安全与管理

HTR-PM中¹⁴C产生与释放行为研究

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摘要 ¹⁴C具有较长的半衰期,可与稳定同位素一起进入生物圈,从而在核电站的环境影响评价中受到关注。本文基于HTR-PM给出了产生¹⁴C的各反应模型,并代以HTR-PM参数,对HTR-PM中¹⁴C的年产生量和气态释放量作出估算。最后,将计算结果与CANDU堆型进行了比较。

关键词 高温气冷堆 14C 释放行为

分类号

¹⁴C Production and Release Behaviour in HTR-PM

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Abstract

¹⁴C has a long half-life and can enter the biosphere with the stable isotope. It is concerned in envi ronmental impact assessment of nuclear power plants. Models of ¹⁴C production and release fro m HTR-PM were established, and annual production and release were estimated. The result was compared with CANDU.

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Key words HTR-PM _ 14C _ release behaviour

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