Worksite Protection for Asquith to Hornsby routine network maintenance activities



DOCUMENT NO.	D2021/24412
WORK DESCRIPTION	Routine network inspection – Asquith to Hornsby
WPP Number	CN2B 10001
SCOPE:	This SWI is applicable for the worksite protection arrangements using Lookout working and Absolute Signal Blocking concerning routine network maintenance, defect management and repair of assets within the limits specified belowand in the attached plan. Work activities include: Routine preventative and corrective work such as inspections and maintenance as appropriate for the type of protection being applied as part of this plan
AUTHORISATIONS:	Protection Officer: Protection Officer Level 1 or higher Lookout: Hand signaller Level 1 or higher, Protection Officer Level 1 or higher.
SAFETY CONTROLS –	The nominated worksite location for Lookout Working includes the Up Main North, Down Main North, Down Relief and No.1 Turnback Road from HY138 Signal to HY17 Signal .
Lookout Working arrangements:	The nominated worksite location for Lookout Working is a moving worksite, where workers are working along the track within the limits of the nominated worksite location up to the where the Lookout is established. As work moves along the track, the Protection Officer must assess the new location and: • Establish Lookouts as required to watch for approaching rail traffic from all entry points. • Designate and instruct which safe places the workers are to use as the work is completed along the work route within the worksite limits.
Absolute Signal Blocking (ASB) arrangements:	Absolute Signal Blocking on the Down Main is at a fixed worksite location from HY 17 Signal to HY 25 Signal. For reference only. The worksite is protected by: • HY 13, HY 17 Signal at STOP with blocking facilities applied.
PRESTART REQUIREMENTS:	Protection Officer assessment checklist must be completed before instructions in this SWI are followed. Tools and equipment required: Protection Officer requires a phone to contact the Signaller. Lookouts require a high-visibility arm sleeve and a whistle / horn.
FURTHER INFORMATION:	NWT 300 Planning work in the Rail Corridor NWT 310 Lookout Working NPR 711 Using Lookouts NPR 751 Calculating Minimum Warning Time NLA 302 Hornsby NGE 200 Walking in the Danger Zone Lookout Working Prohibited Locations Register NWT 308 Absolute Signal Blocking NPR 703 Using Absolute Signal Blocking

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Protection Officer assessment checklist							
Protection Officer's name:	Yes (Tick if Yes)						
This document has not expired 12 months beyond the issue date.							
SWI details and protection arrangements location, including:	have been reviewed and validated for the	assessed worksite					
 On-site safety assessment has been completed for relevancy of works being undertaken. The required protection details, environment and tasks are unchanged from the details of this SWI. 							
The Protection Officer and Qualified Workers deploying qualifications are current and have practiced in the last 6 months. If not practiced, then a Rail Safety Coach must be contacted for guidance.							
Corridor Safety Number Protection Officer Signature Date							

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Warning

If an above item does not apply, the Protection Officer must not use this Safe Work Instruction. A new worksite protection plan must be completed in accordance with NRF 014 Worksite Protection Pre-work briefing and NRF 015 Worksite Protection Plan.

