Task Risk Control Sheet

Network Rail

Working Adjacent to DC Electrified Rails Risk Level 1 - 3

RCS No: NR/L3/MTC/RCS0216/GA20
Issue: 3



- **Electrocution**
- **Burns**
- **Eye damage**

Personnel Involved		
	E&P	✓
	S&T	✓
	Track	✓
	Off Track	✓
	Property	✓

Tools / Equipment	Insulated Tools	Non-conducting measuring equipment
	Conductor Rail Shields	Tools and measuring equipment
Plant		

Work Adjacent to Conductor Rails

- **Risk Level 1 = Tasks where isolation of the conductor rail is needed**
- **Risk Level 2 = Tasks carried out closer than 300mm to the live conductor rail**
- **Risk Level 3 = Tasks carried out more than 300mm from a live conductor rail**

SECTION A - ALL RISK LEVELS

Key Risks	Controls	Implemented By
Struck by train	• See Risk Control Sheets NR/L3/MTC/RCS0216/GA01 – Work on or Near the Line	All Staff
Slips, Trips & Falls	• See Risk Control Sheet NR/L3/MTC/RCS0216/GH02 – Underfoot Conditions	All Staff

SECTION B - RISK LEVEL 1 - MANDATORY ISOLATION

Electrocution / Burns / Eye Damage - Falling onto/ making contact with live rail	• Isolate the conductor rail to the requirements detailed in NR/WI/ELP/3091, 27051 or 27052	Defined Competent Person
	• Issue a Conductor Rail Permit to the COSS or secure a temporary isolation	Authorised Person
	• All staff working adjacent to DC electrified rails shall be trained and competent in PTS (DC) as a mandated minimum requirement	Line Manager
	• Brief all staff in the working party (including contractors) on the Risk Control Sheet for this activity	Team Leader
	• Re-assess the work when a change in work method/scope occurs. Implement additional controls or seek further isolation of the conductor rail as necessary	Team Leader

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SECTION C - RISK LEVEL 2 - WORKING LIVE < 300MM

Key Risks	Controls	Implemented By
Electrocution / Burns / Eye Damage - Falling onto live rail	• All staff working adjacent to DC electrified rails shall be trained and competent in PTS (DC) as a mandated minimum requirement	Line Manager
	• Brief all staff in the working party (including contractors) on the Risk Control Sheet for this activity	Team Leader
	• Consider the actions to be performed and brace against the possibility of falling towards live rail (e.g. tools slipping etc.). • Place sufficient Conductor Rail Shields on the live rail adjacent to the site of work. Leave them in place for the duration of the work • Supervise inexperienced staff closely.	Team Leader / Staff
	• Staff and contractors shall be competent in the activity under these conditions (working live) and follow the method of work / work instructions. If the method of work changes for any reason stop the work and re-assess. Implement additional controls or request an isolation of the conductor rail	Line Manager / Team Leader
Electrocution / Burns /Eye Damage – Contact with live rail with tools, work equipment or parts of the body	• Confirm that tools greater than 300mm in length shall be insulated to BS 8020. • Use Insulated tools (Unless specifically excepted by the DU WHS&EA) • Place sufficient Conductor Rail Shields on the live rail adjacent to the site of work. Leave them in place for the duration of the work • Do not use metal (conducting) measuring equipment or tapes. Their use is prohibited	Team Leader / Staff
	All above controls apply at guard board locations. Seek advice if guarding prohibits correct fitting of conductor rail shield	Line Manager / Team Leader
Electrocution / Burns / Eye Damage - Defective tools and equipment	• Check tools and equipment prior to use. Replace if damaged, particularly the insulation of the tools and Conductor Rail Shields	Line Manager / Team Leader / Staff

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