Penrith – Wallerawang

Network Control

Signallers at Outer Metropolitan Control Centre (OMCC), Penrith, Lithgow Coal Stage, Lithgow Yard and Network Controller UGLRL (Mayfield).

Systems of Safeworking

The Main line between Penrith and Wallerawang is Rail Vehicle Detection (RVD) territory. It includes the sections:

Section	System	Details
Penrith–Springwood	RVD double-line	
Springwood–Lawson	RVD double-line	
Lawson–Katoomba	RVD double-line	
Katoomba–Mount Victoria	RVD double-line	
Mount Victoria–Newnes Junction	RVD double-line	
Newnes Junction– Edgecombe	RVD double-line	
Edgecombe–Zig Zag	RVD double-line bidirectional	Half-staffs and X, Y and Z keys available
Zig Zag–Lithgow	RVD double-line	
Lithgow–Wallerawang	RVD double-line	



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Penrith-Wallerawang

Diagram

Location details



Penrith 54.986km (NLA 210)

- ① Up Main line (Lidcombe–Penrith)
- ② Down Main line (Lidcombe-Penrith)
- 3 Down Main line
- 4 Up Main line
- 59.201km Up Main line End ATP
- 59.258km Down Main line Begin ATP
- 63.515km Lapstone. Platforms 1, 2
- 65.248km Glenbrook

Glenbrook 66.994km



- ! Can be switched in
- 66.994km Glenbrook. Platform 1 and 2
- 67.226km Network access
- \neg 67.239km Up BLOCK JOINT sign on Up Main line
- ⚠ If either release is taken, rail traffic in the approach track-circuit for signal 42.6 will not be shown in the track indicator diagram
- Signals set at STOP by taking a release: Down signals 41.3 and 41.7; Up signals 42.6 and 42.0
- 67.253km Emergency crossover Down Main line to Up Main line: operated by frame A, released by Up or Down track-circuits
- |/| 67.339km Emergency crossover Up Main line to Down Main line: operated by frame A, released by Up or Down track-circuits



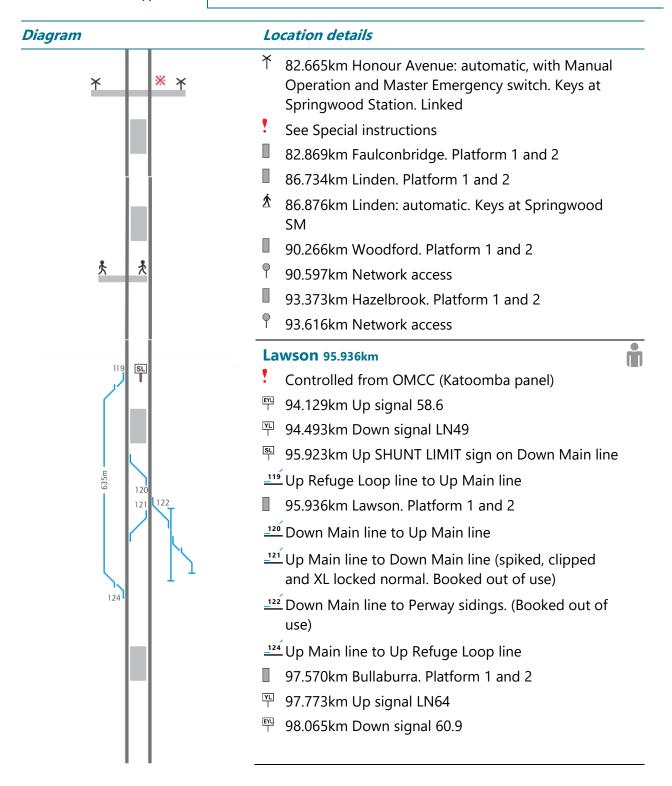
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Penrith-Wallerawang

Diagram Location details 71.403km Blaxland. Platform 1 and 2 74.217km Warrimoo, Platform 1 and 2 Springwood 79.604km MARNING: This location has narrow track clearances. Controlled from OMCC (Katoomba panel) 75.843km Down signal SD1 76.309km Up SHUNT LIMIT sign on Down Main line 76.542km Up signal 47.6 Down Main line to Up Main line 102 104 Down Main line to Down Refuge siding **B** 77.087km Down Refuge siding to Down siding: key from releasing switch B, released from the signal box Down siding to Museum siding NSW Rail Transport Museum private sidings SL The siding owners control rail traffic movements in the Museum siding and NSW Rail Transport Museum private sidings 77.323km Valley Heights. Platform 1 and 2 $^{\$\!\!1}$ 77.493km Down SHUNT LIMIT sign on Up Main line 77.524km Down Refuge siding to Down siding: key from releasing switch C, released from the signal box Down Refuge siding to Down Main line Down Main line to Up Main Line 79.604km Springwood. Platform 1 and 2 79.779km Network access 80.205km Springwood: automatic. Keys at Springwood Station 118 ¹¹⁸ Down Main line to Up Main Line 80.674km Down SHUNT LIMIT sign on Down Main line 80.829km Faulconbridge: automatic. Keys at **Springwood Station** 80.968km Bearing and Brake Temperature System (BBT), Up and Down Main lines ř ď 81.720km Down signal 50.9 82.093km Up signal SD46

