



AUSTRALIAN RAIL TRACK CORPORATION LTD

This document has been adopted by the ARTC with the permission of the NSW Government and will continue to apply under the authority of the ARTC General Manager Infrastructure, Strategy & Performance until further notice

Discipline
Engineering Standard - NSW

Category
Electrical

Title
**Isolation of Low Voltage Distribution Equipment
for Work**

Reference Number
PMP 15 - (RIC Standard: EP 95 30 00 02 SI)

Document Control

Status	Date	Prepared	Reviewed	Endorsed	Approved
Issue 1 Revision 2	Mar 05	Standards and Systems	Signalling Standards Engineer	GM Infrastructure Strategy & Performance	Safety Committee
		Refer to Reference Number	T Moore	M Owens	Refer to minutes of meeting 24/01/05

Disclaimer

Australian Rail Track Corporation has used its best endeavors to ensure that the content, layout and text of this document is accurate, complete and suitable for its stated purpose. It makes no warranties, express or implied, that compliance with the contents of this document shall be sufficient to ensure safe systems of work or operation. Australian Rail Track Corporation will not be liable to pay compensation in respect of the content or subsequent use of this document for any other purpose than its stated purpose or for any purpose other than that for which it was prepared except where it can be shown to have acted in bad faith or there has been willful default.

Document Approval

The technical content of this document has been approved by the relevant ARTC engineering authority and has also been endorsed by the ARTC Safety Committee.

Document Supply and Control

The Primary Version of this document is the electronic version that is available and accessible on the Australian Rail Track Corporation Internet and Intranet website.

It is the document user's sole responsibility to ensure that copies are checked for currency against the Primary Version prior to its use.

Copyright

The information in this document is Copyright protected. Apart from the reproduction without alteration of this document for personal use, non-profit purposes or for any fair dealing as permitted under the Copyright Act 1968, no part of this document may be reproduced, altered, stored or transmitted by any person without the prior written consent of ARTC.

About This Standard

This instruction sets out the mandatory requirements for the isolation of Low Voltage Distribution Equipment to permit work to be undertaken on the equipment.

This publication applies to ARTCs low voltage distribution system. It also applies to low voltage installations associated with operationally critical ARTC equipment, such as signalling locations, train monitoring equipment and other essential supplies.

Document History

Primary Source – RIC Standard EP 95 30 00 02 SI Version 1.0

List of Amendments –

ISSUE	DATE	CLAUSE	DESCRIPTION
1.1	05/01/2005		Reformatted to ARTC Standard
1.2	11/03/2005	Disclaimer	Minor editorial change

Contents

About This Standard	3
Document History	4
1 General	6
2 Procedures When Removing Supply	6
3 Procedure When Restoring Supply	6

1 General

All work near exposed Low Voltage Distribution Equipment must be carried out in accordance with PMP 14 - "Work On Or Near Low Voltage Distribution Equipment - Permit Requirements & Safe Working Distances."

2 Procedures When Removing Supply

Where other Network Operator's services have to be isolated for the work, a Permit or Operating Agreement must be received from the Network Operator concerned for the work near its services.

Prior to removing supply, the Authorised Person carrying out the switching to remove supply must ensure that all affected parties have been advised of the commencement and duration times of the proposed interruption to supply.

Warning

Signalling and other essential supplies must not be interrupted without the prior knowledge and agreement of the Electrical System Operator for the area covered by the ARTC distribution network or a responsible person for whom the supply is required for other areas.

3 Procedure When Restoring Supply

Before low voltage equipment is energised, the Authorised Person carrying out the switching must:

- ensure that the equipment is inspected, tested if required and is safe to be energised, (when a Permit is issued, the Authorised Person cancelling the Permit is responsible for this),
- If connections have been disturbed then tests must include phase rotation, a phase check and correct connection and continuity of the neutral.
- ensure that the relevant Permits have been cancelled,
- ensure that all other Network Operator's Permits or Operating Agreements have been signed off,
- check that there are no Danger Tags attached to the switches to be operated, and
- when appropriate, notify the affected parties that supply is about to be restored.

NOTE

Signalling supplies must not be restored without the prior knowledge and agreement of the Electrical System Operator for the area covered by the ARTC distribution network or a responsible person for whom the supply is required for other areas.