仪控

核电厂电磁兼容挑战及应对策略

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摘要 分析了核电厂的电磁环境,比较了主要核电国家有关核电厂安全重要仪表和控制(I&C)系统的电磁兼容(EMC)要求及评价方法,指出了中国现行电磁兼容技术标准的不足,介绍了针对大亚湾核电厂现有反应堆安全保护系统的电磁兼容性试验,针对核电厂安全重要电气设备电磁兼容技术标准的建立与实施提出了建议。

关键词 核电厂 安全 仪表与控制 电磁兼容性 设备鉴定 分类号

Tactics and Challenge to Electromagnetic Compatibility in Nuclear Power Plant

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Abstract This paper focuses on the analysis of present situation for electromagnetic environm ents in nuclear power plant. The simulation test demonstrating the vulnerability of reactor safety protective system in the Daya Bay Nuclear Power Plant was introduced. Requirements and test met hods about how important to safety instrument and control system to accommodate electromagnetic interference, radio-frequency interference and power surges in the environments of nuclear power plant, were discussed.

Key words <u>nuclear power plant</u> <u>safety instrumentation</u> <u>and control electrom</u> <u>agnetic compatibility equipment</u> <u>qualification</u>

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