

Procedures

NPR 706 Removing 1500V supply in Electric Vehicle Maintenance Centres

Description

This document describes the procedure for removing the 1500V supply in Electric Vehicle Maintenance Centres.

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Introduction

Removing 1500V supply to allow engineering work in Electric Vehicle Maintenance Centres (EVMCs) has specific procedures for:

- roads with individual combined isolating and rail-connecting switches
- areas including more than roads with individual combined isolating and rail-connecting switches.

Roads with individual combined isolating and rail-connecting switches

Removing 1500V supply

Electrical Representative

- 1 At least 24-hours before the intended starting time, compile a *Notification for the Removal of 1500 Volt Supply in EVMCs* form.
- 2 Issue the *Notification for the Removal of 1500 Volt Supply in EVMCs* form to the Officer in Charge of the EVMC.
- 3 If a groundframe can be used to gain entry to the roads to be isolated, give additional copies of the *Notification for the Removal of 1500 Volt Supply in EVMCs* form to the Officer in Charge of the EVMC.

Officer in Charge of the EVMC and Running Supervisor

- 4 Sign the *Notification for the Removal of 1500 Volt Supply in EVMCs* form to acknowledge receipt.
- 5 Confer and agree about the details of the intended removal of 1500V supply.

Officer in Charge of EVMC

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- 6 Give the additional copies of the *Notification for the Removal of 1500 Volt Supply in EVMCs* form to the Running Supervisor for the Qualified Workers operating groundframes in affected areas.

Running Supervisor

- 7 Attach a copy of the *Notification for the Removal of 1500 Volt Supply in EVMCs* form to the Train Register, or its equivalent.

Electrical System Operator

- 8 When 1500V supply removal is due, ask the Running Supervisor to give the clearance to remove the 1500V supply.

Running Supervisor

- 9 Get assurance from the Electrical System Operator that:
 - both parties are using the current colour version of the *1500V Sectioning Diagram*
 - *the details of the Notification for the Removal of 1500 Volt Supply in EVMCs form correspond with the 1500V Sectioning Diagram*
 - *there are no vehicles requiring electric traction that may need to be moved during the period of isolation of the 1500V supply*
 - *the pantographs of stabled electric vehicles in the overhead wiring sections have been lowered and isolated.*
- 10 Make sure that the EVMC's safety procedures to prevent trains from entering the isolated 1500V overhead wiring sections have been carried out.
- 11 Give the Electrical System Operator clearance to remove the 1500V supply.
- 12 Record, in permanent form, details about the clearance for the removal of the 1500V supply.

Restoring 1500V supply

Electrical System Operator

- 1 Tell the Running Supervisor when the work is completed and the 1500V supply has been restored.

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Running Supervisor

- 2 Sign the *Notification for the Removal of 1500 Volt Supply in EVMCs* form to confirm that the 1500V supply is restored.
- 3 Record, in permanent form, the time when the 1500V supply was restored.

Areas including more than roads with individual combined isolating and rail-connecting switches

Removing 1500V supply

Electrical Representative

- 1 At least 24-hours before the intended starting time, compile a *Notification for the Removal of 1500 Volt Supply in EVMCs* form.
- 2 Issue copies of the *Notification for the Removal of 1500 Volt Supply in EVMCs* form to the Officer in Charge of the EVMC and affected Signallers.
- 3 If a groundframe can be used to gain entry to the roads to be isolated, give additional copies of the *Notification for the Removal of 1500 Volt Supply in EVMCs* form to the Officer in Charge of the EVMC.

Officer in Charge of EVMC and Running Supervisor

- 4 Sign the *Notification for the Removal of 1500 Volt Supply in EVMCs* form to acknowledge receipt.
- 5 Confer and agree about the details of the intended removal of 1500V supply.

Officer in Charge of EVMC

- 6 Give the additional copies of the *Notification for the Removal of 1500 Volt Supply in EVMCs* form to the Running Supervisor for the Qualified Workers operating groundframes in affected areas.

Running Supervisor

- 7 Attach a copy of the *Notification for the Removal of 1500 Volt Supply in EVMCs* form to the Train Register, or its equivalent.

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Signallers

- 8 Sign the *Notification for the Removal of 1500 Volt Supply in EVMCs* form to acknowledge receipt.
- 9 Attach copies of the *Notification for the Removal of 1500 Volt Supply in EVMCs* form to the Train Registers, or their equivalent.

Running Supervisor

- 10 On the day of the intended 1500V supply removal, send a copy of the *Notification for the Removal of 1500 Volt Supply in EVMCs* form to the Network Controller. Ask the Network Controller to give the clearance to remove the 1500V supply.
- 11 Give the additional copies of the *Notification for the Removal of 1500 Volt Supply in EVMCs* form to the Qualified Workers operating groundframes in affected areas.

Qualified Workers

- 12 Sign the *Notification for the Removal of 1500 Volt Supply in EVMCs* form to acknowledge receipt.

Network Controller

- 13 Confirm with the Electrical System Operator, the Running Supervisor at the EVMC, and the Signallers that:
 - the parties are using the current colour version of the *1500V Sectioning Diagram*
 - *the details of the Notification for the Removal of 1500 Volt Supply in EVMCs form correspond with the 1500V Sectioning Diagram*
 - *the sections to be isolated are clear of vehicles that may need to be moved during the period of isolation of the 1500V supply*
 - *relevant parties have signed the Notification for the Removal of 1500 Volt Supply in EVMCs.*
- 14 Get assurance from Signallers that:
 - signals controlling entry to the overhead wiring sections to be isolated have been set at **STOP**, with blocking facilities applied

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- protection has been applied to prevent entry or exit by way of unsignalled routes.
- 15 Get assurance from the Running Supervisor that protection has been applied to prevent entry or exit by the way of unsignalled routes.
 - 16 Give clearance to the Electrical System Operator to remove the 1500V supply.
 - 17 Tell the Running Supervisor and Signallers that the clearance has been given.

Network Controller, Running Supervisor and Signallers

- 18 Record, in permanent form, the time when clearance to remove the 1500V supply was given.

Restoring 1500V supply

Electrical System Operator

- 1 Tell the Network Controller when the work is completed and the 1500V supply has been restored.

Network Controller

- 2 Tell the Running Supervisor and affected Signallers that the 1500V supply has been restored.
- 3 Get assurance from Signallers that blocking facilities have been removed.

Network Controller and Signallers

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

Running Supervisor

- 5 Tell the Qualified Workers operating groundframes to restore non-interlocked points within the EVMC to normal working.
- 6 Record, in permanent form, the time when the 1500V supply was restored.

Running Supervisor and Signallers

- 7 Sign the *Notification for the Removal of 1500 Volt Supply in EVMCs* form.

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Related Documents

NPR 705 Removing 1500V supply

NPR 714 Removing 1500V supply in unplanned situations