

自动化

电力直流电源系统的网络化管理及状态检修

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摘要:

分析了直流电源设备运行、监控、维护检修的现状, 提出并实施了一种变电站直流电源系统网络化管理、状态检修的管理模式。将计算机技术、测控技术、光纤网络通信技术、智能模糊神经网络技术等应用于变电站直流电源系统, 将分散于各地的直流电源的充电机运行参数、蓄电池运行参数、系统运行状态通过光纤网络传送到中心服务器, 进行实时监控、分析、故障诊断, 实现了设备检修由计划检修向状态检修的过渡, 既保证了电气设备的安全可靠运行, 又可获得经济效益和社会效益。

关键词:

Networking Management and Condition Based Maintenance of DC Power Supply System in Substations

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Abstract:

The present operation, monitoring, maintenance and overhaul conditions of DC power supply equipments for substations are analyzed. A management mode including networking management and condition based maintenance for DC power supply system of substation is proposed and implemented. Applying computer technique, measurement and control technology, optical fiber network communication and intelligent fuzzy network technology to DC power supply system of substation, the decentralized parameters, such as operating parameters of chargers and accumulators, and operation conditions of DC power supply system are sent to central server for real-time monitoring, analysis and fault diagnosis, thus the maintenance and overhaul of equipments are changed from planned maintenance to condition based maintenance, not only secure and reliable operation of DC power supply equipments can be ensured, but also economic benefit and social effect can be attained.

Keywords:

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