

## Access to Rail Corridor and Rail Corridor Induction

Presentation to all Utility Service Owners and External Third Parties wanting to access Arc Rail Corridor

June 2020

#### Topics we will cover



- 1. Arc Infrastructure website
- 2. About the Rail Corridor
- 3. Rail Corridor Induction
- 4. Application Process for Services
  - Process
  - Application Form
  - Payment for reviewing Application
  - Guideline Document for Non-Arc Services Crossing in the Rail Corridor
- 5. Communication Protocol for Emergency Works
- 6. Questions

## Arc Infrastructure website - www.arcinfra.com



The website is the best source of up-to-date information about the rail corridor.

You will find the current versions of:

- Arc Network Safeworking Rules
- Application forms
- Guideline documents

The link to the Rail Corridor Induction Course is also available on the website.

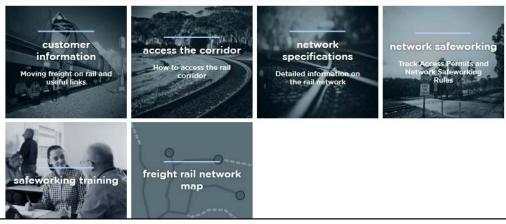


rail network

Arc Infrastructure manages and operates 5,500 kilometres of rail network across the South West of Western Australia.

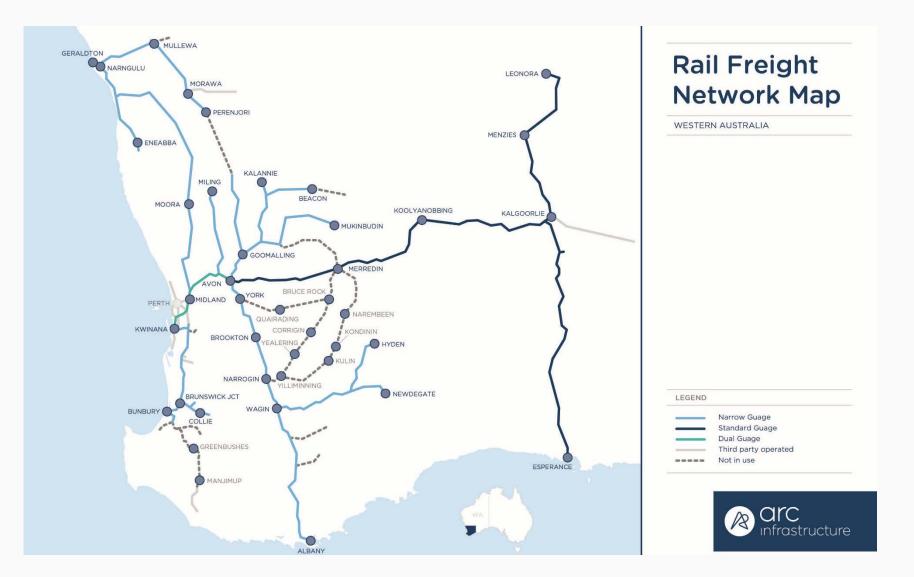
As the only freight rail network in the southern half of Western Australia, our network is vital to providing access to the eastern states of Australia and overseas markets through the region's six government-owned ports.

Arc Infrastructure is a registered electrical contractor (licence number EC011101) registered by the Electrical Licensing Board WA.



