

Introduction

Removing 1500V supply requires coordination between Network Controllers and Electrical System Operators.

Life-threatening and emergency circumstances

In life-threatening circumstances, the Electrical System Operator may remove the 1500V supply before telling the Network Controller.

In emergency circumstances, the Electrical System Operator and affected Network Controllers coordinate removal of 1500V supply. The Network Controllers coordinate the 1500V supply removal with affected Signallers.

Electrical System Operator and Network Controllers

- 1. If practicable:
 - arrange a teleconference between the person making the call, yourself and the Network Controllers or the Electrical System Operator
 - get as much information about the life-threatening or emergency situation from the caller as possible.

Electrical System Operator

- 2. Remove the 1500V supply from the affected overhead wiring sections.
- 3. As soon as possible, tell Network Controllers about the removal of the 1500V supply.
- 4. If the 1500V supply has been removed to allow a rescue operation, give the Network Controller a Rescue Power Outage number.
- 5. As soon as practicable, use the colour *1500V Sectioning Diagram* to tell the Network Controller about the overhead wiring sections from which the 1500V supply has been removed.
- 6. Record, in permanent form, details about the removal of the 1500V supply and, if issued, the Rescue Power Outage number.

🚺 Warning

In life-threatening situations or for rescue operations, the 1500V supply must also be removed from adjacent sections that could allow the affected section to be electrified by the passage of a train.

RailSafe

Network Controllers

- 7. Tell affected Signallers about the Condition Affecting the Network (CAN) and the isolated 1500V overhead wiring sections.
- 8. Get assurance from the Signallers that:
 - signals controlling entry to the isolated 1500V overhead wiring sections have been set at STOP, with blocking facilities applied
 - protection has been applied to prevent entry by way of unsignalled routes.
- 9. Once the Rescue Power Outage has been obtained, tell the emergency services control centre that:
 - the 1500V supply has been removed for rescue purposes only
 - a Rescue Power Outage number is authorised for rescue operations at that location
 - as far as possible, rescue personnel should avoid going near overhead wiring.

Signallers

- 10. Tell Drivers in affected areas:
 - about the CAN
 - that the 1500V supply has been removed for rescue purposes only
 - that people not directly involved in rescue operations must be kept away from overhead wiring.

Network Controllers and Signallers

11. Record, in permanent form, details about the CAN and the removal of the 1500V supply.

Removing 1500V supply for urgent engineering work

If urgent work on infrastructure is needed to prevent a Network failure, the 1500V supply may be removed without being advertised.

Maintenance Representative

1. Ask the Electrical System Operator to remove 1500V supply for urgent engineering work.

Electrical System Operator and Network Controllers

- 2. Confer and agree about:
 - the overhead wiring sections to be isolated
 - when the 1500V supply can be removed.

RailSafe

Electrical System Operator

- 3. Prepare an Authority for Removal of Supply from 1500 Volt Sections form with the agreed details.
- 4. Issue the *Authority for Removal of Supply from 1500 Volt Sections* form to the Maintenance Representative and affected Network Controllers.
- 5. When 1500V supply removal is due, ask the Network Controller to give the clearance to remove the 1500V supply.

Network Controllers

- 6. Get assurance from the Electrical System Operator and Signallers that:
 - parties are using the current colour version of the *1500V Sectioning Diagram*
 - the details of the Authority for Removal of Supply from 1500 Volt Sections form correspond with the 1500V Sectioning Diagram.
- 7. Make sure or get assurance that the sections to be isolated are clear of vehicles requiring electric traction that may need to be moved during the period of isolation from the 1500V supply.
- 8. Get assurance from Signallers that protection has been applied to:
 - controlled absolute signals
 - unsignalled routes allowing entry to the sections to be isolated.
- 9. Give the Electrical System Operator clearance to remove the 1500V supply.
- 10. Tell Signallers that you have given clearance to the Electrical System Operator to remove the 1500V supply.
- 11. Record, in permanent form, details about the clearance for the removal of the 1500V supply.

Signallers

12. Compile an *Advice 1500 Volt Supply removed/restored* form to record removal of the 1500V supply.



Restoring 1500V supply

After issue of an Authority for Removal of Supply form

If an Authority for Removal of Supply from 1500 Volt Sections form was issued.

Electrical System Operator

1. Tell the coordinating Network Controller when you restore the 1500V supply.

Coordinating Network Controller

2. Tell affected Network Controllers and Signallers that the 1500V supply has been restored.

Affected Network Controllers and Signallers

3. Record, in permanent form, the time when the 1500V supply was restored.

After emergency removal of 1500V supply

The Network Controller may authorise the 1500V supply to be restored only after receiving assurance that rescue personnel and their equipment are clear.

This assurance can only be given by:

- the Qualified Worker managing the rail response to the incident, or
- the emergency services control centre.

Electrical System Operator

1. Tell the Network Controller when the 1500V supply is restored.

Network Controllers

- 2. Tell affected Signallers that the 1500V supply has been restored.
- 3. If blocking facilities are not needed for work on track, arrange for Signallers to remove:
 - signal protection from isolated overhead wiring sections
 - protection applied to unsignalled routes.

Network Controllers and Signallers

4. Record, in permanent form, the time when the 1500V supply was restored.

Related Documents

Nil