

DOCUMENT NO.	D2022/10062
WORK DESCRIPTION	Routine Maintenance activities
WPP Number	CC12BWS 10001
SCOPE:	 Routine maintenance activities performed by Central Coast Territory maintenance teams. on the Up Main North and Down Main North lines between 149.480 km to 151.076 km that does not involve the use of tools or equipment, or using tools which can be easily and immediately removed from the track by one person and are light, non-powered hand tools, or light battery powered tools or devices.
AUTHORISATIONS:	 Protection Officer, ATWS Operator (Operator) & ATWS Installer (Installer): Protection Officer (PO) Level 1 – 4, and WATWS – Wireless Automatic Track Warning System Dedicated Lookout: (PO) Level 1 - 4, or Handsignaller 1 - 2
PERSONAL PROTECTIVE EQUIPMENT	High visibility vest, boots, high visibility lookout sleeve
SAFETY CONTROLS – Lookout Working (ATWS) arrangements:	 Automatic Track Warning System (ATWS) - provides visual and audible warning for workers ATWS sensor for Down direction running on the Down Main North line at 149.480 km ATWS sensor for Up direction running on the Up Main North line at 151.076 km Dedicated lookout(s) at the worksite for unsignalled movements. IMORTANT! This document must not be used to install or adjust the ATWS sensors All sensors in the plan and shown on the diagram must be connected to transmit a warning
PRESTART REQUIREMENTS:	 Refer to D2015-45354 Wireless ATWS (Automatic Track Warning System) to install or remove sensors
FURTHER INFORMATION:	Refer to "D2015-45354 Wireless ATWS (Automatic Track Warning System)" for detailed instructions to set-up, connect, test and operate the ATWS system with pre-installed ATWS sensors NLA 316 Sulphide Junction

Required ATWS Equipment				
Item	Description	Quantity		
Aerial	Telescopic Aerial	3		
Assembly Kit	Orange Bag with Tools	2		
Battery ZA24-2.9	Small battery for Junction Box & Transmitter	8		
Device Frame	Protective Frame	3		
F500-AB Junction Box	Receiver Device	2		
F500-SEN Train Sensor	Sensor	2		
Housing for Aerial	Housing for Telescopic Aerial	3		
KF5-5 Extension Cable	Extension Cable (5m) for F500-SEN to F500-AB	0		
Mobile Backpack	Harness for Device	0		
Pouch	Pouch for small battery	4		
Tripod	Tripod for Device	3		
ZFS Radio Transmitter	Radio Transmitter Device	2		
ZPW Warning Unit	Control & Warning Device	1		

Safe Work Instruction

ATWS Worksite Protection for Cockle Creek routine network maintenance activities

Protection Officer's name:				
his document has not expired 12 mor	ths beyond the issue date.			
WI details and protection arrangemer cation, including:	ts have been reviewed and validated for the	assessed worksite		
On-site safety assessment ha	s been completed for relevancy of works beir	ng undertaken		
 The required protection detail SWI 	s, environment and tasks are unchanged from	n the details of this		
• All boxes have been ticked if	applicable and crossed if not applicable			
All fields have been complete	d			
Corridor Safety Number	Protection Officer Signature	Date		



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.



ATWS Worksite Protection for Cockle Creek routine network maintenance activities Worksite Protection Pre-work Briefing

rotection Office	r details					
		name		signature		contact No.
Work location:						
Scope of work:	Routine ma	aintenance a	ctivities			
Worksite protecti	on: Lookou	ut Working (A	TWS)		Refer to Worksite Protection F	Plan for details
Hazards (e.g. Site hazards identified physical environm errors, plant and e	l, including nent, human	level)			isk to the lowest practicable	Person responsible for Control
Crossing live I	ines	make a safe	Protection Officer (PO) or ety assessment to cross I se workers who do not h	ive lines in acc	cordance with NGE200	Qualified PO/ACS
Accessing Dar to conduct pla		minimum sa	fety assessment.	-	PO. Refer to diagram for	Qualified PO
Electricity		ATWS anter	nnae not to encroach saf	e approach dis	stance to overhead wiring	Operator
Slips, trips, fal ATWS equipme			manual handling technic r work area and agree a		afety boots, clear	All
Approaching r	ail traffic	Lookout Wo All points of and point cli On bi-directi Confirm with Workers imr Provide ALL place. After the wa traffic betwe	rking using approved AT entry have been validate ps) have been installed. ional lines the XYZ key h in the Operator that the A mediately move to the de CLEAR handsignal afte rning has been cancelled on the sensors and the v	WS as assess ad and ATWS as been remove TWS has been signated safe r workers and d, confirm there worksite before	a tested and is operational. place when warned. equipment are in a safe e is no approaching rail a allowing work to resume.	PO
Ineffective ATV warnings / Adj surrounding w	oning /	environment Explain the Workers to b Workers to r Radios not t	emergency warnings. be within 50m of warning remain within sight and h o be used near ATWS.	device. earing of warn	ing unit at all times.	PO
Train warning than expected points or ATW equipment fau	(stopping S	correctly.	.		ne ATWS is working clear between the sensors	PO
Adjacent live li	ines		in the tracks being prote	cted by the AT	WS	PO
Unsignalled m in Yard limits	ovements	Confirm min	kout(s) in safe place. imum sighting distance of re communication and be		ed. nd hearing of the workers.	PO / lookouts
Second train w cancelled in er		has complet Tell the PO Cancel each	ely passed the worksite. and workers about the so warning after each trair	econd train wa i has complete	ly passed the worksite.	Operator / nominated team member
Distraction		Obtain perm	nission from PO to use el	ectronic device	es in the Danger Zone.	All
Obstructions t place	o safe	Agree on pa	ths to reach designated	safe places fro	om the worksite.	PO
Electrical storr	ms	Stop work in	nmediately			All



