特高压直流设备长期带电考核场的设计和功能

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摘要：特高压直流设备长期带电考核场是特高压工程技术（昆明）国家工程实验室的重要组成部分，可用于验证高海拔地区特高压直流设备的设计可靠性和实际性能，为设备选型和自主开发提供技术支撑。综合考虑经济性、实用性和研究性，考核场主要针对各种线路绝缘子、支柱绝缘子、避雷器等设备进行全电压考核，设备的绝缘考核和监测数据的积累是关注的重点。文章详细介绍了特高压直流设备长期带电考核场的建设方案、设计思想和技术特点，并探讨了考核场将开展的一系列试验研究工作。

关键词：国家工程实验室；特高压直流设备；长期带电考核场；高海拔；设计；功能

Design and Function of Long Term Live Examination Field for UHVDC Equipments

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Abstract: The long term live examination field for UHVDC equipments, an important part of National Engineering Laboratory for UHV Engineering Technology (Kunming), can be employed to verify the design reliability and practical performance of UHVDC equipments operating at the high altitude so to offer technological support of UHVDC equipment selecting and independently innovating. In consideration of economy, practicality and research ability, the examination field mainly conducts the full voltage examination for UHVDC equipments such as line insulators, poster insulators and arresters, but focuses on insulation examination and monitoring data accumulation of the equipments. This paper introduces in detail the construction scheme, the design conception and the technical characteristics of the examination field, and discusses a series of research subjects to be conducted based on the examination field.

Key words: national engineering laboratory; UHVDC equipment; long term live examination field; high altitude; design; function

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