### Arc Infrastructure Network Map

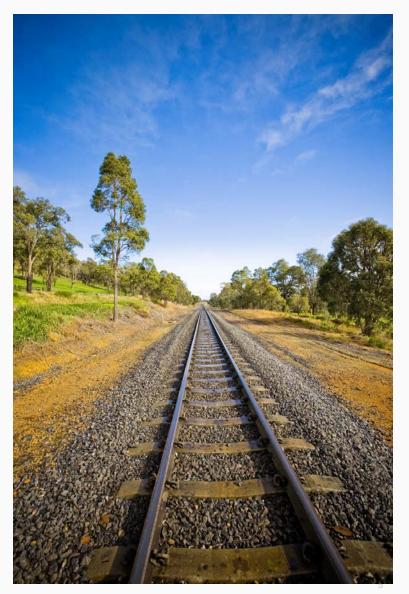




#### The Rail Corridor



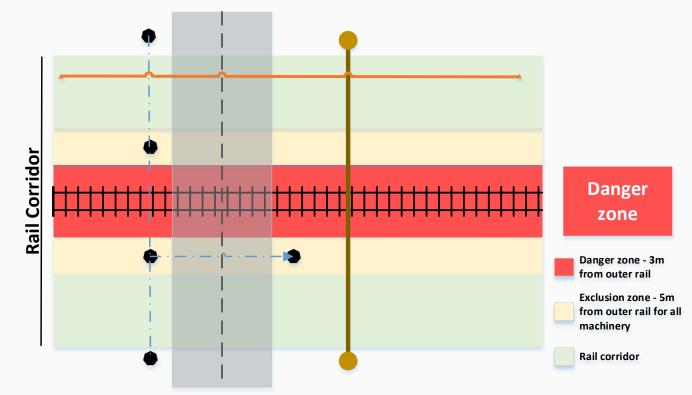
- Corridor Land means land designated as corridor land under Part 3 of the Rail Freight System Act 2000 (WA).
- The Arc Rail Corridor is private property and trespassing is a reportable event.
- Not all boundaries are fenced in some cases the boundary is 5m from outer track and in some areas 60+m from outer track.
- Cadastre boundaries are found on Nearmap and Landgate. Rail Corridor boundaries are shown on Landgate
- Operational and non-operational lines are treated the same with regard to third party application reviews



## **Rail Corridor – Danger Zone**



- The Danger Zone (area in red) no person is allowed within the danger zone without a Protection Officer on site to liaise with Network Control. <u>Danger zone include airspace</u> <u>above and space under ground of the horizontal plane of 3m.</u>
- No plant/machinery is allowed within the 5m exclusion zone without a Protection Officer on site to liaise with Network Control.



## **Introducing the Rail Corridor Induction**



- We have identified that third party contractors who are required to undertake work within the rail corridor may benefit from greater understanding of the associated risks and hazards.
- The Rail Corridor Induction is designed to enhance the safety of everyone who uses the rail corridor and was launched on 1 July 2020.
- It is a mandatory training course that third party contractors must complete prior to accessing the rail corridor.
- The training for the Rail Corridor Induction is completed online and available 'on demand'.
- Third parties can access the online training course via a link on the Arc Infrastructure website. We also provided the link to third parties directly when the online training course was launched.



- The Rail Corridor Induction <u>does not</u> replace the formal application process third parties currently use to request access to the rail corridor to complete inspections and other work activities.
- The Rail Corridor Induction <u>does not</u> replace any existing training requirements. If a third party contractor is required to work closer than 5m to the nearest rail, they are still required to complete a Supervised Worker or Protection Officer Safeworking course and obtain a Track Access Permit (TAP) relevant to their tasks.
- If a third party contractor already holds a Track Access Permit (TAP) they <u>do not</u> need to complete the Rail Corridor Induction.



Topics include:

- minimum PPE requirements
- fit for work information
- speed limits
- entering and exiting the rail corridor safely
- environmental considerations
- what to do in the event of an emergency

## **Rail Corridor Induction – what does it cost?**



- Arc will offer a 'grace period' of eight weeks from the launch of the Rail Corridor Induction for third parties to complete the training <u>at no charge.</u>
- From 1 September 2020, the Rail Corridor Induction will cost \$50 and be valid for 12 months.
- After this 12 month period the induction will need to be completed again if the third party contractor still requires access to the rail corridor.
- Proof of completion will need to be shown by all third party contractors working in the rail corridor from 1 September 2020.