1 1

Briefing date:



Hazards (e.g. Site specific hazards identified, including physical environment, human errors, plant and equipment)	Controls (to be implemented to eliminate or reduce the risk to the lowest practicable level)	Person responsible for Control



Workplace Supervisor details

name	contact No.
SWMS/SWI Ref #:	
First aider:	
	SWMS/SWI Ref #:

Yes 🛛

Workplace Supervisor acknowledgement

The Workplace Supervisor acknowledges that all identified WHS and rail safety hazards have the appropriate controls in place to manage and/or eliminate the hazards.

signature

Participant Acknowledgement

NOTE: Recipients of the briefing are to question the Briefer if they don't understand any part of this briefing.						
All workers listed below acknowledge	that they:	1				
1. have been inducted to the site		6. have been briefed on the contents	of the Worksite Protection Plan			
2. are free from alcohol and drugs		7. have been shown the Worksite Pr	otection Plan diagram			
3. are free from the effects of fatig	ue	8. understand the kinds and limits of	worksite protection in place			
	Rail Safety Worker Authorisation, trade e.g. Construction Industry Induction	the final site inspection (final site ins	hazards and controls identified during spection must be conducted immediately			
5. must wear the appropriate Pers	onal Protective Equipment (PPE)	before commencing work)				
Mark each check box below with a tick 🗹 if the item applies or a cross 🗷 if the item does not apply.						
have been informed of the requirements of the electrical permit (if			zardous materials/substances on site			
required)	S/SWIs/documented safe work practice	have been briefed on Safety Data	Sheets (SDS)			
for the job		have been briefed on the WHS Ma				
have been instructed in the con SWMS/SWIs	trols recorded in this document and	have been briefed on the hazards	of adjoining worksites/processes.			
Name	Signature	Time of briefing: hh:mm	Amendment briefing: hh:mm and initial			

