

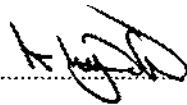
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Issue	01
Date	August 2007

Level 2

Specification for railway pumping installations

Endorsement & Authorisation

Endorsed by:



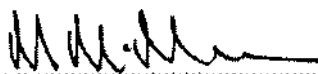
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Issue record

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1	August 2007	First Issue

Implementation

4 August 2007

Compliance

This Network Rail standard is mandatory and shall be complied with by Network Rail from 6 October 2007.

When this System Specification is implemented, it is permissible for all projects, which have formally completed GRIP Level 4, to continue to comply with the Issue of any relevant Network Rail Standards current when GRIP Level 4 was reached and not to comply with requirements contained herein unless the designated Head of Electrification and Fixed Plant has stipulated otherwise in the accompanying Briefing Note.

Where the Head of Electrification and Fixed Plant has specified that all projects will comply with the requirements, specific authority not to comply can be sought in the usual manner using the appropriate non-compliance authority processes described in NR/L2/STP/001, *Network Rail standards management – Process requirements*.

Reference documentation

BS 5266-1:2005	<i>Emergency lighting – Part 1: Code of practice for the emergency lighting of premises other than cinemas and certain other specified premises used for entertainment</i>
NR/GN/ELP/27319	<i>Fixed plant standards maps</i> (Appendix H)
RT/CE/S/069	<i>Lineside facilities for personnel safety</i>

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1 Purpose

This Network Rail standard specifies the fundamental requirements for all railway pumping installations on Network Rail Infrastructure.

It also offers guidance on practical considerations and system configurations for the design and maintainability of such pumping installations to prevent danger and sustain the cost-effectiveness of equipment operation.

Assessment of compliance with the guidance contained herein shall be made at the AIP stage of a project.

2 Scope

This specification is applicable to railway pumping installations for the direct purpose of water or sewage drainage or extraction. It covers wet/dry well, suction lift, submersible and screw type installations.

Excluded from the scope of this specification are installations that incorporate pumps as a means of moving or transferring water or sewage as part of a larger system, such as macerators or interceptors. Also excluded are installations greater than 150kW total installed load.

3 Definitions

pumping installation

enclosure, the pumps, their prime movers and control systems, valves and pipework, sump and well area and any ancillary equipment necessary for operation or maintenance

controlled waters

relevant territorial waters (extending three miles seawards from baseline), coastal waters (water inland of baseline), inland waters, surface water and groundwater

4 Requirements

4.1 Design life

The pumping installation shall be designed with a minimum of a 20 year life expectancy. It shall be installed so as to be suitable for the conditions and environment to which it is to be exposed.

Some specific items of equipment may have a lesser design life and will need to be replaced during the lifetime of the installation; all such items shall be identified and the appropriate maintenance and renewal regimes shall be specified.

NOTE Compliant proposals to the stated design life are required, however alternatives which may provide business benefits will be considered. Where an