## **Application Process for Services**



• Application to be submitted PTA

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- Arc receives application and issues an invoice to applicant
- When payment has been received Arc reviews application and issues Technical Conditions
- PTA issues Approval with General Conditions and Technical Conditions
- Acknowledge and Acceptance of Conditions by Service Owner
- Submit Geotechnical Report and RSMP if required directly to Arc
- Applicant or Contractor Contact Regional Office to book date for planned works
- Work can commence

• Submit As Constructed Drawing within 30 days of works completion

#### **Application Form**



- All sections must be completed
- Documents to support application:
  - Drawings (site plan and cross section)
  - How will the site be accessed?
  - Work Methodology + SWMS/JSA
  - Clearing permits if required etc

All applications to be submitted to <u>PTAthirdpartyaccess@pta.wa.gov.au</u>

#### Questions can be sent to thirdparty.services@arcinfra.com

Public Transport Authority Public Transport Authority Au						
To be completed in conjunction with Arc Infrastructure (Arc) Requirements for Services & Pipelines crossing Rail Corridor and/or Rail Lines						
PTA Ref No	Service Ow	-		Proposed Da	te for Wor	ks
1. Applicant/Con	tractor Details					
	ame, address and co	ntact details for	the Applicant/Co	ntractor if differ	ent from t	he Service Owner
Title	Name & Surname					
Organisation						
Position						
Postal Address						
Suburb			Postal Cod	e	State	
Phone No			Mobile No			
Email Address						
2. Proposed Ser	vice Owner Details					
Please provide na	ame, address and co		the Service Own	er if different fro	om the Ap	plicant/Contractor
Title	Name & Surname					
Organisation						
Position						
Postal Address						
Suburb			Postal Code	e	State	
Phone No			Mobile No			
Email Address						
3. Applicant/Con Please describe t	tractor Details he role of the individ	ual/organisatior	n making this appli	ication, please	tick the ap	propriate boxes
Land Owner		Utility Owne		Contractor on b		
Project Manag		Local Autho	nty 🗆 (	Contractor on b	enalf of Lo	ocal Authority
Contractor on	behalf of Other	Other				
4. Application Ty						
No work shall be d	lone on site until payr Intrusive survey			entation has be Underbo		ed Non-standard
Non-intrusive	Geotech	Third Party W	ork Activity	new wor		Installation

W 830 300 001 Rev 1.0	W 830 300 001 Rev 1.02 Page 1 of 5					
\$350.00	\$800.00	\$800.00	\$800.00	\$3000.00		
- Topographic surveys - Visual inspections only / no treatments - Hauling cable through existing 3 <sup>rd</sup> party duck & pit network - Collecting water samples	- Geotechnical surveys, i.e. test pits, bore holes, monitoring wells	Excavation pits     Pole Maintenance     Pole replacement within Rail Corridor     and/or affecting overhead conductors     Installation / replacement of low/high     voltage power lines     Pipe Maintenance     Pit / Access chamber replacement     Removal of Service /     Decommissioning	- Installation of directionally drilled/micro tunnelled pipe sleeve / conduit less than 300mm in diameter	- Major installations underbore in excess of 300mm in diameter, - Non-service installation i.e. chemicals, caustics, parallel installations		
Non-intrusive	Geotech	Third Party Work Activity	new works			

#### **Application Process – timeframe**



- Normal timeframe is 60 working days (12 weeks).
- All applications are reviewed on case-by case-۰ basis.
- Submitting a completed form with all relevant ۲ documents helps in reducing the review timeframe.
- Applications are valid for one year. ٠