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orksite Protec	ction Pre-work Briefing	Driefin w deke			
rotection Office	r Details	Briefing date:	1 1		
	name	signature	contact No		
Work location:	Asquith to Hornsby				
Scope of work:					
Worksite protection	on: Lookout Working and ASB	Refer to Worksite Protect	ction Plan for details		
	e specific hazards identified, environment, human errors, plant	Controls (to be implemented to eliminate or reduce the risk to the lowest practicable level)	Person responsible for Control		
		Lookouts must be trained and competent to perform Lookout duties.			
		Lookouts must be rotated if performing Lookout for extended periods of time.	Protection Officer		
• Appro	aching rail traffic	Workers to remain within worksite limits as set out in this procedure.	and Lookout		
		Lookouts must be placed as per protection plan on page 8.			
		Workers are to stop work and move to a safe place immediately on being warned by the Lookouts			
		ASB implemented.	Protection Officer		
• Appro	aching rail traffic (ASB)	Lookouts and workers must be in a safe place before ending Lookout Working and before establishing ASB.			
• Live a	djacent lines	Lookouts must provide warning to workers when rail traffic is approaching from the adjacent line in either direction.	Protection Officer and Lookout		
Two - way runr worksite	ning / multiple entry points into	One Lookout placed watching each direction before work starts. Lookouts are to warn workers of approaching rail traffic, including rail traffic entering or travelling within the worksite. Workers are to stop work and move to a safe place.	Protection Officer and Lookout		
Obstruction to	Minimum Sighting Distance	Lookouts must provide warning to the workers whenever their line of sight is obstructed by passing rail traffic. Workers must stop work and move to a safe place and reassess positioning and method	Protection Officer and Lookout		
Adjoining/Surr	ounding Worksites	Lookouts must have two independent audible warning devices that can be heard by workers over any noise generated by adjoining/surrounding worksites.	Protection Officer and Lookout		
		Lookouts are to provide warning if their line of sight is obstructed by adjoining/surrounding worksites.			
Access to / Egi	ress from worksite	Access and egress points must be agreed prior to entering the Danger Zone, consideration should	All		
Slips, trips, fall equipment.	ls and hazards carrying	be given to ease of access and safest possible entry and exit points. Protection Officer will assess and instruct when it is safe for workers to use NGE 200 Walking in the Danger Zone to move to the worksite or safe place.			

Mobile phone

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Mobile phones use is not permitted in the Danger

Zone unless being used by maintenance staff for critical maintenance communications or recording

of defects.

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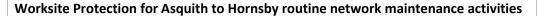
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Workplace	Supervisor	dotaile		

vork	place Supervisor details		_						
		name					contact No		
Eme	rgency assembly point:	Access Gate	SWN	/IS/SWI	I Ref #:				
First locat	aid kit ion: Sydney Train	s work vehicle	First	aider:					
Vork	place Supervisor ack	nowledgement							
		ges that all identified WHS and rail safety	hazards	have the	Yes	\neg	signature		
appro	priate controls in place to manage	e and/or eliminate the hazards.			res	⊔	0.9100010		
Parti	cipant Acknowledgem	nent							
NOT	TE : Recipients of the briefing are	to question the Briefer if they don't unders	stand an	y part of	this briefing.				
All v	vorkers listed below acknowledge	e that they:							
1.	have been inducted to the site		6.	have be	en briefed o	n the contents	of the Worksite Protection Plan		
2.	are free from alcohol and drugs		7.				otection Plan diagram		
3. 4.	are free from the effects of fatig	Rail Safety Worker Authorisation, trade	8. 9.				worksite protection in place hazards and controls identified during		
5.	licence and/or induction record	e.g. Construction Industry Induction		the final		ion (<i>final site ins</i>	spection must be conducted immediately		
	• • • • • • • • • • • • • • • • • • • •	if the item applies or a cross 🗷 if the item does	not appl	у.					
	have been informed of the requ	irements of the electrical permit (if		have be	en made aw	are of any haz	zardous materials/substances on site		
	required)					,	Sheets (SDS)		
	— ····· - · · · · · · · · · · · · · · ·					-			
_	for the job				have been briefed on the WHS Management plan have been briefed on the hazards of adjoining worksites/processes.				
Ц	have been instructed in the controls recorded in this document and SWMS/SWIs				en briefed o	n the hazards	of adjoining worksites/processes.		
Nan	10	Signature	Time hh:m	e of brief	fing:		Amendment briefing: hh:mm and initial		
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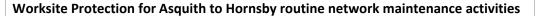




