

Task Risk Control Sheet

Construction Work within Tunnels using RRV's/Wiring Train

RCS No: NR/L3/MTC/RCS0216/OCR05
Issue: 2

	<ul style="list-style-type: none"> • Electrocution • Fall from height • Noise • Musculoskeletal injuries 	Personnel Involved	E&P	✓
			S&T	
			Track	
			Off Track	
			Property	

Tools / Equipment

Calibrated Air Monitoring Equipment

Plant

None

Key Risks	Controls	Implemented By
Planning	<ul style="list-style-type: none"> • The planning team shall take consideration of the tunnel construction in terms of whether it is single or double track, any existing ventilation shafts and also its length. • The Hazard directory will be checked for other risks. • The duration of the work shall be considered and adequate breaks programmed into the work schedule. • Air monitoring shall be carried out continuously while staff are in the tunnel to verify that toxic gas levels are within the safe exposure limits. This can be carried out using a specialist 3rd party company (Scientifics) or trained and competent Network Rail staff. In both cases calibrated equipment will be used at all times. • The Planning Team will ensure that NO plant will be allowed to work on the opposite line to the SRS or wiring train within the tunnel limits. • Only OCR activities will be permitted to be carried out within the tunnel limits. • Control of wiring train units and SRS RRV's in the tunnel to minimize diesel fume emission. • Provision is to be made that if any member of staff feels unwell while in the tunnel, they shall be taken out immediately and medical attention given • Staff shall be selected who are use to working in the environment and do not suffer from claustrophobia or respiratory problems • The use of large fans to create air movement shall be considered in poorly ventilated tunnels or if recommended by Scientifics. 	Planning team Wiring Engineer / OLE Supervisor

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Working within the tunnel	<ul style="list-style-type: none"> The wiring engineer or designated OLE supervisor will ensure that all staff are briefed on this TRSC and will ensure they are aware of their duties when in the tunnel. The Engineering Supervisor will ensure that NO plant will be allowed to work on the opposite line to the SRS or wiring train within the tunnel limits if applicable. The wiring engineer or designated OLE supervisor shall be responsible for checking that air monitoring is being carried out. A site test of any calibrated air monitoring equipment shall be undertaken before any work commences and confirmed to the wiring engineer or designated OLE supervisor by the appointed person that it is operating correctly. The wiring engineer or designated OLE supervisor shall check that all staff are wearing appropriate respiratory protective equipment and eye protection when in the tunnel. If the air monitoring equipment alerts the appointed person of an unsafe condition, he will immediately inform the wiring engineer or designated OLE supervisor. All plant shall be shutdown and staff evacuated. Air levels shall be continually monitored until safe levels are achieved. The appointed person shall advise the wiring engineer or designated OLE supervisor that work can recommence Staff shall not position themselves in limited clearance locations in the tunnel when the wiring train units or RRV's are moving. Additional safety lighting shall be provided if required to identify tripping and other hazards (manholes etc) within the tunnel. The use of petrol generators in the tunnel is forbidden Any diesel engine power packs on the wiring train that are not essential shall be shut down when in the tunnel. Smoking in the tunnel is forbidden Additional breaks shall be used if conditions in the tunnel are hot and humid to prevent heat stress or if the work is strenuous. Biological hazards may be present in the tunnel. Gloves shall be worn when handling components. Any cuts or grazes shall be treated immediately and if necessary attend hospital. Staff with facial hair shall not be allowed to work in the tunnel as the respirator will not seal. Welfare facilities shall be available for staff to clean their hands thoroughly after working in the tunnel and before eating and drinking. Staff shall have access to water. 	Wiring Engineer / OLE Supervisor/ Appointed person COLAS train operator