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NB

**ENERGY INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

NB/T 25043.1-2014

**Construction technology code for conventional island and BOP
of nuclear power plant - Part 1: Civil work**

核电厂常规岛及辅助配套设施建设施工技术规范 第1部分：土建

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Foreword

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It is a NB/T standard: recommended rather than compulsory, but it is the text a Chinese reviewer applies when assessing a submission.

It is classified under ICS 27.010, Chinese classification F 01.

NB/T 25043, Construction technology code for conventional island and BOP of nuclear power plant, is divided into eight parts.

Part 1: Civil work.

Part 2: Turbine generator set.

Part 3: Circulating water system equipment.

Part 4: Thermal instrumentation and control devices.

Part 5: Water treatment and hydrogen production systems.

Part 6: Piping.

Part 7: Heating, ventilation and air conditioning.

Part 8: Thermal insulation and painting.

This document is Part 1 of NB/T 25043.

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The document has 65 numbered pages of technical text plus front matter numbered in Roman figures, and it contains three normative annexes, eleven clauses, five numbered tables in the opening chapters and further tables in the later chapters.

This is Part 1 of a multi-part standard. It is not a revision and it does not replace any earlier document; no superseded designation is printed on the cover.

Structure of the Document

The technical text is organized in eleven clauses followed by three normative annexes, and the clause structure reflects the sequence of civil construction on a nuclear power plant site.

Clauses 1 to 4 cover the scope, the normative references, the terms and definitions and the general principles; clause 5 sets out the basic requirements, covering construction qualification, process standards, quality control, quality assurance, construction organization design, materials, construction sequence and structural stability during construction, test results, design documents, construction defects, and construction safety management and site environmental protection.

Clause 6 covers excavation and backfilling, with subclauses on general requirements, excavation, blasting and backfilling, and it is supported by Annex A on the safety allowable criteria for blasting vibration and by Annex B on the empirical formula for the propagation law of particle vibration velocity.

Clause 7, the longest clause of the document, covers reinforced concrete structures, with subclauses on general requirements, materials, mix proportion and mixing, transport, placing and curing, formwork, reinforcement works, fabrication and installation of embedded parts, precast concrete members, and the construction of special structures.

Clause 8 covers steel structures, with subclauses on general requirements, fabrication of steel structures, erection of steel structures and coating of steel structures; it is supported by Annex C on the formula for calculating the shrinkage allowance of welding deformation.

Clause 9 covers masonry, with subclauses on basic requirements, quality requirements for