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Study on the maintenance preparation of 'Linglong-1' based on system study

Abstract: In the context of the construction of the world's first reactor, the maintenance preparation of 'Linglong-1' needs to be completed in a shorter period of time under the premise of guaranteeing the reliability, foresight and effectiveness of maintenance, and needs a kind of maintenance ideology that takes into account the safety, efficiency and adaptability, so as to make the maintenance work of the nuclear power plant equipment more scientific and economic, safe and reliable, and save manpower, financial resources and material resources, reduce time costs and improve the execution of the maintenance personnel. It is necessary to make the maintenance work of nuclear power plant equipment more scientific and economical, safe and reliable, save human, financial and material resources, reduce the cost of time, and improve the executive power of maintenance personnel.

This paper introduces the management requirements for maintenance preparation of 'Linglong-1', including personnel preparation requirements, document preparation requirements, equipment preparation requirements, etc. Combined with the three phases of engineering construction, it sorted out the key tasks and work methods of maintenance preparation in each phase, and explored the key elements of maintenance preparation for the first reactor from the systematic thought focusing on the effectiveness of the maintenance after the unit's commercial operation. The key elements of maintenance preparation for the first reactor are explored.

Keywords: maintenance readiness; systems thinking; Linglong-1

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