;
- the name of the Issuing Network Controller,
- the time of Issue; and
- the date of Issue.

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

When the *TWA* is *Issued*, the *Protection Officer* must ensure the required *Protection* is in place before work commences.

6. Protection



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

Effective Communication must be maintained between the Protection Officer and:

- the Network Controller,
- Handsignallers; and
- approaching Rail Traffic Crews.

The Protection Officer must make sure that all points of entry into the worksite is Protected against Unauthorised Rail Traffic.

The *Protection Officer* may, in agreement with the *Network Controller*, prevent entry to a worksite by *Securing* the *Points* that give access to the worksite.

The *Protection Officer* must make sure that the worksite is *Protected* against *Unauthorised Rail Traffic* entry before the use of the *Points* is restored.

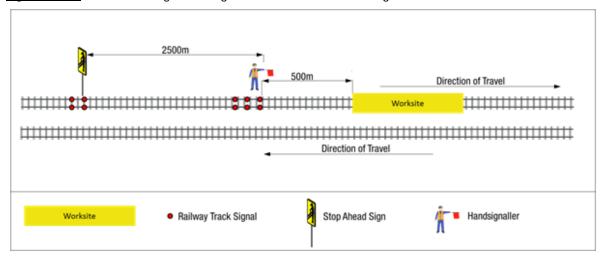
Where the *Protection* arrangements of *Adjoining TWA* worksites overlap, the worksites must be managed as a single worksite under a single *TWA* by the chosen *Protection Officer*.

6.1 Protecting with Handsignaller and STOP AHEAD Sign

A *Handsignaller* and three *Railway Track Signals* must be placed not less than 500 metres from the worksite in the direction of approaching *Rail Traffic*.

A STOP AHEAD sign and two *Railway Track Signals* must be placed 2500 metres from the *Handsignaller* and three *Railway Track Signals* in the direction of approaching *Rail Traffic*.

Figure 3009-1 Protection using a Handsignaller and a STOP AHEAD sign.

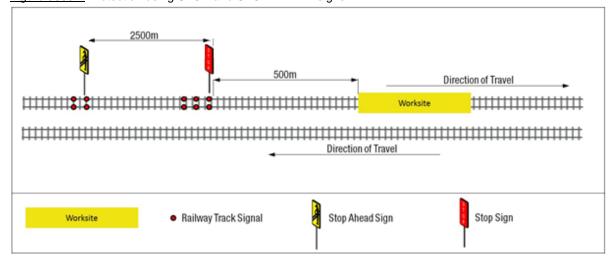


6.2 Protecting with STOP or Track Closed Warning Device and STOP AHEAD Signs

A STOP sign and three *Railway Track Signals* or *Track Closed Warning Device* must be placed not less than 500m from the worksite in each direction.

A STOP AHEAD sign and two *Railway Track Signals* must be placed 2500 metres from the STOP sign and three *Railway Track Signals* in the direction of approaching *Rail Traffic*.

Figure 3009-2 Protection using STOP and STOP AHEAD signs.



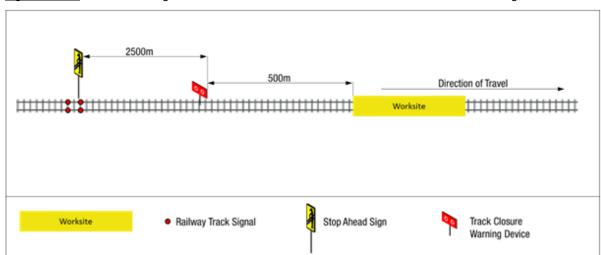


Figure 3009-3 Protection using a TRACK CLOSED WARNING DEVICE and a STOP AHEAD sign.

6.3 Protecting by Setting Signals at STOP

Where *Controlled Absolute Signals* are between 500 metres and 2500 metres of a worksite in the direction of approaching *Rail Traffic* these signals must be used to *Protect* the worksite and a STOP AHEAD sign is not necessary.



NOTE: An Absolute Signal (Intermediate signal or Approach signal) cannot be used as a Protecting signal..

Protecting Signals must be:

- set and kept at STOP with Blocking Facilities applied; and
- Cleared only if it is safe to allow Rail Traffic to pass through the worksite.

One of the following In-Field Protection methods must be placed at the Protecting Signal:

- a Handsignaller and three Railway Track Signals;
- a STOP sign and three Railway Track Signals; or
- a Track Closed Warning Device.

Figure 3009-4 Protection by setting signals at STOP with a Track Closed Warning Device.

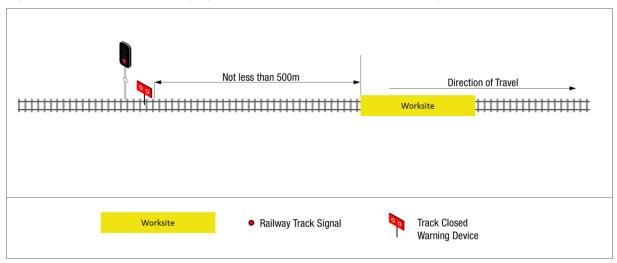


Figure 3009-5 Protection by setting signals at STOP with a STOP sign and three Railway Track Signals

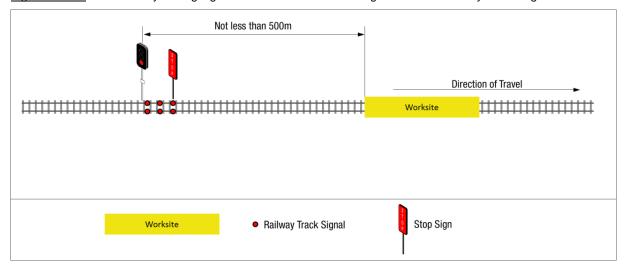
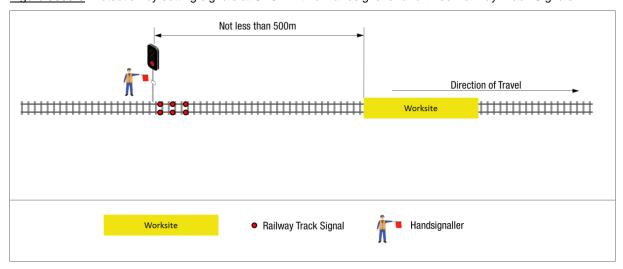


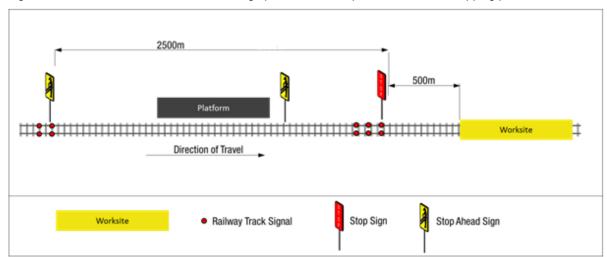
Figure 3009-6 Protection by setting signals at STOP with a Handsignaller and three Railway Track Signals.



6.4 Additional Warning

If a *Stopping Place* is located between the STOP AHEAD sign and the *Handsignaller*, STOP sign, or *Track Closed Warning Device*, an additional STOP AHEAD sign must be placed at the departure end of the *Stopping Place* to remind *Rail Traffic Crews* that a *Handsignaller*, STOP sign, or *Track Closed Warning Device* is ahead.

Figure 3009-7 An additional STOP AHEAD sign placed at the Departure end of the stopping place.



6.5 Affected Signals

Before starting work the *Protection Officer* must tell the *Network Controller* about signals that will or may be affected by the work.



WARNING: An affected signal may not be a *Protecting Signal*.

If an affected signal is within 500 metres of a worksite it cannot be used as a *Protecting Signal*.

Where a *Controlled Absolute Signal* is within 500 metres of a worksite, it must be placed at STOP with *Blocking Facilities* applied.

