

**Proceedings of
2022 29th International Conference on
Nuclear Engineering
(ICONE29)**

Volume 1

**August 8-12, 2022
Shenzhen, China and Virtual, Online**

**Conference Sponsor
Nuclear Engineering Division**

THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS

Two Park Avenue * New York, N.Y. 10016

© 2022, The American Society of Mechanical Engineers, 2 Park Avenue, New York, NY 10016, USA
(www.asme.org)

All rights reserved. Printed in the United States of America. Except as permitted under the United States Copyright Act of 1976, no part of this publication may be reproduced or distributed in any form or by any means, or stored in a database or retrieval system, without the prior written permission of the publisher.

INFORMATION CONTAINED IN THIS WORK HAS BEEN OBTAINED BY THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS FROM SOURCES BELIEVED TO BE RELIABLE. HOWEVER, NEITHER ASME NOR ITS AUTHORS OR EDITORS GUARANTEE THE ACCURACY OR COMPLETENESS OF ANY INFORMATION PUBLISHED IN THIS WORK. NEITHER ASME NOR ITS AUTHORS AND EDITORS SHALL BE RESPONSIBLE FOR ANY ERRORS, OMISSIONS, OR DAMAGES ARISING OUT OF THE USE OF THIS INFORMATION. THE WORK IS PUBLISHED WITH THE UNDERSTANDING THAT ASME AND ITS AUTHORS AND EDITORS ARE SUPPLYING INFORMATION BUT ARE NOT ATTEMPTING TO RENDER ENGINEERING OR OTHER PROFESSIONAL SERVICES. IF SUCH ENGINEERING OR PROFESSIONAL SERVICES ARE REQUIRED, THE ASSISTANCE OF AN APPROPRIATE PROFESSIONAL SHOULD BE SOUGHT.

ASME shall not be responsible for statements or opinions advanced in papers or . . . printed in its publications (B7.1.3). Statement from the Bylaws.

For authorization to photocopy material for internal or personal use under those circumstances not falling within the fair use provisions of the Copyright Act, contact the Copyright Clearance Center (CCC), 222 Rosewood Drive, Danvers, MA 01923, tel: 978-750-8400, www.copyright.com.

Requests for special permission or bulk reproduction should be addressed to the ASME Publishing Department, or submitted online at: <https://www.asme.org/publications-submissions/journals/information-for-authors/journalguidelines/rights-and-permissions>

ISBN: 978-0-7918-8635-9

WELCOME TO THE 29TH INTERNATIONAL CONFERENCE ON NUCLEAR ENGINEERING

Dear Colleagues,

On behalf of the Organizing Committee, I would like to welcome you to the 29th International Conference on Nuclear Engineering (ICONE29), with the theme Nuclear Energy Innovation Powering a Carbon Neutral Future. Large in person social gatherings, including engineering conferences, are by necessity transitioning to virtual events because of the COVID-19 pandemic. We are honored to organize such a shared virtual conference to facilitate more thorough communication among professionals who devote themselves to the nuclear engineering career.

The International Conference on Nuclear Engineering (ICONE) is the premier global conference on nuclear reactor technology. ICONE29 is a "must-attend" for anyone who wants to stay technically current and on top of industry trends and developments. It will unfold in the virtual space. The virtual conference will provide live broadcast and playback viewing functions, and you can also participate in discussions with experts and presenters in the live broadcast.


ICONE 29 will cover a wide range of sessions, including: opening and plenary session, 11 panels, 16 technical tracks, 4 workshops and student program. In our opening and plenary session, we have been fortunate to have prominent officials, leading scholars, industry leaders participate and provide their valuable perspectives on nuclear engineering issues.

The technical tracks will present you diverse topics, including: nuclear plant operation & maintenance, engineering and modification, operation life extension (OLE), and life cycle; nuclear fuel and material, reactor physics and transport theory, and fuel cycle technology; I&C, digital control, and influence of human factors; SMRs, advanced reactors and fusion; nuclear safety, security, and cyber security; nuclear codes, standards, licensing, & regulatory issues; thermal-hydraulics and safety analysis; computational fluid dynamics (CFD) and applications; decontamination & decommissioning, radiation protection, & waste management; advanced methods of manufacturing for nuclear reactors and components; mitigation strategies for beyond design basis events; innovative and smart nuclear power plant design; risk assessments and management; computer code verification and validation; nuclear education and public acceptance; student paper competition.

Through the student program, 20 best papers and 20 best posters will be selected, and the Akiyama Award will be awarded to the best student paper. The goal of the student program is to raise their awareness in fully engaging in this career and keep them updated on the current situation and future trend. Before the conference, we will hold workshops to expand our knowledge span in our professions. Lectures will be presented on the development and challenges we are confronted with.

I would like to express my sincere thanks to the reviewers for ensuring the high quality of the technical papers. Special thanks are extended to the sponsors. Finally, we show high regard to all the authors, speakers in the panel and plenary sessions. All the participants are the major contributors to the success of the conference.

In the end, on behalf of all committee members, I cordially invite all of you to participate and support ICONE 29 activities. Together, we will witness the success of this energetic, diverse and comprehensive virtual conference.



Shoujun
WANG ICONE 29
Conference Chair President
of Chinese Nuclear Society

ASME CONFERENCE ORGANIZING COMMITTEE

Conference Chair: Richard Schultz, *Idaho State University*

Conference Co-Chair: Jovica Riznic, *Canadian Nuclear Safety Commission*

Organizing Committee Chair: Asif Arastu, *Unisont Inc.*

Organizing Committee Co-Chair: Yassin Hassan, *Texas A&M University*

Technical Program Committee Chair: Rosa Lo Frano, *University of Pisa*

Technical Program Committee Co-Chair: Guoqiang Wang, *Westinghouse Electric Co.*

Student Committee Chair: Shripad Revankar, *Purdue University*

Award Committee Chair: Robert Stakenborghs, *Advanced Clean Energy*

Award Committee Co-Chair: Guoqiang Wang, *Westinghouse Electric Co.*

ICONE29 ORGANIZERS

Nuclear Plant Operation and Maintenance, Engineering and Modification, Operation Life Extension (OLE), and Life Cycle

CNS Chairs:

Zhengyu ZOU, *CNNP Nuclear Power Operations Management Co.Ltd.*

Shuzhou LI, *Suzhou Nuclear Power Research Institute*

Jinkai WANG, *CNPEC*

Weihua ZHA, *CNNP Nuclear Power Operations Management Co.Ltd.*

Yawei MAO, *China Nuclear Industry 23 Construction Co., Ltd.*

Fuping FAN, *Sanmen Nuclear Power Company, Ltd.*

Tunfeng QI, *WANO Shanghai Office*

ASME Chairs:

Nicholas McMurray, *ClearPath*

William A. Byers, *Westinghouse Electric Company LLC*

Bob Stakenborghs, *Advanced Clean Energy*

JSME Chairs:

Koji Yamada, *Chubu Electric Power Co., Inc.*

Yukinori Hirose, *Toshiba Energy Systems & Solutions Corporation*

Nuclear Fuel and Material, Reactor Physics and Transport Theory, and Fuel Cycle Technology

CNS Chairs:

Min XIAO, *China Nuclear Power Technology Research Institute* Liangzhi

CAO, *Xi'an Jiao Tong University*

Yongjun JIAO, *NPIC*

Bing LIU, *Tsinghua University*

Libing ZHU, *Shanghai Nuclear Engineering Research and Design Institute*

Guoliang ZHANG, *CGN*

Weicai LI, *CGN*

Dechang CAI, *China Nuclear Power Technology Research Institute*

ASME Chairs:

Zeyun Wu, *Virginia Commonwealth University*

Djordje Tomasevic, *NECSA*

Zafar Koreshi, *Air University Islamabad*

Justin Spencer, *Canadian Nuclear Laboratories (CNL)*

Hakan Ozaltun, *Idaho National Laboratory*

Bob Oelrich, *Pacific Northwest National Laboratory*

Wenzhong Zhou, *Sun Yat-Sen University*

JSME Chairs:

Daisuke Sato, *Mitsubishi Heavy Industries, Ltd.*

Takashi Shimomura, *Mitsubishi Nuclear Fuel Co., Ltd.*

Yuichiro Kubo, *Nuclear Fuel Industries, Ltd.*

Satoshi Takeda, *Osaka University*

I&C, Digital Control, and Influence of Human Factors

CNS Chairs:

Yongbin SUN, CGN

Liming ZHANG, *China Nuclear Power Engineering Co., Ltd.*

Shuhui ZHANG, *Shanghai Nuclear Engineering Research and Design Institute*

Dong WANG, *China Nuclear Control Systems Engineering Co., Ltd.*

ASME Chairs:

Mauro Cappelli, *ENEA - Frascati Research Center*

Brian Fant, *Bechtel*

Goran Simeunovic, *Technical University Prague*

JSME Chairs:

Shin Hasegawa, *Hitachi-GE Nuclear Energy, Ltd.*

Akio Gofuku, *Okayama University*

SMRs, Advanced Reactors, and Fusion

CNS Chairs:

Jimin LIN, CGN

Danrong SONG, *NPIC*

Hongyi Yang, *China Institute of Atomic Energy*

Baoting LIU, *China Nuclear Power Engineering Co., Ltd.*

Jianhui YU, *Shanghai Nuclear Engineering Research and Design Institute*

Yang ZOU, *Shanghai Institute of Applied Physics, Chinese Academy of Sciences*

Fu LI, *The Institute of Nuclear and New Energy Technology (INET) of Tsinghua University*

Wulyu ZHONG, *Southwestern Institute of Physics*

ASME Chairs:

Rosa Io Frano, *DICI – University of Pisa*

Dmitry Paramonov, *JSC Atomenergoproekt*

Ivan Otic, *Karlsruhe Institut of Technology (KIT)*

Glenn Harvel, *University of Ontario Institute of Technology*

Jovica Riznic, *Canadian Nuclear Safety Commission*

JSME Chairs:

Kazuhiro Kamei, *Toshiba Energy Systems & Solutions Corporation*

Hiroyuki Sato, *Japan Atomic Energy Agency*

Nuclear Safety, Security, and Cyber Security

CNS Chairs:

Yehong LIAO, *China Nuclear Power Research Institute*

Peng CHEN, *China Nuclear Power Research Institute*

Jian DENG, *Nuclear Power Institute of China, NPIC*

Dongfeng XU, CGN

ASME Chairs:

David L.Y. Louie, *Sandia National Laboratories*

Dmitry Grishchenko, *KTH, Sweden*

Patrick Frias, *U.S. Department of Energy*

Nuclear Safety, Security, and Cyber Security

JSME Chairs:

Takeshi Yamada, *Hitachi-GE Nuclear Energy, Ltd.*

Tomohiko Ikegawa, *Hitachi Ltd.*

Hideki Horie, *Toshiba Energy Systems & Solutions Corporation*

Kazuyuki Demachi, *The University of Tokyo*

Nuclear Codes, Standards, Licensing, and Regulatory Issues

CNS Chairs:

Lin TIAN, *Shanghai Nuclear Engineering Research and Design Institute*

Ruilin DONG, *Institute for Standardization of Nuclear Industry*

Fei HAN, *Suzhou Nuclear Power Research Institute*

Haiying LUO, *China Nuclear Power Engineering Co., Ltd.*

Xiaofeng WANG, *Nuclear and Radiation Safety Center*

Lifeng GUO, *China Nuclear Power Engineering Co.*

Jingxian MA, *China Productivity Center for Machinery*

ASME Chairs:

Clayton Smith, *SmithACG, LLC*

Mathew Panicker, *US Nuclear Regulatory Commission*

JSME Chairs:

Koji Yamada, *Chubu Electric Power Co., Inc.*

Yasushi Saito, *Kyoto University*

Thermal-Hydraulics and Safety Analysis

CNS Chairs:

Guanghai SU, *Xi'an Jiao Tong University*

Xianghui LU, *China Nuclear Power Research Institute*

Di ZHANG, *Shanghai Nuclear Engineering Research and Design Institute*

Xiaojing LIU, *Shanghai Jiao Tong University*

Dahuan ZHU, *NPIC*

ASME Chairs:

Guoqiang Wang, *Westinghouse Electric Co.*

Yassin Hassan, *Texas A&M University*

Asif Arastu, *Unisont Inc.*

Qingzi Zhu, *Massachusetts Institute of Technology*

Baowen Yang, *CARP Associates USA*

Gonzalo Jimenez, *Universidad Politécnica de Madrid*

Jun Liao, *Westinghouse Electric Co.*

JSME Chairs:

Shoji Mori, *Kyushu University*

Chikako Iwaki, *Toshiba Energy Systems & Solutions Corporation*

Tomio Okawa, *The University of Electro-Communication*

Yoshiyuki Kondo, *Mitsubishi Heavy Industries, Ltd.*

Daisuke Ito, *Kyoto University*

Akinori Tamura, *Hitachi Ltd.*

Yasuteru Sibamoto, *Japan Atomic Energy Agency*

Computational Fluid Dynamics (CFD) and Applications

CNS Chairs:

Wenxi TIAN, *Xi'an Jiao Tong University*

Xuewu CAO, *Shanghai Jiao Tong University*

Qionghui TANG, *China Nuclear Power Engineering Co., LTD*

Meilan CHEN, *China Nuclear Power Research Institute*

Xu HAN, *CNPE, Nuclear Power Safety Research Center*

ASME Chairs:

Yassin Hassan, *Texas A&M University*

Elia Merzari, *Argonne National Laboratory*

Sofiane Benhamadouche, *Electricite De France R&D*

Yacine Addad, *Khalifa University*

Milorad Dzodzo, *Westinghouse*

Vasilii Volkov, *OKB Gidropress*

Mie Azuma, *Pacific Northwest National Laboratory*

JSME Chairs:

Hiroyuki Yoshida, *Japan Atomic Energy Agency*

Yasuo Hattori, *Central Research Institute of Electric Power Industry*

Kei Ito, *Kyoto University*

Decontamination and Decommissioning, Radiation Protection, and Waste Management

CNS Chairs:

Ju WANG, *Beijing Research Institute of Uranium Geology*

Anxi CUI, *China Institute for Radiation Protection*

Mingzhou CHEN, *China Nuclear Power Research Institute*

Shaohua TANG, *China Nuclear Power Engineering Co., LTD.*

Ran XIA, *CEPC Strategic Planning Department*

ASME Chairs:

Anthony Hechanova, *Abu Dhabi Polytechnic*

Benjamin P. Parruzot, *Pacific Northwest National Laboratory*

Emmanuel Porcheron, *IRSN France*

Rosa lo Frano, *DICI – University of Pisa*

JSME Chairs:

Daisuke Kawasaki, *Fukui University*

Taro Shimada, *Japan Atomic Energy Agency*

Masahiro Kawakubo, *Radioactive Waste Management Funding and Research Center*

Advanced Methods of Manufacturing for Nuclear Reactors and Components

CNS Chairs:

Weibao TANG, *Shanghai Electricity*

Gaihuan YUAN, *State Nuclear Bao Ti Zirconium Industry Co., LTD.*

Rongsheng ZHOU, *CGNPC Uranium Resources CO. Ltd.*

Xiaobing RAN, *China Nuclear Power Engineering Co., LTD.*

Shujian TANG, *CNPRI*

Xiaojiang WANG, *China Nuclear Power Engineering Co., LTD*

Advanced Methods of Manufacturing for Nuclear Reactors and Components

ASME Chairs:

Asif Arastu, *Unisont Inc.*

Leon Cizelj, *Jozef Stefan Institute*

Antony M. Hurst, *Engineering Analysis Services Limited*

Miltos Alamaniotis, *University Texas at San Antonio*

JSME Chairs:

Yoshinori Katayama, *Toshiba Energy Systems & Solutions Corporation*

Shinobu Okido, *Hitachi-GE Nuclear Energy, Ltd.*

Atsushi Matsumura, *Mitsubishi FBR Systems, Inc.*

Akemi Nishida, *Japan Atomic Energy Agency*

Ikuo Ioka, *Japan Atomic Energy Agency*

Mitigation Strategies for Beyond Design Basis Events

CNS Chairs:

Yidan YUAN, *CNPE*

Peng CHEN, *CNPR*

Jian DENG, *NPIC*

Jiayun WANG, *SNERDI*

ASME Chairs:

Ivo Kljenak, *Jozef Stefan Institute*

Alexei Miassoedov, *IAEA*

Pavlo Kudinov, *Royal Institute of Technology*

JSME Chairs:

Tadashi Watanabe, *University of Fukui*

Chiaki Kino, *Institute of Applied Energy*

Masahiro Ishigaki, *University of Fukui*

Innovative and Smart Nuclear Power Plant Design

CNS Chairs:

Jingren GUO, *CGN*

Jun LI, *CNPE*

Hua ZHENG, *CNPEC*

Xujia WANG, *SNERDI*

ASME Chairs:

Nicholas McMurray, *ClearPath*

Guoqiang Wang, *Westinghouse Electric Company LLC*

JSME Chairs:

Kazuhito Asano, *Toshiba Energy Systems & Solutions Corporation*

Takashi Hirano, *IHI Corporation*

Risk Assessments and Management

CNS Chairs:

Bo ZHAO, *CNPE*
Qiongze LI, *CGN*
Haiying XI, *CNPRI*
Qinfang ZHANG, *SNERDI*
Wei DENG, *CNPE*

ASME Chairs:

Xianxun (Arnold) Yuan, *Ryerson University*
Zhegang Ma, *Idaho National Laboratory*

JSME Chairs:

Hidemasa Yamano, *Japan Atomic Energy Agency*
Koji Shirai, *Central Research Institute of Electric Power Industry*

Computer Code Verification and Validation

CNS Chairs:

Yanhua YANG, *Shanghai Jiao Tong University*
Jinggang LI, *CNPRI*
Ting WANG, *CNPRI*
Hui YU, *State Power Investment Corporation Research Institute*
Wei ZENG, *NPIC*

ASME Chairs:

Richard Schultz, *Idaho State University*
Yassin Hassan, *Texas A&M University*
Milorad Dzodzo, *Westinghouse*
Alessandro Petruzzi, *Nuclear Research Group of San Piero a Grado (GRNSPG)*
Sam Treasure, *Rolls-Royce*

JSME Chairs:

Masaaki Tanaka, *Japan Atomic Energy Agency*
Kotaro Nakada, *Toshiba Energy Systems & Solutions Corporation*

Nuclear Education and Public Acceptance

CNS Chairs:

Yongmei WANG, *Nuclear Industry College*
Kan WANG, *Tsinghua University*
Bin WU, *The Institute of Nuclear and New Energy Technology (INET) of Tsinghua University*
Puzhen GAO, *Harbin Engineering University*

ASME Chairs:

Leon Cizelj, *Jozef Stefan Institute*
Yassin Hassan, *Texas A&M University*
Asif Arastu, *Unisont Inc.*

JSME Chairs:

Hiroshige Kikura, *Tokyo Institute of Technology*
Hideharu Takahashi, *Tokyo Institute of Technology*

Student Paper Competition

CNS Chairs:

Suyuan YU, *Tsinghua University*

Liangming PAN, *Chongqing University*

ASME Chairs:

Shripad Revankar, *Purdue University*

Vladimir Stevanovic, *University of Belgrade*

Leon Cizelj, *Jozef Stefan Institute*

Gonzalo Jimenez, *Universidad Politecnica de Madrid*

Jovica Riznic, *Canadian Nuclear Safety Commission*

Rosa lo Frano, *DICI – University of Pisa*

Wolfgang Hansen, *Technical University Dresden*

JSME Chairs:

Shuichiro Miwa, *The University of Tokyo*

Satoshi Takeda, *Osaka University*

REVIEWERS

Yacine Addad
Malek Albadarneh
Majid Ali
Hiba Al-Khodire
William Amonette
Dong An
Asif Arastu
Kazuhito Asano
Hamza Ayyash
Mie Azuma
Shimei Bao
Yann Bartosiewicz
Ahmed Bentaib
Pang Bo
Hugues Bonin
Shanshan Bu
William A. Byers
Yun Cai
Lijun Cai
Jun Cai
Li Cai
Zhiyun Cai
Liangzhi Cao
Mauro Cappelli
Paul K. Chan
Zeng Chang
Haijun Chang
Wang Chao
Mengke Chao
Meilan Chen
Zhibin Chen
Zhiqiang Chen
Minli Chen
Jun Chen
Mingzhou Chen
Zhao Chen
Liang Chen
Xiaotong Chen
Liutao Chen
Deqi Chen
Peng Chen
Cheng Chen
Yuqing Chen
Hongli Chen
Shuo Chen
Zhonghe Cheng
Songbai Cheng
Maosong Cheng
Yuan Chenliang

Go Chiba
Leon Cizelj
Shuo Cong
Tenglong Cong
Zhenshan Cui
Anxi Cui
Zhiwen Dai
Zhuoran Dang
Gaojian Dang
Sun Dayun
Jian Deng
Yongjun Deng
Wei Deng
Changsheng Deng
Ruiyuan Deng
Tinashe Dhlwayo
Ruilin Dong
Hewei Dong
Xianzhe Duan
Milorad Dzodzo
Mohamed El-Genk
Brian Fant
M. Kommy Farahani
Jinyong Feng
Kevin Fernández-
Cosials
Damien Feron
Huang Futong
Fabrizio Gabrielli
Yuan Gaihuan
Puzhen Gao
Paul Gillespie
Akio Gofuku
Dmitry Grishchenko
Jianfeng Gu
Xionglong Guo
Hong Guo
Baochao Guo
Jingren Guo
Lifeng Guo
Bao Guogang
Liu Haibin
Luo Haiying
Wajih Hamouda
Fei Han
Yaolei Han
Wolfgang Hansen
Wang Hao
Yun Hao

Shin Hasegawa
Grant Hawkes
Mingtao He
Qingming He
Hui He
Qingche He
Yinbiao He
Anthony Hechanova
Si Hengyuan
Luis Herranz
Takashi Hirano
Yukinori Hirose
Hai Quan Ho
Jaroslav Holy
Wang Hongtao
Hideki Horie
Jipu Hu
Guangjie Hu
Haixiang Hu
Lijun Huang
Jun Huang
Huizhen Huang
Shanfang Huang
Mei Huaping
Antony Hurst
Mohamed Hussein
Milica Ilic
Ikuo Ioka
Masahiro Ishigaki
Toshiaki Ishii
Etsuo Ishitsuka
Yoshihiro Isobe
Kei Ito
Daisuke Ito
Jing Jiang
Naibin Jiang
Weifeng Jiang
Yuan Jin
Le Jin
Shan Jin
Wei Jinfeng
Li Jun
Xue Kai
Akiko Kaneko
Yoshinori Katayama
Daisuke Kawasaki
Syed Ali Kazmi
Hong Pyo Kim
Ivo Kljenak

Yoshiyuki Kondo
Ran Kong
Satoshi Kurata
Kenichi Kurisaka
Jaeyoung Lee
Weijian Lei
Song Lei
Cong Li
Zhenzhong Li
Xinjun Li
Wenhua Li
Jinggang Li
Qiongzhe Li
Shuzhou Li
Tianbin Li
Yabing Li
Gang Li
Zeguang Li
Mancang Li
Wenjie Li
Lei Li
Ben Li
Jian Li
Fu Li
Chengyuan Li
Heng Li
Qinghua Li
Yafei Li
Wei Liang
Jun Liao
YeHong Liao
Jun Lin
Yuanfeng Lin
Hui Ling
Xiaoxing Liu
Maolong Liu
Zhouyu Liu
Wei Liu
Bing Liu
Pengliang Liu
Xudong Liu
Jian Liu
Limin Liu
Zhipeng Liu
Rong Liu
Man Liu
Xiaojing Liu
Rongzheng Liu
Mengmeng Liu
Shuai Liu
Xiaofang Liu

Malin Liu
Zhihong Liu
Baoting Liu
Zhan Liu
Dong Liu
Chao Liu
Hemin Liu
Weifang Liu
Fengwu Liu
Shangyuan Liu
Steve Livingstone
Timothy Lloyd
Rosa Lo Frano
Yun Long
Ruxiao Lu
Chunhua Lu
Haoliang Lu
Yanhong Lu
Donghua Lu
Baifeng Luan
Yuejian Luo
Caixia Lv
Qing Yang Lv
Lianxi Lv
Sheng Lyu
Zaiyong Ma
Hongsu Ma
Yingbing Ma
Xiaoyao Ma
Jingxian Ma
Yu Ma
Guoyang Ma
Yawei Mao
Cong Mao
Liang Mao
Khurram Mehboob
Zhiliang Meng
Elia Mezzari
Shuichiro Miwa
James A. Monroe
Jordan Morelli
Shoji Mori
Hitoshi Muta
Kotaro Nakada
Jin qiu Nan
Khawar Naveed
Muyi Ni
Song Ni
Kathy Nielsen
Akemi Nishida
Robert Oelrich

Tomio Okawa
Yuichi Onoda
Hakan Ozaltun
Xinxin Pan
Qingquan Pan
Zhengzheng Pang
Mathew Panicker
Benjamin Parruzot
Xiaoji Peng
Hao Peng
Xingjie Peng
Alessandro Petruzzi
Pascal Piluso
Markus Piro
Emmanuel Porcheron
Deoras
Prabudharwadkar
Nikolay Pribaturin
Andrew Prudil
Tunfeng Qi
Xiaoguang Qi
Shouxu Qiao
Hao Qin
Yang Qingqin
Khurram Quraishi
Zhi-Hao Ren
Jovica Riznic
Federico Rocchi
Xiangkun Ru
Hiroto Sakashita
Pavel Samuleev
Hongji Sang
Daisuke Sato
Youlin Shao
Ding She
Shakil R. Sheikh
Mengling Shen
Ke Shen
Zhuoting Shi
Qing Shi
Lei Shi
Liu Shichao
Taro Shimada
Koji Shirai
Goran Simeunovic
Peng Sitao
Radek Skoda
Clayton Smith
Hongwu Song
Meiqi Song
Danrong Song