SWI Custodian: Condition Monitoring Operations Manager

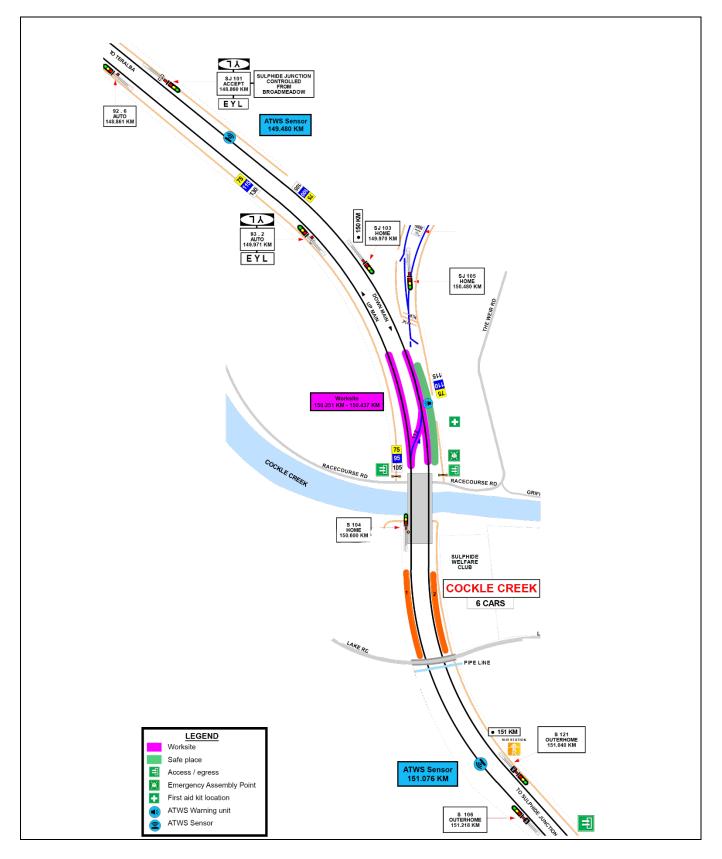


			Broadmeadow	v Panel			9851 7
otection Office	er details			i			
	name		S	ignature			contact
	RSW or RIW No.		des	ignation	Planned	duration	
/orkplace Supe	rvisor details:						
/pe of work:	Routine Maintenance	Activities					
Worksite loc	ation						
On the		U	p Main North line	•			[
between	S106 Outer Hor	ne Signal	and		93.2 Auto \$	Signal	
On the		Dov	wn Main North liı	ne			
between	SJ 101 Accep	t Signal	and	<u> </u>	1 Outer Ho	ma Signal	
							-
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Diagram





INSTRUCTIONS:	 Workers enter the rail corridor via access gate N00 150.394 D
	2. Use assets to validate worksite location on Up and Down Main North lines between 149.480 km to
	151.076 km
	3. Conduct WP Pre-work briefing to set-up ATWS.
	4. Tell Signaller at Broadmeadow Panel about the use of lookout working with ATWS.
Tick if used	 Access Down Cess 149.480 km, verify sensor label & connect to sensor cable, calibrate with test plate, connect and turn on the transmitter.
Tick if used	 Access Up Cess 151.076 km, verify sensor label, connect to sensor cable, calibrate with test plate, connect & turn on transmitter.
	7. Place warning system on same side of tracks if working on one track only within sight & hearing of
	workers, conduct siren & light self test, & connect to transmitter(s).
	8. Record first rail traffic movement test for each sensor on ATWS Check-sheet.
	9. Conduct WP Pre-work briefing for lookout working with ATWS and confirm workers have seen and
	heard the warning.
	10. Start work when advised by the PO, and move to the designated safe place when warned.
	 When work is complete, and workers and equipment are in a safe place, turn off and pack up warning unit
Tick if used	12. Access Down Cess to turn off and pack up transmitter unit(s).
Tick if used	13. Access Up Cess to turn off and pack up transmitter unit(s).
	14. Egress Cess for all workers to leave the rail corridor via access gate N00 150.394 D
	15. Tell Signaller at Broadmeadow Panel when work is completed and the workers and their equipment are clear of the Danger Zone.



Tick if used

Position of ATWS transmitter and sensor on Up Main North line at 151.076 KM

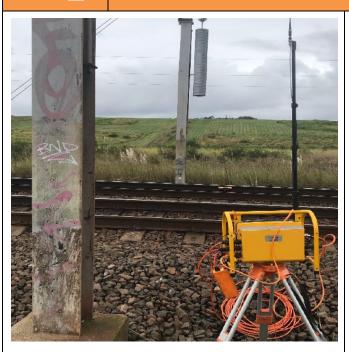




Image 1: Transmitter and sensor installation location

Image 2: Sensor access using access gate N00 151.512 D



Image 1: Transmitter and sensor installation location



Image 2: Sensor access using access gate N00 142.250 D

SWI Custodian: Condition Monitoring Operations Manager SWI Approver: Associate Director Operational Technology UNCONTROLLED COPY WHEN PRINTED OFFICIAL

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Protection Officer's diary

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Date	Time	Notes
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(This page is optional and may be separated and given to the assigned operator to assist set- up of ATWS equipment. Refer also to Refer to "D2015-45354 Wireless ATWS (Automatic Trak Warning System)" for detailed instructions.)

	Setup Stage 1: Checklist for ATWS transmitter and sensor	
Step	Task Description	Installer Check
1	Verify Track Label for location of sensor as per the Protection Diagram and	
	Photos in this document	
2	Confirm equipment is within inspection date	
3	Sensor direction is per Worksite Protection Diagram and photos in this	
	document	
4	Connect sensor cable to junction box	
5	Confirm all batteries are fully charged	
6	Connect junction box to ZFS using channel T1-T4	
7	Commence calibration and automatic self- test	
8	Perform function test using test plate	
9	Confirm transmitter booked in to correct T- channel (T1-T4)	
10	Select & confirm channel for the radio transmitter (AU3 OR AU4)	
11	Perform worksite warning test using test plate	
12	Lock device & remove key	

Setup Stage 2: checklist for ATWS worksite warning unit		
Step	Task Description	Operator Check
1	Confirm equipment is within inspection date	
2	Confirm Audible level	
3	Confirm and set Radio Channel for Warning unit	
4	Book in ATWS sensor 1	
5	Book in ATWS sensor 2	
6	Perform Worksite Warning Test with all ATWS sensor	
7	Ensure the workers have seen the visual warning and heard the audible warning	
8	Select and Confirm Channel for the Radio Transmitter	
9	Confirm worksite warning unit is operational with Installers and advise them to	
	lock devices & remove key	