6.6 Terminal Lines

If the *Network Controller* tells the *Protection* Officer that there are no planned Rail Traffic movements between the worksite and the end of a *Terminal Line*, *Protection* from that direction is not necessary.

6.7 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.

6.8 Joint Occupancy with a Track Occupancy Authority (TOA)

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

The Network Controller may Issue a TWA only if the Protection Officers have consulted and agree that a TWA may be Issued.

7. Rail Traffic

The Protection Officer or Delegate must manage all Rail Traffic movement within the TWA.

Before authorising *Rail Traffic* to pass STOP signs, or authorising *Handsignallers* to allow *Rail Traffic* to approach worksites, *Protection Officers* must make sure that:

- workers are in Safe Places: and
- the *Track* is unobstructed and safe for the passage of *Rail Traffic*.



NOTE: The *Handsignaller* must comply with Rule <u>2003 Handsignals and Verbal Commands</u> when authorising *Rail Traffic* movements.

Only *Protection Officers* may tell *Handsignallers* whether to allow *Rail Traffic* to proceed, and at what speed.

The Protection Officer must direct Handsignallers at Controlled Absolute Signals to:

- ask the Network Controller to Clear the signal; or
- get the Network Controller to Issue an Authority to the Rail Traffic Crew to pass the signal at STOP.

7.1 Rail Traffic Clearing Worksites

The *Protection Officer* must advise *Rail Traffic Crews* when their *Rail Traffic* is *Clear* of the worksite and that *Normal Speed* may be resumed.



NOTE: After the passage of *Rail Traffic* through the worksite, and before allowing workers to re-enter the *Danger Zone*, *Protection Officers* must make sure that the *Protection* has been replaced.

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.

Fulfilling the TWA

Before Fulfilling the Authority the Protection Officer must make sure and tell the Network Controller that:

- all work groups and equipment have *Cleared* the worksites;
- Points securing devices have been removed;
- In-Field Protection has been removed;
- if necessary, Blocking Facilities can be removed and signals restored to normal use;
- 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.

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

9.1 Work to Continue Under Another Work on Track Authority

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

The *Network Controller* must ensure that the *Track* within the limits of the proposed *Work on Track Authority*:

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

10. Keeping Records

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

11. References

1004 Track Access Accreditation

2003 Handsignals and Verbal Commands

4017 Overdue Occupancies

6003 Blocking Facilities

9000 Clipping Points

9010 Protecting Work from Rail Traffic on Adjacent Lines

12. Effective Date

01 October 2016

Network Safeworking Rules and Procedures

Absolute Signal Blocking

Rule Number: 3011





Absolute Signal Blocking

Rule Number: 3011

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Glossary for this Rule

Absolute Signal Blocking (ASB)

A method used by Competent Workers to carry out work on track using controlled absolute signals set and kept at STOP, without a formally issued

work on track authority.

Access A designated safe way into, along, across or out of the Rail Corridor.

Adjacent Near to, close to, parallel to.

Aspect The displayed pattern or position of lights used to give a signal indication.

Authority Formal name for a written Authority (e.g. Local Possession Authority,

Alternative Proceed Authority).

Blocking Facilities A facility used by a Network Controller to prevent either the unintended

issue of an Occupancy Authority, or the operation of points or signalling

equipment.

Centralised Traffic Control

(CTC) Territory

The portions of line where the Centralised Traffic Control system of

Safeworking is used.

Centralised Traffic Control

(CTC)

A system where points and signals at a number of locations are remotely controlled from a centralised control room or other locations along the

route.

Clear A proceed indication displayed by a signal.

In reference to a track circuit, block, section or signal route, the absence of

rail traffic.

In reference to track workers being clear of track.

Competent Having the ability, skill and certification to carry out a relevant task.

Complete Rail traffic where the consist has not parted.

Controlled Absolute Signals A signal that is controlled or operated by a Network Controller. The signal

must not be passed at STOP without authority.

Danger Zone Everywhere within 3m horizontally from the nearest rail and any distance

above or below this 3m, unless a safe place (see Safe Place) exists or has

been created.

Level Crossing A location where the railway line and a road or pedestrian walkway cross

paths on the same level (at grade).



Local Possession Authority

(LPA)

An authority that closes a defined portion of track from non-associated rail

traffic for a specified period.

Location A place in the Network with a designated name, identification number, or

signalling reference.

Lookout A Competent Worker responsible for

keeping watch for approaching rail traffic; and

warning other workers to stand clear of the line before the rail

traffic arrives.

Network A combination of track and other associated infrastructure controlled by

Brookfield Rail.

Network Controller A Competent Worker who authorises and issues Occupancy Authorities,

and works points, signals and other signalling equipment to manage routes

for safe and efficient transit of rail traffic in the Network.

Permanent Record A record made in writing or in an electronic system, and kept for reference

and audit.

Points A track component consisting of paired pieces of tapered rail (blades) that

can be moved and set to allow tracks to diverge or converge.

Possession Protection

Officer

The Competent Worker responsible for coordinating protection of worksites

under a Local Possession Authority.

Protecting Signal A fixed signal that is held and maintained at Stop to prevent rail traffic entry

into a worksite.

A signal that protects a train from conflicting movements and/or

obstructions.

Protection The means used to prevent rail traffic from entering a worksite or other

portion of track, or to prevent road or pedestrian traffic entering a level

crossing.

Protection Officer The Competent Worker responsible for managing the rail safety component

of worksite protection (i.e. compliance with Network Safeworking Rules

and procedures).

Rail Traffic Trains and track vehicle or vehicles travelling on the Network.

Rail Traffic Crew Competent Workers responsible for the operation of the Motive Power Unit.



Safe Place A Safe Place is:

 where there is at least three metres clearance from the nearest Running Line;

• on a Platform behind the safety lines;

· within a purpose-built refuge or shelter;

 where a structure or physical barrier has been erected to provide a position of safety; or

immediately in front of stationary and Secured Rail Traffic.

Safety Assessment An assessment process used to identify hazards for all work planned for

the Rail Corridor and its potential to intrude on the Danger Zone.

Section The line between the departure end station limit of one location and the

arrival end station limit of another location. A section consists of one or

more blocks.

Secure To safeguard against accidental or unauthorised access or movement.

Station A system of tracks within station limits at the beginning or end of a section

at which rail traffic may cross, pass or run around.

Track The combination of rails, rail connectors, sleepers, ballast, points and

crossings.

Track-Circuit Shorting Device A cable that can be clamped to a line's rails to activate track-circuits.

Track Vehicle A vehicle, usually self-propelled, used for inspecting and/or maintaining

infrastructure.

Unauthorised Not given approval, or exceeding the limit of authority.

Train A locomotive or self-propelled vehicle, alone or coupled to one or more

vehicles. Rail Traffic.

Uni-Directional Allowing for normal travel in one direction only according to the

infrastructure and system of Safeworking in use.

Work on Track The work performed in the Danger Zone.

Work on Track Authority An authority to perform work on track. See Local Possession Authority

(LPA); Track Occupancy Authority (TOA) and Track Work Authority (TWA),

1. Purpose

The function of this Rule is to outline the protocols for authorising and using *Absolute Signal Blocking (ASB)* in *Centralised Traffic Control (CTC) Territory*.

2. General

This is a method of working in the *Danger Zone* by maintaining *Controlled Absolute Signals* at STOP to exclude *Rail Traffic* from a portion of *Track*.

The ASB method must not be used for work that breaks the *Track* or alters *Track* geometry or structure.

Only Network Controllers may approve ASB for Track under their control.

The *Protection Officer* applying this Rule must have a minimum *Protection Officer* Level 1 (PO1) *Competency* in accordance with Rule 1004 Track Access Accreditation.



WARNING: If the *Safety Assessment* shows that a *Work on Track Authority* is necessary, work must not be done using the *ASB* method.

