

ANGE 222

# Working Around Electrical Infrastructure

## Applicability

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NSW
SMS

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## Publication Requirement

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External Only
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## Document Status

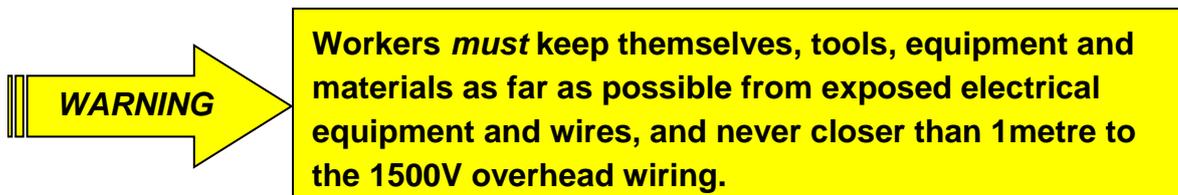
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Issue/Revision #	Effective from
2.0	11 October 2015

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## Purpose

To prescribe the rules for non-*infrastructure* workers working around *electrical infrastructure* in the *Australian Rail Track Corporation (ARTC) NSW Network*.



## General

Infrastructure workers must comply with the requirements specified in the *Maintenance Representative's Electrical Safety Instructions*.

Workers in the vicinity of exposed electrical equipment and wires in the *Rail Corridor* must keep or be kept at safe distances.

Unless they are told by an *Electrical Representative* that they are not live, untrained workers must treat as live:

- electrical equipment
- fallen electrical wires
- vehicles, equipment or objects in contact with wires or fallen wires
- water or fires in contact with electrical infrastructure.

Workers must treat objects caught in or touching overhead wiring as live. Only *Electrical Representatives* *may* remove these objects.

## Electrical infrastructure

Electrical infrastructure includes:

- high-voltage and low-voltage wires, and electrical equipment, on poles
- 1500V overhead wiring and associated equipment
- electrical conductors carried in above-ground troughs, or buried in the ground
- low-voltage electrical switchrooms
- substations.

## Working near electrical infrastructure

Unless *authorised* in accordance with the requirements specified in the Maintenance Representative's Electrical Safety Instructions, workers must not climb on top of rail vehicles on an electrified *track*.

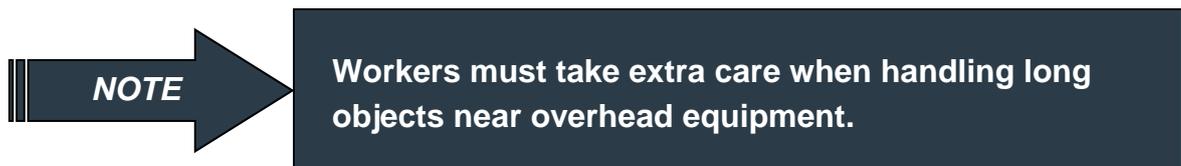
### Work above electrical equipment

Workers must not cause water or debris to fall onto 1500V overhead wiring.

### Work tools and equipment

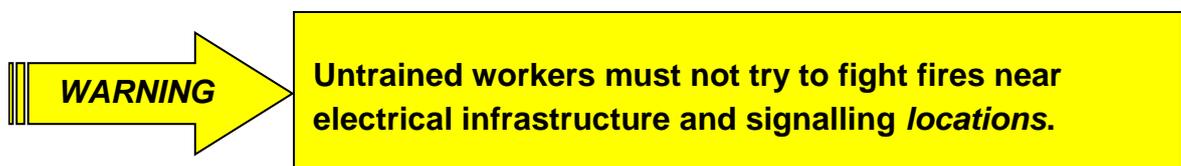
Workers must not use metal or metal-reinforced ladders within 6 metres of 1500V overhead wiring or equipment.

Steel tapes, metal-reinforced linen tapes and long steel rules may be used only in accordance with the Maintenance Representative's Electrical Safety Instructions.



## Underground services

Before the whereabouts of buried services and underground cables are known, workers must not dig, break the ground or drive anything into the ground.



