



广域一体化继电保护系统方案

赵曼勇<sup>1</sup>, 周红阳<sup>1</sup>, 陈朝晖<sup>1</sup>, 龚建平<sup>2</sup>, 王丽<sup>2</sup>, 徐振宇<sup>3</sup>, 姚斌

**摘要:** 随着计算机及通信技术的飞速发展, 继电保护正在向计算机化、网络化、智能化、一体化方向发展。文章针对常规继电保护配置方式存在的不足及缺陷, 结合相关技术的发展提出了广域一体化继电保护方案。在这个新方案中, 将各个站内主保护和后备保护分别进行集成, 在不影响站内保护功能及设备 and 系统安全性的前提下, 对本站内保护、安稳、测量等功能进行整合。同时, 将区域电网若干个站的保护与控制整合成一个完整的数字系统。

**关键词:** 广域信息; 一体化保护系统; 保护配置; 电力系统

An Integrated Protection System Based on Wide Area Information

ZHAO Manyong<sup>1</sup>, ZHOU Hongyang<sup>1</sup>, CHEN Zhaohui<sup>1</sup>, GONG Jianping<sup>2</sup>,  
WANG Li<sup>2</sup>, XU Zhenyu<sup>3</sup>, YAO Bin<sup>3</sup>

**Abstract:** With the development of the microprocessor and the communication technology, the digital protection system is developing towards to provide itself network communication capability, more intelligence and integration. In order to solve the problem of the present protection configuration, an integrated protection system scheme based on wide area information is presented in this paper. In this new scheme the individual station components of the main protection and the backup protection are integrated respectively so that the functions such as system protection, security and stability, measurement of the station are integrated, but the protection function and the security of the equipments and the system in the station are not weakened. Moreover the system protection and control of several substations in an area are also integrated into a completed digital system at the same time.

**Key words:** wide area information; integrated protection system; protection configuration scheme; power grid

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