If a *Safety Assessment* shows that it is safe, some kinds of work may be done in the *Danger Zone* without a *Work on Track Authority*. *ASB* is one of those methods of working.

ASB may be used only:

- to allow livestock to cross the *Track*;
- for work not requiring tools;
- for work using tools which can be easily and immediately removed from the *Track* by **one worker** without mechanical assistance;
- work involving light tools powered by a cord or hose (i.e compressed air, gas or electricity);
- for minor signalling maintenance activities;
- at Level Crossings, to allow vehicles to cross the Track; or
- to allow vehicles to directly cross the *Track*.

If ASB is used, one worker may work alone. In this case, that worker is also the *Protection Officer*.

The ASB method of Protection must be applied to Controlled Absolute Signals only.

3. Authorisation

Before authorising ASB working, the Network Controller must make sure that:

- a Track Occupancy Authority is not in use within the proposed limits;
- any 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.
- stabled Rail Traffic that is within the limits of the ASB, must not be authorised to move;
- the Protection Officer knows about any existing obstructions;
- the Protecting signals have been identified; and
- Blocking Facilities have been applied in accordance with Rule 6003 Blocking Facilities to prevent Unauthorised Rail Traffic entry into the proposed limits.



WARNING: The *Network Controller* must not permit *ASB* if there is any doubt about the *Location* of the proposed worksite.

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
- Location using two or more of the following identifiers:
 - a kilometre sign and Section;
 - Station name;
 - a Points number;
 - a signal number;
 - by the use of a Track Circuit Shorting device
 - 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 Joint Occupancy

An ASB cannot be authorised for a portion of track where a Track Occupancy Authority (TOA) is current.

The *Network Controller* may authorise an ASB for a portion of Track where another *ASB or TWA* is current.

The Network Controller may Issue the ASB only if the Protection Officers have consulted and agree that an ASB may be issued.



NOTE: Where a Local Possession Authority is in place, only the *Possession Protection Officer* for that LPA can approve the work.

4. Protection Officer

A *Protection Officer* is required for the period of the work, except if the *ASB* is used to allow livestock or vehicles to directly cross the *Track*; in these circumstances the *Network Controller* may apply *ASB*.

If authorised by the *Network Controller*, the *Protection officer* must remove and safeguard the *Points* control mechanism or place the *Points* in manual mode.

A Protection Officer must:

- make sure that work in the Danger Zone does not begin before the required safety measures are in place;
- before work begins, tell workers about the:
 - types and limits of *Protection* in place;
 - Locations of Safe Places;
- be responsible for the *Protection* of workers from *Rail Traffic*;
- make sure the *Tracks* between worksites and *Protecting Locations* remain *Clear* of obstructions:
- make sure that worksites are Protected against the Unauthorised entry of Rail Traffic; and
- confirm with the *Network Controller* that *Blocking Facilities* have been applied to prevent the *Unauthorised* entry of *Rail Traffic*.



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

4.1 Request for ASB from a Person other than a Protection Officer

The *Network Controller* may apply *ASB* to allow 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 Blocking Facilities.

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; and
- make a Permanent Record of the handover.

Obtaining Approval for ASB

The *Network Controller* and the *Protection Officer* must confirm and record on the Blocking Request for *Work on Track* form:

- the Location of the work:
- · a unique identifying number;
- that Blocking Facilities have been applied, or where approved by the Network
 Controller, the Points control mechanism has been removed, placing the Points into
 manual mode to prevent entry of Rail Traffic into the portion of Track within the
 proposed limits;
- the blocking Authority number from the Train Control System;
- the Points to be clipped, in accordance with Procedure <u>9000 Clipping Points</u>, or placed in manual mode, if required;
- the duration of the work;
- the Protection Officer's name and contact details;
- the approving Network Controller's name;
- the time of approval; and
- the date of approval.



NOTE: After receiving the Blocking Request form from the *Network Controller* the *Protection Officer* must repeat the details back as per Procedure 9016 Written Authorities and Forms.

When the ASB is approved the *Protection Officer* must ensure the required *Protection* is in place before work commences.

6. Protection



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

The Protection Officer must arrange for:

- Controlled Absolute Signals to be set at STOP with Blocking Facilities applied; or
- Points control mechanism to be removed or Points to be placed in manual mode to set Controlled Absolute Signals at STOP.

6.1 Protecting Signal

Where 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 *ASB* limits.

6.2 Network Controller

The Network Controller must confirm with the Protection Officer that:

- the protecting *Controlled Absolute Signals* have been set at STOP with *Blocking Facilities* applied;
- the line is Clear between the Protecting Signals and the proposed worksite; and
- any Rail Traffic that has passed Complete beyond the worksite will not return.

Network Controllers must not authorise movements into portions of line where *ASB* is in use.

6.3 Temporary Removal of Blocking Facilities

Blocking Facilities may be temporarily removed in accordance with Rule 6003 Blocking Facilities.

6.4 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.

7. 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.

If the work is to exceed the agreed time, 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.

8. Ending ASB

Before ending the ASB the Protection Officer must make sure and tell the Network Controller that:

- all workers and equipment have Cleared the Danger Zone;
- Points operation has been restored; and
- Blocking Facilities can be removed and signals restored to normal use.

The *Network Controller* must make sure that the *Points* and signals are working correctly after the *Points* have been restored to normal operation.

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

9. Keeping Records

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

10. References

1004 Track Access Accreditation

4017 Overdue Occupancies

6003 Blocking Facilities

9000 Clipping Points

9010 Protecting Work from Rail Traffic on Adjacent Lines

9016 Written Authorities and Forms

11. Effective Date

01 October 2016

Network Safeworking Rules and Procedures

Lookout Working

Rule Number: 3013





Lookout Working

Rule Number: 3013

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Glossary for this Rule

Absolute Signal Blocking

(ASB)

A method used by Competent Workers to carry out work on track using controlled absolute signals set and kept at STOP, without a formally issued

work on track authority.

Adjacent Near to, close to, parallel to.

Aspect The displayed pattern or position of lights used to give a signal indication.

Audible Warning Device A device, such as a whistle, siren, horn or hooter, used to give warning.

Civil Infrastructure The track, track formation and drainage, and fixed structures beside, over or

under the track. The term includes supports for overhead electric traction equipment and supports for signalling and telecommunications equipment,

but not the equipment itself.

Clear A proceed indication displayed by a signal.

In reference to a track circuit, block, section or signal route, the absence of

rail traffic.

In reference to track workers being clear of track.

Competent Having the ability, skill and certification to carry out a relevant task.

Danger Zone Everywhere within 3m horizontally from the nearest rail and any distance

above or below this 3m, unless a safe place (see Safe Place) exists or has

been created.

Effective Communication The ability to successfully send, receive and understand information. The

communication does not need to be continuous.

Electrical Infrastructure may include:

Equipment and systems for supplying and distributing electricity

Wires, cables, electrical equipment, electrical switch rooms, signalling and

substations.

Handsignal A signal given by hand or lights movements, hand signals may be with or

without flags.

Infrastructure See civil infrastructure; electrical infrastructure; signalling infrastructure and

telecommunications infrastructure.

Light Tool or Device A tool that can be carried and easily removed by one person and is not

powered by cord or hose (e.g. compressed air, gas, electricity).

Local Possession Authority

(LPA)

An authority that closes a defined portion of track from non-associated rail

traffic for a specified period.

Location A place in the Network with a designated name, identification number, or

signalling reference.

Lookout A Competent Worker responsible for

· keeping watch for approaching rail traffic; and

 warning other workers to stand clear of the line before the rail traffic arrives.

Lookout Working A safety measure used by Competent Workers to carry out work on track

without a formally issued work on track authority.