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PTA Ref No	Service Own	ner Ref No	Pro	posed Date for We	orks
1. Applicant/Con	tractor Details				
Please provide na	ame, address and co	ntact details for ti	ne Applicant/Contrac	tor if different from	the Service Owner
Title	Name & Surname				
Organisation					
Position					
Postal Address					
Suburb			Postal Code	State	•
Phone No			Mobile No		
Email Address					
Postal Address Suburb			Postal Code	State	
			Mobile No		
			INDUIC IND		
Phone No			NUDDIE NO		
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Phone No Email Address 3. Applicant/Cor Please describe t Land Owner Project Manag	the role of the individu er	Utility Owner	naking this applicati		Utility Owner
Phone No Email Address 3. Applicant/Con Please describe ( Land Owner	the role of the individu er	Utility Owner	naking this applicati	ractor on behalf of	Utility Owner
Phone No Email Address 3. Applicant/Corr Please describe t Land Owner Project Manag Contractor on	the role of the individu per behalf of Other	Utility Owner	naking this applicati	ractor on behalf of	Utility Owner
Phone No Email Address 3. Applicant/Cor Please describe 1 Land Owner Droject Manag Contractor on 4. Application Ty	the role of the individu per behalf of Other	Utility Owner Local Authorit Other	naking this application Cont y Cont	ractor on behalf of ractor on behalf of	Utility Owner Local Authority
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Pipe Maintenance

Removal of Service /

Decommissioning

Pit / Access chamber replacement

\$800.00

nonitorina wells

\$800.00

party duct & pit

\$350.00

W 830 300 001 Rev 1.02

wate

network

samples

Collecting

sleeve / conduit

less than 300mr

\$800.00

in diameter

stallation i.e.

chemicals, caustics,

parallel installations

\$3000.00

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### **Application Process – timeframe**



There are two streams for application reviews:

- Works within the Danger zone and Exclusion zone – General and Technical Conditions are provided to the applicant by PTA.
- Works on the rest of the corridor and not encroaching in/over the danger and exclusion zone – Access Conditions with and Indemnity form are provided directly to the applicant by Arc.

Public Autho	<b>c Transport</b> rity	Works relat	<u>ation Form</u> ting to Services ail Corridor Land		I <b>rC</b> frastructure
To be o	ompleted in conjunct		tructure (Arc) Requir ridor and/or Rail Lin		& Pipelines
PTA Ref No	Service Ow	-		roposed Date for W	orks
1. Applicant/Cor	ntractor Details				
	ame, address and co	ontact details for t	he Applicant/Contra	actor if different from	the Service Owner
Title	Name & Surname	•			
Organisation					
Position					
Postal Address					
Suburb			Postal Code	State	•
Phone No			Mobile No		
Email Address					
Title Organisation Position	Name & Surname				
Postal Address Suburb			Postal Code	State	
Phone No			Mobile No	State	,
Email Address			NODIE NO		
3. Applicant/Cor	the role of the individ	lual/organisation ( Utility Owner Local Authorit		<i>ion, please tick the i</i> ntractor on behalf of ntractor on behalf of	Utility Owner
Contractor on 4. Application T	уре	Other			
Non-intrusive	done on site until payr Intrusive survey Geotech	Third Party Wo		Underbore for new works	Non-standard Installation
- Topographic surveys		- Excavation pits - Pole Maintenand	e .	- Installation of	- Major installations

- Topographic surveys - Visual inspections only / no treatments - Hauling cable through existing 3 <sup>rd</sup> party duct & pit network - Collecting water samples	- Geotechnical surveys, i.e. test pits, bore holes, monitoring wells	Excavation pits     Pole Maintenance     Pole replacement within Rail Corridor     and/or affecting overhead conductors     Installation / replacement of low/high     voltage power lines     Pipe Maintenance     Pit/ Access chamber replacement     Removal of Service /     Decommissioning	- Installation of directionally drilled/micro tunnelled pipe sleeve / conduit less than 300mm in diameter	- Major installations underbore in excess of 300mm in diameter, - Non-service installation i.e. chemicals, caustics, parallel installations
\$350.00	\$800.00	\$800.00	\$800.00	\$3000.00
W 830 300 001 Rev 1.02	2		-	Page 1 of 5

#### **Application Process – Payment**



- 1. When Arc receives the application an invoice is issued to the applicant.
- 2. Payment can be made by credit card via secure Payway system.
- 3. Invoice has the option for credit card payment or direct deposit.
- 4. Applications are reviewed upon receipt of payment or proof of payment.

