

清华5MW低温核供热站反应堆物理启动监督检查及其结论

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摘要 <正> 一、前言 根据《中华人民共和国民用核设施监督管理条例》及其实施细则的规定,国家核安全局决定对清华5 MW低温核供热站试车、反应堆装料、临界、低功率试验和功率试验进行监督检查,并委托北京核安全审评中心组织检查组实施检查。我们参加了核供热站整个调试启动的监督检查工作。反应堆物理启动监督检查是其中一个检查项目。

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分类号

SURVEILLANCE INSPECTION AND RESULT ON PHYSICAL START-UP FOR 5MW EXPERIMENTAL LOW TEMPERATURE DISTRICT HEATING STATION

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Abstract Through the inspection on physical start-up of reactor, it is identified that the data of critical extrapolation and transition and the implementation of safety limit are correct. The results of inspection show that the physical start-up for 5MW NDHR is successful. The steady doubling time after critical transition is 237 seconds, it is within the acceptance criteria 30--300 seconds. The nuclear instrumentation systems which are used for normal operation have response to the neutron flux at this power level. The reactor power is below protection set-point.

Key words [Doubling time](#) [Critical lattice](#) [Critical extrapolation](#) [Reactivity](#)

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