

核电厂主变压器故障诊断流程与系统优化 【上架时间： 2023-03-30】



核电厂主变压器故障诊断流程与系统优化			
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### 详细信息

- 【标题】核电厂主变压器故障诊断流程与系统优化
- 【Title】Fault Diagnosis Flow and System Optimization of Nuclear Power Plant Main Transformer
- 【摘要】核电厂主变压器多起损毁事故表明主变压器故障诊断准确性和时效性较差。对核电厂主变压器故障诊断技术现状进行了分析，结果表明核电厂主变压器故障诊断工作流程过于简单，故障在线诊断系统的信息化水平较低。对电力变压器故障诊断的方法与应对策略进行了研究。设计了一种融合了成熟的电力变压器故障诊断技术的核电厂主变压器故障诊断工作流程。给出了基于数字化分布式控制系统改进核电厂主变压器故障在线诊断系统功能，以及提高系统信息化水平的优化方案。
- 【Abstract】Several damage accidents of nuclear power plant main transformers indicated that the accuracy and timeliness of the fault diagnosis of main transformer was poor. The status of nuclear power plant main transformer fault diagnosis technology were studied, the results show that the main transformer fault diagnosis workflow was too simple, and the information level of the main transformer fault on-line diagnosis system was low. The fault diagnosis method and preventive solution of power transformer were studied. A fault diagnosis workflow for the main transformer of nuclear power plant that incorporated mature power transformer fault diagnosis technology was designed. The optimization scheme based on the digital distributed control system to improve the function of the nuclear power plant main transformer fault on-line diagnosis system and the degree of system information level were given in this paper.
- 【关键词】核电厂；主变压器；故障诊断；工作流程；网络结构；优化
- 【Keywords】Nuclear power plant; Main transformer; Fault diagnosis; Workflow; Network structure; Optimization
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