## Faults in electrical infrastructure

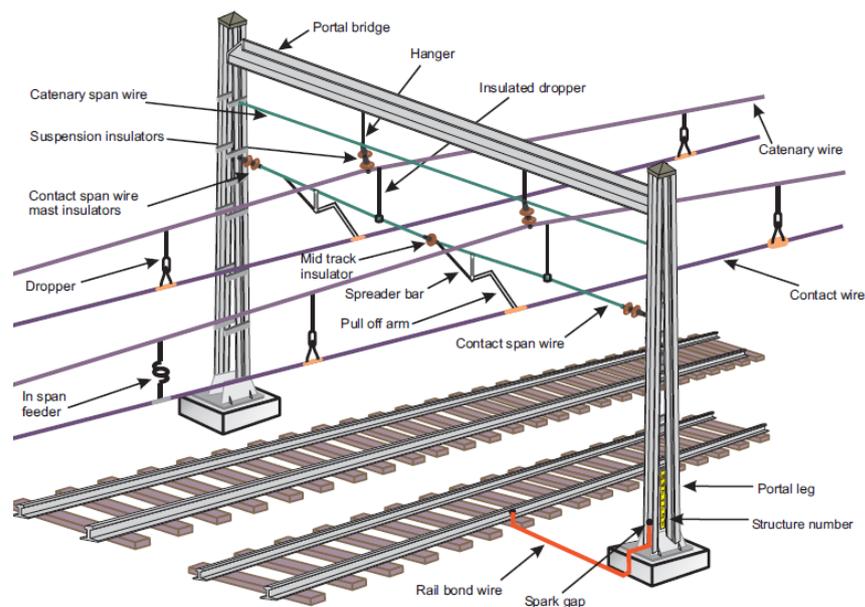
Workers who see or suspect faults, fallen wires or fires in the electrical infrastructure must immediately tell the *Network Control Officer*.

The Network Control Officer must tell the *Electrical System Operator*.

## Illustrations

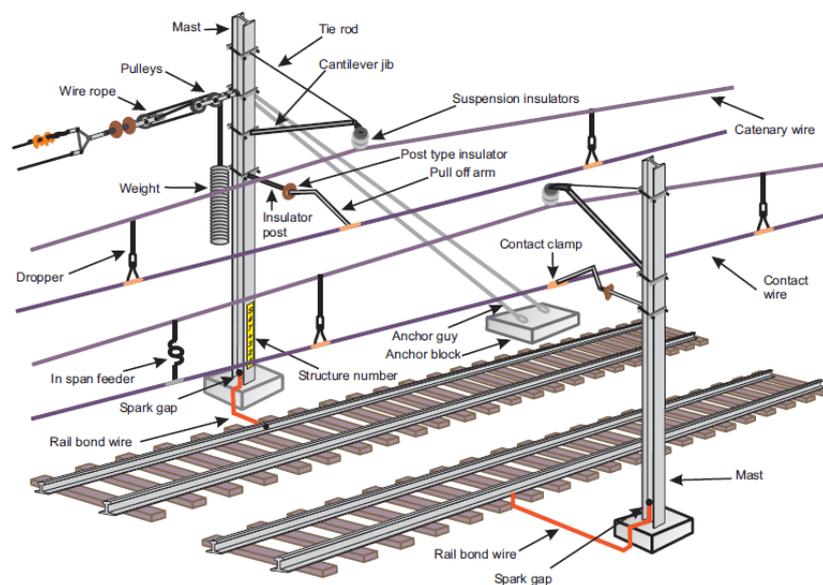
If possible, refer to these diagrams to report faults, fallen wires or fires in 1500V overhead wiring.

**Figure ANGE 222-1**



Simple catenary, fixed-anchored, span-wire construction on portal structures

**Figure ANGE 222-2**



Simple catenary, regulated-tension, cantilever construction on masts

## Related ARTC Network Procedures

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NIL

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## Effective Date

11 October 2015