



特高压直流换流站顺序控制的研究
涂仁川

摘要: 针对特高压直流输电的特点, 详细探讨了特高压直流输电换流站的顺序控制, 包括换流器层的顺序控制、极层的顺序控制、双极层的顺序控制和站层的顺序控制, 及各种顺序控制在极控系统、阀组控制系统和直流站控系统实现。分析了不同的顺序控制的实现原理, 系统间的配合及常见问题的解决。

关键词: 特高压直流输电; 顺序控制; 换流站; 控制模式; 直流场, 阀组

Research on Sequence Control in UHVDC Converter Station
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Abstract: Based on the characteristics of ultra-high voltage direct current (UHVDC) transmission, the sequence controls in UHVDC converter station are discussed, including sequence controls at converter level, pole level, bipolar level and station level. All the sequence controls will be implemented by valve group control systems, pole control systems and DC station control systems respectively. The realization theories of different sequence controls, the coordination among other systems and the measure to the common problems are analyzed.

Key words: UHVDC; sequence control; converter; control mode; DC yard; valve groups

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