

PUBLIC TRANSPORT AUTHORITY
SAFEWORKING RULES AND PROCEDURES

2019
PLANNED
DE-ENERGISATION
OF OVERHEAD
SUPPLY

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1. PURPOSE

The purpose of this rule is to outline the process for planned *De-Energisation* and restoration of *Overhead Supply* in the Public Transport Authority (PTA) *Network*.

Removing *Overhead Supply* requires coordination between the *Train Controller* and *Electric Control Officer (ECO)*.



WARNING

De-Energisation of the *Overhead Supply* does not prevent *Rail Traffic* from operating within the *De-Energised* area.

2. GENERAL

Only *Train Controllers* may give *Authority* for the *De-Energisation* of *Overhead Supply*.

Overhead Supply must be *De-Energised* only:

- if all prescribed approvals have been obtained; and
- in accordance with the requirements specified in **Rule 2017 Working Around Electrical Infrastructure**.

3. ADVERTISING OVERHEAD SUPPLY DE-ENERGISATION

Planned *De-Energisation* of the *Overhead Supply* must be *Advertised* by the *Electrical Representative*.

4. DE-ENERGISATION OF OVERHEAD SUPPLY

The *ECO* prepares a *Blocking of Track Sections* for Electric Traction Purposes (BF) form for *De-Energisation* of *Overhead Supply*, and issues the BF to the *Train Controller*.

If *De-Energisation* of *Overhead Supply* affects more than one *Train Controller*, the *Train Controllers* for the affected areas must confer and give clearance to *De-Energise* the *Overhead Supply* on the BF.

The *ECO* must obtain *Authority* from the affected *Train Controllers* before *De-Energisation* of the *Overhead Supply*.

4.1. AFFECTED TRAIN CONTROLLERS

The affected *Train Controllers* must make sure that the details for the *De-Energisation of Overhead Supply* are correct and:

- give *Authority* to the *ECO*; and
- make a *Permanent Record* about the *De-Energisation of Overhead Supply*.

4.2. ELECTRIC CONTROL OFFICER AND TRAIN CONTROLLERS

Before *De-Energisation* of the *Overhead Supply*, the *ECO* must inform the *Train Controller* of the affected *Electrical Section*. The *Train Controller* must check the *Electrical Section* on the *Train Control* system.

The *ECO* and the *Train Controller* must confer and make sure that details about the *Authority to De-Energise the Overhead Supply* correspond with the *Overhead Sectioning Diagram*.

The *Train Controller* must make sure that, in the *Electrical Section* to be *De-Energised*:

- there is no *Rail Traffic* requiring electric traction that might need to be moved during the period of *De-Energisation*; and
- the *Pantographs* of *Rail Traffic* have been lowered.

4.3. TRAIN CONTROLLERS

The *Train Controller* must make a *Permanent Record* of the *De-Energisation of Overhead Supply* before giving clearance.

The *Train Controller* must prevent *Rail Traffic* from entering the *Electrical Section* by:

- setting *Signals* at Stop;
- applying *Blocking Facilities*; and
- making sure that *Protection* has been applied to prevent entry by way of unsignalled *Routes*.

4.4. ELECTRIC CONTROL OFFICER

Make sure that the prescribed *Authorities* have been given by the affected *Train Controller*.

De-Energise the Overhead Supply.



WARNING

De-Energisation of the *Overhead Supply* may happen sometime after clearance.

5. AUTHORISING TRAVEL BETWEEN LIVE AND DE-ENERGISED SECTIONS

The *ECO* must *Authorise* the temporary removal of *Blocking Facilities* for non-electric *Rail Traffic* to enter the *De-Energised Section*.

The *Train Controller* must not permit electric *Rail Traffic* to enter or leave a *Section* where the *Overhead Supply* has been *De-Energised* unless:

- their *Pantographs* have been lowered and air supply isolated; and
 - they are hauled by non-electric *Locomotives*.
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6. RESTORING OVERHEAD SUPPLY

The *ECO* must coordinate the restoration of the *Overhead Supply*.

Overhead Supply must be restored in accordance with the requirements specified in **Rule 2017 Working Around Electrical Infrastructure**.

The *ECO* must tell the affected *Train Controllers* when the work has been completed and *Overhead Supply* has been restored.

Affected *Train Controllers* must make a *Permanent Record* of the time when *Overhead Supply* was restored.

If *Blocking Facilities* are no longer needed the *Train Controller* must remove the *Blocking Facilities*.

7. REFERENCE

Rule 2017 Working Around Electrical Infrastructure

8. EFFECTIVE DATE

4 December 2017

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