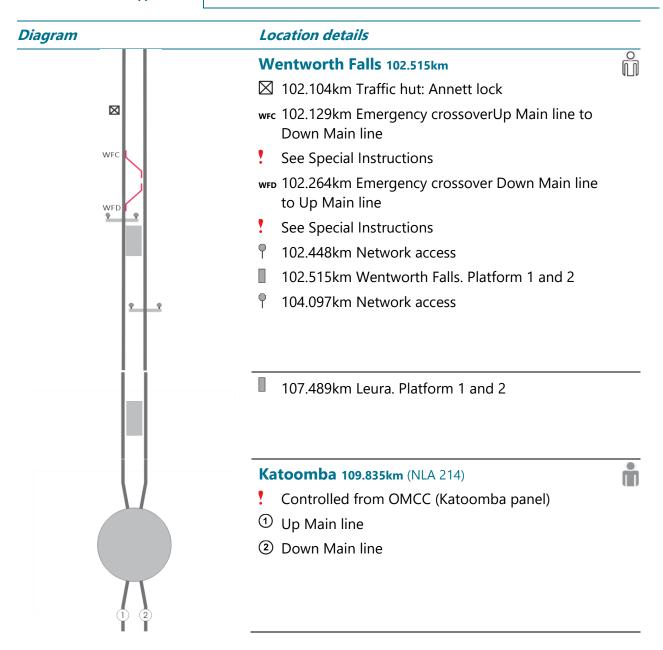


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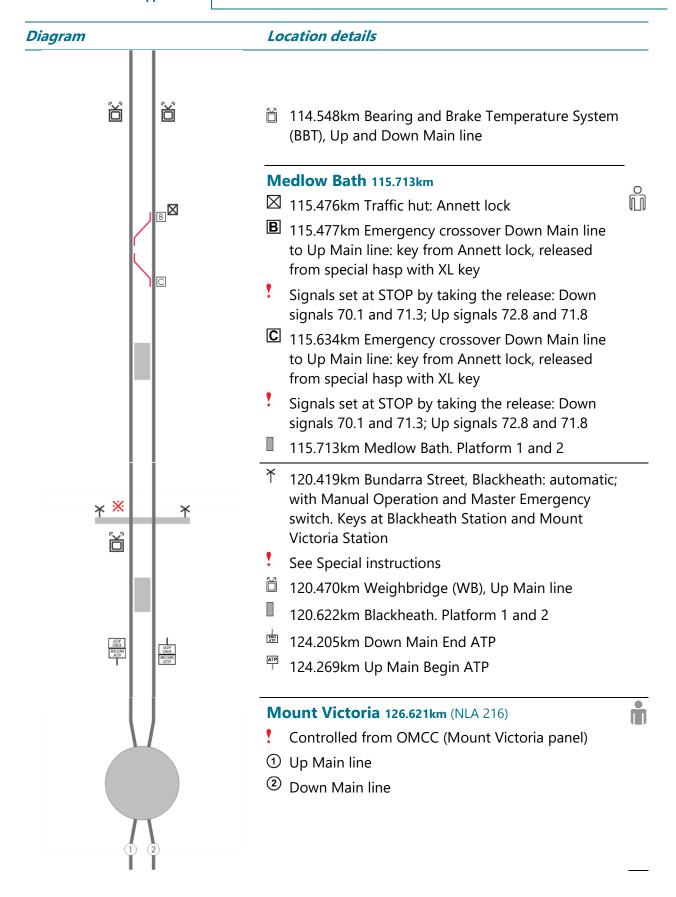


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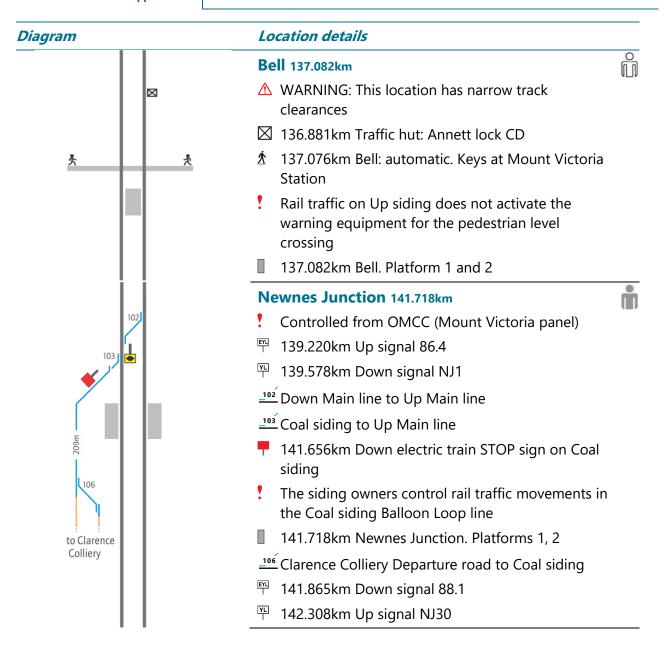


