

<<DL/T827-2002 灯泡贯流式水轮>>

图书基本信息

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### 内容概要

《DL/T827-2002 灯泡贯流式水轮发电机组启动试验规程（英文版）》是根据国家经济贸易委员会电力司《关于确认1999年度电力行业标准制修订计划项目的通知》（电力〔2000〕22号文）的计划安排制定。

我国大中型灯泡贯流式水轮发电机组（以下简称“灯泡贯流式机组”或“机组”）发展迅速，自20世纪80年代初起步至90年代，已建成马迹塘、百龙滩、凌津滩、大源渡、贵港、飞来峡等安装有大型灯泡贯流式机组的水电站近40座。

但在机组启动验收方向一直参考DL507-1993《水轮发电机组起》动试验规程，而没有统一的标准。

由于灯泡贯流式机组自身的特点，给机组的启动试验和交接验收工作带来不便。

本标准的编写主要总结了国内已建和在建水电站的灯泡贯流式机组启动试运行试验的经验，参考了DL/T507-2002标准，并吸收了国外引进设备中的相关技术要求。

通过本标准的实施，以规范灯泡贯流式机组的启动试验程序，统一相应的专业用语和俗称，指导灯泡贯流式机组的启动试验和交接验收工。

本标准是对DL/T507-2002标准的补充，是国家电力基本建设施工中灯泡贯流式机组成套设备启套设备启动试运行试验的依据，也是机组投产移交考核的主要内容。

本标准的附录A为资料性附录。

本标准由电力行业水电站水轮发电机标准化技术委员会提出并归口。

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## 章节摘录

1 Scope This Standard specifies the test procedure and requirements for start-up test of bulb turbine and generator units with unit capacity above 2MW ( inclusive ) and runner diameter above 2.5m ( inclusive ) , applicable to the test , handing over and acceptance of start-up test of bulb units and relevant equipment. For through-flow units and bulb through-flow units with unit capacity of less than 2MW and runner diameter of less than 2.5m , this standard may serve as a reference.

2 Normative References The following referenced documents are indispensable for the application of this document. For dated references , only the edition cited applies. For undated references , the latest edition of the referenced document ( including any amendments ) applies.

GB 8564 Specification installation of hydraulic turbine generator units DL/T 507—  
—2002 Start-up Test Code for Turbine Generator Unit SDJ 278—1990 Code for design of fire

protection of hydraulic engineering 3 General Provisions 3.1 The installation of bulb turbine unit and relevant equipment shall conform to the requirements in GB 8564 and complete construction records shall be provided. Start-up test shall be performed after the unit is installed , inspected and qualified. Only after the commissioning and acceptance are performed successfully , can the unit be put into running in the grid. 3.2

Testing items may be appropriately added as per conditions of hydropower station and equipment , besides the start-up test items specified in this standard. The proposal for adding testing items shall be put forward by the owner and shall be in accordance with the provisions of equipment procurement and installation contracts. 3.3

The contractor for installation of the bulb turbine unit and its relevant equipment may work out the details of start-up test items or adjust the testing sequence according to the specifications in this standard and the structural characteristics of the unit , and submit the program to the start-up acceptance committee for reviewing and approval before implement. 3.4 The auxiliary equipment and the systems for relay protection , automatic control , monitoring and control and measurement , as well as the mechanical and electrical equipment and electrical circuit related to the unit operation , shall be tested strictly according to the applicable standards. 3.5

The problems and defects found during start-up test of unit shall be eliminated timely to enable the unit to run safely and stably for long term after the acceptance. 3.6 The influence of water level fluctuation at both upstream and downstream on bank slope stability , on river course in reservoir area , and on environment protection and vegetation ecology , shall be taken into account during the start-up test of unit.

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