Public Author	: Transport <sup>rity</sup>	Works relat	<u>ation Form</u> ing to <b>S</b> ervices ail Corridor Land		r <b>C</b> frastructure
To be o	ompleted in conjunct		ructure (Arc) Require	ements for Services & es	Pipelines
PTA Ref No	Service Ow	mer Ref No	P	roposed Date for We	orks
1. Applicant/Con	tractor Details				
Please provide na	ame, address and co	ontact details for t	he Applicant/Contra	actor if different from	the Service Owner
Title	Name & Surname				
Organisation					
Position					
Postal Address					
Suburb			Postal Code	State	
Phone No			Mobile No		
Email Address					
2 Proposed Ser	vice Owner Details				
		ontact details for ti	he Service Owner ii	f different from the A	pplicant/Contractor
Title	Name & Surname				
Organisation					
Position					
Postal Address					
Suburb			Postal Code	State	
Phone No			Mobile No		
Email Address					
3. Applicant/Con	tractor Details				
		lual/organisation r	naking this applicat	tion, please tick the a	appropriate boxes
Land Owner		Utility Owner		tractor on behalf of	
Project Manag	er	Local Authorit	y 🗆 Cor	tractor on behalf of	Local Authority
Contractor on	behalf of Other	Other			
A Application T					
4. Application Ty No work shall be d		ment has been reco	eived and document	tation has been accep	ted
Non-intrusive	Intrusive survey	Third Party Wor		Underbore for	Non-standard
- - Topographic surveys - Visual inspections	Geotech	- Excavation pits - Pole Maintenanc		new works     - Installation of	- Major installations underbore in excess
only / no treatments - Hauling cable	surveys, i.e. test	- Installation / repl	verhead conductors acement of low/high	directionally drilled/micro tunnelled pipe	of 300mm in diameter,
through existing 3rd	pits, bore holes,	voltage power line	voltage power lines		- Non-service

party duct & pit

\$350.00

W 830 300 001 Rev 1.02

network

samples

Collecting

nonitoring wells

\$800.00

Pipe Maintenance

Removal of Service /

Decommissioning

Pit / Access chamber replacement

\$800.00

less than 300m

\$800.00

in diameter

stallation i.e

chemicals, caustics,

\$3000.00

Page 1 of 5

parallel installations

# Arc Requirements for Non-Arc services Crossing in the Rail Corridor



- This Document provides technical requirements for non-Arc related services in the rail corridor.
- Arc uses AS4799 as the minimum requirements, however in some cases Arc's requirements are greater to protect the rail formation, rail traffic and the service.