Network ControllerA Competent Worker who authorises and issues Occupancy Authorities, and works points, signals and other signalling equipment to manage routes for

safe and efficient transit of rail traffic in the Network.

Permanent Record A record made in writing or in an electronic system, and kept for reference

and audit.

Points A track component consisting of paired pieces of tapered rail (blades) that

can be moved and set to allow tracks to diverge or converge.

Possession Protection The Competent Worker responsible for coordinating protection of worksites

Officer under a Local Possession Authority.

Protection The means used to prevent rail traffic from entering a worksite or other

portion of track, or to prevent road or pedestrian traffic entering a level

crossing.

Protection Officer The Competent Worker responsible for managing the rail safety component

of worksite protection (i.e. compliance with Network Safeworking Rules and

procedures).

Rail Corridor The land on which a railway is built; comprising all property between

property fences, or from the nearest rail in each direction for the distance

defined under the Brookfield Rail lease.

Rail Traffic Trains and track vehicle or vehicles travelling on the network.

Rail Traffic Crew Competent Workers responsible for the operation of the Motive Power Unit.

Safety Assessment An assessment process used to identify hazards for all work planned for the

Rail Corridor and its potential to intrude on the Danger Zone.

Safe Place A Safe Place is:

• where there is at least three metres clearance from the nearest Running Line;

on a Platform behind the safety lines;

within a purpose-built refuge or shelter;

 where a structure or physical barrier has been erected to provide a position of safety; or

immediately in front of stationary and Secured Rail Traffic.



Section The line between the departure end station limit of one location and the

arrival end station limit of another location. A section consists of one or more

blocks.

Sighting Distance The distance that someone can clearly see along the track.

Signalling and Communications Infrastructure Signalling equipment and telecommunications equipment used as part of the $\,$

safeworking and operating systems of the Network.

Station A system of tracks within station limits at the beginning or end of a section

at which rail traffic may cross, pass or run around.

Track The combination of rails, rail connectors, sleepers, ballast, points and

crossings.

Track Speed The allowed maximum speed for a portion of track.

Work on Track The work performed in the Danger Zone.

Wrong Running Direction The direction opposite to the normal direction of travel on unidirectional lines.

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 *Absolute Signal Blocking (ASB)* method is practical, this is the preferred method and must be applied in accordance with Rule 3011 Absolute Signal Blocking.

Only Network Controllers may authorise Lookout Working for Track under their control.

Lookouts are the only safety measure used in this method of Work On Track.

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

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 minimum *Protection Officer* Level 1 (PO1) *Competency* in accordance with Rule <u>1004 Track Access Accreditation</u>.

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



NOTE: 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.

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 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'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 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
- 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 *Work on Track* method is in place, the *Network Controller* may authorise *Lookout Working* only if the *Protection Officers* have consulted and agree that *Lookout Working* can be done within the existing method.



NOTE: If the existing *Work on Track* method 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:

- 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 *Lookouts* needed to *Protect* the work;
- make sure *Lookouts* do not perform their function continuously at the same *Location* for more than 60 minutes:
- rotate the *Lookouts*, and provide a break equivalent to the period the lookout duty was last performed, before resuming as a *Lookout*; and
- ensure that workers do not perform as a Lookout 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.

Obtaining Approval for Lookout Working

The Network Controller and the Protection Officer must confirm:

- the Location of the work;
- the type of work to be done;
- the duration of the work;
- the Protection Officer's name and contact details; and
- the name of the authorising *Network Controller*.

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

6. Protection



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

6.1 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*.



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

6.2 Noisy Machinery

Where the work involves noisy machinery 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 must be visible to the worker at all times.

6.3 Placing Lookouts

The Protection Officer must make sure:

- that the *Locations* of *Lookouts* and the visibility conditions give *Lookouts* enough *Sighting Distance* of approaching *Rail Traffic*;
- that Lookouts have Effective Communication with workers and an Audible Warning Device;
- that the Lookout has a backup Audible Warning Device; and
- that when *Rail Traffic* approaches, *Lookouts* 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* in each direction is permitted, distant Lookouts are not permitted.

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

6.4 Lookouts



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

Lookouts must be alert for *Rail Traffic* which is unexpected or comes from the *Wrong Running Direction*.

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

Lookouts 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 you cannot do this safely tell the *Protection Officer*,
- tell the *Protection Officer* if the *Lookout* 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* is in position; and
- tell the *Protection Officer* if conditions, such as visibility, change.

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



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

Lookouts must not:

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

6.5 Giving Warning

When Rail Traffic approaches the worksite the Lookout 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'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* face the approaching *Rail Traffic* and give an ALL *CLEAR Handsignal*, in accordance with Rule <u>2003</u> <u>Handsignals and Verbal Commands</u>, to the *Rail Traffic Crew*.

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

The *Lookout* must make sure that the line is *Clear* before telling the *Protection Officer* that it is safe for work to resume.

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.

7. 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* to provide warning for both directions then 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.

7.1. Example of How Warning Time is Calculated

Figure 3013-1 Calculation Table

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 7.2 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* 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.

7.2. Minimum Sighting Distance

Figure 3013-2 Sighting Distance table.

	Minimum Warning Time					
Maximum Track Speed	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.

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.

8.1 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.

9. 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.

10. Keeping Records

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

11. References

1004 Track Access Accreditation

2003 Handsignals and Verbal Commands

3011 Absolute Signal Blocking

4017 Overdue Occupancies

9010 Protecting Work from Rail Traffic on Adjacent Lines

12. Effective Date

1 Oct 2016

Network Safeworking Rules and Procedures

Infrastructure Booking Advice

Rule Number: 3015





Infrastructure Booking Advice

Rule Number: 3015

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Glossary for this Rule

Advertise To give written or electronic notice, usually in advance, of planned

activities.

Authority Formal name for a written Authority (e.g. Local Possession Authority,

Alternative Proceed Authority).

Certified Infrastructure or rolling stock that is fit for purpose.

Civil Infrastructure The track, track formation and drainage, and fixed structures beside, over

or under the track. The term includes supports for overhead electric traction equipment and supports for signalling and telecommunications

equipment, but not the equipment itself.

Commission To formally place into active service or use.

Electrical Infrastructure may include:

Equipment and systems for supplying and distributing electricity

Wires, cables, electrical equipment, electrical switch rooms, signalling and

substations.

Infrastructure See civil infrastructure; electrical infrastructure; signalling infrastructure

and telecommunications infrastructure.

Infrastructure Representative
An authorised Brookfield Rail employee or an organisation contracted to

Brookfield Rail, responsible for constructing or maintaining Network

infrastructure.

Issue To provide or send copies of authorities, warnings, notices and Network

publications to affected Competent Workers by voice, hand delivery or

electronic means.

Local Possession Authority

(LPA)

An authority that closes a defined portion of track for a specified period.

Network A combination of track and other associated infrastructure controlled by

Brookfield Rail.

Network Controller A Competent Worker who authorises and issues Occupancy Authorities,

and works points, signals and other signalling equipment to manage routes

for safe and efficient transit of rail traffic in the Network.

Possession Protection

Officer

The Competent Worker responsible for coordinating protection of worksites

under a Local Possession Authority.

Protection Officer The Competent Worker responsible for managing the rail safety component

of worksite protection (i.e. compliance with Network Safeworking Rules

and procedures).



Rail Traffic Trains and track vehicle or vehicles travelling on the Network.

Secure To safeguard against accidental or unauthorised access or movement.

Section The line between the departure end station limit of one location and the

arrival end station limit of another location. A section consists of one or

more blocks.

Signalling and Communications Infrastructure Signalling equipment and telecommunications equipment used as part of

the safeworking and operating systems of the Network.

Special Train Notice (STN) A notice issued by Brookfield Rail which contains safeworking information

for competent workers.

Track Occupancy Authority

(TOA)

An authority for Competent Workers and their equipment to occupy a

defined portion of track for a specified period.