Yinxi Song
Robert Stakenborghs
Joerg Hans Starflinger
Vladimir Stevanovic
Jun Sun
Hongping Sun
Rulei Sun
Wan Sun
Yixing Sung
Satoshi Takeda
Tetsuaki Takeda
Masahiro Takei
Sichao Tan
Jun Tan
Masaaki Tanaka
Weibao Tang
Shaohua Tang
Yinyong Tao
Emre Tatli
Wenxi Tian
Lin Tian
Li Ting
Jin Ting
Mitja Uršic
Arun Veeramany
Vasilii Volkov
Jasmina Vucetic
Takashi Wakai
Jie Wan
Chenghui Wan
Chenhui Wang
Mingjun Wang
Dong Wang
Yongping Wang
Xujia Wang
Fang Wang
Weidong Wang
Ben Wang
Dezhong Wang
Kan Wang
Guoqiang Wang
Di Wang
Qingtian Wang
Xiaofeng Wang
Xingming Wang
Chenglong Wang
Donghui Wang
Jiwei Wang
Jiayun Wang
Yangyang Wang
Xiaofang Wang

Jinkai Wang
Yang Wang
Qingyu Wang
Zhibin Wang
Kaiyuan Wang
Xiaokun Wang
Tadashi Watanabe
Yanfei Wei
Liu Wei
Wang Weiwei
Na Weng
Carrie Wood
Bin Wu
Yukun Wu
Hongwei Wu
Zeyun Wu
Feifei Wu
Haiying Xi
Yanyan Xi
Shuan Xia
Bing Xia
Du Xianan
Cheng Xiang
Min Xiao
Yao Xiao
Wei Xiao
Zhao Xiaohan
Wenzhang Xie
Zhiguo Xie
Zhengquan Xie
Lei Xin
Guohua Xiong
Keren Xu
Youyou Xu
Wei Xu
Hong Xu
Gang Xu
Yiban Xu
Lei Xue
Fu Xuefeng
Wangtao Xv
Koji Yamada
Takeshi Yamada
Yasunori Yamamoto
Hidemasa Yamano
Meiyue Yan
Rui Yan
Chengdong Yang
Jun Yang
Huimin Yang
Yongyong Yang

Li Yang
Xiaohong Yang
Gao Yang
Yuansong Yang
Jie Yang
Baowen Yang
Jie Wei Yang
Xiong Yanli
Meiyi Yao
Chen Yaomao
Hassan Yassin
Shangshang Ye
Guma Yeli
Guixiang Yi
Fei Yi
Zhang Ying
Wang Yongmei
Hiroyuki Yoshida
Chao Yu
Xiumin Yu
Suyuan Yu
Hao Yu
Jianhui Yu
Wenge Yu
Ganglin Yu
Wei Yuan
Zhou Yuan
Xiaodan Yuan
Yidan Yuan
Arnold Yuan
Di Yun
Xian Zeng
Hui Zeng
Weihua Zha
Lihong Zhai
Han Zhang
Luteng Zhang
Qinfang Zhang
Shuhui Zhang
Yan Zhang
Hong Zhang
Yuxiang Zhang
Hengdi Zhang
Juanhua Zhang
Sai Zhang
Zhen Zhang
Jing Zhang
Kai Zhang
Xuefeng Zhang
Tengfei Zhang
Feifei Zhang

Hongsheng Zhao
Wanqian Zhao
Changyou Zhao
Yang Zhao
Wenjin Zhao
Bo Zhao
Chunqing Zhao
Jing Zhao
Qingsen Zhao
Meiyin Zheng

Jiawei Zheng
Zhang Zhifeng
Wulyu Zhong
Xiangwen Zhou
Wenzhong Zhou
Chong Zhou
Zhou Zhou
Bo Zhou
Rongsheng Zhou
Qin Zhou

Longxiang Zhu
Yingzi Zhu
Dahuan Zhu
Libing Zhu
Chaoyi Zhu
Gan Zhu
Yizhou Zhu
Qingzi Zhu
Yang Zou
Zhengyu Zou

CONTENTS

Proceedings of 2022 29th International Conference on Nuclear Engineering Volume 1

Nuclear Plant Operation and Maintenance, Engineering and Modification, Operation Life Extension (OLE), and Life Cycle

ICONE29-88835	V001T01A001
Application of Probabilistic Safety Analysis in Analysis of Impact of Fangjiashan Nuclear Power Plant's Load-Following Operation <i>Deyi Liu, Sixing Zha, Jian Wu, Yong Cao, and Honghao Chen</i>	
ICONE29-88883	V001T01A002
Investigation of the Fuel Element Damage Monitoring Technology in HTGRs and PWRs <i>Rui Nie, Yu Wang, Feng Xie, Shan Qing, and Jianzhu Cao</i>	
ICONE29-89057	V001T01A003
Research on the Technology Accuracy of the On-Line Fracture Assessment of Cracked Pipe in NPPs <i>Mingya Chen, Min Yu, Hongbo Gao, Shuang Qi, Lei Lin, Decheng Xu, Weiqiang Wang, Jinhua Shi, Qunjia Peng, and Guodong Zhang</i>	
ICONE29-89165	V001T01A004
Sensitivity Calculation of Lower Shell Pressure Parameters in Advanced Nuclear Power Plant Accidents <i>Zhou Lanyu, Sun Yanyu, Zheng Yuntao, and Yang Changjiang</i>	
ICONE29-89215	V001T01A005
On Line Monitoring of Sensor Failure in Nuclear Power Plant Based on Sequential Probability Ratio Test <i>Fangxiaozi Yu, Xintong Ma, Zhuang Miao, and Min Zhang</i>	
ICONE29-89258	V001T01A006
Research on Signal Reconstruction Technology for Nuclear Power Plant Based on Self-Associative Kernel Regression <i>Zhuang Miao, Fangxiaozi Yu, and Zhao Xu</i>	
ICONE29-89387	V001T01A007
Research on a Circuit Health Assessment Technology Combining Mechanism Knowledge and Data Driven Technology <i>Guilian Shi, Huang Xiaojin, and Mo Changyu</i>	
ICONE29-89461	V001T01A008
Research on the Influence of Degassing on the Release of Fission Gases in PWRs <i>Yaixin Ye, Pengtao Fu, and Zhijun Li</i>	
ICONE29-89465	V001T01A009
Cause Analysis of Oil Leakage of the Skeleton Oil Seal for a Diesel Engine Pre- Lubricated Oil Pump <i>Binsheng Lai, Zhi Chen, Jianming Li, and Xin Zhou</i>	
ICONE29-89869	V001T01A010
Seismic Analysis of Fuel Transfer Tube Gate Valve <i>Su Ziwei and Zhang Xin</i>	
ICONE29-90164	V001T01A011
Multiplication Factor Prediction Feasibility Study for the BEAVRS Core Based on the LSTM Algorithm <i>Ren Chang-an, Lei Ji-chong, and Yang Xiao-hua</i>	

