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## 大亚湾核电站停堆工况风险研究

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**摘要** 基于传统PSA方法学(适用于功率运行工况)及核电站停堆工况特征,提出了一套停堆PSA特征方法,包括电站运行状态离散法,分阶段评价法和主逻辑故障树评价。将该方法应用于大亚湾核电站(GNPP)停堆工况PSA研究,得到了较真实反映GNPP实际情况的结果。研究结果对GNPP的停堆运行和管理有实际应用价值,对我国今后核电站设计、运行及管理也有现实意义

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## Risk Assessment for Shutdown Condition of Guangdong Daya Bay Nuclear Power Plant (GNPP)

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**Abstract** Based upon traditional PSA methodology used in full power condition and the features of NPPs (nuclear power plants) at shutdown operation, a specific approach to conduct shutdown PSA practically and feasibly is proposed. This Approach includes mainly discretization of POSs (plant operation states), phased evaluation and master plant logical fault tree. This feature approach is applied in shutdown PSA for GNPP, and some results and suggestions, which reflect the realistic situation of GNPP, are obtained. These recommendations and conclusions are of practical value to shutdown operation at GNPP and they are also of great significance for design, operation and management for other domestic NPPs.

**Key words** [Daya Bay nuclear power plant](#) [shutdown condition](#) [risk assessment](#)

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