Track Work Authority (TWA) An authority for non-exclusive occupancy of track by track workers and

equipment within a defined portion of track for a specified period..

Unauthorised Not given approval, or exceeding the limit of authority.

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*.

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 by the Issue of a Special Train Notice (STN).

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

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 *Track Occupancy Authority (TOA)* or *Track Work Authority (TWA)*, 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.

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 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

4 May 2016



11. Attachments

Infrastructure Booking Advice (IBA) form.

Brookfield Rail

Infrastructure Booking Advice (IBA)

(In accordance with Rule 3015 Infrastructure Booking Advice.)

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Network Safeworking Rules and Procedures

Track Vehicles

Rule Number: 3019





Track Vehicles

Rule Number: 3019

Document Control Identification

Document title	Number	Version	Date
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Brookfield Rail
1 October 2016



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Glossary for this Rule

Active Control Level

Crossing

A road or pedestrian level crossing where warning equipment warns road users and pedestrians about approaching rail traffic by devices such as

flashing lights or barriers.

Adjacent Near to, close to, parallel to.

Authority Formal name for a written Authority (e.g. Local Possession Authority,

Alternative Proceed Authority).

Aspect The displayed pattern or position of lights used to give a signal indication.

Blocking Facility A facility used by a Network Controller to prevent either the unintended

issue of an Occupancy Authority, or the operation of points or signalling

equipment.

Centralised Traffic Control

(CTC) Territory

The portions of line where the Centralised Traffic Control system of

Safeworking is used.

Centralised Traffic Control

(CTC)

A system where points and signals at a number of locations are remotely

controlled from a centralised control room or other locations along the

route.

Clear A proceed indication displayed by a signal.

In reference to a track circuit, block, section or signal route, the absence of

rail traffic.

In reference to track workers being clear of track.

Competent Having the ability, skill and certification to carry out a relevant task.

Competent Worker A worker certified as competent to carry out a relevant task.

Controlled Absolute Signal A signal that is controlled or operated by a Network Controller. The signal

must not be passed at STOP without authority.

Convoy A group of track vehicles not coupled but travelling closely together under a

single Occupancy Authority.

Controlled Speed Controlled speed is a speed that allows rail traffic to stop short of an

obstruction within half the distance of clear line that is visible ahead.

Delegate A Competent Worker authorised and designated to act in place of another.

Derail Device A device intended to guide the wheels of rail traffic off the rails to protect a

running line.

Disabled Unable to travel due to a defect.

Dual Gauge Track Track that allows rail traffic of different gauges to transit using a common

rail.



Effective Communication The ability to successfully send, receive and understand information. The

communication does not need to be continuous.

End-of-Train Marker A device, including tail lights, fitted to the trailing end of the last vehicle of

a rail traffic consist to indicate the end of the consist.

Fit for Purpose Able to be used for the function required.

Fixed Signal A signal that is located permanently near the line.

Fulfil To advise the Network Controller that the instructions on, and associated

activities for, an Occupancy Authority have been completed and can be

terminated.

Handsignal A signal given by hand or lights movements, hand signals may be with or

without flags.

Handsignaller A Competent Worker who gives handsignals to rail traffic crew

Hazard Light Amber or orange flashing light fitted to a vehicle to provide warning.

Headlights Lights fitted at the front of rail traffic to provide visibility for the rail traffic

crew and to improve the visibility of rail traffic.

Infrastructure See civil infrastructure; electrical infrastructure; signalling infrastructure

and telecommunications infrastructure.

Intermediate Siding A siding located within a section, generally used for purposes other than

crossing or passing of rail traffic.

Issue To provide or send copies of authorities, warnings, notices and Network

publications to affected Competent Workers by voice, hand delivery or

electronic means.

Level Crossing A location where the railway line and a road or pedestrian walkway cross

paths on the same level (at grade).

Light Tool or Device A tool that can be carried and easily removed by one person and is not

powered by cord or hose (e.g. compressed air, gas, electricity).

Limit of Authority The limit may be defined by a sign, a signal capable of displaying a STOP

indication, or a specific kilometrage point on a line.

It defines the location to which rail traffic may travel under a Proceed

Authority or the limits of a work on track authority.

Local Possession Authority

(LPA)

An authority that closes a defined portion of track from non-associated rail

traffic for a specified period.

Location A place in the Network with a designated name, identification number, or

signalling reference.

Manual Block Working A method of working, which ensures sole occupancy by administratively

maintaining the block for rail traffic movements where the control system

cannot.

Network A combination of track and other associated infrastructure controlled by

Brookfield Rail.

Network Controllers A Competent Worker who authorises and issues Occupancy Authorities,

and works points, signals and other signalling equipment to manage routes

for safe and efficient transit of rail traffic in the Network.

Pilot To direct or guide rail traffic crews and tell them about local conditions and

operating restrictions on running lines and at worksites.

Platform A designated raised or level area, next to the line, that allows passengers to

enter and leave trains.

Points A track component consisting of paired pieces of tapered rail (blades) that

can be moved and set to allow tracks to diverge or converge.

Possession Protection

Officer

The Competent Worker responsible for coordinating protection of worksites

under a Local Possession Authority.

Permanent Record A record made in writing or in an electronic system, and kept for reference

and audit.

Protecting Signal A fixed signal that is held and maintained at Stop to prevent rail traffic entry

into a worksite.

A signal that protects a train from conflicting movements and/or

obstructions.

Protection The means used to prevent rail traffic from entering a worksite or other

portion of track, or to prevent road or pedestrian traffic entering a level

crossing.

Protection Officer The Competent Worker responsible for managing the rail safety component

of worksite protection (i.e. compliance with Network Safeworking Rules

and procedures).

Rail Corridor The land on which a railway is built; comprising all property between

property fences, or from the nearest rail in each direction for the distance

defined under the Brookfield Rail lease.

Rail Traffic Trains and track vehicle or vehicles travelling on the network.

Restricted Speed Restricted speed is a speed that allows rail traffic to stop short of an

obstruction within half the distance of clear track that is visible ahead.

Restricted speed must not exceed 25 km/h.



Road Rail Vehicle A road vehicle fitted with additional rail gear that enables the vehicle to be

driven on rail.

Route The rail traffic path from one limit of authority to the next in the direction of

travel.

Running Line A line (other than a siding) that is used for through movement of rail traffic,

not normally used for stabling rail vehicles.

Safe Braking Distance A distance indicated to rail traffic that would allow rail traffic to stop with

the application of normal service braking.

Secure To safeguard against accidental or unauthorised access or movement.

Section The line between the departure end station limit of one location and the

arrival end station limit of another location. A section consists of one or

more blocks.

Set Back To move in the reverse direction to that provided in the current Proceed

Authority.

Shunt To move rail traffic, rakes of vehicles, or vehicles on lines for purposes

other than through movement.

Siding A portion of track where vehicles can be placed clear of the running lines.

Also see intermediate siding.

Special Train Notice (STN) A notice issued by Brookfield Rail which contains safeworking information

for competent workers.

Stable To leave rail traffic unattended and secured, usually in a siding.

Station Limits A defined operational limit of controlled locations or a running line.

Tail Lights Red lights used as to designate the end of rail traffic. (see also end-of-train

markers).

Track The combination of rails, rail connectors, sleepers, ballast, points and

crossings.

Track-Circuit An electric circuit where current is carried through the rails and used to

detect the presence of trains. Track-circuits are used in the operation and

control of points, signalling and level crossing equipment.

Track-Circuit Shorting Device A cable that can be clamped to a line's rails to activate track-circuits.

Track Occupancy Authority

(TOA)

An authority for Competent Workers and their equipment to occupy a

defined portion of track for a specified period.

Track Speed The allowed maximum speed for a portion of track.