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rotection O	fficer deta	ils									
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Worksite	location										
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						n					- 1
						Down Main	North				_
						Down Re	elief]
						No.1 Turnba	k Road				J
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/		. 4									
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		o Gaio									
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Number of ad					`	Position of Loc		32.571 km	to	km	
Note - Lookouts	s are relocated	to positi	ions w	ithin these Kl	Ms as worke	rs move along the	worksite.				
2 sec	+ 3	3 sec + 10 sec 15 sec		115km	n/h	479 metres					
2 sec	+ 3	sec	+	10 sec		um Warning	15 sec	100km	n/h	417 metres	
			L			Time MWT)					
2 sec	+ 3	sec	+	10 sec			15 sec	80km	n/h	333 metres	
2 sec	+ 3	sec	+	10 sec			15 sec	60km	n/h	250 metres	
7 sec	+ 3	sec	+	10 sec			20 sec	80km	n/h	444 metres	
See Time (S)	Move Tir	ne (M)	L	Safe Time	(S+M+1	0 sec = MWT)		Track speed		Minimum Sighting	
, ,			ne ca		•	Protection Office	's Diary	Truck specu		Distance as calculated	
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						,					
A		iawn (Jess.	, wide 6 F	oot						
Workers:	Op and L	OWIT	_ 555,	<u>′</u>			Yes				

SWI Custodian: Maintenance Operation Manager City North Territory OFFICIAL
SWI Approver: Associate Director Network Operation UNCONTROLLED COPY WHEN PRINTED

Issue Date: 12/12/2023 Version: 1.2





Worksite Protection Plan - Absolute Signal Blocking

		name			sig	nature	J L				CO	ntact No
	RSW	or RIW No.			desig	gnation] P	lanned l	Duratio	on _		
ype of worl	k:											
2. Worksit	e Location											
On the	Dov	wn Main	from	H	/ 25 Signal		to		H	Y 17		
On the	Dov	vn Relief	from	H	Y 23 Signal		to		H,	Y 17		
Protection	to be used											
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Authorisat uthorised l	by Signaller											
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rotection umber			Notes									
6. Tempor	arily Suspend	ling ASB										
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	nd equipment a Danger Zone			Workers and equipment are			Workers and equipment are clear of the Danger Zone			;		
	otection number		Provide protection number			Provide protection number						
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7. Re-esta	blish ASB ass	surances							,			
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Worksite Protection for Asquith to Hornsby routine network maintenance activities



Section 1 - Asquith to Hornsby

LOOKOUT WORKING INSTRUCTIONS:

- 1. Protection Officer briefs workers about the worksite protection arrangements.
- Protection Officer contacts Hornsby Main Panel and tells the Signaller about the use of Lookout Working between Asquith and Hornsby on the Up Main North, Down Main North, Down Relief and No.1 Turnback Road.
- Workers enter rail corridor via gate N00 35.231 D on Fuller Avenue, at Asquith Station carpark located on the downside.
- 4. Protection Officer establishes Lookouts watching for rail traffic approach from both directions at designated locations.
- Workers start work on the Up Main, Down Main, Down Relief and No.1 Turnback Road up to the designated Lookout locations.
- 6. Workers move to a safe place.
- Repeat steps 4 6 until workers reach Hornsby Station.
- 8. Recall Lookouts.
- 9. All workers move to a safe place and egress onto Hornsby Station.

ASB INSTRUCTIONS:

- 1. Protection Officer ends Lookout working and implements ASB to complete scope of work.
- 2. Protection Officer briefs workers about the worksite protection arrangements.
- 3. Protection Officer contacts the Signaler at Hornsby Main Panel to request ASB.
- 4. After ASB has been authorized, start work within the limits of the nominated worksite location.
- 5. After work is complete, workers move to a safe place.
- 6. Protection Officer contacts the Signaler at Hornsby Main Panel to end ASB.
- 7. All workers egress the rail corridor via Access Gate at Hornsby

ADDITIONAL DETAILS

Two-way running

Hornsby Yard is a two-way running area; rail traffic movements can occur in any direction at any time. On the **Up Main**, rail traffic can enter from multiple directions between **573 points** and **501 points**. Rail traffic can also enter from multiple directions between **574 points** and **500 points** on the **Down Main**, **Down Relief** and **No.1 Turnback Road**.

