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秦山核电厂小破口失水加全厂断电事故序列的堆芯早期破坏过程分析

@季松涛\$中国原子能科学研究院反应堆工程研究设计所!北京102413 @张应超\$中国原子能科学研究院反应堆工程研究设计所!北京102413

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摘要 建立了秦山核电厂ICARE2V2mod2.3程序计算模型,分析了小破口失水加全厂断电事故的堆芯早期失效过程。分析结果表明:堆芯从4560s开始破坏。由于堆芯的冷却条件很差,使得整个的堆芯早期失效过程相对较快。ICARE2程序对早期破坏过程分析的有效时间只持续了约7900s。

关键词 [核电厂](#) [严重事故](#) [堆芯破坏](#)

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Analysis of Early Degradation of Qinshan Nuclear Power Plant —A Sequence of SBLOCA With Station Blackout

Ji Song tao, ZHANG Ying chao (China Institute of Atomic Energy, P.O. Box 275 64, Beijing 102413, China)

Abstract The calculational model of ICARE2 V2mode2.3 has been built for Qinshan Nuclear Power Plant and the simulation of early core degradation of SBLOCA with station blackout has been performed. The calculation results show that the core starts damage from 4560s and the whole process of early core degradation is relatively fast due to poor core cooling conditions. The analysis of early core degradation is only valid up to around 7900s.

Key words [severe accident](#) [nuclear power plant](#) [core damage](#)

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