### 化学

# 核设施运行及退役中的废物最小化技术

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摘要 核设施的运行及退役不可避免会产生放射性废物,废物管理的代价以及对公众、工作人员和对环境 的危害取决于废物的数量及废物中所含的放射性核素,在核燃料循环过程中进行废物最小化管理是降低这些 影响的一项必须的活动。在有些国家,废物最小化已作为一项国策。本文介绍了放射性废物最小化的环境效 益及核设施运行和退役过程中废物最小化的方法,重点介绍了已研发的部分有效的废物最小化技术。通过总 结美国等发达国家的放射性废物最小化的经验,提出了如何在我国实现放射性废物最小化的建议。

放射性废物 废物最小化 核设施运行 核设施退役 关键词

分类号

Technologies for Minimization of Radioactive Waste Dur ing Operating and Decommissioning for Nuclear Faciliti es

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Abstract It is inevitable to generate a diverse range of radioactive waste which has to be man 本文作者相关文章 aged in a safe manner to be acceptable to the public and the environment during operating an d decommissioning for nuclear facilities. The cost of waste management, the risks to the publi c and employees, and the detriment to the environment are dependent on the quantity and radi oactive content of the waste generated. Waste minimization is a necessary activity needed to r educe the impact from nuclear fuel cycle operations and it is included in the national policy i n many a country. The environmental benefits and the methods for the radioactive waste minim ization were introduced, and the resultful techniques that had been developed in the world wer e mainly presented. What's more, through summarizing the achievements and experiences o f the radioactive waste minimization from U.S.A. and other developed countries, the paper put s forward how to bring about radioactive waste minimization in China.

**Key words** radioactive waste waste minimization nuclear facility operation nucle facility decommissioning

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