

Category 2 Standard

S2547 Maintenance of (Formerly E7156) non-vital Signalling Relays

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Contents

1	Purpose	3
2	Scope	3
3	Requirements	3
3.1	Safety considerations	3
3.2	Operational requirements	4
4	Responsibilities	6
5	Supporting information	6
6	References	6
6.1	References	6
6.2	Abbreviations	7
6.3	Definitions	7
6.4	Technical content manager	7
6.5	Document history	7

1 Purpose

- 1.1 The purpose of this standard is to define the minimum maintenance requirements for non-vital relays used in LU signalling and signal control systems.

2 Scope

- 2.1 'Non vital relays' shall include sealed relay units, relay based storage units for program machines and train describer systems. This standard does not apply to "vital type" relays used in non vital applications.
- 2.2 Workshop overhaul is not covered by this standard.
- 2.3 The primary user of this standard shall be the Asset Steward.
- 2.4 This standard supersedes E7156A3, which is withdrawn.

3 Requirements

3.1 Safety considerations

3.1.1 System safety

- 3.1.1.1 While non-vital relays are not safety critical assets their failure may give false indications, and/or prevent the setting of routes and/or the clearing of signals. This increases the risk of confusion, and unsafe situations through the consequent use of manual procedures for control of train movements.

3.1.2 Safety of personnel

- 3.1.2.1 Due consideration shall be given to customer safety when conducting maintenance activities in or close to public areas.
- 3.1.2.2 Equipment rooms are often situated away from platforms and walkways, requiring maintenance staff to cross or go close to the track in order to gain access. Safe systems of work must therefore guard against the consequent hazards, such as, electric shock, moving trains and hazardous substances and shall be in accordance with Contract QUENSH conditions, the appropriate statutory regulations and LU Rule Book.

3.1.3 Environmental considerations

- 3.1.3.1 All maintenance activities including vegetation control, disposal of lubricant and toxic wastes, utilisation of energy and materials, shall be carried out in compliance with present statutory environmental legislation and regulations, Contract QUENSH conditions, codes of practice and the LU Health, Safety and Environmental Policy. Assets shall be assessed to identify products and wastes that can be reused, recycled or rendered harmless and any discharges are controlled to minimise their environmental impact during the whole maintenance procedure.
- 3.1.3.2 Notwithstanding the above, any specific references to environmental requirements within this standard shall be observed.