A Lookout is placed for each direction of rail traffic approach and must provide warning for any rail traffic approach. Workers must move into a safe place upon a Lookout providing warning regardless of which line the rail traffic is approaching on.

Obstruction to Lookout's Minimum Sighting Distance

Rail traffic coming to and from **Hornsby Maintenance Centre** on the **Car Shed Roads** may obstruct the Lookout's Minimum Sighting Distance for a short portion of the work.

Rail traffic on the **Up Main** may also obstruct the Lookout's Minimum Sighting Distance for down approaching rail traffic.

Stabled rail traffic on **No.1 Turnback Road** in **Hornsby Yard** may obstruct the Lookout's Minimum Sighting Distance from rail traffic approaching on the **Down Relief**.

Lookouts must provide warning to workers when Minimum Sighting Distance is obstructed by rail traffic on adjacent lines. All workers must remain in a safe place until Lookouts re-established Minimum Sighting Distance.

No safe place within platform limits

Workers must not enter the Danger Zone within the limits of any platforms at Hornsby Station.

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Worksite Protection for Asquith to Hornsby routine network maintenance activities



ACCESS/EGRESS



Image 1: Access Gate N00 35.231 D into rail corridor from Asquith Car Park



Image 2: Egress gate from rail corridor onto country end of Hornsby Station Platform 4

LOOKOUTS



Image 3: Lookout in Down Cess near **574 points** looking for approaching rail traffic from the Down direction



Image 4: Lookout in 6-Foot between Down Main and Down Relief looking for approaching rail traffic from the Down direction



Image 5: View of Lookout for rail traffic approach from the Up direction coming from Asquith and Hornsby Maintenance Centre



Image 6: Lookout in Down Cess near 569 Points for rail traffic approach from Hornsby Yard

Worksite Protection for Asquith to Hornsby routine network maintenance activities



Section 2 - Hornsby Station Platform 4 to HY 17 Signal

INSTRUCTIONS:

- 1. Protection Officer, Lookouts and workers re-enter the rail corridor via the city end of **Hornsby Station**Platform 4.
- 2. Protection Officer places Lookouts watching for rail traffic approach from both directions at designated locations.
- 3. Workers start work on the **Up Main, Down Main** and **Down Relief**, working up to the designated Lookout locations.
- 4. Workers move to a safe place.
- 5. Repeat steps 3 5 until workers complete work between HY 21 Signal and Hornsby Station is complete.
- 6. Once work is complete, all workers move into a safe place.
- 7. Protection Officer recalls Lookouts.
- 8. Protection Officer contacts the Signaller at Hornsby Main Panel to end Lookout Working.

ADDITIONAL DETAILS

Two-way running

Hornsby Yard is a two-way running area; rail traffic movements can occur in any direction at any time. On the **Up Main**, rail traffic can enter from multiple directions between **573 points and 501 points**. Rail traffic can also enter from multiple directions between **574 points and 500 points** on the **Down Main**, **Down Relief**.

A Lookout is placed for each direction of rail traffic approach and provide warning for any rail traffic approach.

Workers must move into a safe place upon a Lookout providing warning regardless of which line the rail traffic is approaching on.

Obstruction to Lookout's Minimum Sighting Distance

Rail traffic on the **Up Main** will obstruct the Lookout's Minimum Sighting Distance for down approaching rail traffic as they approach **500 points**.

Lookouts must provide warning to workers when Minimum Sighting Distance is obstructed by rail traffic on adjacent lines. All workers must remain in a safe place until Lookouts regain Minimum Sighting Distance.

Lookout Working Prohibited Location

Lookout Working is prohibited beyond HY 17 Signal towards Normanhurst on all tracks.

