



**AUSTRALIAN RAIL TRACK CORPORATION LTD**

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**Discipline**  
**Engineering Standard - NSW**

**Category**  
**Electrical**

**Title**  
**Work on Live High Voltage Equipment**

**Reference Number**  
**PMP 10 - (RIC Standard: EP 95 10 00 02 SI)**

**Document Control**

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Issue 1 Revision 1	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

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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.

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## **About This Standard**

This instruction sets out the mandatory requirements for work on live equipment on the ARTC High Voltage System.

The instructions are based on existing practices for high voltage overhead lines, however this does not preclude the contractor from applying the principles to develop techniques for working safely on other ARTC high voltage equipment.

## Document History

**Primary Source** – RIC Standard EP 95 10 00 02 SI Version 1.0

### List of Amendments –

ISSUE	DATE	CLAUSE	DESCRIPTION
1.1	11/03/2005	Disclaimer	Minor editorial change

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## 1 Personnel

The only persons who are permitted to carry out Live Line work are those who have been properly trained in the working techniques at an accredited and approved Live Line Training Centre, and who possess the necessary qualifications as prescribed by EA18 – “ Guide to the Training of Personnel Working on or near Electricity Works”

## 2 Equipment

Only equipment that has been electrically and mechanically tested and approved as having the necessary insulating and structural qualities may be used to carry out Live Line work.

## 3 Procedures

- (a) Prior to commencement of work, the Electrical System Operator must be notified of the intention to carry out Live Line work and must be advised promptly of the completion of such work.
- (b) During the course of the work, radio contact must be maintained between the Live Line working team and the Electrical System Operator.
- (c) A written procedure must be available and the person doing the work must be directed from that procedure by a person who also is accredited in Live Line work.
- (d) All members of a Live Line working team must be competent to undertake all aspects of the working techniques required to complete that particular procedure.
- (e) Where the energising of a high voltage transmission line is controlled by circuit breakers with automatic reclosing devices, such reclosing devices must be made inoperative during the course of the Live Line work.
- (f) Live Line work must not be carried out under weather conditions that may render it either dangerous or undesirable.

## 4 Reference Publications

The following Electricity Association of Australia (ESAA) publications serve as guides to appropriate work methods for live high voltage overhead lines.

ND/NL-02 -"Guidelines For Live Line Glove And Barrier Work For Voltages Up To And Including 33 000 Volts".

ND/NL-03 -"Guidelines For Live Line Bare Hand Work".