ICONE29-90517	V001T01A012
Experience Feedback Report on Hydrogen Meter Discontinuity of Steam Generator Overflow Tube <i>Zhang Liu-Huan, Wu Xiang, and Ouyang Dong-Fang</i>	
ICONE29-90542	V001T01A013
Proposal of Detailed Procedures of Determining Rational In-Service Inspection Requirements Based on System Based Code Concept <i>Hiroki Yada, Shigeru Takaya, Kyoichi Morohoshi, and Shinobu Yokoi</i>	
ICONE29-90543	V001T01A014
Design Verification of Minimum Flow Valve of the Main Feed Water Pump Based on the Full-Range Simulation Platform of CPR 1000 <i>Zhenhua Zhang, Bo Zhang, and Chaoying Zheng</i>	
ICONE29-90544	V001T01A015
Study on the Water Intake of Heat Trap Blocked by Marine Life in Nuclear Power Plant <i>Zhenhua Zhang, Bo Zhang, and Chaoying Zheng</i>	
ICONE29-90570	V001T01A016
Research on Optimization of Reload Startup Physics Tests in Sanmen Nuclear Power Plant <i>Jianfeng Shi, Qingxiang Yang, Lihua Wang, Lijiang Chen, and Ang Li</i>	
ICONE29-90677	V001T01A017
Study on Analysis Method of LOCA Dynamic Response for Steam Generator Heat Transfer Tube <i>Xifeng Lu, Furui Xiong, Xinjun Wang, Honglei Ai, Bingjin Li, Xuejiao Shao, and Kang Yang</i>	
ICONE29-90725	V001T01A018
Logic Equation of Operating Situations and Man-Machine Interface Design for NPP <i>Tianqi Si, Yuqi Wang, and Yu Du</i>	
ICONE29-91252	V001T01A019
Research on Standardization System of Smart Site for Nuclear Power Plant Construction <i>Changchun Ren and Gang Wu</i>	
ICONE29-91360	V001T01A020
Deuterization Process and Result Analysis of Resin in Heavy Water Purification System of a Reactor <i>Wen Juan Zhang, Fengxia Xu, and Xiao Hua</i>	
ICONE29-91484	V001T01A021
Study on Maintenance Method of Design Basis in Operating Nuclear Power Plants <i>Guangjun Wu and Wei Xiao</i>	
ICONE29-91638	V001T01A022
Developing Intelligent Equipment Monitoring System of Nuclear Power Plants to Improve Plant Performance <i>Jianming Yu and Yibiao Cai</i>	
ICONE29-91676	V001T01A023
Effect of Carbon Content on the Resistance to Intergranular Corrosion of Alloy 800H <i>Qiang Zhong, Man Wang, Wen-Qiang Sun, Jun-Jie Wu, Jiong Qian, and Sen-Sen Ning</i>	
ICONE29-91870	V001T01A024
Reliability Analysis of Off-Plant Power for Multi-Units <i>Chen Honghao, Ren Cheng, Wu Jian, Liu Deyi, Luo Yang, Zou Shengjia, and Wang Zilong</i>	

ICONE29-91884	V001T01A025
Research on Operation Life Extension Time Limited Aging Analysis Key Method for Electrical Penetration Assembly of Nuclear Power Plants <i>Binfeng Wang, Zhilin Chen, Ping Huang, Zhenhao Shi, Yanwei Zhang, and Tao Liu</i>	
ICONE29-91936	V001T01A026
Fault Diagnosis of CRDM Based on EEMD-Wavelet Threshold Denoising and WOA- KELM <i>Luo Jingdong, Chen Ling, and Zhang Liming</i>	
ICONE29-91960	V001T01A027
Optimization Design About Generating or Removing Vapor Space Of The Primary Loop Pressurizer <i>Fan Ke</i>	
ICONE29-91966	V001T01A028
The Effect of Specimen Size and Surface Roughness on Tensile Strength of Nuclear Graphite <i>Yuxin Guan, Yingjie Zhan, Shuiyong Wang, Qingwu Wang, Wenxin Ti, and Bing Gong</i>	
ICONE29-92056	V001T01A029
Analysis Method and Application of Maintenance Rules for Main Steam System in Qinshan no.1 Nuclear Power Plant <i>Yan Jun Jin</i>	
ICONE29-92076	V001T01A030
Construction and Lean Management of Filters Cycle Life Cycle in Nuclear Safety- Related Ventilation Systems <i>Jianxing Du and Caiyuan Deng</i>	
ICONE29-92099	V001T01A031
Analysis and Mitigation Strategy on the Decreasing Opening of Thermal Pressurizer Pilot Operated Safety Relief Valves <i>Wensheng Hu, Chaofan Guo, Haisheng Zhao, Zhaoji Ruan, Jidong Min, Pencheng Du, and Xinxin Wang</i>	
ICONE29-92140	V001T01A032
Design of Combined Water System of Demineralized Water and Boiler Make-Up Water in Nuclear Engineering <i>Kechen Xu, Rui Wang, Hongmei Yan, and Wei Bai</i>	
ICONE29-92184	V001T01A033
Study on the Applicability of Flat Ceramic Membrane in Simulated Primary Coolant Water Environment of PWR Nuclear Power Plant <i>Yuxin Guan, Jiguo Chen, Guodong Zhang, and Xuqiu Ren</i>	
ICONE29-92186	V001T01A034
Study on the Feasibility of Power Supply Migration in Production Preparation Area of the Nuclear Power Station <i>Lin Yonggang</i>	
ICONE29-92194	V001T01A035
Analysis of Single-Line Fast Starting Technology for Emergency Diesel Generators in Nuclear Power Plants <i>Hongzhou Li</i>	
ICONE29-92209	V001T01A036
A Systematic Research on Prevention and Control Measures to Blockages of Cooling Water Intake System in Coastal Nuclear Power Plant <i>Ranran Cao, Jia Yang, and Wei Bai</i>	

