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NB

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

NB/T 20358.7-2018

Replacing NB/T 20358.7-2015

**Cost estimation of nuclear power plant construction project -
Part 7: Electrical equipment installation engineering for nuclear
island**

核电厂建设工程预算定额 第7部分：核岛电气设备安装工程

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Foreword

This document was issued on 22 March 2018 by the National Energy Administration of the PRC and takes effect on 1 September 2018.

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 01.040.27, Chinese classification F02.

It replaces NB/T 20358.7-2015, which is superseded.

NB/T 20358 Cost estimation of nuclear power plant construction project, together with NB/T 20355 Cost quotas for nuclear island civil and installation works of nuclear power plant construction projects, NB/T 20356 Cost quotas for conventional island civil and installation works of nuclear power plant construction projects and NB/T 20357 Machine-shift cost quotas for nuclear power plant construction projects, makes up the series of nuclear power quota standards that support budgeting and pricing of nuclear power construction works.

NB/T 20358 Cost estimation of nuclear power plant construction project at present comprises 16 parts, made up as follows:

Part 1: Civil engineering for nuclear island;

Part 2: Decoration engineering for nuclear island;

Part 3: Steel structure engineering for nuclear island;

Part 4: Process equipment installation engineering for nuclear island;

Part 5: Process piping installation engineering for nuclear island;

Part 6: Ventilation and air conditioning installation engineering for nuclear island;

Part 7: Electrical equipment installation engineering for nuclear island;

Part 8: Automation control instrumentation installation engineering for nuclear island;

Part 9: Communication equipment installation engineering for nuclear island;

Part 10: Anticorrosion and thermal insulation engineering for nuclear island;

Part 11: Civil engineering for conventional island;

Part 12: Thermal equipment installation engineering for conventional island;

Part 13: Electrical equipment installation engineering for conventional island;

Part 14: Commissioning engineering;

Part 15: Fabrication of modules and steel containment;

Part 16: Assembly and erection of modules and steel containment.

This part is Part 7: Electrical equipment installation engineering for nuclear island of NB/T 20358 Cost estimation of nuclear power plant construction project (hereinafter referred to as this part). It was released by Announcement No. 2 of 2018 of the National Energy Administration, approved on 22 March 2018 and put into effect on 1 September 2018.

This part was proposed by the Nuclear Power Standardization Technical Committee of the energy industry.

This part is under the jurisdiction of the Nuclear Industry Standardization Research Institute.

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1 Scope

NB/T 20358.7-2018 is Part 7 of the Chinese budget quota series for nuclear power plant construction, and it prices the installation of electrical equipment inside the nuclear island. A budget quota is not a technical specification: it is the official book of unit rates that tells an estimator how much labour, machinery and consumable material a defined unit of work consumes, and it is what a Chinese reviewer checks a submitted price against. This part covers diesel generators and generator sets, transformers, switchgear and distribution boards, motors, batteries and their racks, cable trays and conduit, power and control cable pulling and termination, earthing and lightning protection, lighting, and the electrical penetrations through the containment. Each quota item states the work content it includes, the unit it is measured in, the labour hours by trade, the machine-shift consumption by equipment type, and the material quantities with their waste allowances. The explanation at