Network Local Appendices





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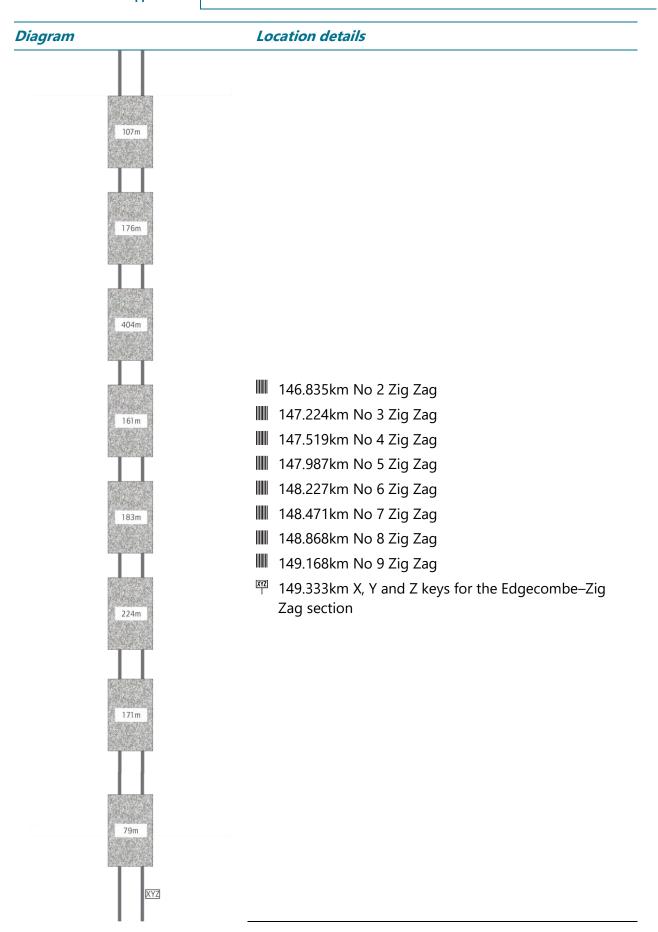
Network Local Appendices

Penrith-Wallerawang

Location details Diagram Edgecombe 145.305km Controlled from Lithgow Coal Stage See Special Instructions 144.077km Down signal 89.5 [™] 144.280km Up signal 89.6 The half pilot staffs for the Edgecombe–Zig Zag section are inscribed "EDGECOMBE 90.3 DOWN 551 m MAIN" and "EDGECOMBE 90.3 UP MAIN" _6 Down Main line to Up Main line _____ Down Main line to Up Main line 145.817km No 1 Zig Zag 146.523km YL/EYL: Up signal U91.0 ₱ 146.548km EYL/YL: Up signal D91.0