Workers must not perform work beyond this point towards Normanhurst.

Worksite Protection for Asquith to Hornsby routine network maintenance activities



LOOKOUTS

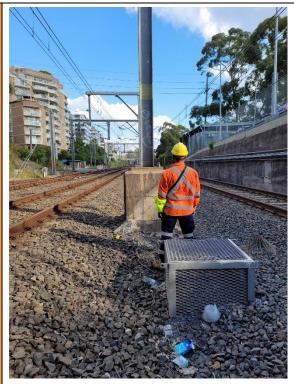


Image 7: Lookout in 6-Foot between **Down Main** and **Down Relief** for approaching rail traffic from the Down direction.



Image 8: Lookout in Up Cess for approaching rail traffic from the Up direction.

ACCESS/EGRESS



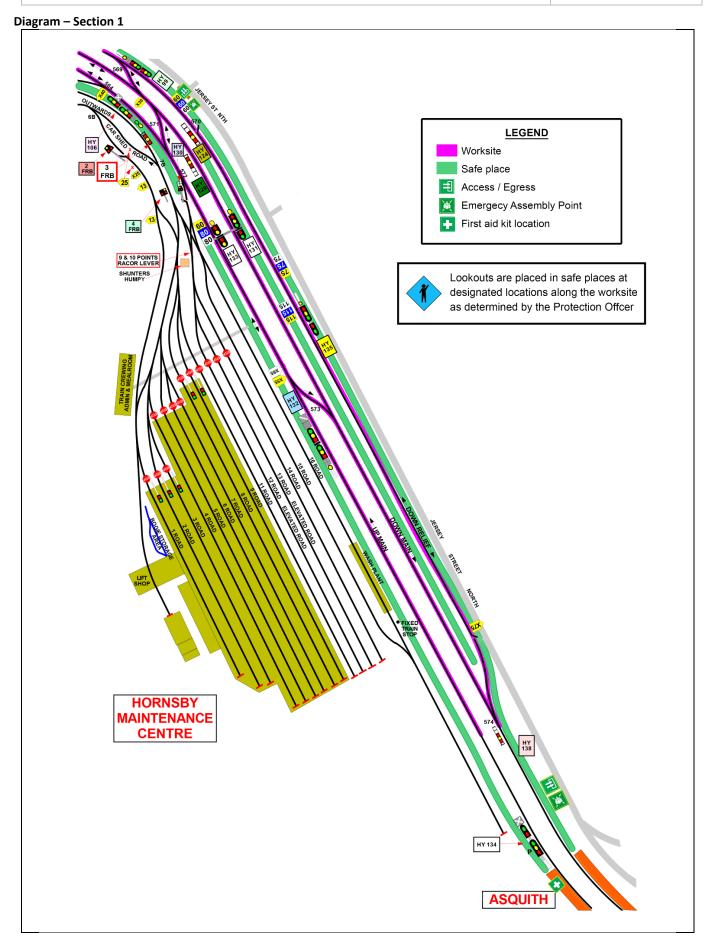
Image 9: Access gate to rail corridor at City end of Hornsby Platform 4



Image 10: Egress gate 37.722 U from rail corridor via College Crescent after works complete

Worksite Protection for Asquith to Hornsby routine network maintenance activities