ICONE29-92239	V001T01A037
Reactor Pit Injection Isolation Design Modification and Experience Feedback of UK HPR1000 In-Vessel Retention <i>Hua Zheng and Shuhong Wei</i>	
ICONE29-92243	V001T01A038
Development and Verification of New Drum Filter Equipment for Nuclear Power Plants <i>Huang Xiaojie, Lin Yishan, Xie Honghu, Li Yanqing, and Yang Jinchun</i>	
ICONE29-92381	V001T01A039
Design Overview for Process System of Large-Scale Seawater Desalination and Demineralized Water Production in the Nuclear Heating Plant <i>Rui Wang, Kechen Xu, Kehao Zeng, Hongmei Yan, Wei Bai, and Jing Li</i>	
ICONE29-92480	V001T01A040
Discussion on Setting Value and Grounding Mode of Grounding Protection for the Construction of a Nuclear Power Plant Power Loop Network <i>Wang Yuhan and Wang Zhijian</i>	
ICONE29-92493	V001T01A041
Research on Precision Water Reactor Fuel Servo Operation System <i>Li Ping, Peiqiang Deng, Wei Qian, Kaiyu Yang, Jiansong Zhai, and Shuiyang Huang</i>	
ICONE29-92499	V001T01A042
Analysis of Contribution Degree of Vibration Transmission of Bolted Structure <i>Shuai Liu, Wanyou Li, Xuan Huang, Furui Xiong, Xiaozhou Jiang, and Liwei Deng</i>	
ICONE29-92507	V001T01A043
Research on the Prevention and Control System of Jellyfish in Nuclear Power Plants Cooling Water System <i>Xiaolin Liu, Wei Meng, Li Lu, and Jianwen Li</i>	
ICONE29-92513	V001T01A044
Comparison Of Radiation Embrittlement Prediction Models for Reactor Pressure Vessel <i>Kexin Cai, Ping Huang, Wangjie Qian, Minyu Fan, Shuang Qi, Guodong Zhang, and Yanwei Zhang</i>	
ICONE29-92527	V001T01A045
Research on the Reactor and Turbine Matching Key Technology of CPR1000 Nuclear Power Plant for Industrial Steam Supply <i>Zhou Mingjia, Wang Kai, Zhang Wei, Zhu Jianmin, and Mao Yulong</i>	
ICONE29-92632	V001T01A046
Study on Technology and Application for Health Assessment of Electronic Equipment <i>Shi Guilian, Huang Xiaojin, and Zhao Xiaopeng</i>	
ICONE29-92633	V001T01A047
Research on Technical Scheme of Rapid Power Reduction System Based on Gray Control Rods <i>Wei Li, Jianfeng Shi, Yulong Qin, and Lihua Wang</i>	
ICONE29-92644	V001T01A048
Study on Ultrasonic Inspection Technology of Fastening Bolts of Reactor Internals <i>Jianbang Tang, Yukun Wu, Weiqiang Wang, Guanbing Ma, Chenming Zeng, and Junlong Xu</i>	
ICONE29-92726	V001T01A049
Research and Treatment of Pressure Regulation Defects in Fuel Circuit of Emergency Diesel Engine of One Nuclear Power Plant <i>Guo Feng</i>	

ICONE29-92727	V001T01A050
Shutdown Seal Improvement Feasibility Analysis for CPR1000 Reactor Coolant Pump	
<i>Zhang Hengrui, Huang Qian, Fu Peiren, Zhang Daoke, Cai Rui, Sun Lei, Chen Qiuyang, and Xue Feng</i>	
ICONE29-92733	V001T01A051
State Monitoring of Electric Gate Valve of Nuclear Power Plant Based on Kernel Principal Component Analysis and Jensen-Shannon Divergence	
<i>Xiaokun Wang, Hang Wang, Qiang Deng, and Renyi Xu</i>	
ICONE29-92755	V001T01A052
Simulation Analysis of Main and Auxiliary Switching and Motor Starting in Nuclear Power Plants	
<i>Zhang Xingzhen and Sun Hui</i>	
ICONE29-92760	V001T01A053
The Research on the Interception Engineering Layout of Active Intercepting and Guiding in Water Intake Open Channel of Nuclear Power Plant	
<i>Jia Yang, Ranran Cao, and Wei Bai</i>	
ICONE29-92805	V001T01A054
A Study on Health Assessment Technology for Sensor of Nuclear Power Plant Based on Dissimilarity of Residual Distribution	
<i>Wei Li, Yiwang Zhang, and Yidan Yuan</i>	
ICONE29-92830	V001T01A055
Stable Feature Reweighting Transformer for Out-Of-Distribution Bearing Fault Diagnosis	
<i>Hao Chen, Jie Nie, Shusong Yu, Chenglong Wang, Peizhe Yin, and Kun Yang</i>	
ICONE29-92834	V001T01A056
Analysis and Simulation in Rotating Rectifier in Brushless Excitation of Nuclear Power Plant	
<i>Zhang Xingzhen, Sun Hui, Zhao Yanjun, and Shi Xianzuo</i>	
ICONE29-92871	V001T01A057
Rapid Assessment Method for Corrosion Flaws of Seawater Cooling Pipes in Nuclear Power Plants	
<i>Zhichao Han, Haijun Chang, Mengling Shen, Zhishen Rong, and Zhengpeng Li</i>	
ICONE29-92874	V001T01A058
Research on Intelligent Classification Method of Primary Loop Transient in Nuclear Power Plant	
<i>Run Ze Zhang, Zhi Lin Chen, Yong Qiang Huang, and Xin Chen</i>	
ICONE29-92883	V001T01A059
Safety Analysis About Combined Heat and Power Generation of Nuclear Power Plant	
<i>Shiyao Liu</i>	
ICONE29-93004	V001T01A060
Study on the Influence of Roughness on Fuel Rod Gap Heat Transfer	
<i>Weichao Liu, Guoliang Zhang, Changzheng Li, Jin Cao, Shaofang Lin, Xiangang Fu, Lihong Nie, and Yongjun Deng</i>	
ICONE29-93024	V001T01A061
The Study of Removal of Secondary Neutron Source of HPR-1000	
<i>Huiwen Xiao, Xiang Li, Guoming Liu, Yicheng Zhang, Zeng Shao, Min Xu, Xuan Yi, and Haifeng Yang</i>	
ICONE29-93036	V001T01A062
Development and Application of a Support Device for Checking Leakage of Heat Exchange Tubes of Spring Base Supporting Condenser in the Form of Filling Water	
<i>Jianning Xie</i>	