Track Vehicle A vehicle, usually self-propelled, used for inspecting and/or maintaining

infrastructure.

Track Vehicle Operator A Competent Worker controlling the movement of a track vehicle.



Train Order An authority issued by the Network Controller for the movement of rail

traffic.

Train Order Territory The portions of line where the Train Order system of Safeworking is used.

Travel Planned or purposeful movement from one location to another.

Unauthorised Not given approval, or exceeding the limit of authority.

Uni-Directional Allowing for normal travel in one direction only according to the

infrastructure and system of Safeworking in use.

Whistle A device such as a bell, whistle, siren, horn or hooter, fitted to rail traffic to

give audible warning.

1. Purpose

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

2. General

Track Vehicles include:

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

Prior notice must be given by *Special Train Notice (STN)* when *Track* maintenance machines are to run or work on a *Running Line*.

Competent Workers in charge of *Track Vehicles* must act in accordance with Rule <u>2027</u> 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 General Manager *Infrastructure* or *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 Manager Engineering 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 *Track Vehicle Operator* must make sure the vehicle carries:

- one red and one yellow flag;
- at least 36 RTS;
- an approved Track-Circuit Shorting Device; and
- Safeworking forms as necessary.

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 Track Occupancy Authority (TOA).

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 *Manual Block Working* conditions, in accordance with Rule 5023 Manual Block Working.

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.

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.

Approved *Track Vehicles Travelling* on signal indications must be directly supervised by a worker who is *Competent* as a *Protection Officer* Level 3 (PO3).

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
- get the *Protection Officer's* authority before entering into a *Work on Track Authority Location* or traversing a worksite within a *Work on Track Authority*.

6.1 Authority for Road Rail Vehicles to Travel

Road Rail Vehicles must be authorised to *Travel* on a *Road Rail Vehicle Authority (RRVA)* issued by the *Network Controller* responsible for that area.

Where a Road Rail Vehicle is authorised to follow a Rail Traffic movement that it is not Travelling in Convoy with, the Competent Worker must not permit the Road Rail Vehicle to follow within 200 metres of that Rail Traffic. The Network Controller must advise the Rail Traffic Crew that a Road Rail Vehicle is following their Rail Traffic.

6.1.1 Obtaining a Road Rail Vehicle Authority (RRVA)

The Competent Worker in charge of a Road Rail Vehicle must obtain an RRVA from the Network Controller responsible for the area over which the vehicle is to Travel.

Before authorising an RRVA, the Network Controller must make sure that:

- in Train Order Territory, no Train Order has been Issued for an opposing movement;
- any Rail Traffic holding a Uni-Directional Authority has cleared the starting point of the proposed RRVA and will not be returning;
- the Competent Worker knows about existing obstructions;
- the Competent Worker understands and agrees to the limits of the RRVA;

The Network Controller and the Competent Worker in charge of a Road Rail Vehicle must confirm and record on the RRVA:

- the proposed RRVA limits:
- a unique identifying number;
- the gauge of the Road Rail Vehicle;
- that Blocking Facilities have been applied, in accordance with Rule 6003 Blocking <u>Facilities</u>, to prevent entry of Rail Traffic into the portion of Track occupied by the Road Rail Vehicle;
- the name of the *Competent Worker* in charge of a *Road Rail Vehicle* and contact details:
- the name of the Issuing Network Controller,
- 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 RRVA;
- ensure that all Points are correctly set; and
- obtain the Network Controller's verbal authority to proceed.

6.1.2 Road Rail Vehicle stopping for work

The *Protection* provided by the *RRVA* 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.

6.1.3 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 RRVA.

6.1.4 Fulfilling a Road Rail Vehicle Authority (RRVA)

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

- arrived at the end of the RRVA; 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 RRVA as Fulfilled.

6.2 Authority for Track Maintenance Machines to Travel

Track maintenance machines *Travel* only:

- in Centralised Traffic Control (CTC) Territory, on the authority of Fixed Signals; or
- in Train Order Territory, on a Train Order.

Fixed Signal Aspects displayed to the first vehicle apply to all Track Vehicles in the Convoy.

Track Vehicles must not Set Back without the authority of the Network Controller.

After the *Track Vehicles* have passed the *Protecting Signal*, the *Network Controller* must ensure the *Protecting Signal* is at STOP and *Blocking Facilities* applied, in accordance with Rule 5023 Manual Block Working.

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* by the use of one or more of the following:

- sending two-way radio messages;
- flashing the Track Vehicle's lights;
- sounding the Track Vehicle's Whistle repeatedly;
- 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

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;
- 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

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.

Disabled Track Vehicles

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

10. Overdue Track Vehicle

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

11. Travelling Through LPA or TOA Limits

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

Track Vehicles entering or Travelling within the limits of the Work on Track 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 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.

If a Road Rail Vehicle must Travel behind Rail Traffic in a Section, it must Travel at Controlled Speed.

13. Headlights

Headlights must be switched on 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 Brookfield Rail Manager Network Operations authority.

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 Vehicle Stopping for Work

Track Vehicles stopping for work must be protected using a Work on Track 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

5023 Manual Block Working

6003 Blocking Facilities

6013 Passing Fixed Signals at Stop

9006 Piloting Rail Traffic

9010 Protecting Work from Rail Traffic on Adjacent Lines

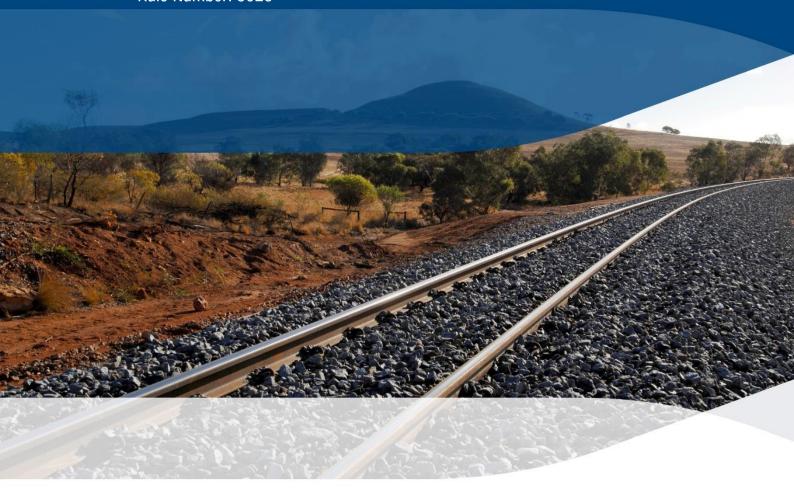
20. Effective Date

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Network Safeworking Rules and Procedures

Train Order System Blocking

Rule Number: 3023





Train Order System Blocking

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Glossary for this Rule

Access A designated safe way into, along, across or out of the Rail Corridor.

Adjacent Near to, close to, parallel to.

Authority Formal name for a written Authority (e.g. Local Possession Authority,

Alternative Proceed Authority).

Blocking Facility A facility used by a Network Controller to prevent either the unintended

issue of an Occupancy Authority, or the operation of points or signalling

equipment.

Clear A proceed indication displayed by a signal.

In reference to a track circuit, block, section or signal route, the absence of

rail traffic.

In reference to track workers being clear of track.

Competent Having the ability, skill and certification to carry out a relevant task.

Complete Rail traffic where the consist has not parted.

Danger Zone Everywhere within 3m horizontally from the nearest rail and any distance

above or below this 3m, unless a safe place (see Safe Place) exists or has

been created.

Issue To provide or send copies of authorities, warnings, notices and Network

publications to affected Competent Workers by voice, hand delivery or

electronic means.

Level Crossing A location where the railway line and a road or pedestrian walkway cross

paths on the same level (at grade).

Local Possession Authority

(LPA)

An authority that closes a defined portion of track from non-associated rail

traffic for a specified period.