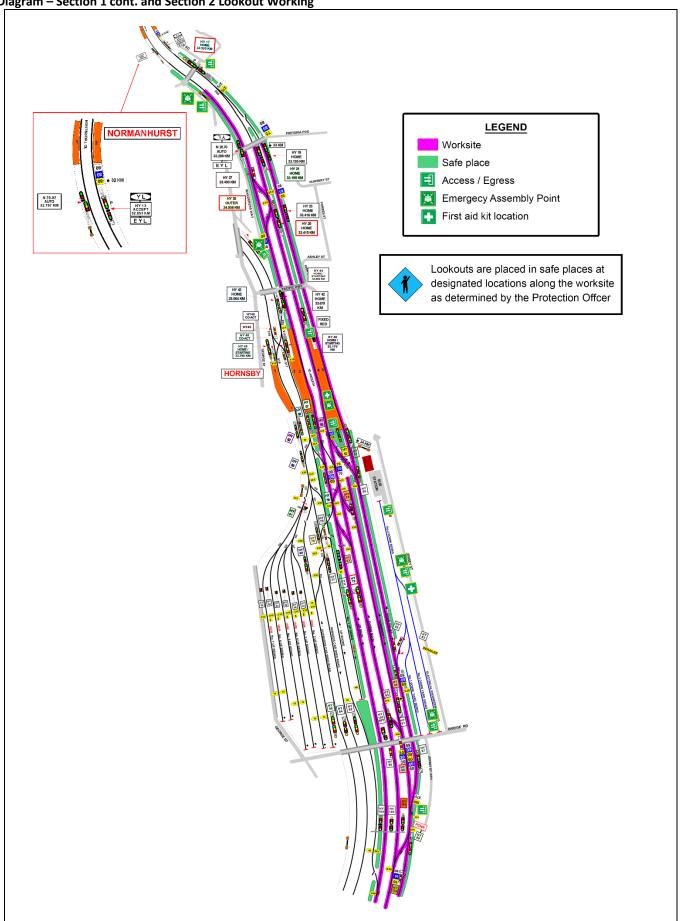




Worksite Protection for Asquith to Hornsby routine network maintenance activities



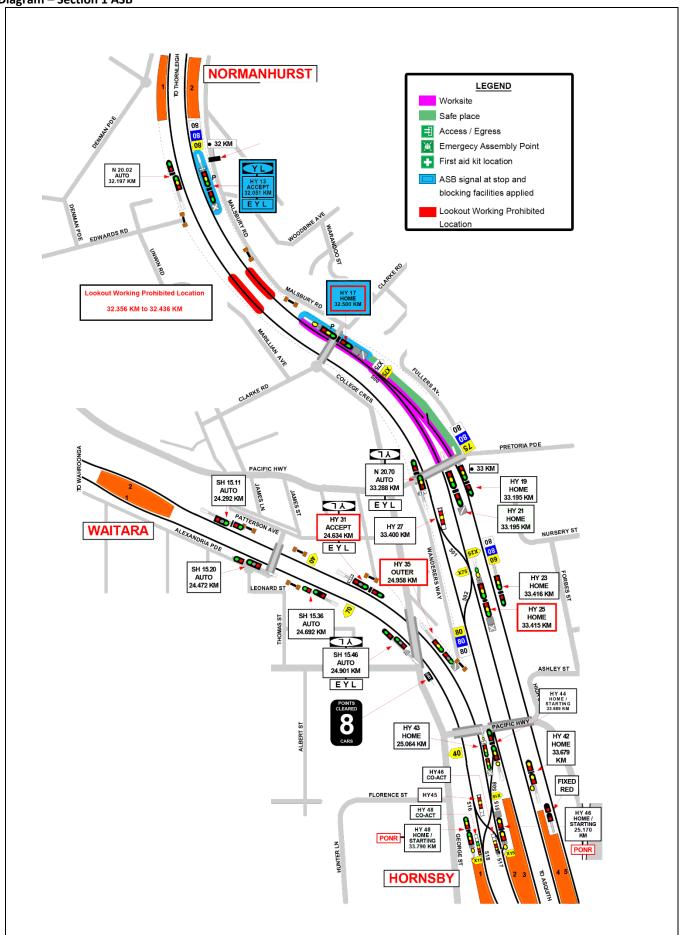
Diagram – Section 1 cont. and Section 2 Lookout Working

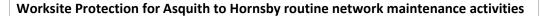


Worksite Protection for Asquith to Hornsby routine network maintenance activities



Diagram – Section 1 ASB







Protection Officer's diary

Date	Time	Notes
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