ICONE29-93061	V001T01A063
Development and Application of Nuclear Power Plant Life Cycle Management Database Platform	
<i>Cao Guochang, Liu Zhao, Lv Fangming, Yang Zhenzhong, Jilang He, and Cui Yixin</i>	
ICONE29-93082	V001T01A064
A Proof-of-Concept Application of Fast Fracture Evaluation for the Primary Loop Section in Nuclear Power Plant	
<i>Zihao Zheng, Wenxin Qiu, Yang Dai, and Jiesheng Min</i>	
ICONE29-93089	V001T01A065
Maintenance Strategy Optimization Based on AP-913 in Relay Protection Field	
<i>Yu Zhao, Ping Li, Kunpeng Tian, and Xingwei Fei</i>	
ICONE29-93092	V001T01A066
Practical Issue Analysis of Miniature Circuit Breaker Implementation	
<i>Fei Xingwei, Tian Kunpeng, Zhao Yu, and Li Ping</i>	
ICONE29-93095	V001T01A067
Analysis of the Influence of RCCA Swelling on Rod Falling and Study on Mitigation Measures	
<i>Zhipeng Lv, Guoliang Zhang, Changzheng Li, Weichao Liu, Shaofang Lin, Lihong Nie, Zhijun Li, and Anlong Zhang</i>	
ICONE29-93102	V001T01A068
The Test of Leakage Current of Terminal Stator Winding of the 4# Generator and Defects Treatment	
<i>Kunpeng Tian, Ping Li, Yu Zhao, and Xingwei Fei</i>	
ICONE29-93144	V001T01A069
An Insulation Structure With Noise Reduction Function	
<i>Zhang Yicheng, Bian Pengfei, and Zhang Kai</i>	
ICONE29-93230	V001T01A070
A Comparative Approach of a Seismic Response Analysis Based on Housner Model and Added Mass Model for a Nuclear Water Storage Tank	
<i>Chengzhuo Yang, Thomas Metais, Zihao Zheng, Yang Dai, and Jiesheng Min</i>	
ICONE29-93265	V001T01A071
Research on Spacing Design Method of Condenser Half-Side Operation in Pressurized Water Reactor Nuclear Power Plant	
<i>Zhao Qingsen, Liang Junqin, Zhou Shuai, Chen Jie, Zeng Weipeng, and Zhang Qiang</i>	
ICONE29-93277	V001T01A072
Safety Evaluation of Flowrate Dissymmetry on Nuclear Power Plant Operation	
<i>Dongyuan Li, Jinkai Wang, Jiaoshen Xu, Zengpei Zhu, and Yaqi Zhang</i>	
ICONE29-93279	V001T01A073
Optimization of Transient Control Method for RCV System	
<i>Yong Qiang Huang, Zhi Lin Chen, Xin Chen, Zheng Gu, Han Min Chen, and Run Ze Zhang</i>	
ICONE29-93289	V001T01A074
Crack Propagation Analysis of Dissimilar Metal Weld for Steam Generator Nozzle Safety End	
<i>Shuang Qi, Wenxin Xiang, Ping Huang, Fangmao Ning, Minyu Fan, Lei Qi, Mingya Chen, and Jun Xu</i>	
ICONE29-93302	V001T01A075
Investigation on Methodology of Coastdown Analysis and Design for Reactor Coolant Pump	
<i>Yun Zhong</i>	

ICONE29-93315	V001T01A076
Analysis and Treatment of Trolley Overload Problem of Fuel Transfer System <i>Wei Cheng, Zhengyang Liu, Panpan Chai, Zhiming Wang, and Lei Wang</i>	
ICONE29-93332	V001T01A077
Safety Analysis for Transportation of Activated Secondary Neutron Source Assembly <i>Nanfeng Cao, Shouhai Yang, Enfei Xie, and Shunping Jing</i>	
ICONE29-93343	V001T01A078
Cause Analysis and Treatment Measures for Corrosion of Warm-Up Pipe of Hualong no.1 Main Feed Water Pump System <i>Zhiming Wu, Yixin Ling, Xing Liu, Dongdong Fei, Xiaoyu Hou, and Xue Wen</i>	
ICONE29-93344	V001T01A079
Cause Analysis and Improvement of Drain Regulating Valve Blockage in Nuclear Power Plant <i>Xue Kai, Li Jing, Hu Wensheng, Guo Chaofan, and Du Pengcheng</i>	
ICONE29-93421	V001T01A080
Disorders in Fluid Filled Pipeline Structure With Elastic Helmholtz Resonators <i>Qingna Zeng, Donghui Wang, Fenggang Zang, Yixiong Zhang, Bihao Wang, and Zhihao Yuan</i>	
ICONE29-93423	V001T01A081
Experimental Study on Pressure Pulsation of RCP With Steam Generator <i>Song Huang, Yu Song, Junlian Yin, Rui Xu, and Dezhong Wang</i>	
ICONE29-93427	V001T01A082
Review of Operating License Extension of Nuclear Power Plants <i>Zhilin Chen, Xiaowei Li, Ping Huang, Chunhui Wang, Jun Wang, Zhiyuan Chi, Kuiyuan Fang, Yinghui An, and Yanwei Zhang</i>	
ICONE29-93429	V001T01A083
The Evaluation System Study on Layout Design of EMIT Activities in Nuclear Power Plant <i>Zhou Yikun, Ding Nan, and Chen Chengzhen</i>	
ICONE29-93554	V001T01A084
Comparative Model of Nuclear Power Plant General Layout Scheme <i>Chong Guang Huang and Yan Wu</i>	
ICONE29-93587	V001T01A085
Quality Analysis and Abnormal Repair of Transient Monitoring Data of CPR1000 Unit <i>Wangjie Qian, Zhilin Chen, Feng Lv, Yanwei Zhang, Zheng Gu, Xin Chen, Hanming Chen, and Nianqing Fan</i>	
ICONE29-93589	V001T01A086
Analysis on the Determination of Coastal Nuclear Power Plant Platform Level <i>Chong Guang Huang and Yan Wu</i>	
ICONE29-93629	V001T01A087
Study on the Influence of Power Reduction Process on the Leakage Rate of Steam Generator <i>Zhao Zhang, Jun-Jie Yan, Wen-Bo Wang, Dao-Tong Chong, Min-Hua Su, Zi-Chun Wang, and Rong-Fa Shen</i>	