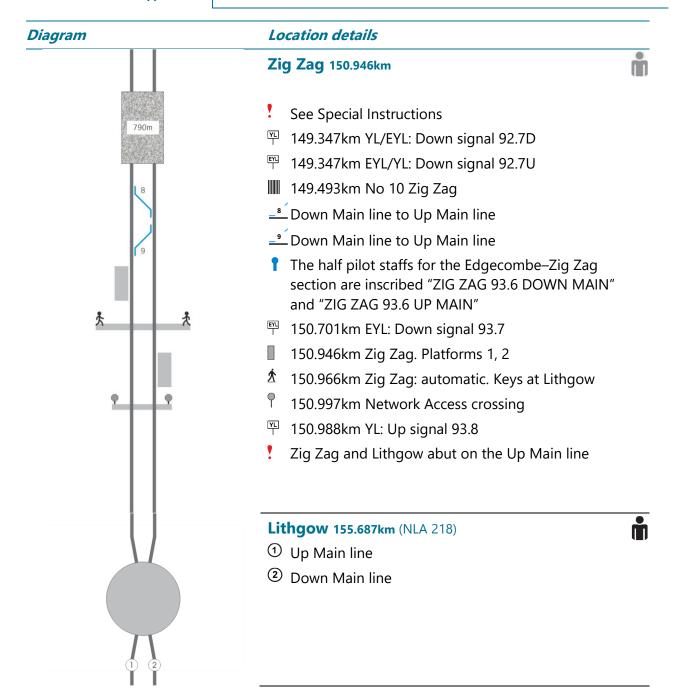


Network Local Appendices





Network Local Appendices

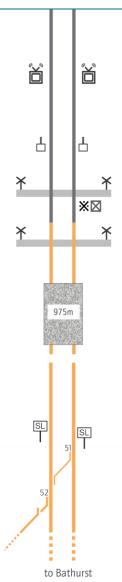




Network Local Appendices

Penrith-Wallerawang

Diagram



Location details

- 156.538km Bearing and brake temperature system: broadcasts WB radio message and reports to Lithgow Coal Stage. Signaller tells Network Controller and warns Train Crew
- ☐ 156.550km 2 x Down electric train STOP signs on Down and Up Main lines
- ↑ 158.098km Geordie Street, Bowenfels: automatic, with Manual Operation switch. Keys at Lithgow Yard signal box
- □ 158.120km Traffic hut
- 161.840km Oakey Forest Road, Marrangaroo: automatic. Keys at CRN depot Bathurst
- ▲ WARNING: This location has narrow track clearances
- 164.822km Marrangaroo

Wallerawang 171.175km





- 167.240km YL: Down signal WG1
- § 167.770km Up SHUNT LIMIT sign on Up Main line
- 168.747km Up SHUNT LIMIT sign on Down Main line

 168.747km Up SHUNT LIMIT sign on Down Main line
- _51´ Down Main line to Up Main line
- Lidsdale Branch line to Up Main line



Penrith-Wallerawang

Special instructions

Signal Key Switches (Emu Plains – Valley Heights)

Signal Key Switches are fitted to the automatic signals listed in the table below.

Signal Key Switch may be used for worksite protection in accordance with the following Network Rule & Procedures:

- NWT 306 Track Work Authority
- NWT 320 Signal Key Switch Blocking
- NPR 702 Using a Track Work Authority
- NPR 753 Using Signal Key Switch Blocking
- NPR 754 Using a Signal Key Switch

Line	Worksite limits	First affected signal/s	Protecting signal fitted with a Key Switch	
	Signal 38.9 to Signal 41.7		38.9 (Lapstone)	
Down Main	Signal 41.7 to Signal SD1 (follow additional requirements)	38.3 on the Down Main		
	Signal 42.6 to Signal 42.0	42.6 on the Up		
Up Main	Signal 42.0 to 36.6 (follow additional requirements)	43.6 on the Up Main	42.6 (Glenbrook)	

Additional requirements when establishing Signal Key Switch Blocking

When establishing a worksite using Signal Key Switch Blocking on the:

- Down Main line between Signal 41.7 and Signal SD1
- Up Main line between Signal 42.0 and Signal 36.6

The Protection Officer must:

- make sure that 2 points and 3 points remain clipped and locked unless protection is provided on both the Up and Down Main lines, and
- place a Danger Tag with their name and contact details and a dedicated padlock on Glenbrook control panel door lock.

Penrith-Wallerawang

Operation of Signal 52.0 to prevent long trains standing across Faulconbridge Level Crossing

The operation of the control of 52.0 Signal to prevent long trains standing across Faulconbridge Road Level Crossing when held at Springwood signal SD46 is as follows:

- 1. When SD46 is at stop, 52.0 signal will also be at stop.
- 2. When a train approaches 52.0 signal, and the track between 52.0 and SD46 is clear, the signal will clear to caution providing that train has been measured as being approximately 560 m or less in length. This measurement is taken approximately 1100 m before 52.0 signal.
- 3. If the train is longer than approximately 560 m, 52.0 signal will remain at stop.
- 4. When SD46 is then cleared, 52.0 will also clear.

A notice board inscribed 'This Signal must not be passed at stop without authority of the Signaller' is provided on 52.0 Signal.

Emergency Operation of Points at Lawson

All points will be fitted with ESML equipment for emergency hand operation.

Operation 121 Points

121 points are power operated and controlled from Blacktown Signal Box. There are no signal routes leading over the points when reverse. 121 points are Spiked, Clipped and XL Locked Normal and booked out of use, and are provided for planned work or emergency situations where they can be booked into service and called reverse.

Operation 122 Points

122 Points are set by the Signaller but operated locally by a Qualified Worker using 122 points pushbutton unit. The pushbutton unit consists of an SL locked box that contains an 'Operate Points' pushbutton and a 'Points Free' indicator (flashing green). Instructions for working trains into or out of the Perway Sidings are inscribed inside the pushbutton unit locked box. A telephone is also provided.

Operation of 122 points by setting signal routes

The Qualified Worker will contact the Signaller to discuss the train movement.

The Signaller will set 57(S)A or 59(S)A or 58(S) route's as required.

The signal route on the ATRICS control panel will set but the signal will remain at stop (i.e. 122 points have not operated) and the 'Points Free' indication on 122 points pushbutton unit will flash green.

