

Category 2 Standard

S2523
(Formerly E7006)

Commissioning of signalling systems

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1 Purpose

- 1.1 This document describes the requirements for establishing commissioning procedures and processes for use on London Underground signalling and train control systems.

2 Scope

- 2.1 These principles shall be followed for the introduction of new systems, and also for the modification of existing systems where applicable.
- 2.2 This standard replaces E7006 A2, which is withdrawn.

3 Requirements

3.1 Safety considerations

3.1.1 System safety

- 3.1.1.1 Signalling systems protect customers, staff and assets against potentially devastating loss resulting from collision or derailment of trains. The commissioning of such systems is a critical process which must demonstrate that the criteria by which they are judged to be safe and dependable have been met.

3.1.2 Safety of personnel

- 3.1.2.1 Safe systems of work shall be devised and followed for all commissioning activities, in accordance with the appropriate statutory safety and environmental legislation, Contract QUENSH conditions, and codes of practice. The systems of work shall be based on appropriate risk assessment techniques to identify the particular hazards such as electric shock, moving trains and hazardous substances and to assess the effectiveness of the proposed safeguards.

3.2 Competency

- 3.2.1 All staff involved with commissioning activities shall be competent to undertake their role with respect to that asset type, in the particular operating context, in accordance with engineering standard S1203, Competence of Personnel Working on Signal and Signal Control Systems.

3.3 Acceptance criteria

- 3.3.1 Commissioning activities shall be carried out under the control of a quality system to demonstrate that the criteria by which the system is judged to be safe and dependable have been met.
- 3.3.2 Acceptance criteria shall be determined by the Project Engineer as a series of key deliverables developed during each phase of the development life cycle (see Attachment 1).
- 3.3.3 Attachment 1 illustrates the setting and use of acceptance criteria within the development phase of the life cycle. However, the principle shall extend to all phases; for example, it is essential to look ahead to operational phases of the life cycle so that:
- a) systems are only brought into service once suitable maintenance systems have been devised and either put in place (for immediate requirements) or planned (for future arrangements such as cable testing);
 - b) appropriate information is available to permit the system to be safely modified in the future.