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反应堆工程

发电机定子冷却水泵可靠性数据处理及分析

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摘要 基于实际的现场故障数据，对核电站发电机定子冷却水泵进行了可靠性分析。采用统计数学方法对数据进行了经验分析、指数分布与威布尔分布的拟合，并对拟合结果进行了验证。根据分析结果，提出了设备维修管理建议。

关键词 定子冷却水泵；指数分布；威布尔分布

分类号

Processing and Analysis of Reliability Data on Stator Cooling Pump

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Abstract Based on actual failure data, reliability analysis of the nuclear power plant generator stator cooling water pump was given in this paper. The data were processed by statistical mathematics methods including empirical analysis, exponential and Weibull distribution fitting, and fitting results were verified. Finally, the comparison of reliability curves of exponential distribution and Weibull distribution of a component of generator stator cooling water pump was performed, and a practical equipment maintenance management was given.

Key words generator stator cooling water pump exponential distribution Weibull distribution

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