

高电压技术

灵宝扩建工程6英寸换流阀的设计和试验

查鲲鹏¹, 温家良¹, 王高勇¹, 杨晓楠¹, 周军川

1. 中国电力科学研究院, 北京市 海淀区 100192; 2. AREVA输配电集团, 英国 斯坦福德郡 ST174LN

摘要: 摘要: 对灵宝扩建工程6英寸换流阀的设计、绝缘和运行试验进行了介绍, 并给出了试验电路拓扑。灵宝扩建工程是世界上首次基于6英寸晶闸管换流阀将额定直流电流提升至4 500 A的工程实践。直流换流阀的设计是直流输电工程的关键技术之一, 直接影响工程的安全可靠运行。

关键词:

Design and Type-Test of 6-Inch Thyristor Valve for Lingbao Extension Project

1, 高冲¹, David A Jackson² ZHA Kunpeng¹, WEN Jialiang¹, WANG Gaoyong¹, YANG Xiaonan¹, ZHOU Junchuan¹, GAO Chong¹, David A Jackson²

1. China Electric Power Research Institute, Haidian District, Beijing 100192, China; 2. AREVA T&D, Stafford ST174LN, UK

Abstract: ABSTRACT: The design, insulation tests and operation tests of 6-inch thyristor valves applied in Lingbao extension project are presented respectively, and the topology of the testing circuit is given. The 6-inch thyristor valve that lifts the rated DC current to 4 500 A, which is applied in Lingbao extension project in China, is the first engineering practice in the world. The design of DC thyristor valve is one of the key problems in HVDC power transmission project, and it directly impacts the secure and reliable operation of HVDC power transmission.

Keywords:

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通讯作者: 查鲲鹏

作者简介:

作者Email: zhakp@epri.ac.cn

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