When advised by the Signaller, the Qualified Worker will visually ensure the track over the points is clear and any approaching track vehicles are stationary. Observe the 'Points Free' indicator is flashing green.

Depress and hold the pushbutton for 2 seconds to operate the points.

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The signal will clear for the selected route once the points are in the correct position.

Operation of 122 points by calling the points

The Qualified Worker will contact the Signaller to discuss the train movement.

The Signaller will call 122 points either 'normal' or 'reverse' as required.

The points indications on the ATRICS panel will be unchanged (i.e. 122 points have not operated) and the 'Points Free' indication on 122 points pushbutton unit will flash green.

When advised by the Signaller, the Qualified Worker will visually ensure the track over the points is clear and any approaching track vehicles are stationary.

Observe the 'Points Free' indicator is flashing green.

Depress and hold the pushbutton for 2 seconds to operate the points.

On the ATRICS control panel 122 points will indicate either 'normal' or 'reverse', once the points are in the new position.



Note

122 points must be restored to the normal position on completion of the train movements

Operation 123 Release (Lever 1D and 2D)

123 Release is operated by the Signaller with a Qualified Worker operating levers 1D and 2D.

Levers 1D and 2D are secured with an SL Lock.

There is a 'Point Lock Release' unit for each lever. The Point Lock Release units consist of an SL locked box that contains a 'Pushbutton' to release the Point lock and a 'Release Available' indicator. Instructions for working trains into and out of the Perway Siding are inscribed inside the Point Lock Release unit locked box.

Operation of 123 Release

The Qualified Worker will contact the Signaller to discuss the train movement.

The Signaller will provide 123 Release.

The 'Release Available' indication in both 1D and 2D 'Point Lock Release' units will flash green.

The Qualified Worker will now depress and hold the pushbutton for 1 second.

The 'Release Available' indication will now display a steady green for 10 seconds during which time the lever to which the 'Point Lock release' unit applies will be free to operate.

If the points are not operated with 10 seconds, the pushbutton will need to be pressed again.

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Warning

Both points and catchpoints (1D and 2D) must be operated to the correction position for the required train movement.

Once the train movements are complete restore both levers 1D and 2D to the normal position. This action does not require the pushbutton to be pressed.

Advise the Signaller on completion of the shunting.

The Signaller will now restore 123 Release to the normal position.

Standard release indications are displayed on the ATRICS control panel for 123 Release.



Note

If after depressing the Point Lock Release pushbutton the points do not release, the signal electrician will need to be called to release the point lock. The hand operated release lever shall be secured by a Falcon 4 lock.

Releasing WFC Points and WFD Points at Wentworth Falls

Taking Release

Qualified Worker

- 1. Ask signaller for permission to take the release.
- 2. Ensure no rail traffic is approaching or traversing Points, or any approaching traffic is brought to a stand before the points. Releasing Unit CD includes indicators to show the approach tracks unoccupied.
- 3. Turn the Release switch from Normal to Reverse
- 4. 'Normal' light will extinguish
 - If there is rail traffic in the approaches, a five-minute timer must elapse before points can be operated. During this time, the 'Reverse' light will flash.
 - If there is no rail traffic in the approaches, or the five-minute timer has elapsed, the 'Reverse' light will show a steady indication.

Points can now be controlled using Control Unit.

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Operating WFC Points and WFD Points

Operating the Points control switches will return signals 63.4 and 63.7 to Stop. As long as the tracks beyond these signals are clear, the signals will clear again when the Points switches are set, and the points detected for moves that will pass 63.4 or 63.7.

Operating Points:

Qualified Worker

- 1. Ensure no rail traffic is approaching or traversing Points.
- 2. Ensure 'Control Available' light is illuminated. This requires the release is Reverse and the other set of points is Normal.
- 3. Turn Points control switch to 'Free' position.
 - Points indicators will revert to STOP
- 4. Free light flashes during release timer
- 5. When free light becomes steady, turn Points control switch to required position, Normal or Reverse.
- 6. Once Points Control switch is turned:
 - 'Transit' light will illuminate
 - 'Free' light will extinguish
- 7. When Points have driven, 'Transit' light will extinguish, and 'Normal' or 'Reverse' light will illuminate.
- 8. Points indicators will display a WHITE ARROW for the selected direction.
- 9. Rail traffic can be authorised to traverse the Points.
- 10. Leave Points control switch in Normal or Reverse position while rail vehicles are traversing Points.
- 11. Points must be returned to Normal position before restoring the release.

Restoring Release:

- 1. Ensure no rail traffic is approaching or traversing Points.
- 2. Ensure both Points are in the Normal Position
- 3. Turn the Release switch from Reverse to Normal
 - 'Reverse' light should extinguish and 'Normal' light will illuminate.
- 4. Tell the Signaller the Release is now restored.

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Honour Avenue and Bundarra Street level crossing equipment

The level crossing warning equipment for Honour Avenue level crossing, Faulconbridge and Bundarra Street level crossing, Blackheath are linked with the road traffic control equipment.

