

自动化

2007年国家电网公司继电保护装置运行情况

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摘要

介绍了2007年国家电网公司继电保护装置的运行情况, 包括220 kV及以上系统一次设备的运行及故障情况, 220 kV及以上线路保护、变压器保护、母线保护和故障录波器、100 MW及以上发电机保护等的运行情况。统计结果表明, 2007年除330 kV交流系统继电保护装置正确动作率有所下降外, 其余各类继电保护装置的正确动作率均有所上升, 为近5年来的最高水平。文章还分析了造成保护不正确动作的原因, 指出保护回路接线设计不合理占主要责任, 其次是设计部门、基建及其他方面(通信等部门)的责任。

关键词 [电力系统](#) [继电保护装置](#) [母线保护](#) [变压器保护](#) [线路保护](#) [发电机保护](#)

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Operation Situation of Protective Relayings of State Grid Corporation of China in 2007

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Abstract

The operation situation of protective relayings of the State Grid Corporation of China in the year of 2007 is presented. The statistics and analysis of operation situation of primary equipments in 220 kV and above power systems, including main protections of transmission lines, transformer protections, busbar protections, fault recorder and generator protections for 100MW and above generation units as well as the statistics of faults occurred in these equipments are given. Statistic results show that except busbar protections for 330 kV power systems, the correct action rates of all the other protective relayings are improved and achieve the highest level in recent five years. The reasons leading to incorrect actions of protective relayings are analyzed, and it is pointed out that the main responsibility for incorrect actions of protective relayings lies in irrational design of protective circuit wiring, and the secondary responsibility lies in the design departments, capital construction departments and others such as communication department and so on.

Key words [power system](#) [protective relayings](#) [busbar protection](#) [transformer protection](#) [transmission line protection](#) [generator protection](#)

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