Location A place in the Network with a designated name, identification number, or

signalling reference.

Lookout A Competent Worker responsible for

keeping watch for approaching rail traffic; and

warning other workers to stand clear of the line before the rail

traffic arrives.



Network A combination of track and other associated infrastructure controlled by

Brookfield Rail.

Network Controller A Competent Worker who authorises and issues Occupancy Authorities,

and works points, signals and other signalling equipment to manage routes

for safe and efficient transit of rail traffic in the Network.

Obstruct To make a line unsafe for the passage of rail traffic by the placing of tools,

equipment or plant on the track.

Permanent Record A record made in writing or in an electronic system, and kept for reference

and audit.

Points A track component consisting of paired pieces of tapered rail (blades) that

can be moved and set to allow tracks to diverge or converge.

Possession Protection

Officer

The Competent Worker responsible for coordinating protection of worksites

under a Local Possession Authority.

Protection The means used to prevent rail traffic from entering a worksite or other

portion of track, or to prevent road or pedestrian traffic entering a level

crossing.

Protection Officer The Competent Worker responsible for managing the rail safety component

of worksite protection (i.e. compliance with Network Safeworking Rules

and procedures).

Rail Traffic Trains and track vehicle or vehicles travelling on the Network.

Rail Traffic Crew Competent Workers responsible for the operation of the Motive Power Unit.

Safe Place A Safe Place is:

 where there is at least three metres clearance from the nearest Running Line;

on a Platform behind the safety lines;

within a purpose-built refuge or shelter;

 where a structure or physical barrier has been erected to provide a position of safety; or

• immediately in front of stationary and Secured Rail Traffic.

Safety Assessment An assessment process used to identify hazards for all work planned for

the Rail Corridor and its potential to intrude on the Danger Zone.

Section The line between the departure end station limit of one location and the

arrival end station limit of another location. A section consists of one or

more blocks.

Secure To safeguard against accidental or unauthorised access or movement.



Signalling and Signalling equipment and telecommunications equipment used as part of the safeworking and operating systems of the Network.

Infrastructure

Stable To leave rail traffic unattended and secured, usually in a siding.

Station A system of tracks within station limits at the beginning or end of a section

at which rail traffic may cross, pass or run around.

Track The combination of rails, rail connectors, sleepers, ballast, points and

crossings.

Track Vehicle A vehicle, usually self-propelled, used for inspecting and/or maintaining

infrastructure.

Train A locomotive or self-propelled vehicle, alone or coupled to one or more

vehicles. Rail Traffic.

Train Order An authority issued by the Network Controller for the movement of rail

traffic or issue of LPA track work authorities.

Train Order System Blocking A facility used by a Rail Traffic Controller to protect rail traffic, track

workers and prevent the unintended issue of an Occupancy Authority on

the Train Order system.

Train Order Territory The portions of line where the Train Order system of Safeworking is used.

Unauthorised Not given approval, or exceeding the limit of authority.

Uni-Directional Allowing for normal travel in one direction only according to the

infrastructure and system of Safeworking in use.

Work on Track The work performed in the Danger Zone.

Work on Track Authority An authority to perform work on track. See Local Possession Authority

(LPA); Track Occupancy Authority (TOA) and Track Work Authority (TWA),

1. Purpose

The object of this Rule is to detail the procedures for *Train Order System Blocking (TOSB)* used as a method of working in the *Danger Zone* in *Train Order Territory*

General

The *TOSB* method of *Protection* must be applied to the computerised *Train Order* system only.

Blocking Facilities, in accordance with Rule <u>6003 Blocking Facilities</u>, on the *Train Order* System (TOS) prevent *Train Orders* being *Issued*.

TOSB is used to exclude Rail Traffic from a portion of Track.

The *TOSB* method must not be used for work that breaks the *Track* or alters *Track* geometry or structure.

Only Network Controllers may approve TOSB for Track under their control.

The *Protection Officer* applying this Rule must have a minimum *Protection Officer* Level 1 (PO1) *Competency* in accordance with Rule <u>1004 Track Access Accreditation</u>.



WARNING: If the *Safety Assessment* shows that a *Work on Track Authority* is necessary, work must not be done using the *TOSB* method.

If a *Safety Assessment* shows that it is safe, some kinds of work may be done in the *Danger Zone* without a *Work on Track Authority. TOSB* is one of those methods of working.

TOSB may be used only:

- to allow livestock to cross the *Track*:
- for work not requiring tools;
- for work using tools which can be easily and immediately removed from the *Track* by **one worker** without mechanical assistance;
- work involving light tools powered by a cord or hose (i.e compressed air, gas or electricity);
- at Level Crossings, to allow vehicles to cross the Track; or
- to allow vehicles to directly cross the *Track*.

If *TOSB* is used, one worker may work alone. In this case, that worker is also the *Protection Officer*.

3. Authorisation

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

- a *Track Occupancy Authority* is not in use within the proposed limits;
- any 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 Protection Officer.
 - with the Rail Traffic Crew, the Location of their Rail Traffic; or
 - that the Section is Clear.
- Stabled Rail Traffic that is within the limits of the TOSB, must not be authorised to move;
- the Protection Officer knows about any existing Obstructions; and
- Blocking Facilities have been applied to prevent *Unauthorised Rail Traffic* entry into the proposed limits.



WARNING: The *Network Controller* must not permit *TOSB* if there is any doubt about the *Location* of the proposed worksite.

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
- Location using two or more of the following identifiers:
 - a kilometre sign and Section;
 - Station name;
 - permanent structures, such as a bridge, roadway or overpass used only in conjunction with one of the above identifiers; or
 - another identifier.



3.1 Joint Occupancy

A TOSB cannot be authorised for a portion of track where a Track Occupancy Authority (TOA) is current.

The *Network Controller* may authorise a TOSB for a portion of Track where another *TOSB* or *TWA* is current.

The *Network Controller* may Issue the TOSB only if the *Protection Officers* have consulted and agree that a TOSB may be issued.



NOTE: Where a Local Possession Authority is in place, only the *Possession Protection Officer* for that LPA can approve the work.

4. Protection Officer

A *Protection Officer* is required for the period of the work, except if the *TOSB* is used to allow livestock or vehicles to directly cross the *Track*; in these circumstances the *Network Controller* may apply *TOSB*.

A Protection Officer must:

- make sure that work in the *Danger Zone* does not begin before the required safety measures are in place;
- before work begins, tell workers about the:
 - types and limits of *Protection* in place;
 - Locations of Safe Places;
- be responsible for the Protection of workers from Rail Traffic;
- make sure the *Tracks* between worksites and *Protecting Locations* remain *Clear* of *Obstructions*; and
- confirm with the *Network Controller* that *Blocking Facilities* have been applied to prevent the *Unauthorised* entry of *Rail Traffic*.



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

4.1 Request for TOSB from a Person Other than the Protection Officer

The *Network Controller* may apply *TOSB* to allow 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 entry point and the proposed worksite and any *Rail Traffic* that has passed the worksite will not return;
- apply Blocking Facilities to the Train Order system;
- advise the person of the arrangements and authorise the work; and
- when told that the area is Clear, remove the Blocking Facilities.

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; and
- make a Permanent Record of the handover.

Obtaining Approval for TOSB

The *Network Controller* and the *Protection Officer* must confirm and record on the Blocking Request for *Work on Track* form:

- the Location of the work;
- · 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 Blocking ID number from the Train Order System;
- the Points to be clipped, in accordance with Procedure 9000 Clipping Points, if required;
- the duration of the work;
- the Protection Officer's name and contact details:
- the approving Network Controller's name;
- the time of approval; and
- the date of approval.

When the *TOSB* is approved the *Protection Officer* must ensure the required *Protection* is in place before work commences.