	Non Arc Infrastructure Services Crossing Rail Co	🖤 infrastructur			
Note: As per AS4799:2000 3.11 Any renewal	or replacement of a service, or pipeline, shall be considered as a	new installation. W 880 300 001 Rev 1.			
All requirements of AS4799:2000 (Installati	on of underground utility services and pipelines within railway b specifically agreed and approved by Arc Infrast	boundaries), as a minimum, shall be considered mandatory unless ructure			
Services containing toxic or noxious substances will not be permitted on the Rail Corridor					
General Requirements for all services in Rail Corridor Land	Service or pipeline shall cross the tracks at 90°± 10° Service installations parallel to the rail line are not permitted. Cathodic Protection is not permitted				
Plans/Drawings and Information	pipelines shall be drawn to scale showing their relation to railw overhead wiring structures and ( Drawings shall provide accurate identification of the positions o	ular compliance with section 2.3.2.1 "Plans of the proposed services on ay tracks, other services and pipelines (above or below ground level), other facilities, properly boundaries if proposed services in plan and level with respect to existing Arc Rall nd infrastructure			
Structural Calculations (Pipes, Sleeves and Pipe liners)	For all pipes (including sleeves) which are directly buried under rail track and are within railway loading influence zone shall be designe required structural loading. The structural loading applied on to the pipes shall be as per ASS100.2. For all Narrow Gauge lines, railw loading of 250LA and for all Standard Gauge lines, railway loading of 300LA within appropriate Dynamic Load Allowance (DLA) shall applied for structural calculations to determine required pipe strength, class & wall thickness. A Report with summary and all structural calculations shall be provided. For pipes crossing access roads a minimum loading of SM10 shall be used for structural calculations in structural calculations are rest.				
Work Methodology statement	The Work Methodology Statement should include, as minimum the following sections Work Methodology Plant and Mechanical detail Process parameters (e.g. grout pressure, face pressure etc) Process parameters onsite inspection and testing plan				
Geotechnical Report	involving ground disturbance in the corridor and outside the co infrastructure (Details to be included: proposed mud pressure f parameters deriv Correct access protocols shall be adopted for the geotechnical in you Dig, service locations and all other protocol mandated by I adequate to fully and properly characterise the subsurface condit	ering ground conditions and natural water levels is required for works cridor if the zone of influence of the works will impact Arc's corridor or for pilot hole and back rearming, calculated affects, using geotechnical ed from investigations). vestigations in complete accordance with Arc requirements. Dial before Julity operators. The intent of the geotechnical investigations shall be ions under the corridor along the alignments of the proposed works tha fluenced by Arc installations.			
Service clearances from railway infrastructure (i.e. Platforms, signalling equipment, masts etc.)	Minimum of 3000mm, in accordance with AS4709 Section 3.2.6 or diameter of largest encasing pipe whichever is the greatest				
Drainage	Services or pipelines shall not impede the free flow of drainage along the Rail Corridor: Reference AS4799 Section 3.2.7 Draining onto the Rail Corridor is not allowed (Rail Freight System (Corridor Land) Regulations 2000)				
Markers	Markers shall be provided and maintained in accordance with AS4799 Section 3.10 to indicate location of underground services and depth of service				
Worksite Inspections		Network Safeworking Rules and Procedures			

#### **Communication Protocol for Emergency Works in the Rail Corridor**

The procedure set out in this section is limited to emergencies which are likely to cause imminent risk to people and property.

Arc's obligations derive from:

- *Rail Safety National Law 2015* (WA) and ancillary regulations
- Occupational Safety& Health Act 1984 (WA) and ancillary regulations
- Emergency Management Act 2005 (WA) and regulations
- Arc Infrastructure's Rail Network Safeworking Rules and Procedures 2020 (updated from time to time). The current version is available from <u>www.arcinfra.com</u>

Communication Protocols for Emergency Works in Arc Infrastructure Rail Corridor

W503 300 017 Revision Number 1.00

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Owner		Karen Van Der Merwe	Corridor Services Officer	Mare
Reviewer		Andy Summers	Governance & Risk Partner	Pg
Reviewer		Rad Smith	Head of Operations & Customer Management	AR
Reviewer		Michael Bourke	Head of Engineering	Re
Reviewer		Danlel Ellis	Head of Maintenance Delivery	OD.
Approver		Sudip Saha	Head of Major Projects	Sudigenel





#### **Communication Protocol for emergency works in the Rail Corridor**

It is an offence to enter the Rail Corridor without:

- possessing a valid Track Access Permit (TAP); or
- being supervised by an Arc accredited Protection Officer (as per Arc Safeworking Rule 1004).

