

Certification Requirements for Registration of Steam Locomotives

Synopsis

This standard defines the certification requirements for Steam Locomotives that are required to enable them to be registered for operation on Railtrack controlled infrastructure. The audit requirements for their continued operation are also defined.

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Part A

Issue record

This Standard will be updated when necessary by distribution of a complete replacement. Amended or additional parts of revised pages will be marked by a vertical black line in the adjacent margin.

Issue	Date	Comments
I	December 96	Original Document

Responsibilities

Railway Group Standards are mandatory on all members of the Railway Group* and apply to all activities which fall within the scope of each individual's Railway Safety Case. If any of those activities are performed by a Contractor, the contractor's obligations in respect of Railway Group Standards is determined by the terms of the contract between the respective parties. Where a contractor is a duty holder of a Railway Safety Case then Railway Group Standards apply directly to the activities described in the Railway Safety Case.

*The Railway Group comprises Railtrack, the duty holders of Railway Safety Cases accepted by Railtrack and the British Railways Board as long as it owns train operators.

Compliance

The provisions of this Railway Group Standard are mandatory and shall apply from 1 February 1997.

Health and safety responsibilities

In authorising this Standard, Railtrack PLC makes no warranties, express or implied, that compliance with all or any Railway Group Standards is sufficient on its own to ensure safe systems of work or operation. Each user is reminded of its own responsibilities to ensure health and safety at work and its individual duties under health and safety legislation.

Supply

Controlled and uncontrolled copies of this standard shall be obtained from The Catalogue Secretary, Safety & Standards Directorate, Railtrack PLC, Floor 2, Fitzroy House, 355 Euston Road, London, NW1 3AG.

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Part B

1 Purpose This Railway Group Standard defines the certification requirements for Steam Locomotives at the time of registration, together with the certification and audit requirements during their period of operation.

2 Scope The requirements of this Standard apply to all steam locomotives required to operate over Railtrack controlled infrastructure. They do not apply to steam operated cranes.

3 Definitions **Steam Locomotive**

A rail vehicle capable of operating under its own power and hauling other vehicles and having a fired pressure vessel to generate the steam used for powering the vehicle, and including the tender, where attached for carrying fuel and water.

Certification Body

See [GM/RT2000](#).

General Boiler Examination

An internal boiler examination having the same content as that defined in the 7 yearly Internal Boiler Examination defined in MT/276.

General Mechanical Examination

A locomotive examination having the same content as that defined in the 7 Yearly Heavy Mechanical Examination defined in MT/276.

Intermediate Boiler Examination

An internal boiler examination whose objective is to determine whether it is appropriate to extend the period between General Boiler Examinations.

4 Introduction

4.1 Steam Locomotives require a Certificate of Engineering Acceptance to enable them to be registered (see [GM/RT2000](#)). Sub paragraph 5.1.1 below defines the Certificates of Conformance that are required to enable the Certificate of Engineering Acceptance to be issued.

4.2 In contrast to the requirements for other railway vehicles, this Standard requires that certain examination work is carried out by the Certification Body itself and that Steam locomotives are certificated at regular intervals even if there has been no engineering change to the design status of the vehicle which was previously certificated.

This is because the particular features of Steam Locomotives, such as the boiler, exposed valve gear and coupling and connecting rods, present special risks not present on other railway vehicles. In addition Steam Locomotives are generally subject to relatively infrequent operation and their maintenance may be in the hands of organisations with limited resources.

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The combination of these factors requires that the Certification Body carries out an examination and audit prior to registration, and at defined intervals during the period of operation of Steam Locomotives over Railtrack controlled infrastructure (see Section 5.2).

Formal recognition that this has been satisfactorily completed is given by the issue of Certificates of Conformance for Safety Examination by the Certification Body.

Steam Locomotives shall also be the subject of a documented Maintenance and Overhaul Policy and Plan as required by [GM/RT2004](#) whilst they operate over Railtrack controlled infrastructure.

4.3 Following registration the maximum time between subsequent examinations and audits by the Certification Body and between General Mechanical and General Boiler Examinations is defined in the Standard. Certification, which follows an appropriate audit, is required as follows:-

- re-certification, following examination by the Certification Body, at a period not exceeding 12 months.
- re-certification following the successful completion of the General Mechanical Examination by a Certification Body.
- re-certification following the successful completion of the General Boiler Examination by a Certification Body

4.4 This Standard defines the minimum examination requirements to be undertaken by the Certification Body and which Steam Locomotives shall satisfactorily complete. However, it does not provide all the detail content of the examinations.

The examination requirements shall cover all the detailed requirements contained in MT/276, plus certain additional requirements which are defined in this Standard (see sub-paragraph 5.1.8 and Appendices A and B).

4.5 Certification Bodies shall ensure that personnel undertaking the examinations of steam locomotives are experienced and competent to make a judgement on the condition of the specific features of the locomotive which are being examined.

4.6 In particular, personnel undertaking Steam Locomotive boiler examinations shall be suitably qualified. In the case of organisations providing this service to a Certification Body, personnel shall be assessed in accordance with requirements for the qualification of suppliers defined in [GM/RT2450](#). All boiler examiners shall meet the following criteria:

- a) Personnel shall be competent in accordance with the requirements of the Health and Safety Booklet HS(G) 29.