

反应堆工程

先进压水堆核电站保护系统需求分析的层次结构

丁书华¹, 杨燕华¹, 朱学农², 林萌¹

1. 上海交通大学,上海 200240 2. 上海核工程研究设计院,上海 200260

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摘要 为提高核电站的安全性和运行裕量, 本工作在已有技术的基础上自主进行核电站数字化保护系统需求分析,完成需求分析报告。需求分析报告采用1种三等级的金字塔式层次结构, 该结构可直观阐明先进压水堆核电站数字化保护系统的设计特性和逻辑实现。

关键词 [先进压水堆](#) [数字化保护系统](#) [需求分析](#)

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Hierarchy of Requirement Analysis of Reactor Protection System for Advanced Pressurized Water Reactor Nuclear Power Plant

DING Shu-hua¹, YANG Yan-hua¹, ZHU Xue-nong², LIN Meng¹

1. Shanghai Jiao Tong University, Shanghai 200240, China; 2. Shanghai Nuclear Engineering Research and Design Institute, Shanghai 200260, China

Abstract In order to improve the security and the margin of safety of nuclear power plant, the research on requirement analysis of digital reactor protection system for advanced pressurized water reactor nuclear power plant was developed. Based on the known technology, a requirement analysis report was performed. A kind of three-levels pyramidal hierarchy was adopted in the requirement analysis, and the design characteristics of the requirement analysis were described in the analysis report. This hierarchy can directly illuminate the design characters and logical achievement of the requirement analysis for advanced pressurized water reactor digital protection system.

Key words [advanced](#) [pressurized](#) [water](#) [reactor](#) [digital](#) [reactor](#) [protection](#) [system](#) [requirement](#) [analysis](#)

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