Communication Protocols for Emergency Works in Arc Infrastructure Rail Corridor

W503 300 017

Revision Number 1.00

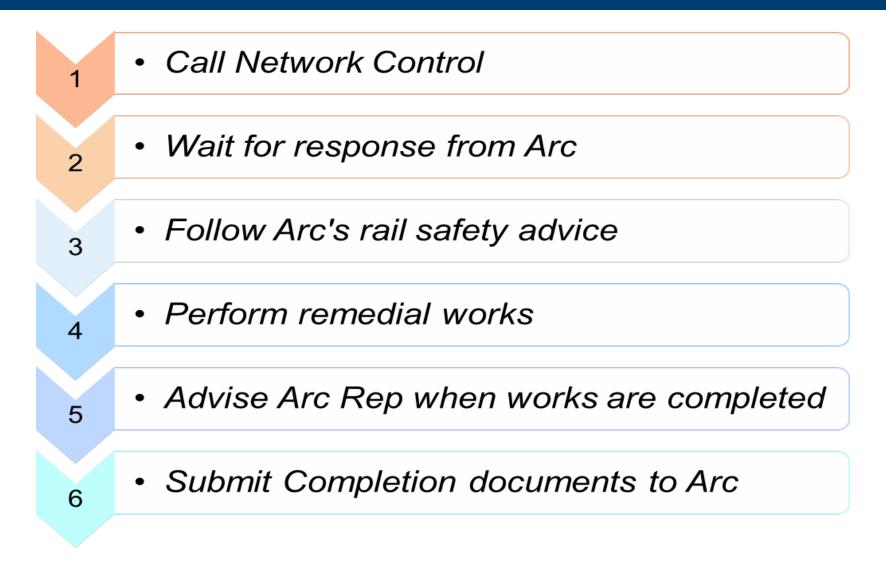
	Dale	Name	Tifle	Signaturo
Owner		Karen Van Der Merwe	Corridar Services Officer	Maria
Reviewer		Andy Summers	Governance & Risk Partner	Al-
Reviewer		Rad Smith	Head of Operations & Customer Management	AR
Reviewer		Michael Bourke	Head of Engineering	Re
Reviewer		Danlel Ellis	Head of Maintenance Delivery	DE.
Approver		Sudip Saha	Head of Major Projects	Sucher Sals

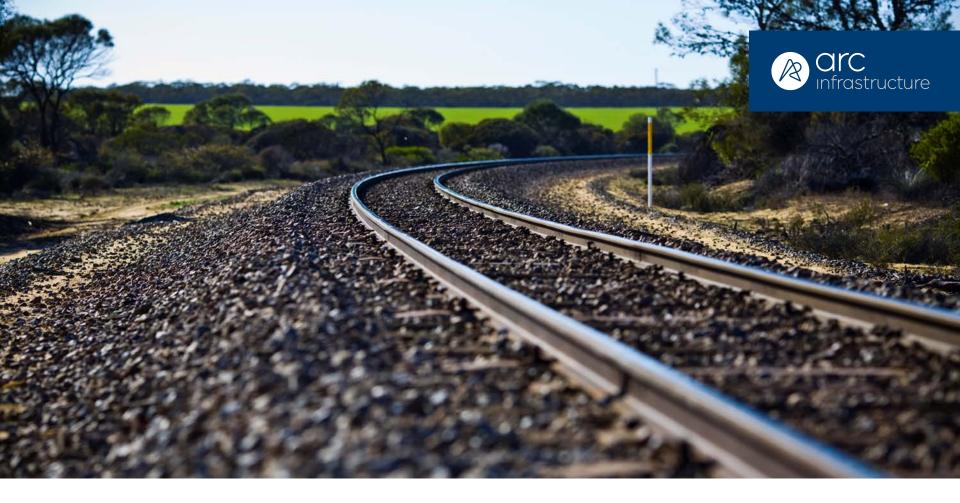




**Communication Protocol for Emergency Works in the Rail Corridor** 







Please contact us if you have any questions.

Services: Projects: Corridor Planning: thirdparty.services@arcinfra.com thirdparty.projects@arcinfra.com corridor@arcinfra.com