

## 堆外动水腐蚀回路和运行经验简介

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收稿日期 1984-2-14 修回日期 网络版发布日期:

**摘要** 我们的动水腐蚀实验室配备有6套动水腐蚀实验回路。在过去几年里完成了大量的结构材料筛选试验,积累了一些回路建设和运行的经验。本文报道了典型的动水回路的结构以及主要部件,如循环泵、加热器、稳压器和阀门等器件的改进。还介绍了提高回路系统密封性和系统除氧方面的经验。过去我们主要研究铝,发现动水对铝的腐蚀的影响特别严重。

**关键词** [动水腐蚀](#) [回路](#) [铝的腐蚀](#) [预生膜](#) [屏蔽泵](#)

分类号

## BRIEF INTRODUCTION OF THE OUT-OF-PILE FLOWING WATER CORROSION LOOP AND ITS OPERATING EXPERIENCE

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**Abstract** Six sets of flowing water corrosion loop have been developed which have been used extensively for screening tests of reactor structure material, particularly aluminum and its alloys. This paper reports the structure of the typical loops and the experience accumulated. The improvements of main equipments such as circulation pumps, heaters, pressurizers valves as well as loop sealings are described in detail. Also described is oxygen removing technique in loops. It is found that the corrosion of Al is greatly affected by flowing water.

**Key words** [Flowing water corrosion](#) [Loops](#) [Corrosion of Al](#) [Preformed film](#) [Canned pump](#)

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