

核安全

NUCLEAR SAFETY

ISSN 1672 - 5360

CN11 - 5145/TL



第 2 期

主管：中华人民共和国生态环境部
主办：环境保护部核与辐射安全中心

2018年2月第17卷总第61期
(双月刊, 2003年创刊)

三门核电厂1号机组首次装料 批准书颁发

2018.4.25 北京



ISSN 1672-5360



万方数据

核 安 全

2018 年 第 17 卷 第二期

● 六五环境日

- 01 浅议核能、环境与公众 姜子英
06 加强核设施退役能力建设, 促进厂址无限制开放利用 ... 张 露, 汪 萍, 彭 浩

● 监督管理

- 11 浅谈美国核管会反应堆监督管理体系 王娅琦, 李世欣, 庄少欣, 等

● 安全评审

- 18 非能动核电厂非安全系统实施监管时的若干问题 ... 刘 宇, 崔贺锋, 庞宗柱, 等
26 某研究堆一回路冷却剂泄漏事件的审评 孙 頔, 刘 锐, 杨未东, 等

● 核电厂实践

- 31 CPR1000 核电厂乏燃料水池重力补水的有效性分析
..... 焦振营, 张建文, 于枫婉, 等
38 高温气冷堆压力容器内壁浅表性缺陷检验规则的探讨
..... 贺振宇, 张发云, 邓 冬, 等

● 研究与探讨

- 43 碘吸附器有效性试验方法及评价 俞 杰, 吴振龙, 凌学会, 等
48 快速提升功率速率对芯块—包壳应力的影响规律 韦享雨
52 中国东南沿海热带气旋强度变化及对核电厂的影响分析
..... 纪忠华, 王 璐, 李 亮, 等
58 基于 MC3D 软件对核电厂压力容器蒸汽爆炸的重要参数计算及研究
..... 李 春, 杨志义, 丁 超, 等
66 核实物保护系统薄弱性分析方法现状及发展
..... 马 亮, 苑晨亮, 崔家文, 等
71 核材料管制范畴的探讨 张红见, 曹芳芳, 潘玉婷, 等
78 RAD7 测氦仪测量结果差异的探讨 张学礼, 牛 洁, 徐乐昌, 等

● 公众沟通

- 89 2018 年 2 月全国核与辐射安全舆情研判 李炜炜, 王晓峰, 王桂敏, 等

Nuclear Safety 2018 No. 2

CONTENTS

- 01 Discussion on Nuclear Energy, Environment and Public Jiang Ziyang
- 06 Strengthen the Decommissioning Level of Nuclear Facilities, Promote Unrestricted Use of the Site
..... Zhang Lu, Wang Ping, Peng Hao
- 11 The Introduction of Reactor Oversight Process of United States Nuclear Regulatory Commission
..... Wang Yaqi, Li Shixin, Zhuang Shaoxin, Hu Jiang, Zhou Hong
- 18 Key Problem of Supervise the Non-Safety System of Non Dynamic NPPs
..... Liu Yu, Cui Hefeng, Pang Zongzhu, Sun Zaozhan
- 26 The Review of Primary Loop Coolant Leak Event of a Research Reactor
..... Sun Di, Liu Rui, Yang Weidong, Chu Qianqian, Sun Shuhai, Che Shuwei
- 31 Analyse of the Efficiency of Gravity Makeup from SFP in CPR1000 Nuclear Power Plants
..... Jiao Zhenying, Zhang Jianwen, Yu Fengwan, Wang Zhenying
- 38 The Superficial Defects Inspect Rules of High Temperature Gas Cooled Reactor
..... He Zhenyu, Zhang Fayun, Deng Dong, Xiong Dongqing
- 43 Analysis of Test Methods for Evaluating the Availability of Iodine Adsorber
..... Yu Jie, Wu Zhenlong, Lin Xuehui, Han Lihong, Li Yanzhang, Wu Bo, Chen Jianli, Gao Linfeng, Liang Fei
- 48 The Analysis of RAMP Effect for PCMI Wei Xiangyu
- 52 Analysis on the Change of Intensity of Tropical Cyclones in Southeastern China and its Impacts on
Relevant Nuclear Power Plant Sites Ji Zhonghua, Wang Lu, Li Liang, Wu Zhenmei
- 58 Important Parameter Sensibility Study of Ex – Vessel Steam Explosion in Nuclear Power Plants by MC3D Code
..... Li Chun, Yang Zhiyi, Ding Chao, Shi Xueyao, Song Mingqiang, Chong Yimin, Li Xiaoyang
- 66 The Research Status and Development of the Vulnerability Assessment Methods for Physical Protection System
..... Ma Liang, Yuan Chenliang, Cui Jiawen, Wan Xiaoyuan
- 71 The Concept of Nuclear Material Control
..... Zhang Hongjian, Cao Fangfang, Pan Yuting, Zhang Liang
- 78 Discussion on the Differences of Continuous Radon Measurement Results by RAD7 Detector in
Different Working Modes Zhang Xueli, Niu Jie, Xu Lechang, Peng Yang, Kang Jianqiao
- 89 Report about Public Sentiment of National Nuclear and Radiation Safety of February 2018
..... Li Weiwei, Wang Xiaofeng, Wang Guimin, Zhang Yue, Song Peifeng