When the warning equipment has been isolated during work on track, the Signals Maintenance Representative must be informed before a rail vehicle is to occupy the track-circuiting for an extended period.

Honour Avenue level crossing

Honour Avenue level crossing is fitted with a single Master Emergency switch. Operation of the Master Emergency switch will place Down signal 50.9 and Up signal 52.0 to STOP. They will remain at STOP until the Manual Operation switch is operated and the level crossing equipment has operated and the booms are lowered or the Master Emergency switch is restored.

Bundarra Street level crossing

Bundarra Street level crossing is fitted with a single Emergency Control switch.

Operation of the Emergency Control switch will place Down signal 74.3 and Up signal 75.2 to STOP. They will remain at STOP until the Manual Operation switch is operated and the level crossing equipment has operated and the booms are lowered or the Master Emergency switch is restored.

Edgecombe-Zig Zag



Warning

Out-of-gauge rail traffic between Edgecombe and Zig Zag must travel on the Up Main line only to avoid being fouled by Down-side signal troughs in the Zig Zag tunnels

Zig Zag-Lithgow

Bank locomotive working is authorised between Lithgow and Zig Zag.

A coupled bank locomotive may release only at an attended yard.

A non-coupled bank locomotive must release from the assisted train before the Zig Zag Up accept signal 93.8.

If the assisting non-coupled bank locomotive cannot release from an assisted train, it must be detached at an attended location.

If pilot staff working is in operation, the Driver of an assisting non-coupled bank locomotive must hold the pilot staff during the assist and the return to Lithgow.

If an assisted train fails, the bank locomotive must be coupled to the failed train.

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The speed of a propelled train must not exceed 15km/h.

If the failed train returns to Lithgow, the Driver of the bank locomotive must hold the documentation for special working.

Sydney Trains – CRN Interface Boundaries

The Network Control boundaries between the CRN and Sydney Trains territories define the location for Network Controller responsibilities.

Line	Limits	Sydney Side	Country Side
Down Main	Signal WG1	Signaller Lithgow Yard Box	CRN Network Control Officer
Up Main	Signal 166.8	Signaller Lithgow Yard Box	CRN Network Control Officer

Application of Network Rules

Line	Limits	Network Rules
Down Main	Country Side of WG1 Signal	CRN
	Sydney Side of WG1 Signal	Sydney Trains
Up Main	Country Side of 166.8 Signal	CRN
	Sydney Side of 166.8 Signal	Sydney Trains

On the Sydney side of Signal WG1 on the Down Main line and on the Up Main line up to and Including Signal 166.8, all work on track authorities, proceed authorities and special working must be authorised by the responsible Sydney Trains Signaller or Network Controller.

Advice of train departure

In the Up direction, the CRN Network Control Officer will advise the Sydney Trains Network Controller prior to a departure of rail traffic from Rydal and Baal Bone.

In the Down direction, the Sydney Trains Network Controller will advise the CRN Network Control Officer prior to a departure of rail traffic from Lithgow Coal Stage.

Work on Track

All work on track authorities on the Down Main line on the Sydney side of Signal WG1 and on the Up Main line on the Sydney side of Signal 166.8 must be authorised by the Sydney Trains Network Controller.

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Local Possession Authority (LPA)

CRN only LPA

Line	Limits
Down Main	Country side of 97.1 signal
Up Main	Sydney side of 166.8

Down Main line

CRN must advise Sydney Trains in advance of the request to implement an LPA on the country side of Signal 97.1 and be implemented in accordance with the Sydney Trains Network Rules and Procedures.

CRN and Sydney Trains will advertise possessions on a STN and CTN respectively.

CRN must request Sydney Trains Engineering and Maintenance to make arrangements for 97.1 signal to be maintained at STOP and booked out of use for the duration of the LPA.

Up Main line

CRN must advise Sydney Trains in advance of the request to implement an LPA on the Sydney side of Signal 166.8 and be implemented in accordance with the Sydney Trains Network Rules and Procedures.

CRN and Sydney Trains will advertise possessions on a STN and CTN respectively.

Sydney Trains will request that Signal 166.8 is maintained at STOP and booked out of use for the duration of the LPA.

Sydney Trains only LPA

Line	Limits
Down Main	Sydney side of WG1 signal
Up Main	Sydney side of 166.8 signal

Sydney Trains will advertise the possession on a Special Train Notice (STN).

Where the limits of an LPA extend to Signal 166.8 on the Up Main line, Sydney Trains will request that Signal 166.8 is maintained at STOP and booked out of use for the duration of the LPA.

Sydney Trains - CRN back to back LPA

Line	Limits
Down Main	WG1 signal
Up Main	166.8 signal

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CRN and Sydney Trains will advertise possessions on STN and CTN respectively.

