



2009年广东电网动态稳定问题分析研究

杨雄平, 李扬絮, 罗向东

摘要: 以2009年广东电网夏季大方式及小方式数据为基础, 研究了广东电网内的弱阻尼振荡模式, 对重要地区机组的PSS投、退进行了灵敏度分析, 揭示了广东电网内动态稳定性薄弱的地区, 优化了广蓄B厂机组PSS增益定值, 另外, 采用综合负荷模型, 对广东电网内振荡模式及广东电网与外网区域振荡模式进行了研究, 并同静态负荷模型结果进行了对比, 给广东电网PSS现场试验、运行及励磁参数实测工作提供了依据。

关键词: 动态稳定; PSS; 增益; 励磁系统; 负荷模型

Study of Dynamic Stability Problem in Guangdong Power Grid in 2009

YANG Xiongping, LI Yangxu, LUO Xiangdong

Abstract: This paper studies weak damp ratio oscillation modes of Guangdong Power Grid based on power network data in summer peak load and low load operation mode. It gives sensitive analysis for PSS on and off in important zones, opens out those zones whose dynamic stability are weak, optimize the plus of PSS in Guangzhou Pumped Storage Power Station, in addition, this paper studies and compares weak damp ratio characteristic of inter-area and inner-area in Guangdong Power Grid when using different load models. This paper offers the guidance for setting, operation of PSSes and measure of generator excitation system.

Key words: dynamic stability, PSS, plus, generator excitation system, load model

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