6. Protection



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

The worksite must be a minimum of 500 metres from the *Protecting* limits, unless:

- · Points are Secured to prevent Rail Traffic Access; or
- an easily reached Safe Place is 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 TOSB limits.

6.1 Network Controller

The Network Controller must confirm with the Protection Officer that:

- Blocking Facilities have been applied;
- the line is *Clear* between the *Protecting* limits and the proposed worksite; and
- any Rail Traffic that has passed Complete beyond the worksite will not return.

Network Controllers must not authorise movements into portions of line where TOSB is in use.

6.2 Temporary Removal of Blocking Facilities

Blocking Facilities may be temporarily removed in accordance with Rule 6003 Blocking Facilities.

6.3 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.

7. Communications with Network Control

The *Protection Officer* must be the only point of contact between the *Network Controller* 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.

If the work is to exceed the agreed time, the *Protection Officer* must seek an extension of time.

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

8. Ending TOSB

Before ending the *TOSB* the *Protection Officer* must make sure and tell the *Network Controller* that:

- all workers and equipment have Cleared the Danger Zone;
- Points securing devices have been removed;
- Blocking Facilities can be removed.

When told by the *Protection Officer* that the *Track* is *Clear* the *Network Controller* can remove the *Blocking Facilities*.

The Network Controller must confirm with the Protection Officer that the Points are working correctly after the Points have been restored to normal operation.

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

9. 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.



10. References

1004 Track Access Accreditation

4017 Overdue Occupancies

6003 Blocking Facilities

9000 Clipping Points

9010 Protecting Work from Rail Traffic on Adjacent Lines

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01 October 2016

Network Safeworking Rules and Procedures

Temporary Speed Restrictions

Rule Number: 3025





Temporary Speed Restrictions

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Glossary for this Rule

Bi-Directional

Normal movement of rail traffic in either direction according to the infrastructure and system of Safeworking in use.

Civil Infrastructure

The track, track formation and drainage, and fixed structures beside, over or under the track. The term includes supports for overhead electric traction equipment and supports for signalling and telecommunications equipment, but not the equipment itself.

Condition Affecting the Network (CAN)

A situation or condition that affects or has potential to affect the safety of the Network.

Driver Information System

A system that can provide Rail Traffic Crews with:

- Train Consist
- Temporary Speed Restrictions
- Permanent Speed Restrictions
- Standard Timetable
- Train Notices
- Instructions
- Track Warnings
- Vehicle Restrictions

Electrical Infrastructure

may include:

Equipment and systems for supplying and distributing electricity

Wires, cables, electrical equipment, electrical switch rooms, signalling and substations.

Infrastructure

See civil infrastructure; electrical infrastructure; signalling infrastructure and telecommunications infrastructure.

Infrastructure Representative

An authorised Brookfield Rail employee or an organisation contracted to Brookfield Rail, responsible for maintaining network infrastructure.

Issue

To provide or send copies of authorities, warnings, notices and Network publications to affected Competent Workers by voice, hand delivery or electronic means.



Network Controller A Competent Worker who authorises and issues Occupancy Authorities,

and works points, signals and other signalling equipment to manage routes

for safe and efficient transit of rail traffic in the Network.

Normal Speed A speed that does not exceed the speed limit currently in effect for the

location and type of rail traffic.

Permanent Record A record made in writing or in an electronic system, and kept for reference

and audit.

Rail Traffic Trains and track vehicle or vehicles travelling on the network.

Rail Traffic Crew Competent Workers responsible for the operation of the Motive Power Unit.

Route The rail traffic path from one limit of authority to the next in the direction of

travel.

Temporary Speed Restriction

(TSR)

An imposed reduction of the normal speed for a portion of track.

Track The combination of rails, rail connectors, sleepers, ballast, points and

crossings.

Track Speed The allowed maximum speed for a portion of track.

Track Workers Competent rail safety workers whose primary duties are associated with

work on or around infrastructure in the Rail Corridor.

Travel Planned or purposeful movement from one location to another.

Section The line between the departure end station limit of one location and the

arrival end station limit of another location. A section consists of one or

more blocks.

Signalling and Communications

Infrastructure

Signalling equipment and telecommunications equipment used as part of

the safeworking and operating systems of the Network.

Special Train Notice (STN) A notice issued by Brookfield Rail which contains safeworking information

for competent workers.

Uni-Directional Allowing for normal travel in one direction only according to the

infrastructure and system of Safeworking in use.

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 Issue of a Special Train Notice (STN);
- 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
20	Temporary Speed Restriction Ahead signs are diamond shaped with a yellow background and a horizontal black stripe. This sign is placed 2500 metres before a Temporary Speed Restriction Start sign. Placed below the Temporary Speed Restriction Ahead sign is a Maximum Speed sign displaying the maximum speed permitted for the restricted area.	Rail Traffic should Proceed, being prepared to Travel at the speed indicated on the Maximum Speed sign placed below the Speed Restriction Ahead sign. Note: If no maximum speed sign is displayed below the Temporary Speed Restriction Ahead sign, Rail Traffic Crews must be prepared to reduce speed as detailed in the Drivers Information documentation, or where this is not available, to 15km/h over the TSR.

3.2 Temporary Speed Restriction Start Sign

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

3.3 Temporary Speed Restriction End Sign

Sign	Description	Required Action
	Temporary Speed Restriction End signs are white and circular. This sign is placed 50 metres beyond the Temporary Speed Restriction area.	Rail Traffic can return to the authorised Track Speed, once the Rail Traffic Consist has passed beyond the Temporary Speed Restriction End sign.
	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> .	

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

TSRs 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.

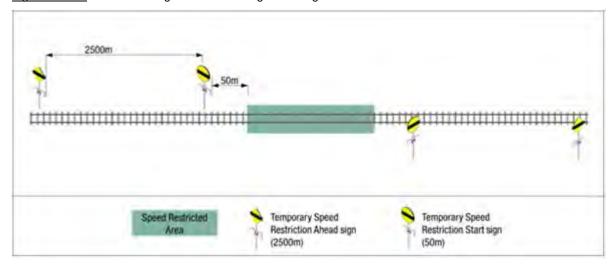
Where the distance between *TSRs* will not permit the clear separation of signs then the lower speed must apply from the first *TSR* to the end of the lowest *TSR*, then:

- 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 signs is not required and a *Temporary Speed Restriction* sign with the higher Maximum Speed sign must be place at the start of that *TSR*.

4. General Arrangement of TSR Signs

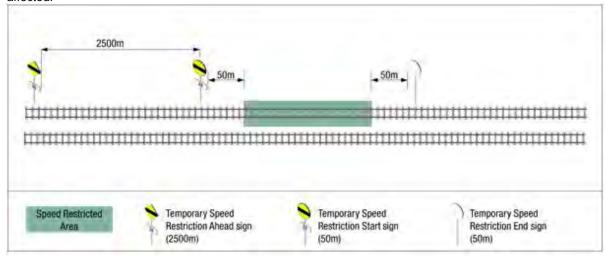
Figure 3025-1 General arrangement of TSR signs for single Bi-Directional track.



2500m 50m Speed Restricted Temporary Speed Temporary Speed Temporary Speed Restriction Ahead sign Restriction Start sign Restriction End sign Area (2500m) (50m) (50m)

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.

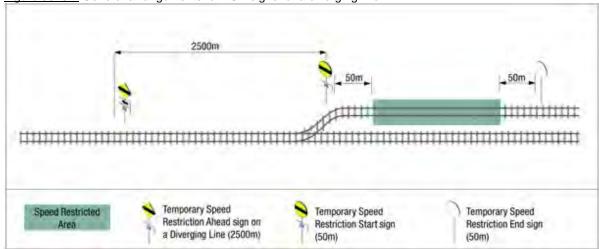


4.1 Diverging Routes

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 TSRs.

6. References

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

7. Effective Date

4 May 2016