Where a back to back possession is implemented, the following instructions will apply:

- Worksites and rail vehicles that need to move from Sydney Trains territory to CRN territory are authorised and supervised by the CRN Possession Protection Officer.
- Worksites and rail vehicles that need to move from CRN territory to Sydney Trains territory are authorised and supervised by the Sydney Trains Possession Protection Officer.

Where work is being undertaken at or over the interface boundary the following will apply:

- The CRN Possession Protection Officer and the Sydney Trains Possession Protection Officer must confer and come to a clear understanding of the worksite protection to be established over the CRN and Sydney Trains interface boundary.
- When the work at or over the interface boundary is completed, the CRN
 Possession Protection Officer and Sydney Trains Possession Protection
 Officer must ensure that possession protection is established as prescribed in the relevant network rules.

Track Occupancy Authority (TOA)

Down Main line

The Sydney Trains Network Controller is responsible for authorising a Track Occupancy Authority on the Down Main line on the Sydney side of Signal WG1.

The Signaller at Lithgow Yard Box is responsible for issuing and protecting a TOA on the Down Main line on the Sydney side of Signal WG1.

If a worksite needs to be established within 500 metres on the Sydney side of WG 1 signal, an abutting TOA for the country side of WG 1 signal must be in place prior to the establishment of the worksite.

Before work commences the worksite must be protected in accordance with the Network Rules relevant for the location of the work.

Up Main line

The Sydney Trains Network Controller is responsible for authorising a Track Occupancy Authority on the Up Main line on the Sydney side of Signal 166.8.

The Signaller Lithgow Yard Box is responsible for issuing a TOA on the Up Main line on the Sydney side of Signal 166.8.

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The Signaller Lithgow Yard Box must confer with the CRN Network Control Officer and the Protection Officer. The Signaller Lithgow Yard Box must obtain an assurance from the CRN Network Control Officer that protecting signals are at STOP with blocking facilities applied prior to issuing the TOA. The Signaller Lithgow Yard Box must make sure that the CRN Network Control Officer has a copy of the TOA form.

If a worksite needs to be established within 500 metres on the Sydney side of 166.8 signal, an abutting TOA for the country side of 166.8 signal must be in place prior to the establishment of the worksite.

Before work commences the worksite must be protected in accordance with the Network Rules relevant for the location of the work.

Track Work Authority (TWA)

Down Main line

The Sydney Trains Network Controller is responsible for authorising a Track Work Authority on the Sydney side of Signal WG1.

The Signaller at Lithgow Yard Box is responsible for issuing a TWA on the Down Main line on the Sydney side of Signal WG1.

The Signaller Lithgow Yard Box is responsible for protecting the TWA on the Down Main line where the TWA is to be protected using Controlled Absolute Signals.

Up Main line

The Sydney Trains Network Controller is responsible for authorising a Track Work Authority on the Sydney side of Signal 166.8.

The Signaller Lithgow Yard Box is responsible for issuing a TWA on the Up Main line Sydney side of Signal 166.8.

A TWA on the Up Main line on the Sydney side of Signal 166.8 must only be protected in accordance with the Sydney Trains Network Rules and Procedures using Handsignallers only.

The Signaller Lithgow Yard Box must advise the CRN Network Control Officer details of the TWA.

Absolute Signal Blocking (ASB) and Route Control Blocking (RCB)

The Absolute Signal Blocking (ASB) and the Route Control Blocking (RCB) method of protection must not be used on the Up and Down Main lines Sydney side of Signal WG1 and Signal 166.8.

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Lookout Working

Lookout Working on the Up and Down Main lines on the Sydney side of Signal WG1 and Signal 166.8 must be conducted in accordance with the Sydney Trains Network Rule and Procedure *NWT 310 Lookout Working* and *NPR 711 Using Lookouts*.

Activities associated with in service rail traffic

Activities associated with service rail traffic on the Up and Down Main lines the Sydney side of Signal WG1 and Signal 166.8 must be conducted in accordance with Sydney *Trains Network Rule NTR 432* and *Network Procedure NPR 750*.

If adjacent line protection for an activity associated with in-service rail traffic is required on the Up Main line on the Sydney side of Signal 166.8 the Signaller Lithgow Yard Box must request the CRN Network Control Officer to place Signal WG 6 and Signal WG 10 at STOP with blocking facilities applied.

Applying Blocking facilities

If it is necessary to place signals at STOP and apply blocking facilities to Signal WG 6 and Signal WG 10, the CRN Network Control Officer will provide the Signaller Lithgow Yard Box with a security code/s.

The Signaller Lithgow Yard Box must make a permanent record of the security code/s.

The Signaller Lithgow Yard Box must provide the security code/s to the CRN Network Control Officer when blocking facilities are no longer required.

Special Working

Special Proceed Authority (SPA)

Special Proceed Authorities (SPA) on the Down Main line on the Sydney side of Signal WG1 and on the Up Main line on the Sydney side of Signal 166.8 must be authorised and issued in accordance with NSY 514 Special Proceed Authority.

Down Main line

The Sydney Trains Network Controller will be responsible for authorising and issuing Special Proceed Authorities (SPA) on the Down Main line on the Sydney side of Signal WG1.

The Sydney Trains Network Controller must confer with the CRN Network Control Officer prior to issuing the authority and must make sure that the CRN Network Controller has a copy of the SPA form (NRF 005).

Up Main line

The Sydney Trains Network Controller will be responsible for authorising and issuing Special Proceed Authorities (SPA) on the Up Main line on the Sydney side of Signal 166.8.

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The Sydney Trains Network Controller must confer with the CRN Network Control Officer prior to issuing the authority and must make sure that protecting signals have been placed at STOP with blocking facilities applied or conflicting rail traffic movements have been restrained. The Sydney Trains Network Controller must make sure that the CRN Network Control Officer has a copy of the SPA form (NRF 005).

Pilot Staff Working (PSW)

Pilot Staff Working (PSW) must not be implemented on the Up and Down Main lines on the Sydney side of Signal WG1 and Signal 166.8.

Manual Block Working

The Signaller Lithgow Yard Box and the CRN Network Control Officer must confer prior to dispatching rail traffic that may not effectively operate track circuits (must be block worked).

Manual Block Working on the Up and Down Main lines Sydney side of Signal WG1 and Signal 166.8 must be implemented in accordance with NSY 512 Manual Block Working.

Up Main line

If Manual Block Working is implemented on the Up Main line on the Sydney side of Signal 166.8, the Signaller Lithgow Yard Box must obtain an assurance from the CRN Network Control Officer that blocking facilities have been applied.

The Signaller Lithgow Yard Box must tell the CRN Network Control Officer when the rail traffic has arrived complete beyond Signal 97.0.

Down Main line

If Manual Block Working is implemented on the Down Main line on the Sydney side of Signal WG1, the CRN Network Control Officer must obtain an assurance from the Signaller Lithgow Yard Box that blocking facilities have been applied. The CRN Network Control Officer must tell the Signaller Lithgow Yard Box when the rail traffic has arrived complete beyond Signal WG1.

CAN Block Working

CAN Block Working must not be implemented on the Up and Down Main lines Sydney side of Signal WG1 and Signal 166.8.

Conditions affecting the Network (CAN)

If a Condition affecting the Network (CAN) is reported between Lithgow Yard Limits and Wallerawang Yard Limits, the CRN Network Control Officer and Signaller Lithgow Yard Box must notify each other.

The Signaller Lithgow Yard Box is responsible for issuing CAN warning on the Down Main line. Written CAN warnings must be issued on NRF 004 form.

The CRN Network Control Officer is responsible for issuing CAN warning on the UP Main line. Written CAN warnings must be issued on CNRF 004 form.

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Removal and restoration of the 1500v supply

The removal and restoration of the 1500v supply on the Sydney side of Signal WG1 and Signal 166.8 must be conducted in accordance with the Sydney Trains Network Rules and Procedures.

The Sydney Trains Network Controller must coordinate the removal and restoration of supply. Prior to giving clearance for the removal of supply, the Sydney Trains Network Controller must confer with the CRN Network Control Officer and obtain the necessary assurances.

Passing Signals at STOP

All signals on the Sydney side of Signal WG1 on the Down Main line and all signals on up to and Including Signal 166.8 on the Up Main line must be passed at STOP in accordance with Sydney Trains Network Rules and Procedures.

Placing Temporary Speed Signs

Temporary Speed restrictions on the Up and Down Main lines Sydney side of the property boundary 158.800km must be managed using Sydney Trains Temporary Speed signs and standards.

Temporary Speed restrictions on the Up and Down Main lines country side of the property boundary 158.800km must be managed using CRN Temporary Speed signs and standards.

The Warning signs of the respective networks may be used where there is insufficient distance between the property boundary and the speed restriction.

Recognition of Safeworking Competencies/Certification

Recognition of RISI and Railway Safety Worker Competencies. Where work or activities occur between Lithgow and Wallerawang require RISI or a RSW competency, mutual recognition of RISI and RSW or RIW cards will apply.

Recognition of RISI and RSW competencies are detailed in the table below.

Workers	RISI	RSW competency
CRN Employees	RIW Card	RIW Card
Contractors engaged by CRN	RIW Card	RIW Card
Sydney Trains employees	RIW card or RSW issued by TfNSW	RSW issued by TfNSW
Contractors engaged by Sydney trains	RIW Card	RIW Card



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Related documents

NLA 200 Lidcombe-Penrith

NLA 210 Penrith

NLA 214 Katoomba

NLA 216 Mount Victoria

NLA 218 Lithgow

Effective date

8 September 2025





Penrith-Wallerawang

NLA 212